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HOSE

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**THE
CATALOGUE**

2022/24



EASTERN HOSE
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YOUR TRUSTED PARTNER FOR HYDRAULIC BREAKDOWNS ACROSS EAST ANGLIA

Eastern Hose boasts the largest hydraulic hose call-out fleet in East Anglia. With 15 vans – and rising – we offer swift, reliable on-site support for breakdowns and periodic maintenance across the eastern region. Our team of Safe Contractor accredited engineers have the technical expertise to keep you flowing freely.

✔ **FAST, LOCAL ASSISTANCE**

Our emergency call-out number is available 24/7. We can send qualified engineers to your site – across the eastern region – within 90 minutes.

✔ **UNRIVALLED REPUTATION**

For more than three decades we have been trusted to recommend fluid power products for local businesses and contractors at the best possible prices.

✔ **SAFE CONTRACTOR ACCREDITED**

For total peace of mind that our qualified engineers abide by industry standard health and safety protocols on-site.

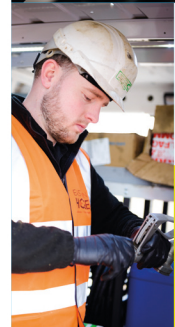
✔ **TOP PERFORMING PRODUCTS ON BOARD**

We proudly stock and supply fluid power products from Europe's largest fluid power manufacturers. Hydraulic hoses from Dunlop Hiflex, part of the Alfagomma Group, are certified to over 1 million impulse cycles for exceptional durability and life expectancy.

✔ **BOOK ONLINE AND TRACK YOUR JOB**

From our risk assessment to the appraisal of the remedial works required, our online booking system offers total transparency for your job, giving you the ability to track all aspects of our visit.

For more information call **0800 711 7845** or visit www.easternhose.com, to find out how we can keep your business moving.



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BRANDS

Our extensive range of industry-leading brands suits almost every application in the fluid power industry. However, if you can't find what you're looking for, we can also source millions of products from our global network of suppliers.

Give us a call!



All brands featured on this page may not appear in this catalogue. Please contact our sales team for any enquiries.

SECTION 1

Rigid Fluid Conveyance



- Eaton Walterscheid
- KR High Pressure Tube Couplings
- Betabite Imperial Compression Fittings
- PH Industries Stainless Steel DIN2353 Compression Fittings
- Panam Twin Ferrule Stainless Steel Compression Fittings
- Hydraulic Tube
- Hose & Tube Cleaning Kits
- Hydraulic Tube Clamps
- Parker Multiclamp System



Betabite Imperial Compression Fittings	31-33	Light-duty Series A Hydraulic Tube Clamp Accessories	75-79
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Walform Machine Hire



Most popular cold forming tube fitting system in the world!

Hassle free hire includes:

- **Walform machine**
- **Tooling**
- **Shipping and Collection**

Hire available now with an order for Eaton Walterscheid compression fittings, tube and clamps

Contact your Account Manager to discuss your requirements

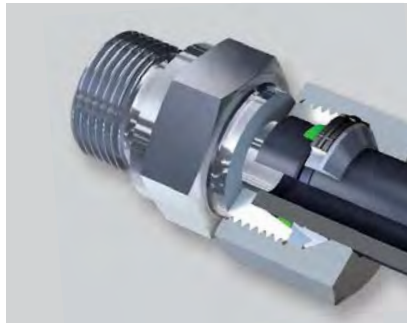
Eaton's Walterscheid Trilogy

- Simple final in service assembly with prefabricated tube ends
- Best in class performance
- Maximum system stability and safety
- Superior quality
- Global availability

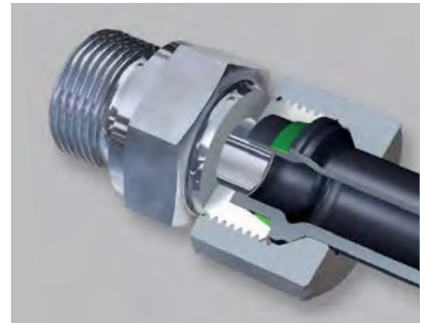
WALPRO™



WALRING™



WALFORM™





Threaded Plugs

Captive nitrile seal.



BSPP

0350	Thread
VSR1/8WD	1/8"
VSR1/4WD	1/4"
VSR3/8WD	3/8"
VSR1/2WD	1/2"
VSR3/4WD	3/4"
VSR1WD	1"
VSR11/4WD	1.1/4"
VSR11/2WD	1.1/2"

Tech Sheet 1656

Captive nitrile seal



Metric

0350	Thread
VSM8X1.0WD	M8 x 1.0
VSM12X1.5WD	M12 x 1.5
VSM14X1.5WD	M14 x 1.5
VSM16X1.5WD	M16 x 1.5
VSM18X1.5WD	M18 x 1.5
VSM20X1.5WD	M20 x 1.5
VSM22X1.5WD	M22 x 1.5
VSM26X1.5WD	M26 x 1.5
VSM27X2WD	M27 x 2
VSM33X2WD	M33 x 2
VSM42X2WD	M42 x 2
VSM48X2WD	M48 x 2

Tech Sheet 1656

Blanking Plugs



Extra Light-duty

0350	To Suit Tube OD mm
VSD4LLMMB	4
VSD6LLMMD	6
VSD8LLMMD	8

Tech Sheet 1657

Light-duty

0350	To Suit Tube OD mm
VSD6L/SMMB	6
VSD8L/SMMB	8
VSD10L/SMMB	10
VSD12L/SMMB	12
VSD15LMMB	15
VSD18LMMB	18
VSD22LMMB	22
VSD28LMMB	28
VSD35LMMB	35
VSD42LMMB	42

Tech Sheet 1657

Heavy-duty

0350	To Suit Tube OD mm
VSD14SMMB	14
VSD16SMMB	16
VSD20SMMB	20
VSD25SMMB	25
VSD30SMMB	30
VSD38SMMB	38

Tech Sheet 1657

Blanking Ends

Suitable for swivel end connectors.



Light-duty

0350	OD mm	Max Pressure Bar
VSK6L	6	500
VSK8L	8	500
VSK10L	10	500
VSK12L	12	400
VSK15L	15	400
VSK18L	18	400
VSK22L	22	250
VSK28L	28	250
VSK35L	35	250
VSK42L	42	250

Tech Sheet 1658

Heavy-duty

0350	OD mm	Max Pressure Bar
VSK6S	6	800
VSK8S	8	800
VSK10S	10	800
VSK12S	12	630
VSK14S	14	630
VSK16S	16	630
VSK20S	20	420
VSK25S	25	420
VSK30S	30	420
VSK38S	38	420

Tech Sheet 1658



For **Hose & Pipe Cleaning Kits**
see page 71





WALRing Nuts c/w Profile Ring & O-Ring



Metric, Light-duty Viton

0350	Thread	OD mm	Max Pressure Bar
WR6LVIA2M	M12 x 1.5	6	500
WR8LVIA2M	M14 x 1.5	8	500
WR10LVIA2M	M16 x 1.5	10	500
WR12LVIA2M	M18 x 1.5	12	400
WR15LVIA2M	M22 x 1.5	15	400
WR18LVIA2M	M26 x 1.5	18	400
WR22LVIA2M	M30 x 2	22	250
WR28LVIA2M	M36 x 2	28	250
WR35LVIA2M	M45 x 2	35	250
WR42LVIA2M	M52 x 2	42	250

Tech Sheet 1660

Metric, Heavy-duty Viton

0350	Thread	OD mm	Max Pressure Bar
WR6SVIA2M	M14 x 1.5	6	800
WR8SVIA2M	M16 x 1.5	8	800
WR12SVIA2M	M20 x 1.5	12	630
WR16SVIA2M	M24 x 1.5	16	630
WR20SVIA2M	M30 x 2	20	420
WR25SVIA2M	M36 x 2	25	420
WR30SVIA2M	M42 x 2	30	420
WR38SVIA2M	M52 x 2	38	420

Tech Sheet 1660

Metric, Light-duty Nitrile

0350	Thread	OD mm	Max Pressure Bar
WR6LA2M	M12 x 1.5	6	500
WR8LA2M	M14 x 1.5	8	500
WR10LA2M	M16 x 1.5	10	500
WR12LA2M	M18 x 1.5	12	400
WR15LA2M	M22 x 1.5	15	400
WR18LA2M	M26 x 1.5	18	400
WR22LA2M	M30 x 2	22	250
WR28LA2M	M36 x 2	28	250
WR35LA2M	M45 x 2	35	250
WR42LA2M	M52 x 2	42	250

Tech Sheet 1660

Metric, Heavy-duty Nitrile

0350	Thread	OD mm	Max Pressure Bar
WR6SA2M	M14 x 1.5	6	800
WR10SA2M	M18 x 1.5	10	800
WR12SA2M	M20 x 1.5	12	630
WR16SA2M	M24 x 1.5	16	630
WR20SA2M	M30 x 2	20	420
WR25SA2M	M36 x 2	25	420
WR38SA2M	M52 x 2	38	420

Tech Sheet 1660

DIN 2353 Walform Nuts



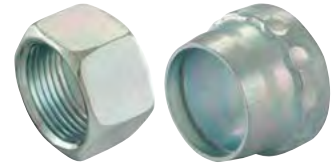
Light-duty

0350	Thread	OD mm	Max Pressure Bar
M-6L	M12 x 1.5	6	500
M-8L	M14 x 1.5	8	500
M-10L	M16 x 1.5	10	500
M-12L	M18 x 1.5	12	400
M-15L	M22 x 1.5	15	400
M-18L	M26 x 1.5	18	400
M-22L	M30 x 2	22	250
M-28L	M36 x 2	28	250
M-35L	M45 x 2	35	250
M-42L	M52 x 2	42	250

Heavy-duty

0350	Thread	OD mm	Max Pressure Bar
M6S	M14 x 1.5	6	800
M8S	M16 x 1.5	8	800
M10S	M18 x 1.5	10	800
M12S	M20 x 1.5	12	630
M14S	M22 x 1.5	14	630
M16S	M24 x 1.5	16	420
M20S	M30 x 2	20	420
M25S	M36 x 2	25	420
M30S	M42 x 2	30	420
M38S	M52 x 2	38	420

WALPro Nut & Profile Ring



Extra Light-duty

0350	OD mm	Max Pressure Bar
SR-M 4 LL	4	100
SR-M 6 LL	6	100
SR-M 8 LL	8	100

Light-duty

0350	OD mm	Max Pressure Bar
PR-M 6 L	6	500
PR-M 8 L	8	500
PR-M 10 L	10	500
PR-M 12 L	12	400
PR-M 15 L	15	400
PR-M 18 L	18	400
PR-M 22 L	22	250
PR-M 28 L	28	250
PR-M 35 L	35	250
PR-M 42 L	42	250

Heavy-duty

0350	OD mm	Max Pressure Bar
PR-M 6 S	6	800
PR-M 8 S	8	800
PR-M 10 S	10	800
PR-M 12 S	12	630
PR-M 14 S	14	630
PR-M 16 S	16	420
PR-M 20 S	20	420
PR-M 25 S	25	420
PR-M 30 S	30	420
PR-M 38 S	38	420

WALform Plus Viton Captive Seal



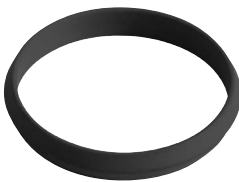
Light-duty

0291	To Suit Nut
WF-WD18LVI	18L
WF-WD22LVI	22L
WF-WD28LVI	28L
WF-WD35LVI	35L
WF-WD42LVI	42L
Tech Sheet 1660	

Heavy-duty

0291	To Suit Nut
WF-WD16SVI	16S
WF-WD20SVI	20S
WF-WD25SVI	25S
WF-WD30SVI	30S
WF-WD38SVI	38S
Tech Sheet 1660	

WALform Plus Nitrile Captive Seal



Light/Heavy-duty

0291	To Suit Nut
WF-WD6L/S	6L/S
WF-WD8L/S	8L/S
WF-WD10L/S	10L/S
WF-WD12L/S	12L/S
WF-WD15L	15L
WF-WD16S	16S
WF-WD18L	18L
WF-WD20S	20S
WF-WD22L	22L
WF-WD25S	25S
WF-WD28L	28L
WF-WD30S	30S
WF-WD35L	35L
WF-WD38S	38S
WF-WD42L	42L
Tech Sheet 1660	

WALform Nut & Seal



Light-duty, Viton

0350	OD mm
WF-M 6 L VI	6
WF-M 8 L VI	8
WF-M 10 L VI	10
WF-M 12 L VI	12
WF-M 15 L VI	15
WF-M 18 L VI	18
WF-M 22 L VI	22
WF-M 28 L VI	28
WF-M 35 L VI	35
WF-M 42 L VI	42

Heavy-duty, Viton

0350	OD mm
WF-M 6 S VI	6
WF-M 8 S VI	8
WF-M 10 S VI	10
WF-M 12 S VI	12
WF-M 16 S VI	16
WF-M 20 S VI	20
WF-M 25 S VI	25
WF-M 30 S VI	30
WF-M 38 S VI	38

Light-duty, Nitrile

0350	OD mm
WF-M 6 L NBR	6
WF-M 8 L NBR	8
WF-M 10 L NBR	10
WF-M 12 L NBR	12
WF-M 15 L NBR	15
WF-M 18 L NBR	18
WF-M 22 L NBR	22
WF-M 28 L NBR	28
WF-M 35 L NBR	35
WF-M 42 L NBR	42

Heavy-duty, Nitrile

0350	OD mm
WF-M 6 S NBR	6
WF-M 8 S NBR	8
WF-M 10 S NBR	10
WF-M 12 S NBR	12
WF-M 16 S NBR	16
WF-M 20 S NBR	20
WF-M 25 S NBR	25
WF-M 30 S NBR	30
WF-M 38 S NBR	38

WALform Machine Hire



Hire available
with an order for
Eaton Walterscheid
compression fittings,
tube and clamps

Hassle free hire includes:

- Walform machine
- Tooling
- Shipping and Collection

Hire available now with order for Eaton Walterscheid compression fittings.



MALE STUD COUPLINGS

CUTTING RING COUPLINGS DIN 2353/ISO 8434-1

WALTERSCHEID Hydraulic BITE TYPE Fittings

WALTERSCHEID offer a complete product range and highest quality:

Based on this principle WALTERSCHEID offers one of the most comprehensive product ranges for tube coupling systems.

The WALTERSCHEID programme includes cutting ring, soft seal, flared couplings and flange couplings, plus a wide range of accessories.

The WALTERSCHEID range of hydraulic compression fittings cover sizes from 6mm od to 42mm od in light-duty and from 6mm od to 38mm od in heavy-duty.

Manufactured to DIN 2353 standard, mild steel with C6F free surface coating, each compression fitting is supplied complete with cutting ring and nut.

Pressure Range Guide:

Light-duty	Heavy-duty
6mm OD-18mm OD= 400 bar	6mm OD-16mm OD = 630 bar
22mm OD-42mm OD= 250 bar	20mm OD-25mm OD = 400 bar
	30mm OD-38mm= 250 bar

These pressures are for guide purposes only and please consult our technical department for specific applications.

BSPB 60° Cone



Light-duty

0350	Thread	OD mm	Max Pressure Bar
GEV6LRFOA	1/8"	6	400
GEV8LR1/8FOA	1/8"	8	400
GEV6LR1/4FOA	1/4"	6	400
GEV8LRFOA	1/4"	8	400
GEV10LRFOA	1/4"	10	400
GEV12LR1/4FOA	1/4"	12	400
GEV6LR3/8FOA	3/8"	6	400
GEV8LR3/8FOA	3/8"	8	400
GEV10LR3/8FOA	3/8"	10	400
GEV12LRFOA	3/8"	12	400
GEV15LR3/8FOA	3/8"	15	400
GEV10LR1/2FOA	1/2"	10	400
GEV12LR1/2FOA	1/2"	12	400
GEV15LRFOA	1/2"	15	400
GEV18LRFOA	1/2"	18	400
GEV22LR1/2FOA	1/2"	22	250
GEV18LR3/4FOA	3/4"	18	400
GEV22LRFOA	3/4"	22	250
GEV28LR3/4FOA	3/4"	28	250
GEV28LRFOA	1"	28	250
GEV35LRFOA	1.1/4"	35	250

Tech Sheet 20898

Heavy-duty

0350	Thread	OD mm	Max Pressure Bar
GEV8SRFOA	1/4"	8	630
GEV10SR1/4FOA	1/4"	10	630
GEV12SR1/4FOA	1/4"	12	630
GEV10SRFOA	3/8"	10	630
GEV12SRFOA	3/8"	12	630
GEV16SR3/8FOA	3/8"	16	630
GEV12SR1/2FOA	1/2"	12	630
GEV14SRFOA	1/2"	14	630
GEV16SRFOA	1/2"	16	630
GEV20SR1/2FOA	1/2"	20	400
GEV16SR3/4FOA	3/4"	16	630
GEV20SRFOA	3/4"	20	400
GEV25SR3/4FOA	3/4"	25	400
GEV25SRFOA	1"	25	400
GEV30SR1FOA	1"	30	250
GEV38SR1FOA	1"	38	250
GEV38SRFOA	1.1/2"	38	250
GEV30SR11/4FOA	1.1/4"	30	250
GEV38SR11/4FOA	1.1/4"	38	250

Tech Sheet 20898

BSPT



Extra Light-duty

0350	Thread	OD mm	Max Pressure Bar
GEV4LLRK	1/8"	4	100
GEV6LLRK	1/8"	6	100
GEV8LLRK	1/8"	8	100

Tech Sheet 1661

Light-duty

0350	Thread	OD mm	Max Pressure Bar
GEV8LRK	1/4"	8	250
GEV10LRK	1/4"	10	250
GEV12LR1/4K	1/4"	12	250
GEV10LR3/8K	3/8"	10	250
GEV12LRK	3/8"	12	250
GEV15LRK	1/2"	15	250

Tech Sheet 1661

Form B, Metric



Light-duty

0350	Thread	OD mm	Max Pressure Bar
GEV6LM12X1.5	M12 x 1.5	6	400
GEV8LM	M12 x 1.5	8	400
GEV10LM	M14 x 1.5	10	400
GEV8LM16X1.5	M16 x 1.5	8	400
GEV10LM16X1.5	M16 x 1.5	10	400
GEV12LM	M16 x 1.5	12	400
GEV10LM18X1.5	M18 x 1.5	10	400
GEV12LM18X1.5	M18 x 1.5	12	400
GEV15LM	M18 x 1.5	15	400
GEV18LM18X1.5	M18 x 1.5	18	400
GEV10LM22X1.5	M22 x 1.5	10	400
GEV12LM22X1.5	M22 x 1.5	12	400
GEV15LM22X1.5	M22 x 1.5	15	400
GEV18LM	M22 x 1.5	18	400
GEV22LM	M26 x 1.5	22	250
GEV28LM	M33 x 2	28	250
GEV35LM	M42 x 2	35	250
GEV42LM	M48 x 2	42	250

Tech Sheet 1662

Heavy-duty

0350	Thread	OD mm	Max Pressure Bar
GEV6SM	M12 x 1.5	6	630
GEV8SM	M14 x 1.5	8	630
GEV10SM	M16 x 1.5	10	630
GEV12SM	M18 x 1.5	12	630
GEV16SM18X1.5	M18 x 1.5	16	630
GEV14SM	M20 x 1.5	14	630
GEV16SM	M22 x 1.5	16	630
GEV20SM	M27 x 2	20	400
GEV25SM	M33 x 2	25	400
GEV30SM	M42 x 2	30	250
GEV38SM	M48 x 2	38	250

Tech Sheet 1662

Form B, BSPP



Light-duty

0350	Thread	OD mm	Max Pressure Bar
GEV6LR	1/8"	6	400
GEV8LR1/8	1/8"	8	400
GEV6LR1/4	1/4"	6	400
GEV8LR	1/4"	8	400
GEV10LR	1/4"	10	400
GEV12LR1/4	1/4"	12	400
GEV6LR3/8	3/8"	6	400
GEV8LR3/8	3/8"	8	400
GEV10LR3/8	3/8"	10	400
GEV12LR	3/8"	12	400
GEV15LR3/8	3/8"	15	400
GEV18LR3/8	3/8"	18	400
GEV8LR1/2	1/2"	8	400
GEV10LR1/2	1/2"	10	400
GEV12LR1/2	1/2"	12	400
GEV15LR	1/2"	15	400
GEV18LR	1/2"	18	400
GEV22LR1/2	1/2"	22	250
GEV15LR3/4	3/4"	15	400
GEV18LR3/4	3/4"	18	400
GEV22LR	3/4"	22	250
GEV28LR3/4	3/4"	28	250
GEV22LR1	1"	22	250
GEV28LR	1"	28	250
GEV35LR1	1"	35	250
GEV42LR	1.1/2"	42	250

Tech Sheet 1663

Heavy-duty

0350	Thread	OD mm	Max Pressure Bar
GEV6SR	1/4"	6	630
GEV8SR	1/4"	8	630
GEV10SR1/4	1/4"	10	630
GEV12SR1/4	1/4"	12	630
GEV8SR3/8	3/8"	8	630
GEV10SR	3/8"	10	630
GEV12SR	3/8"	12	630
GEV14SR3/8	3/8"	14	630
GEV16SR3/8	3/8"	16	630
GEV8SR1/2	1/2"	8	630
GEV10SR1/2	1/2"	10	630
GEV12SR1/2	1/2"	12	630
GEV14SR	1/2"	14	630
GEV16SR	1/2"	16	630
GEV20SR1/2	1/2"	20	400
GEV16SR3/4	3/4"	16	630
GEV20SR	3/4"	20	400
GEV25SR3/4	3/4"	25	400
GEV30SR3/4	3/4"	30	250
GEV20SR1	1"	20	400
GEV25SR	1"	25	400
GEV30SR1	1"	30	250
GEV30SR	1.1/4"	30	250
GEV38SR11/4	1.1/4"	38	250
GEV38SR	1.1/2"	38	250

Tech Sheet 1663

Form E, Metric



Light-duty

0350	Thread	OD mm	Max Pressure Bar
GEV6LMWD	M10 x 1	6	500
GEV8LMWD	M12 x 1.5	8	500
GEV10LMWD	M14 x 1.5	10	500
GEV12LMWD	M16 x 1.5	12	400
GEV12LM18X1.5WD	M18 x 1.5	12	400
GEV15LMD	M18 x 1.5	15	400
GEV18LM18X1.5WD	M18 x 1.5	18	400
GEV12LM22X1.5WD	M22 x 1.5	12	400
GEV15LM22X1.5WD	M22 x 1.5	15	400
GEV18LMWD	M22 x 1.5	18	400
GEV22LMWD	M26 x 1.5	22	250
GEV28LMWD	M33 x 2	28	250
GEV35LMWD	M42 x 2	35	250

Tech Sheet 1664

Heavy-duty

0350	Thread	OD mm	Max Pressure Bar
GEV6SMWD	M12 x 1.5	6	800
GEV8SMWD	M14 x 1.5	8	800
GEV10SMWD	M16 x 1.5	10	800
GEV12SMWD	M18 x 1.5	12	630
GEV14SMWD	M20 x 1.5	14	630
GEV16SMWD	M22 x 1.5	16	630
GEV20SMWD	M27 x 2	20	420
GEV25SMWD	M33 x 2	25	420
GEV30SMWD	M42 x 2	30	420
GEV38SMWD	M48 x 2	38	420

Tech Sheet 1664

Form E, BSPP



Light-duty

0350	Thread	OD mm	Max Pressure Bar
GEV6LRWD	1/8"	6	500
GEV8LR1/8WD	1/8"	8	500
GEV6LR1/4WD	1/4"	6	500
GEV8LRWD	1/4"	8	500
GEV10LRWD	1/4"	10	500
GEV12LR1/4WD	1/4"	12	400
GEV8LR3/8WD	3/8"	8	500
GEV10LR3/8WD	3/8"	10	500
GEV12LRWD	3/8"	12	400
GEV15LR3/8WD	3/8"	15	400
GEV10LR1/2WD	1/2"	10	500
GEV12LR1/2WD	1/2"	12	400
GEV15LRWD	1/2"	15	400
GEV18LRWD	1/2"	18	400
GEV18LR3/4WD	3/4"	18	400
GEV22LRWD	3/4"	22	250
GEV28LRWD	1"	28	250
GEV35LRWD	1.1/4"	35	250
GEV42LRWD	1.1/2"	42	250

Tech Sheet 1665

Heavy-duty

0350	Thread	OD mm	Max Pressure Bar
GEV6SRWD	1/4"	6	800
GEV8SRWD	1/4"	8	800
GEV10SR1/4WD	1/4"	10	800
GEV12SR1/4WD	1/4"	12	630
GEV8SR3/8WD	3/8"	8	800
GEV10SRWD	3/8"	10	800
GEV12SRWD	3/8"	12	630
GEV16SR3/8WD	3/8"	16	630
GEV10SR1/2WD	1/2"	10	800
GEV12SR1/2WD	1/2"	12	630
GEV14SRWD	1/2"	14	630
GEV16SRWD	1/2"	16	630
GEV16SR3/4WD	3/4"	16	630
GEV20SRWD	3/4"	20	420
GEV25SR3/4WD	3/4"	25	420
GEV25SRWD	1"	25	420
GEV30SRWD	1.1/4"	30	420
GEV38SRWD	1.1/2"	38	420

Tech Sheet 1665

MALE STUD COUPLINGS



NPT



Extra Light-duty

0350	Thread	OD mm	Max Pressure Bar
GEV4LL1/8NPT	1/8"	4	100
GEV6LL1/8NPT	1/8"	6	100
GEV8LL1/8NPT	1/8"	8	100

Tech Sheet 1666

Light-duty

0350	Thread	OD mm	Max Pressure Bar
GEV6L1/8NPT	1/8"	6	315
GEV6L1/4NPT	1/4"	6	315
GEV8L1/4NPT	1/4"	8	315
GEV10L1/4NPT	1/4"	10	315
GEV12L1/4NPT	1/4"	12	315
GEV10L3/8NPT	3/8"	10	315
GEV12L3/8NPT	3/8"	12	315
GEV12L1/2NPT	1/2"	12	315
GEV15L1/2NPT	1/2"	15	315
GEV18L1/2NPT	1/2"	18	315
GEV22L3/4NPT	3/4"	22	160
GEV28L1NPT	1"	28	160
GEV35L11/4NPT	1.1/4"	35	160
GEV42L11/2NPT	1.1/2"	42	160

Tech Sheet 1666

Heavy-duty

0350	Thread	OD mm	Max Pressure Bar
GEV8S1/4NPT	1/4"	8	630
GEV10S1/4NPT	1/4"	10	630
GEV12S1/4NPT	1/4"	12	630
GEV10S3/8NPT	3/8"	10	630
GEV12S3/8NPT	3/8"	12	630
GEV12S1/2NPT	1/2"	12	630
GEV14S1/2NPT	1/2"	14	630
GEV16S1/2NPT	1/2"	16	400
GEV25S1NPT	1"	25	400
GEV38S11/2NPT	1.1/2"	38	315

Tech Sheet 1666

UNF



Light-duty

0350	Thread	OD mm	Max Pressure Bar
GEV8L7/16-20UNF	7/16-20 UNF	8	400
GEV10L7/16-20UNF	7/16-20 UNF	10	400
GEV8L9/16-18UNF	9/16-18 UNF	8	400
GEV10L9/16-18UNF	9/16-18 UNF	10	400
GEV12L9/16-18UNF	9/16-18 UNF	12	400
GEV12L3/4-16UNF	3/4-16 UNF	12	400
GEV15L3/4-16UNF	3/4-16 UNF	15	400
GEV18L3/4-16UNF	3/4-16 UNF	18	400
GEV12L7/8-14UNF	7/8-14 UNF	12	400
GEV15L7/8-14UNF	7/8-14 UNF	15	400
GEV18L7/8-14UNF	7/8-14 UNF	18	400
GEV22L7/8-14UNF	7/8-14 UNF	22	250
GEV28L7/8-14UNF	7/8-14 UNF	28	250
GEV22L11/16-12UN	1.1/16-12 UN	22	250
GEV28L15/16-12UN	1.5/16-12 UN	28	250
GEV35L15/16-12UN	1.5/16-12 UN	35	250
GEV35L15/8-12UN	1.5/8-12 UN	35	250

Tech Sheet 1667

Heavy-duty

0350	Thread	OD mm	Max Pressure Bar
GEV10S9/16-18UNF	9/16-18 UNF	10	630
GEV12S3/4-16UNF	3/4-16 UNF	12	630
GEV16S3/4-16UNF	3/4-16 UNF	16	630
GEV20S3/4-16UNF	3/4-16 UNF	20	400
GEV16S7/8-14UNF	7/8-14 UNF	16	630
GEV20S7/8-14UNF	7/8-14 UNF	20	400
GEV20S11/16-12UN	1.1/16-10 UN	20	400
GEV30S15/8-12UN	1.5/8-12 UN	30	315

Tech Sheet 1667

Elbows



BSPT, Extra Light-duty

0350	Thread	OD mm	Max Pressure Bar
WEV4LLRK	1/8"	4	100
WEV6LLRK	1/8"	6	100
WEV8LLRK	1/8"	8	100

Tech Sheet 1668



Metric Taper, Extra Light-duty

0350	Thread	OD mm	Max Pressure Bar
WEV4LLMK	M8 x 1	4	100
WEV6LLMK	M10 x 1	6	100
WEV8LLMK	M10 x 1	8	100

Tech Sheet 1669



NPT, Extra Light-duty

0350	Thread	OD mm	Max Pressure Bar
WEV4LL1/8NPT	1/8"	4	100
WEV6LL1/8NPT	1/8"	6	100
WEV8LL1/8NPT	1/8"	8	100

Tech Sheet 1670

BSPT, Light-duty

0350	Thread	OD mm	Max Pressure Bar
WEV6LRK	1/8"	6	250
WEV6LR1/4K	1/4"	6	250
WEV8LRK	1/4"	8	250
WEV12LR1/4K	1/4"	12	250
WEV10LRK	1/4"	10	250
WEV10LR3/8K	3/8"	10	250
WEV12LRK	3/8"	12	250
WEV15LR3/8K	3/8"	15	250
WEV12LR1/2K	1/2"	12	250
WEV15LRK	1/2"	15	250
WEV18LRK	1/2"	18	160

Tech Sheet 1668

Metric Taper, Light-duty

0350	Thread	OD mm	Max Pressure Bar
WEV6LMK	M10 x 1	6	250
WEV8LMK	M12 x 1.5	8	250
WEV10LMK	M14 x 1.5	10	250
WEV12LMK	M16 x 1.5	12	250
WEV15LMK	M18 x 1.5	15	250
WEV18LMK	M22 x 1.5	18	160

Tech Sheet 1669

NPT, Light-duty

0350	Thread	OD mm	Max Pressure Bar
WEV6L1/8NPT	1/8"	6	250
WEV8L1/4NPT	1/4"	8	250
WEV10L1/4NPT	1/4"	10	250
WEV12L1/4NPT	1/4"	12	250
WEV12L3/8NPT	3/8"	12	250
WEV15L1/2NPT	1/2"	15	250
WEV18L1/2NPT	1/2"	18	160
WEV22L3/4NPT	3/4"	22	160
WEV28L1NPT	1"	28	100

Tech Sheet 1670

BSPT, Heavy-duty

0350	Thread	OD mm	Max Pressure Bar
WEV6SRK	1/4"	6	630
WEV8SRK	1/4"	8	630
WEV12SRK	3/8"	12	630
WEV14SRK	1/2"	14	630
WEV16SRK	1/2"	16	400

Tech Sheet 1668

Metric Taper, Heavy-duty

0350	Thread	OD mm	Max Pressure Bar
WEV6SMK	M12 x 1.5	6	630
WEV8SMK	M14 x 1.5	8	630
WEV10SMK	M16 x 1.5	10	630
WEV12SMK	M18 x 1.5	12	630
WEV16SMK	M22 x 1.5	16	400

Tech Sheet 1669

NPT, Heavy-duty

0350	Thread	OD mm	Max Pressure Bar
WEV6S1/4NPT	1/4"	6	630
WEV8S1/4NPT	1/4"	8	630
WEV10S3/8NPT	3/8"	10	630
WEV12S3/8NPT	3/8"	12	630
WEV14S1/2NPT	1/2"	14	630
WEV16S1/2NPT	1/2"	16	400
WEV20S3/4NPT	3/4"	20	400
WEV25S1NPT	1"	25	400

Tech Sheet 1670

BSPP, Reducing Bushes

Captive NBR seal



BSPP, Compact

0350	Male Thread	Female Thread	Max Pressure Bar
REDR3/8X1/8	3/8"	1/8"	630
REDR1/2X1/8	1/2"	1/8"	630
REDR1/2X1/4	1/2"	1/4"	630
REDR3/4X1/4	3/4"	1/4"	400
REDR3/4X3/8	3/4"	3/8"	400
REDR1X1/4	1"	1/4"	400
REDR1X3/8	1"	3/8"	400
REDR1X1/2	1"	1/2"	400
REDR11/4X1/2	1.1/4"	1/2"	400
REDR11/4X3/4	1.1/4"	3/4"	400
REDR11/2X1/2	1.1/2"	1/2"	400
REDR11/2X3/4	1.1/2"	3/4"	400
REDR11/2X1	1.1/2"	1"	400

Tech Sheet 1671

Captive NBR seal



BSPP

0350	Male Thread	Female Thread	Max Pressure Bar
REDR1/8X1/4	1/8"	1/4"	400
REDR1/8X3/8	1/8"	3/8"	400
REDR1/4X1/8	1/4"	1/8"	400
REDR1/4X3/8	1/4"	3/8"	400
REDR1/4X1/2	1/4"	1/2"	400
REDR1/4X3/4	1/4"	3/4"	400
REDR3/8X1/4	3/8"	1/4"	400
REDR3/8X1/2	3/8"	1/2"	400
REDR3/8X3/4	3/8"	3/4"	400
REDR1/2X3/8	1/2"	3/8"	400
REDR1/2X3/4	1/2"	3/4"	400

0350	Male Thread	Female Thread	Max Pressure Bar
REDR1/2X1	1/2"	1"	400
REDR3/4X1/2	3/4"	1/2"	400
REDR3/4X1	3/4"	1"	400
REDR3/4X11/4	3/4"	1.1/4"	250
REDR3/4X11/2	3/4"	1.1/2"	250
REDR1X3/4	1"	3/4"	400
REDR1X11/4	1"	1.1/4"	250
REDR1X11/2	1"	1.1/2"	250
REDR11/4X1	1.1/4"	1"	400
REDR11/4X11/2	1.1/4"	1.1/2"	250
REDR11/2X11/4	1.1/2"	1.1/4"	250

Tech Sheet 1672



TUBE TO TUBE COUPLINGS



Rigid Fluid Conveyance



Equal Elbows



Extra Light-duty

0350	OD mm	Max Pressure Bar
WV4LL	4	100
WV6LL	6	100
WV8LL	8	100
Tech Sheet 1673		

Light-duty

0350	OD mm	Max Pressure Bar
WV6L	6	500
WV8L	8	500
WV10L	10	500
WV12L	12	400
WV15L	15	400
WV18L	18	400
WV22L	22	250
WV28L	28	250
WV35L	35	250
WV42L	42	250
Tech Sheet 1673		

Heavy-duty

0350	OD mm	Max Pressure Bar
WV06S	6	800
WV08S	8	800
WV10S	10	800
WV12S	12	630
WV14S	14	630
WV16S	16	630
WV20S	20	420
WV25S	25	420
WV30S	30	420
WV38S	38	400
Tech Sheet 1673		

Bulkhead Elbows

Light-duty

0350	Thread	OD mm	Max Pressure Bar
WSV6L	M12 x 1.5	6	500
WSV8L	M14 x 1.5	8	500
WSV10L	M16 x 1.5	10	500
WSV12L	M18 x 1.5	12	400
WSV15L	M22 x 1.5	15	400
WSV18L	M26 x 1.5	18	400
WSV22L	M30 x 2	22	250
WSV28L	M36 x 2	28	250
WSV35L	M45 x 2	35	250
WSV42L	M52 x 2	42	250
Tech Sheet 1674			

Reducing Elbows

Light-duty

0350	OD mm	OD mm	Max Pressure Bar
REDWV8L-6L	8	6	315
REDWV10L-8L	10	8	315
REDWV10L-6L	10	6	315
REDWV12L-10L	12	10	315
REDWV12L-8L	12	8	315
REDWV12L-6L	12	6	315
REDWV15L-12L	15	12	315
REDWV15L-10L	15	10	315
REDWV15L-8L	15	8	315
REDWV15L-6L	15	6	315
REDWV18L-15L	18	15	315
REDWV18L-12L	18	12	315
REDWV18L-10L	18	10	315
REDWV18L-8L	18	8	315
REDWV18L-6L	18	6	315
REDWV22L-18L	22	18	160
REDWV22L-15L	22	15	160
REDWV22L-12L	22	12	160
REDWV22L-10L	22	10	160
REDWV22L-8L	22	8	160
REDWV28L-22L	28	22	160
REDWV28L-18L	28	18	160
REDWV28L-15L	28	15	160
REDWV28L-12L	28	12	160
REDWV28L-10L	28	10	160
REDWV35-28L	35	28	160
REDWV35L-22L	35	22	160
REDWV35L-18L	35	18	160
REDWV35L-15L	35	15	160
REDWV42L-35L	42	35	160
REDWV42L-22L	42	22	160
REDWV42L-18L	42	18	160
REDWV42L-15L	42	15	160

Heavy-duty

0350	Thread	OD mm	Max Pressure Bar
WSV6S	M14 x 1.5	6	800
WSV8S	M16 x 1.5	8	800
WSV10S	M18 x 1.5	10	800
WSV12S	M20 x 1.5	12	630
WSV14S	M22 x 1.5	14	630
WSV16S	M24 x 1.5	16	630
WSV20S	M30 x 2	20	400
WSV25S	M36 x 2	25	400
WSV30S	M42 x 2	30	400
WSV38S	M52 x 2	38	400
Tech Sheet 1674			

Heavy-duty

0350	OD mm	OD mm	Max Pressure Bar
REDWV8S-6S	8	6	630
REDWV10S-8S	10	8	630
REDWV10S-6S	10	6	630
REDWV12S-10S	12	10	630
REDWV12S-8S	12	8	630
REDWV12S-6S	12	6	630
REDWV14S-12S	14	12	630
REDWV14S-10S	14	10	630
REDWV14S-8S	14	8	630
REDWV14S-6S	14	6	630
REDWV16S-14S	16	14	400
REDWV16S-12S	16	12	400
REDWV16S-10S	16	10	400
REDWV16S-8S	16	8	400
REDWV16S-6S	16	6	400
REDWV20S-16S	20	16	400
REDWV20S-14S	20	14	400
REDWV20S-12S	20	12	400
REDWV20S-10S	20	10	400
REDWV20S-8S	20	8	400
REDWV20S-6S	20	6	400
REDWV25S-20S	25	20	400
REDWV25S-16S	25	16	400
REDWV25S-14S	25	14	400
REDWV25S-12S	25	12	400
REDWV25S-10S	25	10	400
REDWV25S-8S	25	8	400
REDWV30S-25S	30	25	400
REDWV30S-20S	30	20	400
REDWV30S-16S	30	16	400
REDWV30S-14S	30	14	400
REDWV30S-12S	30	12	400
REDWV38S-30S	38	30	315
REDWV38S-25S	38	25	315
REDWV38S-20S	38	20	315
REDWV38S-16S	38	16	315
REDWV38S-10S	38	10	315



1 TUBE TO TUBE COUPLINGS



Rigid Fluid Conveyance



Equal Tees



Extra Light-duty

0350	OD mm	Max Pressure Bar
TV4LL	4	100
TV6LL	6	100
TV8LL	8	100
Tech Sheet 1676		

Light-duty

0350	OD mm	Max Pressure Bar
TV6L	6	500
TV8L	8	500
TV10L	10	500
TV12L	12	400
TV15L	15	400
TV18L	18	400
TV22L	22	250
TV28L	28	250
TV35L	35	250
TV42L	42	250
Tech Sheet 1676		

Heavy-duty

0350	OD mm	Max Pressure Bar
TV6S	6	800
TV8S	8	800
TV10S	10	800
TV12S	12	630
TV14S	14	630
TV16S	16	630
TV20S	20	420
TV25S	25	420
TV30S	30	420
TV38S	38	400
Tech Sheet 1676		

Reducing Tees



Light-duty

0350	OD A mm	OD B mm	OD C mm	Max Pressure Bar
TV10/10/6L	10	6	10	500
TV10/10/8L	10	8	10	500
TV12/12/8L	12	8	12	400
TV12/12/10L	12	10	12	400
TV12/12/15L	12	15	12	400
TV15/12/12L	15	12	12	400
TV18/18/10L	18	10	18	400
TV18/18/12L	18	12	18	400
TV22/22/10L	22	10	22	250
TV22/22/15L	22	15	22	250
Tech Sheet 1677				

Adjustable Reducing Tees



Light-duty

0350	OD A mm	OD B mm	OD C mm	Max Pressure Bar
TV8/8/6L	8	8	6	315
TV12/12/6L	12	12	6	315
TV15/15/12L	15	15	12	315
TV15/15/10L	15	15	10	315
TV15/15/8L	15	15	8	315
TV15/15/6L	15	15	6	315
TV18/18/15L	18	18	15	315
TV18/18/8L	18	18	8	315
TV18/18/6L	18	18	6	315
TV22/22/18L	22	22	18	160
TV22/22/12L	22	22	12	160
TV22/22/8L	22	22	8	160
TV28/28/22L	28	28	22	160
TV28/28/18L	28	28	18	160
TV28/28/15L	28	28	15	160
TV28/28/12L	28	28	12	160
TV28/28/10L	28	28	10	160
TV35/35/28L	35	35	28	160
TV35/35/22L	35	35	22	160
TV35/35/18L	35	35	18	160
TV35/35/15L	35	35	15	160
TV42/42/35L	42	42	35	160
TV42/42/22L	42	42	22	160
TV42/42/18L	42	42	18	160
TV42/42/15L	42	42	15	160

Heavy-duty

0350	OD A mm	OD B mm	OD C mm	Max Pressure Bar
TV8/8/6S	8	6	8	630
TV10/10/8S	10	8	10	630
TV10/10/6S	10	6	10	630
TV12/12/10S	12	10	12	630
TV12/12/8S	12	8	12	630
TV12/12/6S	12	6	12	630
TV14/14/12S	14	12	14	630
TV14/14/10S	14	10	14	630
TV14/14/8S	14	8	14	630
TV14/14/6S	14	6	14	630
TV16/16/14S	16	14	16	400
TV16/16/12S	16	12	16	400
TV16/16/10S	16	10	16	400
TV16/16/8S	16	8	16	400
TV16/16/6S	16	6	16	400
TV20/20/16S	20	16	20	400
TV20/20/14S	20	14	20	400
TV20/20/12S	20	12	20	400
TV20/20/10S	20	10	20	400
TV20/20/8S	20	8	20	400
TV20/20/6S	20	6	20	400
TV25/25/20S	25	20	25	400
TV25/25/16S	25	16	25	400
TV25/25/14S	25	14	25	400
TV25/25/12S	25	12	25	400
TV25/25/10S	25	10	25	400
TV25/25/8S	25	8	25	400
TV30/30/25S	30	25	30	400
TV30/30/20S	30	20	30	400
TV30/30/16S	30	16	30	400
TV30/30/14S	30	14	30	400
TV30/30/12S	30	12	30	400
TV38/38/30S	38	30	38	315
TV38/38/25S	38	25	38	315
TV38/38/20S	38	20	38	315
TV38/38/16S	38	16	38	315
TV38/38/10S	38	10	38	315

You might also need
316 Stainless Steel Tube
 See page 70



TUBE TO TUBE COUPLINGS



Rigid Fluid
Conveyance



Bulkhead Couplings



Straight, Light-duty

0350	Thread	OD mm	Max Pressure Bar
GSV6L	M12 x 1.5	6	500
GSV8L	M14 x 1.5	8	500
GSV10L	M16 x 1.5	10	500
GSV12L	M18 x 1.5	12	400
GSV15L	M22 x 1.5	15	400
GSV18L	M26 x 1.5	18	400
GSV22L	M30 x 2	22	250
GSV28L	M36 x 2	28	250
GSV35L	M45 x 2	35	250
GSV42L	M52 x 2	42	250

Tech Sheet 1675

Straight, Heavy-duty

0350	Thread	OD mm	Max Pressure Bar
GSV6S	M14 x 1.5	6	800
GSV8S	M16 x 1.5	8	800
GSV10S	M18 x 1.5	10	800
GSV12S	M20 x 1.5	12	630
GSV14S	M22 x 1.5	14	630
GSV16S	M24 x 1.5	16	630
GSV20S	M30 x 2	20	630
GSV25S	M36 x 2	25	630
GSV30S	M42 x 2	30	630
GSV38S	M52 x 2	38	400

Tech Sheet 1675

Straight Couplings



Equal Straight, Extra Light-duty

0350	OD mm	Max Pressure Bar
GV4LL	4	100
GV6LL	6	100
GV8LL	8	100

Tech Sheet 1678

Equal Straight, Light-duty

0350	OD mm	Max Pressure Bar
GV-6L	6	500
GV-8L	8	500
GV-10L	10	500
GV-12L	12	400
GV-15L	15	400
GV-18L	18	400
GV-22L	22	250
GV-28L	28	250
GV-35L	35	250
GV-42L	42	250

Tech Sheet 1678

Equal Straight, Heavy-duty

0350	OD mm	Max Pressure Bar
GV6S	6	800
GV8S	8	800
GV10S	10	800
GV12S	12	630
GV14S	14	630
GV16S	16	630
GV20S	20	420
GV25S	25	420
GV30S	30	420
GV38S	38	420

Tech Sheet 1678

Reducing Couplings



Unequal Straight, Extra Light-duty

0350	OD mm	OD mm	Max Pressure Bar
GV6/4LL	6	4	100

Tech Sheet 1679

Unequal Straight, Light-duty

0350	OD mm	OD mm	Max Pressure Bar
GV8/6L	8	6	500
GV10/6L	10	6	500
GV10/8L	10	8	500
GV12/6L	12	6	400
GV12/8L	12	8	400
GV12/10L	12	10	400
GV15/10L	15	10	400
GV15/12L	15	12	400
GV18/10L	18	10	400
GV18/12L	18	12	400
GV18/15L	18	15	400
GV22/15L	22	15	250
GV22/18L	22	18	250

Tech Sheet 1679

Unequal Straight, Heavy-duty

0350	OD mm	OD mm	Max Pressure Bar
GV16/12S	16	12	620
GV20/16S	20	16	420
GV25/16S	25	16	420
GV25/20S	25	20	420

Tech Sheet 1679

Tube to Tube Equal Crosses



Extra Light-duty

0350	OD mm	Max Pressure Bar
KV4LL	4	100
KV6LL	6	100
KV8LL	8	100

Tech Sheet 1680

Light-duty

0350	OD mm	Max Pressure Bar
KV6L	6	500
KV8L	8	500
KV10L	10	500
KV12L	12	400
KV15L	15	400
KV18L	18	400
KV22L	22	250
KV28L	28	250
KV35L	35	250
KV42L	42	250

Tech Sheet 1680

Heavy-duty

0350	OD mm	Max Pressure Bar
KV6S	6	800
KV8S	8	800
KV10S	10	800
KV12S	12	630
KV14S	14	630
KV16S	16	630
KV20S	20	420
KV25S	25	420
KV30S	30	420
KV38S	38	400

Tech Sheet 1680

BANJO COUPLINGS

Banjo Couplings

Low restrictive



Banjo Seal Edge Metric, Light-duty

0350	Thread	OD mm	Max Pressure Bar
RSWV6LM	M10 x 1	6	500
RSWV8LM	M12 x 1.5	8	500
RSWV10LM	M14 x 1.5	10	500
RSWV12LM	M16 x 1.5	12	400
RSWV12LM18X1.5	M18 x 1.5	12	315
RSWV15LM	M18 x 1.5	15	400
RSWV18LM	M22 x 1.5	18	400
RSWV22LM	M26 x 1.5	22	250
RSWV28LM	M33 x 2	28	250
RSWV35LM	M42 x 2	35	250
RSWV42LM	M48 x 2	42	250

Tech Sheets 1681 & 1682

Banjo Seal Edge Metric, Heavy-duty

0350	Thread	OD mm	Max Pressure Bar
RSWV6SM	M12 x 1.5	6	500
RSWV8SM	M14 x 1.5	8	500
RSWV10SM	M16 x 1.5	10	500
RSWV12SM	M18 x 1.5	12	400
RSWV14SM	M20 x 1.5	14	400
RSWV16SM	M22 x 1.5	16	400
RSWV20SM	M27 x 2	20	315
RSWV25SM	M33 x 2	25	250
RSWV30SM	M42 x 2	30	250
RSWV38SM	M48 x 2	38	250

Tech Sheets 1681 & 1682

Banjo Seal Edge BSPP, Light-duty

0350	Thread	OD mm	Max Pressure Bar
RSWV6LR	1/8"	6	500
RSWV8LR	1/4"	8	500
RSWV10LR	1/4"	10	500
RSWV12LR	3/8"	12	400
RSWV15LR	1/2"	15	400
RSWV18LR	1/2"	18	400
RSWV22LR	3/4"	22	250
RSWV28LR	1"	28	250
RSWV35LR	1.1/4"	35	250
RSWV42LR	1.1/2"	42	250

Tech Sheets 1681 & 1682

Banjo Seal Edge BSPP, Heavy-duty

0350	Thread	OD mm	Max Pressure Bar
RSWV6SR	1/4"	6	500
RSWV8SR	1/4"	8	500
RSWV10SR	3/8"	10	500
RSWV12SR	3/8"	12	400
RSWV14SR	1/2"	14	400
RSWV16SR	1/2"	16	400
RSWV20SR	3/4"	20	315
RSWV25SR	1"	25	250
RSWV30SR	1.1/4"	30	250
RSWV38SR	1.1/2"	38	250

Tech Sheets 1681 & 1682

Double Banjo Couplings

Double Banjo Metric, Light-duty with Elastomer Seal



0350	Thread	OD mm	Max Pressure Bar
P-RSTV6LM-WD	M10 x 1	6	500
P-RSTV8LM-WD	M12 x 1.5	8	500
P-RSTV10LM-WD	M14 x 1.5	10	500
P-RSTV12LM-WD	M16 x 1.5	12	400
P-RSTV15LM-WD	M18 x 1.5	15	400
P-RSTV18LM-WD	M22 x 1.5	18	400
P-RSTV22LM-WD	M26 x 1.5	22	250
P-RSTV28LM-WD	M33 x 2	28	250
P-RSTV35LM-WD	M42 x 2	35	250

Tech Sheets 1683 & 1684

Double Banjo Metric, Heavy-duty with Elastomer Seal

0350	Thread	OD mm	Max Pressure Bar
P-RSTV6SM-WD	M12 x 1.5	6	500
P-RSTV8SM-WD	M14 x 1.5	8	500
P-RSTV16SM-WD	M22 x 1.5	16	400
P-RSTV20SM-WD	M27 x 2	20	315
P-RSTV25SM-WD	M33 x 2	25	250
P-RSTV30SM-WD	M42 x 2	30	250
P-RSTV38SM-WD	M48 x 2	38	250

Tech Sheets 1683 & 1684

Double Banjo BSPP, Light-duty with Elastomer Seal

0350	Thread	OD mm	Max Pressure Bar
P-RSTV6LR-WD	1/8"	6	500
P-RSTV8LR-WD	1/4"	8	500
P-RSTV10LR-WD	1/4"	10	500
P-RSTV12LR-WD	3/8"	12	400
P-RSTV15LR-WD	1/2"	15	400
P-RSTV18LR-WD	1/2"	18	400
P-RSTV35LR-WD	1.1/4"	35	250
P-RSTV42LR-WD	1.1/2"	42	250

Tech Sheets 1683 & 1684

Double Banjo BSPP, Heavy-duty with Elastomer Seal

0350	Thread	OD mm	Max Pressure Bar
P-RSTV6SR-WD	1/4"	6	500
P-RSTV8SR-WD	1/4"	8	500
P-RSTV10SR-WD	3/8"	10	500
P-RSTV12SR-WD	3/8"	12	400
P-RSTV16SR-WD	1/2"	16	400
P-RSTV20SR-WD	3/4"	20	315
P-RSTV25SR-WD	1"	25	250
P-RSTV30SR-WD	1.1/4"	30	250
P-RSTV38SR-WD	1.1/2"	38	250

Tech Sheets 1683 & 1684

Swivel Elbow Banjo Coupling, Tube to Tube



Light-duty

0350	OD mm	Max Pressure Bar
DGWV6L	6	250
DGWV8L	8	250
DGWV10L	10	250
DGWV12L	12	250
DGWV18L	18	160
DGWV22L	22	160
DGWV28L	28	100
DGWV35L	35	100
DGWV42L	42	100

Tech Sheet 1685

Heavy-duty

0350	OD mm	Max Pressure Bar
DGWV6S	6	400
DGWV8S	8	400
DGWV10S	10	400
DGWV14S	14	400
DGWV16S	16	400
DGWV20S	20	250
DGWV25S	25	250
DGWV30S	30	250
DGWV38S	38	250

Tech Sheet 1685

Swivel Banjo Couplings



BSPP, Light-duty

0350	Thread	OD mm	Max Pressure Bar
DGWEV6LRWD	1/8"	6	250
DGWEV6LR1/4WD	1/4"	6	250
DGWEV8LRWD	1/4"	8	250
DGWEV10LRWD	1/4"	10	250
DGWEV10LR3/8WD	3/8"	10	250
DGWEV12LRWD	3/8"	12	250
DGWEV12LR1/2WD	1/2"	12	250
DGWEV15LRWD	1/2"	15	250
DGWEV18LRWD	1/2"	18	160
DGWEV22LRWD	3/4"	22	160
DGWEV28LRWD	1"	28	100
DGWEV35LRWD	1.1/4"	35	100
DGWEV42LRWD	1.1/2"	42	100

Tech Sheet 1686

BSPP, Heavy-duty

0350	Thread	OD mm	Max Pressure Bar
DGWEV6SRWD	1/4"	6	400
DGWEV8SRWD	1/4"	8	400
DGWEV10SRWD	3/8"	10	400
DGWEV12SRWD	3/8"	12	400
DGWEV16SRWD	1/2"	16	400
DGWEV20SRWD	3/4"	20	250
DGWEV25SRWD	1"	25	250
DGWEV30SRWD	1.1/4"	30	250
DGWEV38SRWD	1.1/2"	38	250

Tech Sheet 1686

Swivel banjos are connecting components between pipe work and equipment to allow swivel movement and slow speed rotation. These connections have a low starting torque and are leak-free and require no maintenance.



Welding Couplings



Bosses, Light-duty

0350	OD mm	Max Pressure Bar
ASV6L	6	500
ASV8L	8	500
ASV10L	10	500
ASV12L	12	400
ASV15L	15	400
ASV18L	18	400
ASV22L	22	250
ASV28L	28	250
ASV35L	35	250
ASV42L	42	250

Tech Sheet 1687

Bosses, Heavy-duty

0350	OD mm	Max Pressure Bar
ASV6S	6	800
ASV8S	8	800
ASV12S	12	630
ASV14S	14	630
ASV16S	16	630
ASV20S	20	420
ASV25S	25	420
ASV30S	30	420
ASV38S	38	420

Tech Sheet 1687



Bulkhead, Light-duty

0350	OD mm	Max Pressure Bar
ESV6L	6	500
ESV8L	8	500
ESV10L	10	500
ESV12L	12	400
ESV15L	15	400
ESV18L	18	400
ESV22L	22	250
ESV28L	28	250
ESV35L	35	250
ESV42L	42	250

Tech Sheet 1688

Bulkhead, Heavy-duty

0350	OD mm	Max Pressure Bar
ESV8S	8	800
ESV10S	10	800
ESV12S	12	630
ESV14S	14	630
ESV16S	16	630
ESV20S	20	420
ESV25S	25	420
ESV30S	30	420
ESV38S	38	420

Tech Sheet 1688

Welding Nipples

Without tube centring



With O-Ring Seal

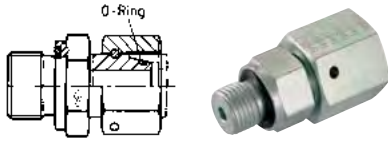
0350	To Suit Tube OD mm	Max Pressure Bar
SN8X2	8 x 2	400
SN10X1.5	10 x 1.5	400
SN10X2	10 x 2	400
SN12X2.5	12 x 2.5	400
SN16X2	16 x 2	400
SN16X3	16 x 3	400
SN20X3	20 x 3	250
SN25X3	25 x 3	250
SN25X4	25 x 4	315
SN30X4	30 x 4	250
SN30X5	30 x 5	315
SN38X4	38 x 4	160
SN38X5	38 x 5	250
SN38X6	38 x 6	315

Tech Sheet 1689



1 ADJUSTABLE STUD COUPLINGS

Standpipes, Metric



Captive Seal, Light-duty

0350	Thread	OD mm	Max Pressure Bar
EGESD6LMWD	M10 x 1	6	500
EGESD8LMWD	M12 x 1.5	8	500
EGESD10LMWD	M14 x 1.5	10	500
EGESD12LMWD	M16 x 1.5	12	400
EGESD15LMWD	M18 x 1.5	15	400
EGESD18LMWD	M22 x 1.5	18	400
EGESD22LMWD	M26 x 1.5	22	250
EGESD28LMWD	M33 x 2	28	250
EGESD35LMWD	M42 x 2	35	250
EGESD42LMWD	M48 x 2	42	250

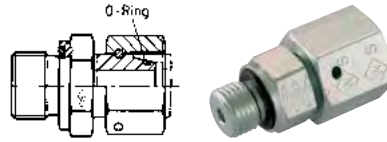
Tech Sheet 1690

Captive Seal, Heavy-duty

0350	Thread	OD mm	Max Pressure Bar
EGESD6SMWD	M12 x 1.5	6	800
EGESD8SMWD	M14 x 1.5	8	800
EGESD10SMWD	M16 x 1.5	10	800
EGESD12SMWD	M18 x 1.5	12	630
EGESD14SMWD	M20 x 1.5	14	630
EGESD16SMWD	M22 x 1.5	16	630
EGESD20SMWD	M27 x 2	20	420
EGESD25SMWD	M33 x 2	25	420
EGESD30SMWD	M42 x 2	30	400
EGESD38SMWD	M48 x 2	38	400

Tech Sheet 1690

Standpipes, BSPP



Captive Seal, Light-duty

0350	Thread	OD mm	Max Pressure Bar
EGESD6LRWD	1/8"	6	500
EGESD8LRWD	1/4"	8	500
EGESD10LRWD	1/4"	10	500
EGESD12LRWD	3/8"	12	400
EGESD15LRWD	1/2"	15	400
EGESD18LRWD	1/2"	18	400
EGESD22LRWD	3/4"	22	250
EGESD28LRWD	1"	28	250
EGESD35LRWD	1.1/4"	35	250
EGESD42LRWD	1.1/2"	42	250

Tech Sheet 1691

Captive Seal, Heavy-duty

0350	Thread	OD mm	Max Pressure Bar
EGESD6SRWD	1/4"	6	800
EGESD8SRWD	1/4"	8	800
EGESD12SRWD	3/8"	12	630
EGESD10SRWD	3/8"	10	800
EGESD12SR1/ZWD	1/2"	12	630
EGESD14SRWD	1/2"	14	630
EGESD16SRWD	1/2"	16	630
EGESD20SRWD	3/4"	20	420
EGESD25SRWD	1"	25	420
EGESD30SRWD	1.1/4"	30	400
EGESD38SRWD	1.1/2"	38	400

Tech Sheet 1691

Standpipes, NPT



Light-duty

0350	Thread	OD mm	Max Pressure Bar
EGESD6L1/8NPT	1/8"	6	250
EGESD8L1/4NPT	1/4"	8	250
EGESD10L1/4NPT	1/4"	10	250
EGESD12L3/8NPT	3/8"	12	250
EGESD15L1/2NPT	1/2"	15	250
EGESD18L1/2NPT	1/2"	18	160
EGESD22L3/4NPT	3/4"	22	160
EGESD28L1NPT	1"	28	100

Tech Sheet 1692

Heavy-duty

0350	Thread	OD mm	Max Pressure Bar
EGESD6S1/4NPT	1/4"	6	630
EGESD8S1/4NPT	1/4"	8	630
EGESD10S3/8NPT	3/8"	10	630
EGESD12S3/8NPT	3/8"	12	630
EGESD16S1/2NPT	1/2"	16	400
EGESD20S3/4NPT	3/4"	20	400
EGESD25S1NPT	1"	25	400
EGESD30S11/4NPT	1.1/4"	30	250
EGESD38S11/2NPT	1.1/2"	38	250

Tech Sheet 1692

Straight Couplings

Nuts on either side are retractable to back of O-Ring groove, but only one at a time.



Equal Straight, Light-duty

0350	OD mm	Max Pressure Bar
SNV6L	6	500
SNV8L	8	500
SNV10L	10	500
SNV12L	12	400
SNV15L	15	400
SNV18L	18	400
SNV22L	22	250
SNV28L	28	250
SNV35L	35	250
SNV42L	42	250

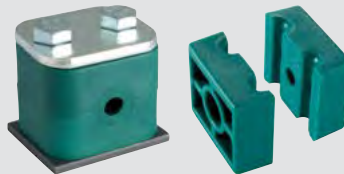
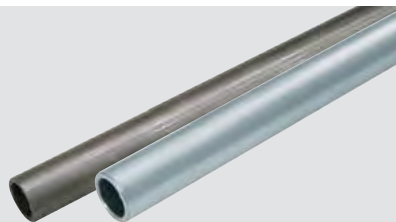
Tech Sheet 1693

Equal Straight, Heavy-duty

0350	OD mm	Max Pressure Bar
SNV6S	6	800
SNV8S	8	800
SNV10S	10	800
SNV12S	12	630
SNV14S	14	630
SNV16S	16	630
SNV20S	20	420
SNV25S	25	420
SNV30S	30	400
SNV38S	38	400

Tech Sheet 1693

You might also need
Hydraulic Tubing
see pages 67-69



For **Hydraulic Tube Clamps**
see pages 72-87

SWIVEL COUPLINGS



Straight Couplings

Nuts on either side are retractable to back of O-Ring groove

Unequal Straight, Light-duty

0350	OD mm	OD mm	Max Pressure Bar
SNV8/6L	8	6	500
SNV10/6L	10	6	500
SNV10/8L	10	8	500
SNV12/6L	12	6	400
SNV12/8L	12	8	400
SNV12/10L	12	10	400
SNV15/8L	15	8	400
SNV15/10L	15	10	400
SNV15/12L	15	12	400
SNV18/10L	18	10	400
SNV18/12L	18	12	400
SNV18/15L	18	15	400
SNV22/12L	22	12	250
SNV22/15L	22	15	250
SNV28/15L	28	15	250
SNV28/18L	28	18	250
SNV28/22L	28	22	250
SNV35/18L	35	18	250
SNV35/22L	35	22	250
SNV35/28L	35	28	250
SNV42/22L	42	22	250
SNV42/28L	42	28	250
SNV42/35L	42	35	250

Tech Sheet 1694



Unequal Straight, Heavy-duty

0350	OD mm	OD mm	Max Pressure Bar
SNV8/6S	8	6	800
SNV10/6S	10	6	800
SNV10/8S	10	8	800
SNV12/6S	12	6	630
SNV12/8S	12	8	630
SNV12/10S	12	10	630
SNV16/10S	16	10	630
SNV16/12S	16	12	630
SNV20/12S	20	12	420
SNV20/16S	20	16	420
SNV25/16S	25	16	420
SNV25/20S	25	20	420
SNV30/16S	30	16	400
SNV30/20S	30	20	400
SNV30/25S	30	25	400
SNV38/20S	38	20	400
SNV38/25S	38	25	400
SNV38/30S	38	30	400

Tech Sheet 1694



Unequal Straight, Light to Heavy-duty

0350	OD mm	OD mm	Max Pressure Bar
SNV6L/6S	6	6	400
SNV8L/8S	8	8	400
SNV10L/10S	10	10	400
SNV12L/12S	12	12	400
SNV18L/16S	18	16	400
SNV22L/20S	22	20	250
SNV28L/25S	28	25	250
SNV35L/30S	35	30	250
SNV42L/38S	42	38	250

Tech Sheet 1695

Unequal Straight, Heavy to Light-duty

0350	OD mm	OD mm	Max Pressure Bar
SNV16S/15L	16	15	400
SNV20S/18L	20	18	400
SNV25S/22L	25	22	250
SNV30S/28L	30	28	250
SNV38S/35L	38	35	250

Tech Sheet 1695

Adjustable Swivel Elbows



Light-duty

0350	Thread	OD mm	Max Pressure Bar
EWVD6L	M12 x 1.5	6	500
EWVD8L	M14 x 1.5	8	500
EWVD10L	M16 x 1.5	10	500
EWVD12L	M18 x 1.5	12	400
EWVD15L	M22 x 1.5	15	400
EWVD18L	M26 x 1.5	18	400
EWVD22L	M30 x 2	22	250
EWVD28L	M36 x 2	28	250
EWVD35L	M45 x 2	35	250
EWVD42L	M52 x 2	42	250

Tech Sheet 1696

Adjustable Run Tees



Light-duty

0350	Thread	OD mm	Max Pressure Bar
ELVD6L	M12 x 1.5	6	500
ELVD8L	M14 x 1.5	8	500
ELVD10L	M16 x 1.5	10	500
ELVD12L	M18 x 1.5	12	400
ELVD15L	M22 x 1.5	15	400
ELVD18L	M26 x 1.5	18	400
ELVD22L	M30 x 2	22	250
ELVD28L	M36 x 2	28	250
ELVD35L	M45 x 2	35	250
ELVD42L	M52 x 2	42	250

Tech Sheet 1697

Adjustable Branch Tees



Light-duty

0350	Thread	OD mm	Max Pressure Bar
ETVD6L	M12 x 1.5	6	500
ETVD8L	M14 x 1.5	8	500
ETVD10L	M16 x 1.5	10	500
ETVD12L	M18 x 1.5	12	400
ETVD15L	M22 x 1.5	15	400
ETVD18L	M26 x 1.5	18	400
ETVD22L	M30 x 2	22	250
ETVD28L	M36 x 2	28	250
ETVD35L	M45 x 2	35	250
ETVD42L	M52 x 2	42	250

Tech Sheet 1698

Heavy-duty

0350	Thread	OD mm	Max Pressure Bar
EWVD6S	M14 x 1.5	6	800
EWVD8S	M16 x 1.5	8	800
EWVD10S	M18 x 1.5	10	800
EWVD12S	M20 x 1.5	12	630
EWVD14S	M22 x 1.5	14	630
EWVD16S	M24 x 1.5	16	630
EWVD20S	M30 x 2	20	420
EWVD25S	M36 x 2	25	420
EWVD30S	M42 x 2	30	400
EWVD38S	M52 x 2	38	400

Tech Sheet 1696

Heavy-duty

0350	Thread	OD mm	Max Pressure Bar
ELVD6S	M14 x 1.5	6	800
ELVD8S	M16 x 1.5	8	800
ELVD10S	M18 x 1.5	10	800
ELVD12S	M20 x 1.5	12	630
ELVD14S	M22 x 1.5	14	630
ELVD16S	M24 x 1.5	16	630
ELVD20S	M30 x 2	20	420
ELVD25S	M36 x 2	25	420
ELVD30S	M42 x 2	30	400
ELVD38S	M52 x 2	38	400

Tech Sheet 1697

Heavy-duty

0350	Thread	OD mm	Max Pressure Bar
ETVD6S	M14 x 1.5	6	800
ETVD8S	M16 x 1.5	8	800
ETVD10S	M18 x 1.5	10	800
ETVD12S	M20 x 1.5	12	630
ETVD14S	M22 x 1.5	14	630
ETVD16S	M24 x 1.5	16	630
ETVD20S	M30 x 2	20	420
ETVD25S	M36 x 2	25	420
ETVD30S	M42 x 2	30	400
ETVD38S	M52 x 2	38	400

Tech Sheet 1698



FEMALE STUD & GAUGE COUPLINGS

Female Stud Couplings



Female Stud Metric, Light-duty

0350	Thread	OD mm	Max Pressure Bar
GAV6LM	M10 x 1	6	250
GAV8LM	M12 x 1.5	8	250
GAV10LM	M14 x 1.5	10	250
GAV12LM	M16 x 1.5	12	250
GAV15LM	M18 x 1.5	15	250
GAV18LM	M22 x 1.5	18	160
GAV22LM	M26 x 1.5	22	160

Tech Sheet 1699

Female Stud Metric, Heavy-duty

0350	Thread	OD mm	Max Pressure Bar
GAV6SM	M12 x 1.5	6	630
GAV8SM	M14 x 1.5	8	630
GAV10SM	M16 x 1.5	10	630
GAV12SM	M18 x 1.5	12	630
GAV14SM	M20 x 1.5	14	630
GAV16SM	M22 x 1.5	16	400
GAV20SM	M27 x 2	20	400

Tech Sheet 1699



Female Stud BSPP, Light-duty

0350	Thread	OD mm	Max Pressure Bar
GAV6LR	1/8"	6	250
GAV8LR	1/4"	8	250
GAV10LR	1/4"	10	250
GAV12LR1/4	1/4"	12	250
GAV12LR	3/8"	12	250
GAV15LR	1/2"	15	250
GAV18LR	1/2"	18	160
GAV22LR	3/4"	22	160
GAV28LR	1"	28	100
GAV35LR	1.1/4"	35	100
GAV42LR	1.1/2"	42	100

Tech Sheet 1700

Female Stud BSPP, Heavy-duty

0350	Thread	OD mm	Max Pressure Bar
GAV6SR	1/4"	6	630
GAV8SR	1/4"	8	630
GAV10SR	3/8"	10	630
GAV12SR	3/8"	12	630
GAV14SR	1/2"	14	630
GAV16SR	1/2"	16	400
GAV20SR	3/4"	20	400
GAV25SR	1"	25	400
GAV30SR	1.1/4"	30	250
GAV38SR	1.1/2"	38	250

Tech Sheet 1700

Female Gauge Couplings



Female Gauge BSPP, Tube, Light-duty

0350	Thread	OD mm	Max Pressure Bar
MAV6LR	1/4"	6	500
MAV8LR	1/4"	8	500
MAV10LR	1/4"	10	500
MAV12LR	1/4"	12	400

Tech Sheet 1701

Female Gauge BSPP, Tube, Heavy-duty

0350	Thread	OD mm	Max Pressure Bar
MAV6SR	1/2"	6	800
MAV8SR	1/2"	8	800
MAV10SR	1/2"	10	800
MAV12SR	1/2"	12	630

Tech Sheet 1701



Female Gauge BSPP, Swivel, Light-duty

0350	Thread	OD mm	Max Pressure Bar
EMASD6LR	1/4"	6	500
EMASD8LR	1/4"	8	500
EMASD10LR	1/4"	10	500
EMASD12LR	1/4"	12	400

Tech Sheet 1702

Female Gauge BSPP, Swivel, Heavy-duty

0350	Thread	OD mm	Max Pressure Bar
EMASD6SR	1/2"	6	630
EMASD8SR	1/2"	8	630
EMASD10SR	1/2"	10	630
EMASD12SR	1/2"	12	630

Tech Sheet 1702

Sealing Ring for Gauge Coupling



Steel

0350	To Suit
DKRR1/4MANOM.A3L	1/4"
DKRR1/2MANOM.A3L	1/2"




Customers who bought from this page also purchased
Glycerine Gauges
 see pages 271-275



Reducing Inserts



Light-duty

0350	OD mm	OD mm	Max Pressure Bar
REDVDN8/6L	8	6	500
REDVDN10/8L	10	8	500
REDVDN10/6L	10	6	500
REDVDN12/10L	12	10	400
REDVDN12/8L	12	8	400
REDVDN12/6L	12	6	400
REDVDN15/12L	15	12	400
REDVDN15/10L	15	10	400
REDVDN15/8L	15	8	400
REDVDN15/6L	15	6	400
REDVDN18/15L	18	15	400
REDVDN18/12L	18	12	400
REDVDN18/10L	18	10	400
REDVDN18/8L	18	8	400
REDVDN18/6L	18	6	400
REDVDN22/18L	22	18	250
REDVDN22/15L	22	15	250
REDVDN22/12L	22	12	250
REDVDN22/10L	22	10	250
REDVDN22/8L	22	8	250
REDVDN28/22L	28	22	250
REDVDN28/18L	28	18	250
REDVDN28/15L	28	15	250
REDVDN28/12L	28	12	250
REDVDN28/10L	28	10	250
REDVDN35/28L	35	28	250
REDVDN35/22L	35	22	250
REDVDN35/18L	35	18	250
REDVDN35/15L	35	15	250
REDVDN42/35L	42	35	250
REDVDN42/22L	42	22	250
REDVDN42/18L	42	18	250
REDVDN42/15L	42	15	250

Tech Sheet 1703



Heavy-duty

0350	OD mm	OD mm	Max Pressure Bar
REDVDN8/6S	8	6	800
REDVDN10/8S	10	8	800
REDVDN10/6S	10	6	800
REDVDN12/10S	12	10	630
REDVDN12/8S	12	8	630
REDVDN12/6S	12	6	630
REDVDN14/12S	14	12	630
REDVDN14/10S	14	10	630
REDVDN14/8S	14	8	630
REDVDN14/6S	14	6	630
REDVDN16/14S	16	14	630
REDVDN16/12S	16	12	630
REDVDN16/10S	16	10	630
REDVDN16/8S	16	8	630
REDVDN16/6S	16	6	630
REDVDN20/16S	20	16	420
REDVDN20/14S	20	14	420
REDVDN20/12S	20	12	420
REDVDN20/10S	20	10	420
REDVDN20/8S	20	8	420
REDVDN20/6S	20	6	420
REDVDN25/20S	25	20	420
REDVDN25/16S	25	16	420
REDVDN25/14S	25	14	420
REDVDN25/12S	25	12	420
REDVDN25/10S	25	10	420
REDVDN25/8S	25	8	420
REDVDN30/25S	30	25	400
REDVDN30/20S	30	20	400
REDVDN30/16S	30	16	400
REDVDN30/14S	30	14	400
REDVDN30/12S	30	12	400
REDVDN38/30S	38	30	400
REDVDN38/25S	38	25	400
REDVDN38/20S	38	20	400
REDVDN38/16S	38	16	400
REDVDN38/10S	38	10	400

Tech Sheet 1704

Rigid Fluid
Conveyance



For **Bonded Seals**
see pages **158-162**



1 DIN 2353 BODY ONLY FITTINGS



Male Stud Coupling

Rigid Fluid
Conveyance



Light-duty, Form B, BSPP

0350	Thread	OD mm
GES 6 LR	1/8"	6
GES 6 LR 1/4	1/4"	6
GES 8 LR 1/8	1/8"	8
GES 8 LR	1/4"	8
GES 8 LR 3/8	3/8"	8
GES 10 LR	1/4"	10
GES 10 LR 3/8	3/8"	10
GES 10 LR 1/2	1/2"	10
GES 12 LR 1/4	1/4"	12
GES 12 LR	3/8"	12
GES 12 LR 1/2	1/2"	12
GES 15 LR	1/2"	15
GES 15 LR 3/4	3/4"	15
GES 18 LR	1/2"	18
GES 22 LR 1/2	1/2"	22
GES 22 LR	3/4"	22
GES 28 LR 3/4	3/4"	28
GES 28 LR	1"	28
GES 35 LR	1.1/4"	35
GES 42 LR	1.1/2"	42

Heavy-duty, Form B, BSPP

0350	Thread	OD mm
GES 6 SR	1/4"	6
GES 8 SR	1/4"	8
GES 8 SR 3/8	3/8"	8
GES 10 SR 1/4	1/4"	10
GES 10 SR	3/8"	10
GES 10 SR 1/2	1/2"	12
GES 12 SR 1/4	1/4"	12
GES 12 SR	3/8"	12
GES 12 SR 1/2	1/2"	12
GES 14 SR	1/2"	14
GES 16 SR 3/8	3/8"	16
GES 16 SR	1/2"	16
GES 16 SR 3/4	3/4"	16
GES 20 SR 1/2	1/2"	20
GES 20 SR	3/4"	20
GES 25 SR 3/4	3/4"	25
GES 25 SR	1"	25
GES 30 SR	1.1/4"	30
GES 38 SR 1.1/4	1.1/4"	38
GES 38 SR	1.1/2"	38



Light-duty, WD Seal, BSPP

0350	Thread	OD mm
GES 6 LR-WD	1/8"	6
GES 6 LR 1/4-WD	1/4"	6
GES 8 LR 1/8-WD	1/8"	8
GES 8 LR-WD	1/4"	8
GES 8 LR 3/8-WD	3/8"	8
GES 10 LR-WD	1/4"	10
GES 10 LR 3/8-WD	3/8"	10
GES 10 LR 1/2-WD	1/2"	10
GES 12 LR 1/4-WD	1/4"	12
GES 12 LR-WD	3/8"	12
GES 12 LR 1/2-WD	1/2"	12
GES 15 LR-WD	1/2"	15
GES 18 LR-WD	1/2"	18
GES 22 LR-WD	3/4"	22
GES 28 LR-WD	1"	28
GES 35 LR-WD	1.1/4"	35
GES 42 LR-WD	1.1/2"	42

Heavy-duty, WD Seal, BSPP

0350	Thread	OD mm
GES 6 SR-WD	1/4"	6
GES 8 SR-WD	1/4"	8
GES 8 SR 3/8-WD	3/8"	8
GES 10 SR 1/4-WD	1/4"	10
GES 10 SR-WD	3/8"	10
GES 10 SR 1/2-WD	1/2"	10
GES 12 SR 1/4-WD	1/4"	12
GES 12 SR-WD	3/8"	12
GES 12 SR 1/2-WD	1/2"	12
GES 14 SR-WD	1/2"	14
GES 16 SR 3/8-WD	3/8"	16
GES 16 SR-WD	1/2"	16
GES 16 SR 3/4-WD	3/4"	16
GES 20 SR-WD	3/4"	20
GES 25 SR 3/4-WD	3/4"	25
GES 25 SR-WD	1"	25
GES 30 SR-WD	1.1/4"	30
GES 38 SR-WD	1.1/2"	38



Light-duty, 60° Cone, BSPP

0350	Thread	OD mm
GES6 LRFOA	1/8"	6
GES6 LR 1/4FOA	1/4"	6
GES6 LR 3/8FOA	3/8"	6
GES8 LR 1/8FOA	1/8"	8
GES8 LRFOA	1/4"	8
GES8 LR 3/8FOA	3/8"	8
GES10 LRFOA	1/4"	10
GES10 LR 3/8FOA	3/8"	10
GES10 LR 1/2FOA	1/2"	10
GES12 LRFOA	3/8"	12
GES12 LR 1/4FOA	1/4"	12
GES12 LR 1/2FOA	1/2"	12
GES15 LR 3/8FOA	3/8"	15
GES15 LRFOA	1/2"	15
GES18 LRFOA	1/2"	18
GES18 LR 3/4FOA	3/4"	18
GES22 LR 1/2FOA	1/2"	22
GES22 LRFOA	3/4"	22
GES28 LR 3/4FOA	3/4"	28
GES28 LRFOA	1"	28

Heavy-duty, 60° Cone, BSPP

0350	Thread	OD mm
GES8 SRFOA	1/4"	8
GES10 SR 1/4FOA	1/4"	10
GES10 SRFOA	3/8"	10
GES12 SR 1/4FOA	1/4"	12
GES12 SRFOA	3/8"	12
GES12 SR 1/2FOA	1/2"	12
GES14 SRFOA	1/2"	14
GES16 SR 3/8FOA	3/8"	16
GES16 SRFOA	1/2"	16
GES16 SR 3/4FOA	3/4"	16
GES20 SR 1/2FOA	1/2"	20
GES20 SRFOA	3/4"	20
GES25 SR 3/4FOA	3/4"	25
GES25 SRFOA	1"	25
GES30 SR 1FOA	1"	30
GES35 LRFOA	1.1/4"	35
GES38 SR 1FOA	1"	38
GES38 SR 11/4FOA	1.1/4"	38

DIN 2353 BODY ONLY FITTINGS



Rigid Fluid
Conveyance



Straight Coupling



Light-duty

0350	OD mm
GS 6 L	6
GS 8 L	8
GS 10 L	10
GS 12 L	12
GS 15 L	15
GS 18 L	18
GS 22 L	22
GS 28 L	28
GS 35 L	35
GS 42 L	42

Heavy-duty

0350	OD mm
GS 6 S	6
GS 8 S	8
GS 10 S	10
GS 12 S	12
GS 14 S	14
GS 16 S	16
GS 20 S	20
GS 25 S	25
GS 30 S	30
GS 38 S	38

Female Stud Coupling



Light-duty, BSPP

0350	Thread	OD mm
GAS 6 LR	1/8"	6
GAS 8 LR	1/4"	8
GAS 10 LR	1/4"	10
GAS 12 LR 1/4	1/4"	12
GAS 12 LR	3/8"	12
GAS 15 LR	1/2"	15
GAS 18 LR	1/2"	18
GAS 22 LR	3/4"	22
GAS 28 LR	1"	28
GAS 35 LR	1.1/4"	35
GAS 42 LR	1.1/2"	42

Straight Bulkhead Coupling



Light-duty

0350	OD mm
GSS 6 L	6
GSS 8 L	8
GSS 10 L	10
GSS 12 L	12
GSS 15 L	15
GSS 18 L	18
GSS 22 L	22
GSS 28 L	28
GSS 35 L	35
GSS 42 L	42

Heavy-duty

0350	OD mm
GSS 6 S	6
GSS 8 S	8
GSS 10 S	10
GSS 12 S	12
GSS 14 S	14
GSS 16 S	16
GSS 20 S	20
GSS 25 S	25
GSS 30 S	30
GSS 38 S	38

Equal Elbow



Light-duty

0350	OD mm
WS 6 L	6
WS 8 L	8
WS 10 L	10
WS 12 L	12
WS 15 L	15
WS 18 L	18
WS 22 L	22
WS 28 L	28
WS 35 L	35
WS 42 L	42

Heavy-duty

0350	OD mm
WS 6 S	6
WS 8 S	8
WS 12 S	12
WS 16 S	16
WS 20 S	20
WS 25 S	25
WS 30 S	30
WS 38 S	38

Equal Tee



Light-duty

0350	OD mm
TS 6 L	6
TS 8 L	8
TS 10 L	10
TS 12 L	12
TS 15 L	15
TS 18 L	18
TS 22 L	22
TS 28 L	28
TS 35 L	35
TS 42 L	42

Heavy-duty

0350	OD mm
TS 6 S	6
TS 8 S	8
TS 10 S	10
TS 12 S	12
TS 14 S	14
TS 16 S	16
TS 20 S	20
TS 25 S	25
TS 30 S	30
TS 38 S	38

1 DIN 2353 BODY ONLY FITTINGS

90° Swivel Elbow



Light-duty

0350	OD mm
EWSD 6 L	6
EWSD 8 L	8
EWSD 10 L	10
EWSD 12 L	12
EWSD 15 L	15
EWSD 18 L	18
EWSD 22 L	22
EWSD 28 L	28
EWSD 35 L	35
EWSD 42 L	42

Heavy-duty

0350	OD mm
EWSD 6 S	6
EWSD 8 S	8
EWSD 10 S	10
EWSD 12 S	12
EWSD 14 S	14
EWSD 16 S	16
EWSD 20 S	20
EWSD 25 S	25
EWSD 30 S	30
EWSD 38 S	38

45° Swivel Elbow



Light-duty

0350	OD mm
EWSD 45 6 L	6
EWSD 45 8 L	8
EWSD 45 10 L	10
EWSD 45 12 L	12
EWSD 45 15 L	15
EWSD 45 18 L	18
EWSD 45 22 L	22
EWSD 45 28 L	28
EWSD 45 35 L	35
EWSD 45 42 L	42

Heavy-duty

0350	OD mm
EWSD 45 6 S	6
EWSD 45 8 S	8
EWSD 45 10 S	10
EWSD 45 12 S	12
EWSD 45 16 S	16
EWSD 45 20 S	20
EWSD 45 25 S	25
EWSD 45 30 S	30
EWSD 45 38 S	38

Male Stud Elbow



Light-duty, BSPT

0350	Thread	OD mm
WES 6 LRK	1/8"	6
WES 6 LRK 1/4	1/4"	6
WES 8 LRK	1/4"	8
WES 10 LRK	1/4"	10
WES 10 LRK 3/8	3/8"	10
WES 12 LRK 1/4	1/4"	12
WES 12 LRK	3/8"	12
WES 15 LRK	1/2"	15
WES 18 LRK	1/2"	18

Heavy-duty, BSPT

0350	Thread	OD mm
WES 6 SRK	1/4"	6
WES 8 SRK	1/4"	8
WES 10 SRK	3/8"	10
WES 12 SRK	3/8"	12
WES 14 SRK	1/2"	14
WES 16 SRK	1/2"	16

Swivel Branch Tee



Light-duty

0350	OD mm
ETSD 6 L	6
ETSD 8 L	8
ETSD 10 L	10
ETSD 12 L	12
ETSD 15 L	15
ETSD 18 L	18
ETSD 22 L	22
ETSD 28 L	28
ETSD 35 L	35
ETSD 42 L	42

Heavy-duty

0350	OD mm
ETSD 6 S	6
ETSD 8 S	8
ETSD 10 S	10
ETSD 12 S	12
ETSD 14 S	14
ETSD 16 S	16
ETSD 20 S	20
ETSD 25 S	25
ETSD 30 S	30
ETSD 38 S	38

Swivel Run Tee

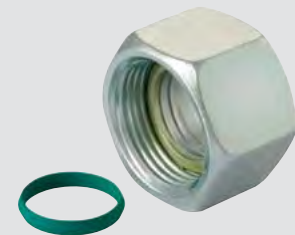


Light-duty

0350	OD mm
ELSD 6 L	6
ELSD 8 L	8
ELSD 10 L	10
ELSD 12 L	12
ELSD 15 L	15
ELSD 18 L	18
ELSD 22 L	22
ELSD 28 L	28
ELSD 35 L	35
ELSD 42 L	42

Heavy-duty

0350	OD mm
ELSD 6 S	6
ELSD 8 S	8
ELSD 10 S	10
ELSD 12 S	12
ELSD 14 S	14
ELSD 16 S	16
ELSD 20 S	20
ELSD 25 S	25
ELSD 30 S	30
ELSD 38 S	38



For Nuts & Olives
see page 8

FLANGE COUPLINGS



Straight Flange Couplings

- O-Rings, spring washers and hexagon nuts must be purchased separately
- Comes complete with profile nut only



35 Series

0350	OD mm	Max Pressure Bar
GFV10L35	10	315
GFV12L35	12	315
GFV15L35	15	250
GFV16L35	16	315

Tech Sheet 1705

40 Series

0350	OD mm	Max Pressure Bar
GFV15L40	15	100
GFV18L40	18	100
GFV22L40	22	100
GFV28L40	28	100

Tech Sheet 1705

55 Series

0350	OD mm	Max Pressure Bar
GFV20S55	20	250

Tech Sheet 1705

Elbow Flange Couplings



35 Series

0350	OD mm	Max Pressure Bar
WFFV10L35	10	315
WFFV12L35	12	315
WFFV15L35	15	250
WFFV16S35	16	315
WFFV20S35	20	250

Tech Sheet 1706

40 Series

0350	OD mm	Max Pressure Bar
WFFV15L40	15	100
WFFV18L40	18	100
WFFV22L40	22	100
WFFV28L40	28	100
WFFV35L40	35	100
WFFV20S40	20	250

Tech Sheet 1706

55 Series

0350	OD mm	Max Pressure Bar
WFFV22L55	22	100
WFFV35L55	35	100
WFFV42L55	42	100
WFFV20S55	20	250
WFFV25S55	25	250
WFFV30S55	30	250

Tech Sheet 1706

O-Rings

- Sold as singles
- 1 required per unit



0350	To Suit
WAL610519	35 Series
WAL610499	40 Series
WAL610500	55 Series

Tech Sheet 1707

Spring Washers

- Sold as singles
- 4 required per unit



0350	To Suit
WAL020102	35/40 Series
WAL020104	55 Series

Hexagon Sockets

- Sold as singles
- 4 required per unit



0350	To Suit
WAL020309	35/40 Series
WAL020324	55 Series

Tech Sheet 1707



Non-return Valves

Rigid Fluid
ConveyanceTube to BSPP,
Light-duty

0350	Thread	OD mm	Max Pressure Bar
RVV6LRWD	1/8"	6	400
RVV8LRWD	1/4"	8	400
RVV10LRWD	1/4"	10	400
RVV12LRWD	3/8"	12	400
RVV15LRWD	1/2"	15	400
RVV18LRWD	1/2"	18	400
RVV22LRWD	3/4"	22	250
RVV28LRWD	1"	28	250
RVV35LRWD	1.1/4"	35	250
RVV42LRWD	1.1/2"	42	250

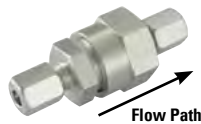
Tech Sheet 1708

Tube to BSPP, Heavy-duty

0350	Thread	OD mm	Max Pressure Bar
RVV6SRWD	1/4"	6	400
RVV8SRWD	1/4"	8	400
RVV10SRWD	3/8"	10	400
RVV12SRWD	3/8"	12	400
RVV14SRWD	1/2"	14	400
RVV16SRWD	1/2"	16	400
RVV20SRWD	3/4"	20	400
RVV25SRWD	1"	25	250
RVV30SRWD	1.1/4"	30	250
RVV38SRWD	1.1/2"	38	250

Tech Sheet 1708

1 bar cracking pressure.

Tube to Tube,
Light-duty

0350	OD mm	Max Pressure Bar
RV6L	6	400
RV8L	8	400
RV10L	10	400
RV12L	12	400
RV15L	15	400
RV18L	18	400
RV22L	22	250
RV28L	28	250
RV35L	35	250
RV42L	42	250

Tech Sheet 1709

Tube to Tube, Heavy-duty

0350	OD mm	Max Pressure Bar
RV6S	6	400
RV8S	8	400
RV10S	10	400
RV12S	12	400
RV14S	14	400
RV16S	16	400
RV20S	20	400
RV25S	25	250
RV30S	30	250
RV38S	38	250

Tech Sheet 1709

Flow from tube to male

BSPP x Tube,
Light-duty

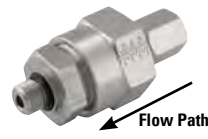
0350	Thread	OD mm	Max Pressure Bar
RVZ6LRWD	1/8"	6	400
RVZ8LRWD	1/4"	8	400
RVZ10LRWD	1/4"	10	400
RVZ12LRWD	3/8"	12	400
RVZ15LRWD	1/2"	15	400
RVZ18LRWD	1/2"	18	400
RVZ22LRWD	3/4"	22	250
RVZ28LRWD	1"	28	250
RVZ35LRWD	1.1/4"	35	250
RVZ42LRWD	1.1/2"	42	250

Tech Sheet 1710

BSPP x Tube, Heavy-duty

0350	Thread	OD mm	Max Pressure Bar
RVZ6SRWD	1/4"	6	400
RVZ8SRWD	1/4"	8	400
RVZ10SRWD	3/8"	10	400
RVZ12SRWD	3/8"	12	400
RVZ14SRWD	1/2"	14	400
RVZ16SRWD	1/2"	16	400
RVZ20SRWD	3/4"	20	400
RVZ25SRWD	1"	25	250
RVZ30SRWD	1.1/4"	30	250
RVZ38SRWD	1.1/2"	38	250

Tech Sheet 1710

Metric x Tube,
Light-duty

0350	Thread	OD mm	Max Pressure Bar
RVZ6LMWD	M10 x 1	6	400
RVZ8LMWD	M12 x 1.5	8	400
RVZ10LMWD	M14 x 1.5	10	400
RVZ12LMWD	M16 x 1.5	12	400
RVZ15LMWD	M18 x 1.5	15	400
RVZ18LMWD	M22 x 1.5	18	400
RVZ22LMWD	M26 x 1.5	22	250
RVZ28LMWD	M33 x 2	28	250
RVZ35LMWD	M42 x 2	35	250
RVZ42LMWD	M48 x 2	42	250

Tech Sheet 1711

Metric x Tube, Heavy-duty

0350	Thread	OD mm	Max Pressure Bar
RVZ8SMWD	M14 x 1.5	8	400
RVZ10SMWD	M16 x 1.5	10	400
RVZ12SMWD	M18 x 1.5	12	400
RVZ14SMWD	M20 x 1.5	14	400
RVZ16SMWD	M22 x 1.5	16	400
RVZ20SMWD	M27 x 2	20	400
RVZ25SMWD	M33 x 2	25	250
RVZ30SMWD	M42 x 2	30	250
RVZ38SMWD	M48 x 2	38	250

Tech Sheet 1711

Shuttle Valves



Ball Seat, Light-duty

0350	OD mm	Max Pressure Bar
TWV8L	8	250
TWV10L	10	250
TWV12L	12	250

Tech Sheet 1712

VALVES



Compression Ball Valves

Tube connection both ends.



Light-duty

0350	OD mm	Max Pressure Bar
KHV6L	6	400
KHV8L	8	400
KHV10L	10	400
KHV12L	12	400
KHV15L	15	400
KHV18L	18	400
KHV22L	22	250
KHV28L	28	250
KHV35L	35	250
KHV42L	42	210

Tech Sheet 1713

Heavy-duty

0350	OD mm	Max Pressure Bar
KHV8S	8	500
KHV10S	10	500
KHV12S	12	500
KHV14S	14	500
KHV16S	16	500
KHV20S	20	500
KHV25S	25	400
KHV30S	30	315
KHV38S	38	315

Tech Sheet 1713

Compression L Ported Ball Valves

Tube connection all ports.

Warning: Port A must always be in the open position. Pressure may only be applied from this side. Application of pressure through the other ports is not permissible and may cause malfunction.



L Ported, Light-duty

0350	OD mm	Max Pressure Bar
KH3KV8L-LPORT	8	400
KH3KV10L-LPORT	10	400
KH3KV12L-LPORT	12	350
KH3KV15L-LPORT	15	350

Tech Sheet 1714

Compression T Ported Ball Valves



T Ported, Light-duty

0350	OD mm	Max Pressure Bar
KH3KV10L-TPORT	10	400
KH3KV12L-TPORT	12	350
KH3KV15L-TPORT	15	350

Tech Sheet 1714

STANDPIPE ADAPTORS



Metric Standpipe Adaptors, Mild Steel, BSPP

L Series

0023	Thread	OD mm
2101-7991	1/8"	6
2101-8007	1/4"	8
2135-2869	3/8"	8
2135-2885	1/8"	10
2101-8023	1/4"	10
2135-2893	1/4"	12
2101-8031	3/8"	12
2135-2901	1/2"	12
2135-3206	3/8"	15
2135-3214	3/8"	18
2135-3222	3/4"	18
2101-8049	1/2"	15
2101-8064	1/2"	18
2101-8072	3/4"	22
2135-3230	3/4"	28
2101-8080	1"	28
2101-8098	1.1/4"	35
2101-8114	1.1/2"	42

S Series


0023	Thread	OD mm
2101-8122	1/4"	6
2101-8130	1/4"	8
2135-3321	3/8"	8
2101-8148	3/8"	10
2135-3339	1/4"	12
2101-8163	3/8"	12
2135-3347	1/2"	12
2101-8189	1/2"	14
2135-3354	3/8"	16
2101-8197	1/2"	16




0023	Thread	OD mm
2135-3362	3/4"	16
2135-3388	1/2"	20
2101-8205	3/4"	20
2135-3396	1"	20
2135-3404	3/4"	25
2101-8213	1"	25
2135-3412	1"	30
2101-8221	1.1/4"	30
2101-8239	1.1/2"	38

Benefits:

- Leak free O-Ring seal
- Safe joint every time
- Low tightening torque and clamping force rises with the internal pressure
- Low installed cost, no welding (so inert gas purging, NDT and excessive flushing are not required), minimal tube preparation and no special assembly equipment required
- Demountable and reusable, can be used with most tube materials

 **Working Temperature:**
Nitrile: -40°C to +100°C
Viton: -20°C to +150°C

 **Maximum Working Pressure:**
6mm to 22mm: 680 bar
25mm to 50mm: 500 bar

Features:

Body – mild steel, stainless steel or cupro-nickel. Compatible with most fluids and environments. Locates O-Ring and tube.
O-Ring – nitrile, FPM (Viton), EP or FEP encapsulated FPM. Compatible with most fluids. Highly resistant to leakage even under severe vibration, pressure pulsation and temperature cycling. Provides diametric seal between tube OD and body cavity.
Nut – mild steel, stainless steel or cupro-nickel. Compatible with most environments. Closes split collet and retains sealing mechanism.
Back-up washer – mild steel, stainless steel, or cupro-nickel. Provides additional support from the tube and locates the O-Ring.
Split collet – mild steel, stainless steel or cupro-nickel. Clamping force rises with pressure. Large clamping area ensures minimal deformation of the tube. Retains tube in position.

- 3:1 safety factor
- Derate by 50% for high pressure gas systems
- Pressure ratings based on the tube OD tolerance to BS3602 and DIN2391C

All fittings also available in the following materials upon request:

- Stainless steel
- Cupro-nickel

Seals available on request:

- EP (ethylene propylene)
 - FEP encapsulated FPM
- All fittings supplied with Nitrile seals as standard.

Straight Couplings**Tube x Tube**

0459	OD mm
KRAM6CR	6
KRAM8CR	8
KRAM10CR	10
KRAM12CR	12
KRAM16CR	16
KRAM20CR	20
KRAM22CR	22
KRAM25CR	25
KRAM30CR	30
KRAM38CR	38
KRAM50CR	50

Tech Sheet 20544

Equal Bulkheads**Tube x Tube**

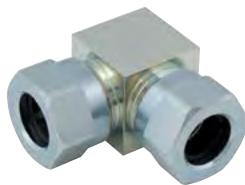
0459	OD mm
KRAM6BPR	6
KRAM8BPR	8
KRAM10BPR	10
KRAM12BPR	12
KRAM16BPR	16
KRAM20BPR	20
KRAM22BPR*	22
KRAM25BPR	25
KRAM30BPR	30
KRAM38BPR	38
KRAM50BPR	50

Tech Sheet 20545

Reducing Branch Tees**Tube x Tube**

0459	OD mm	OD mm
KRAM12-M8ROTR	12	8
KRAM16-M8ROTR	16	8
KRAM20-M8ROTR	20	8
KRAM25-M12ROTR*	25	12
KRAM25-M16ROTR	25	16
KRAM30-M16ROTR	30	16
KRAM38-M20ROTR*	38	20

Tech Sheet 20548

Equal Elbows**Tube x Tube**

0459	OD mm
KRAM6ER	6
KRAM8ER	8
KRAM10ER	10
KRAM12ER	12
KRAM16ER	16
KRAM20ER	20
KRAM22ER	22
KRAM25ER	25
KRAM30ER	30
KRAM38ER	38
KRAM50ER	50

Tech Sheet 20546

Equal Tees**Tube x Tube**

0459	OD mm
KRAM6TR	6
KRAM8TR	8
KRAM10TR	10
KRAM12TR	12
KRAM16TR	16
KRAM20TR	20
KRAM22TR*	22
KRAM25TR	25
KRAM30TR	30
KRAM38TR	38
KRAM50TR	50

Tech Sheet 20547

*Minimum order quantity on these items may apply

HIGH PRESSURE METRIC TUBE COUPLINGS



Male Stud Couplings



BSPP

0459	OD mm	Thread
KRAM6-2MSCR	6	1/8"
KRAM6-4MSCR	6	1/4"
KRAM6-6MSCR	6	3/8"
KRAM8-2MSCR	8	1/8"
KRAM8-4MSCR	8	1/4"
KRAM8-6MSCR	8	3/8"
KRAM10-4MSCR	10	1/4"
KRAM10-6MSCR	10	3/8"
KRAM10-8MSCR	10	1/2"
KRAM12-4MSCR	12	1/4"
KRAM12-6MSCR	12	3/8"
KRAM12-8MSCR	12	1/2"
KRAM12-12MSCR	12	3/4"
KRAM16-6MSCR	16	3/8"
KRAM16-8MSCR	16	1/2"
KRAM16-12MSCR	16	3/4"
KRAM20-8MSCR	20	1/2"
KRAM20-12MSCR	20	3/4"
KRAM20-16MSCR	20	1"
KRAM25-12MSCR	25	3/4"
KRAM25-16MSCR	25	1"
KRAM25-20MSCR	25	1.1/4"
KRAM30-16MSCR	30	1"
KRAM30-20MSCR	30	1.1/4"
KRAM38-16MSCR	38	1"
KRAM38-20MSCR	38	1.1/4"
KRAM38-24MSCR	38	1.1/2"
KRAM50-20MSCR	50	1.1/4"
KRAM50-24MSCR	50	1.1/2"
KRAM50-32MSCR	50	2"

Tech Sheet 20549

Male Stud Bulkheads



BSPP

0459	OD mm	Thread
KRAM8-4BHR	8	1/4"
KRAM10-6BHR	10	3/8"
KRAM12-6BHR	12	3/8"
KRAM16-8BHR	16	1/2"
KRAM20-12BHR	20	3/4"
KRAM25-16BHR	25	1"
KRAM38-20BHR	38	1.1/4"
KRAM38-24BHR	38	1.1/2"

Tech Sheet 20555

Female Stud Couplings



BSPP

0459	OD mm	Thread
KRAM6-4FSCR*	6	1/4"
KRAM8-6FSCR	8	3/8"
KRAM12-6FSCR	12	3/8"
KRAM16-8FSCR	16	1/2"
KRAM20-12FSCR	20	3/4"
KRAM25-16FSCR	25	1"
KRAM30-20FSCR	30	1.1/4"
KRAM38-24FSCR*	38	1.1/2"
KRAM50-32FSCR	50	2"

Tech Sheet 20550

Banjos



BSPP

0459	OD mm	Thread
KRAM6-4BJR	6	1/4"
KRAM8-4BJR	8	1/4"
KRAM10-6BJR	10	3/8"
KRAM12-6BJR	12	3/8"
KRAM16-8BJR	16	1/2"
KRAM20-12BJR	20	3/4"
KRAM25-16BJR	25	3/4"
KRAM30-20BJR	30	1.1/4"
KRAM38-24BJR	38	1.1/2"

Tech Sheet 20556

Female Branch Tees



BSPP

0459	OD mm	Thread
KRAM10-6FOTR	10	3/8"
KRAM12-6FOTR	12	3/8"
KRAM16-8FOTR*	16	1/2"
KRAM30-20FOTR*	30	1.1/4"
KRAM38-20FOTR	38	1.1/4"
KRAM38-24FOTR*	38	1.1/2"
KRAM50-24FOTR	50	1.1/2"

Tech Sheet 20551

Breakaway Adaptors

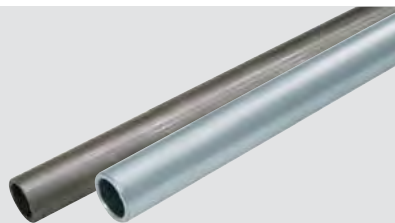


OD

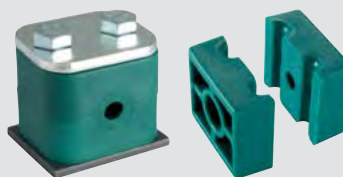
0459	OD mm
KRAM8BCR*	8
KRAM10BCR	10
KRAM12BCR	12
KRAM16BCR	16
KRAM20BCR	20
KRAM22BCR	22
KRAM25BCR	25
KRAM30BCR	30
KRAM38BCR	38
KRAM50BCR	50

Tech Sheet 20552

You might also need
Hydraulic Tubing
see pages 67-69



For **Hydraulic Tube Clamps**
see pages 72-87



Reducing Nut Adaptors



Tube x Tube

0459	OD mm	OD mm
KRAM10-M6RNR	10	6
KRAM10-M8RNR	10	8
KRAM12-M8RNR	12	8
KRAM12-M10RNR	12	10
KRAM16-M8RNR	16	8
KRAM16-M12RNR	16	12
KRAM20-M10RNR	20	10
KRAM20-M12RNR	20	12
KRAM20-M16RNR	20	16
KRAM25-M12RNR	25	12
KRAM25-M16RNR	25	16
KRAM25-M20RNR	25	20
KRAM30-M25RNR	30	25
KRAM38-M20RNR	38	20
KRAM38-M25RNR	38	25
KRAM38-M30RNR	38	30
KRAM50-M25RNR	50	25
KRAM50-M30RNR*	50	30
KRAM50-M38RNR	50	38

Tech Sheet 20557

Blanking End Plugs



OD

0459	OD mm
KRM6BPGR	6
KRM8BPGR	8
KRM10BPGR	10
KRM20BPGR	20
KRM22BPGR*	22
KRM25BPGR	25
KRM30BPGR	30
KRM38BPGR	38
KRM50BPGR	50

Tech Sheet 20553

Washers



OD

0459	OD mm
KRM6W	6
KRM8W	8
KRM10W	10
KRM12W	12
KRM16W	16
KRM20W	20
KRM22W	22
KRM25W	25
KRM30W	30
KRM38W	38
KRM50W	50

Tech Sheet 20553

Collets



OD

0459	OD mm
KRM6R	6
KRM8R	8
KRM10R	10
KRM12R	12
KRM16R	16
KRM20R	20
KRM22R	22
KRM25R	25
KRM30R	30
KRM38R	38
KRM50R	50

Tech Sheet 20553

Nuts



OD

0459	OD mm
KRM6NCR	6
KRM8NCR	8
KRM10NCR	10
KRM12NCR	12
KRM16NCR	16
KRM20NCR	20
KRM22NCR	22
KRM25NCR	25
KRM30NCR	30
KRM38NCR	38
KRM50NCR	50

Tech Sheet 20553

O-Rings



Viton

0459	OD mm
KR200-010-9790	6
KR200-011-9790	8
KR200-613-9790	10
KR200-614-9790	12
KR200-114-9790	16
KR200-211-9790	20
KR200-212-9790	22
KR200-214-9790	25
KR200-217-9790	30
KR200-222-9790	38
KR207-071-9790	50

Tech Sheet 20554



Nitrile

0459	OD mm
KR200-010-4490	6
KR200-011-4490	8
KR200-613-4490	10
KR200-614-4490	12
KR200-114-4490	16
KR200-211-4490	20
KR200-212-4490	22
KR200-214-4490	25
KR200-217-4490	30
KR200-222-4490	38
KR207-071-4490	50

Tech Sheet 20554



HYDRAULIC IMPERIAL COMPRESSION FITTINGS

Steel Fittings for O.D. & N.B.



Nuts O.D. Tube

0023	OD
N4	1/4"
N6	3/8"
N8	1/2"
N10	5/8"
N12	3/4"
N14	7/8"
N16	1"
N20	1.1/4"

Tech Sheet 20133



Nuts N.B. Tube

0023	OD
NN4	1/4"
NN6	3/8"
NN8	1/2"
NN12	3/4"
NN16	1"
NN20	1.1/4"

Tech Sheet 20133



Ferrules N.B. Tube

0023	NB
NF4	1/4"
NF6	3/8"
NF8	1/2"
NF12	3/4"
NF16	1"
NF20	1.1/4"

Tech Sheet 20133



Ferrules O.D. Tube

0023	NB
F4	1/4"
F5	5/16"
F6	3/8"
F8	1/2"
F10	5/8"
F12	3/4"
F16	1"
F20	1.1/4"
F24	1.1/2"

Tech Sheet 20133

Technical Data:

- 1" O.D. 690 bar (10,000 psi) hydraulic or 345 bar (5,000 psi) gas.
- 1.1/4" O.D. 552 bar (8,000 psi) hydraulic or 276 bar (4,000 psi) gas.

N.B. Couplings are suitable for the following pressures, up to and including:

- 3/4" N.B. 690 bar (10,000 psi) hydraulic or 345 bar (5,000 psi) gas.
- 1" N.B. 552 bar (8,000 psi) hydraulic or 276 bar (4,000 psi) gas.
- 1.1/2" N.B. 345 bar (5,000 psi) hydraulic or 173 bar (2,500 psi) gas.



Straight Couplings O.D. Tube

0023	OD
SC4	1/4"
SC5	5/16"
SC6	3/8"
SC8	1/2"
SC10	5/8"
SC12	3/4"
SC14	7/8"
SC16	1"
SC20	1.1/4"

Tech Sheet 20134



Straight Couplings N.B. Tube

0023	NB
NSC4	1/4"
NSC6	3/8"
NSC8	1/2"
NSC12	3/4"
NSC16	1"
NSC24	1.1/2"

Tech Sheet 20134



BSPP Female Stud Couplings O.D. Tube

0023	OD	Thread
FC4-4	1/4"	1/4"
FC6-4	3/8"	1/4"
FC6-6	3/8"	3/8"
FC6-8	3/8"	1/2"
FC8-4	1/2"	1/4"
FC8-6	1/2"	3/8"
FC8-8	1/2"	1/2"
FC10-8	5/8"	1/2"
FC12-12	3/4"	3/4"
FC14-12	7/8"	3/4"
FC16-16	1"	1"
FC20-20	1.1/4"	1.1/4"
FC24-24	1.1/2"	1.1/2"

Tech Sheet 20135



BSPP Female Stud Couplings N.B. Tube

0023	NB	Thread
NFC4-2	1/4"	1/8"
NFC4-8	1/4"	1/2"
NFC6-8	3/8"	1/2"
NFC8-6	1/2"	3/8"
NFC8-8	1/2"	1/2"
NFC8-12	1/2"	3/4"
NFC16-16	1"	1"

Tech Sheet 20135



BSPP Male Stud Couplings O.D. Tube

0023	OD	Thread
MC4-2	1/4"	1/8"
MC4-4	1/4"	1/4"
MC4-6	1/4"	3/8"
MC6-4	3/8"	1/4"
MC6-6	3/8"	3/8"
MC6-8	3/8"	1/2"
MC8-4	1/2"	1/4"
MC8-6	1/2"	3/8"
MC8-8	1/2"	1/2"
MC8-12	1/2"	3/4"
MC10-8	5/8"	1/2"
MC10-12	5/8"	3/4"
MC12-8	3/4"	1/2"
MC12-12	3/4"	3/4"
MC14-12	7/8"	3/4"
MC16-12	1"	3/4"
MC16-16	1"	1"
MC16-20	1"	1.1/4"
MC20-16	1.1/4"	1"
MC20-20	1.1/4"	1.1/4"
MC20-24	1.1/4"	1.1/2"
MC24-20	1.1/2"	1.1/4"
MC24-24	1.1/2"	1.1/2"

Tech Sheet 20136

Steel Fittings for O.D. & N.B.



BSPP Male Stud Couplings N.B. Tube

0023	NB	Thread
NMC4-4	1/4"	1/4"
NMC4-6	1/4"	3/8"
NMC6-4	3/8"	1/4"
NMC6-6	3/8"	3/8"
NMC8-6	1/2"	3/8"
NMC8-8	1/2"	1/2"
NMC8-12	1/2"	3/4"
NMC8-16	1/2"	1"
NMC12-12	3/4"	3/4"
NMC16-12	1"	3/4"
NMC16-16	1"	1"
NMC16-20	1"	1.1/4"
NMC20-16	1.1/4"	1"
NMC20-20	1.1/4"	1.1/4"
NMC24-24	1.1/2"	1.1/2"

Tech Sheet 20137



BSPT Male Stud Couplings O.D. Tube

0023	OD	Thread
MC4-4T	1/4"	1/4"
MC6-4T	3/8"	1/4"
MC6-6T	3/8"	3/8"
MC8-4T	1/2"	1/4"
MC8-6T	1/2"	3/8"
MC8-8T	1/2"	1/2"
MC10-8T	5/8"	1/2"
MC12-8T	3/4"	1/2"
MC12-12T	3/4"	3/4"
MC16-12T	1"	3/4"
MC16-16T	1"	1"
MC20-16T	1.1/4"	1"
MC24-24T	1.1/2"	1.1/2"

Tech Sheet 20138



BSPT Male Stud Couplings N.B. Tube

0023	NB	Thread
NMC4-4T	1/4"	1/4"
NMC4-8T	1/4"	1/2"
NMC6-6T	3/8"	3/8"
NMC8-6T	1/2"	3/8"
NMC8-8T	1/2"	1/2"
NMC8-12T	1/2"	3/4"
NMC12-12T	3/4"	3/4"
NMC12-16T	3/4"	1"
NMC16-16T	1"	1"
NMC20-20T	1.1/4"	1.1/4"
NMC24-24T	1.1/2"	1.1/2"

Tech Sheet 20139



BSPT Male Stud Elbows O.D. Tube

0023	OD	Thread
ME4-2T	1/4"	1/8"
ME4-4T	1/4"	1/4"
ME6-4T	3/8"	1/4"
ME6-6T	3/8"	3/8"
ME8-6T	1/2"	3/8"
ME12-8T	3/4"	1/2"
ME16-12T	1"	3/4"
ME16-16T	1"	1"

Tech Sheet 20140



BSPP Male Stud Elbows N.B. Tube

0023	NB	Thread
NME6-6	3/8"	3/8"
NME8-8	1/2"	1/2"

Tech Sheet 20141



BSPP Male Stud Elbows O.D. Tube

0023	OD	Thread
ME4-2	1/4"	1/8"
ME4-4	1/4"	1/4"
ME8-6	1/2"	3/8"
ME8-8	1/2"	1/2"
ME10-8	5/8"	1/2"
ME12-8	3/4"	1/2"
ME12-12	3/4"	3/4"

Tech Sheet 20141



Equal Elbows O.D. Tube

0023	OD
E4	1/4"
E5	5/16"
E6	3/8"
E8	1/2"
E10	5/8"
E12	3/4"
E14	7/8"
E16	1"
E20	1.1/4"
E24	1.1/2"

Tech Sheet 20143



Bulkhead Couplings O.D. Tube

0023	OD
BH6	3/8"
BH8	1/2"
BH10	5/8"
BH12	3/4"

Tech Sheet 20144



BSPP Banjo Couplings O.D. Tube

0023	OD	Thread
BJ4-4	1/4"	1/4"
BJ6-4	3/8"	1/4"
BJ6-6	3/8"	3/8"
BJ8-6	1/2"	3/8"
BJ8-8	1/2"	1/2"
BJ10-8	5/8"	1/2"

Tech Sheet 20146



Equal Tees O.D. Tube

0023	OD
T4	1/4"
T5	5/16"
T6	3/8"
T8	1/2"
T12	3/4"
T16	1"
T24	1.1/2"

Tech Sheet 20145



HYDRAULIC IMPERIAL COMPRESSION FITTINGS

Steel Fittings for O.D. & N.B.



BSPT Male Stud Elbows N.B. Tube

0023	NB	Thread
NME4-4T	1/4"	1/4"
NME4-6T	1/4"	1/8"
NME6-6T	3/8"	3/8"

Tech Sheet 20140



Equal Elbows N.B. Tube

0023	NB
NE4	1/4"
NE6	3/8"
NE8	1/2"
NE12	3/4"
NE16	1"
NE20	1.1/4"

Tech Sheet 20143



BSPP Banjo Couplings N.B. Tube

0023	NB	Thread
NBJ2-2	1/8"	1/8"
NBJ8-8	1/2"	1/2"

Tech Sheet 20146



Equal Tees N.B. Tube

0023	NB
NT4	1/4"
NT6	3/8"
NT8	1/2"
NT12	3/4"
NT20	1.1/4"
NT24	1.1/2"

Tech Sheet 20145



BSPP Male Stud Standpipe Adaptors N.B. Fitting

0023	NB	Thread
NSA4-4	1/4"	1/4"
NSA6-4	1/4"	3/8"
NSA6-6	3/8"	3/8"
NSA8-6	3/8"	1/2"
NSA8-8	1/2"	1/2"
NSA12-8	1/2"	3/4"
NSA12-12	3/4"	3/4"
NSA12-16	1"	3/4"
NSA16-16	1"	1"
NSA16-20	1.1/4"	1"
NSA20-16	1"	1.1/4"
NSA20-20	1.1/4"	1.1/4"

Tech Sheet 20148



BSPP Male Stud Standpipe Adaptors O.D. Fitting

0023	OD	Thread
SA4-4	1/4"	1/4"
SA4-6	3/8"	1/4"
SA6-6	3/8"	3/8"
SA6-8	1/2"	3/8"
SA8-8	1/2"	1/2"
SA8-12	3/4"	1/2"
SA12-12	3/4"	3/4"
SA12-16	1"	3/4"
SA16-16	1"	1"
SA20-20	1.1/4"	1.1/4"

Tech Sheet 20148



Blanking Plugs O.D. Tube

0023	OD
BP4	1/4"
BP6	3/8"
BP8	1/2"
BP12	3/4"
BP20	1.1/4"

Tech Sheet 20149



Blanking Plugs N.B. Tube

0023	NB
NBP4	1/4"
NBP6	3/8"
NBP8	1/2"
NBP12	3/4"

Tech Sheet 20149

316 STAINLESS STEEL DIN 2353 TUBE FITTINGS

stainless
steel



Male Stud Couplings



° Stainless Steel 1.4571 Working Temperature:
-60°C to +400°C (DIN 17 440, AD W 10)

Seal Working Temperature:
-20°C to +200°C (FPM e.g. Viton)

Rigid Fluid
Conveyance

L Series, BSPP (Captive Seal)

0291	OD mm	Thread
GE-6L-2EO	6	1/8"
GE-6L-4EO	6	1/4"
GE-6L-6EO	6	3/8"
GE-6L-8EO	6	1/2"
GE-8L-2EO	8	1/8"
GE-8L-4EO	8	1/4"
GE-8L-6EO	8	3/8"
GE-8L-8EO	8	1/2"
GE-10L-2EO	10	1/8"
GE-10L-4EO	10	1/4"
GE-10L-6EO	10	3/8"
GE-10L-8EO	10	1/2"
GE-10L-12EO	10	3/4"
GE-12L-2EO	12	1/8"
GE-12L-4EO	12	1/4"
GE-12L-6EO	12	3/8"
GE-12L-8EO	12	1/2"
GE-12L-12EO	12	3/4"
GE-15L-4EO	15	1/4"
GE-15L-6EO	15	3/8"
GE-15L-8EO	15	1/2"
GE-15L-12EO	15	3/4"
GE-15L-16EO	15	1"
GE-18L-6EO	18	3/8"
GE-18L-8EO	18	1/2"
GE-18L-12EO	18	3/4"
GE-18L-16EO	18	1"
GE-22L-6EO	22	3/8"
GE-22L-8EO	22	1/2"
GE-22L-12EO	22	3/4"
GE-22L-16EO	22	1"
GE-22L-20EO	22	1.1/4"
GE-28L-8EO	28	1/2"
GE-28L-12EO	28	3/4"
GE-28L-16EO	28	1"
GE-28L-20EO	28	1.1/4"
GE-28L-24EO	28	1.1/2"
GE-35L-12EO	35	3/4"
GE-35L-16EO	35	1"
GE-35L-20EO	35	1.1/4"
GE-35L-24EO	35	1.1/2"
GE-42L-16EO	42	1"
GE-42L-20EO	42	1.1/4"
GE-42L-24EO	42	1.1/2"
GE-42L-32EO	42	2"

Tech Sheet 10585

S Series, BSPP (Captive Seal)

0291	OD mm	Thread
GE-6S-2EO	6	1/8"
GE-6S-4EO	6	1/4"
GE-6S-6EO	6	3/8"
GE-6S-8EO	6	1/2"
GE-8S-2EO	8	1/8"
GE-8S-4EO	8	1/4"
GE-8S-6EO	8	3/8"
GE-8S-8EO	8	1/2"
GE-10S-2EO	10	1/8"
GE-10S-4EO	10	1/4"
GE-10S-6EO	10	3/8"
GE-10S-8EO	10	1/2"
GE-10S-12EO	10	3/4"
GE-12S-4EO	12	1/4"
GE-12S-6EO	12	3/8"
GE-12S-8EO	12	1/2"
GE-12S-12EO	12	3/4"
GE-14S-6EO	14	3/8"
GE-14S-8EO	14	1/2"
GE-14S-12EO	14	3/4"
GE-16S-4EO	16	1/4"
GE-16S-6EO	16	3/8"
GE-16S-8EO	16	1/2"
GE-16S-12EO	16	3/4"
GE-16S-16EO	16	1"
GE-20S-6EO	20	3/8"
GE-20S-8EO	20	1/2"
GE-20S-12EO	20	3/4"
GE-20S-16EO	20	1"
GE-20S-20EO	20	1.1/4"
GE-25S-8EO	25	1/2"
GE-25S-12EO	25	3/4"
GE-25S-16EO	25	1"
GE-25S-20EO	25	1.1/4"
GE-30S-12EO	30	3/4"
GE-30S-16EO	30	1"
GE-30S-20EO	30	1.1/4"
GE-30S-24EO	30	1.1/2"
GE-38S-16EO	38	1"
GE-38S-20EO	38	1.1/4"
GE-38S-24EO	38	1.1/2"

Tech Sheet 10585

L Series, Metric (Captive Seal)

0291	OD mm	Thread
GE-6L-10MEO	6	M10 x 1
GE-6L-12MEO	6	M12 x 1.5
GE-6L-14MEO	6	M14 x 1.5
GE-8L-10MEO	8	M10 x 1.0
GE-8L-12MEO	8	M12 x 1.5
GE-8L-14MEO	8	M14 x 1.5
GE-8L-16MEO	8	M16 x 1.5
GE-8L-18MEO	8	M18 x 1.5
GE-10L-10MEO	10	M10 x 1.0
GE-10L-12MEO	10	M12 x 1.5
GE-10L-14MEO	10	M14 x 1.5
GE-10L-16MEO	10	M16 x 1.5
GE-10L-18MEO	10	M18 x 1.5
GE-10L-22MEO	10	M22 x 1.5
GE-12L-12MEO	12	M12 x 1.5
GE-12L-14MEO	12	M14 x 1.5
GE-12L-16MEO	12	M16 x 1.5
GE-12L-18MEO	12	M18 x 1.5
GE-12L-22MEO	12	M22 x 1.5
GE-15L-16MEO	15	M16 x 1.5
GE-15L-18MEO	15	M18 x 1.5
GE-15L-22MEO	15	M22 x 1.5
GE-18L-18MEO	18	M18 x 1.5
GE-18L-22MEO	18	M22 x 1.5
GE-18L-26MEO	18	M26 x 1.5
GE-22L-22MEO	22	M22 x 1.5
GE-22L-26MEO	22	M26 x 1.5
GE-28L-33MEO	28	M33 x 2
GE-35L-42MEO	35	M42 x 2.0
GE-42L-48MEO	42	M48 x 2.0

Tech Sheet 10586

S Series, Metric (Captive Seal)

0291	OD mm	Thread
GE-6S-12MEO	6	M12 x 1.5
GE-6S-14MEO	6	M14 x 1.5
GE-8S-12MEO	8	M12 x 1.5
GE-8S-14MEO	8	M14 x 1.5
GE-8S-16MEO	8	M16 x 1.5
GE-10S-14MEO	10	M14 x 1.5
GE-10S-16MEO	10	M16 x 1.5
GE-10S-18MEO	10	M18 x 1.5
GE-12S-14MEO	12	M14 x 1.5
GE-12S-16MEO	12	M16 x 1.5
GE-12S-18MEO	12	M18 x 1.5
GE-12S-20MEO	12	M20 x 1.5
GE-12S-22MEO	12	M22 x 1.5
GE-14S-20MEO	14	M20 x 1.5
GE-14S-22MEO	14	M22 x 1.5
GE-16S-18MEO	16	M18 x 1.5
GE-16S-22MEO	16	M22 x 1.5
GE-20S-27MEO	20	M27 x 2
GE-25S-33MEO	25	M33 x 2
GE-30S-42MEO	30	M42 x 2
GE-38S-48MEO	38	M48 x 2

Tech Sheet 10586

316 STAINLESS STEEL DIN 2353 TUBE FITTINGS

stainless
steel



1



Male Stud Couplings



Stainless Steel 1.4571 Working Temperature:
-60°C to +400°C (DIN 17 440, AD W 10)

Seal Working Temperature:
-20°C to +200°C (FPM e.g. Viton)

L Series, BSPP, Form B Sealing

0291	OD mm	Thread
GE-6L-2RP	6	1/8"
GE-6L-4RP	6	1/4"
GE-6L-6RP	6	3/8"
GE-6L-8RP	6	1/2"
GE-8L-2RP	8	1/8"
GE-8L-4RP	8	1/4"
GE-8L-6RP	8	3/8"
GE-8L-8RP	8	1/2"
GE-10L-2RP	10	1/8"
GE-10L-4RP	10	1/4"
GE-10L-6RP	10	3/8"
GE-10L-8RP	10	1/2"
GE-10L-12RP	10	3/4"
GE-12L-2RP	12	1/8"
GE-12L-4RP	12	1/4"
GE-12L-6RP	12	3/8"
GE-12L-8RP	12	1/2"
GE-12L-12RP	12	3/4"
GE-15L-4RP	15	1/4"
GE-15L-6RP	15	3/8"
GE-15L-8RP	15	1/2"
GE-15L-12RP	15	3/4"
GE-18L-6RP	18	3/8"
GE-18L-8RP	18	1/2"
GE-18L-12RP	18	3/4"
GE-18L-16RP	18	1"
GE-22L-6RP	22	3/8"
GE-22L-8RP	22	1/2"
GE-22L-12RP	22	3/4"
GE-22L-16RP	22	1"
GE-22L-20RP	22	1.1/4"
GE-28L-8RP	28	1/2"
GE-28L-12RP	28	3/4"
GE-28L-16RP	28	1"
GE-28L-20RP	28	1.1/4"
GE-28L-24RP	28	1.1/2"
GE-35L-12RP	35	3/4"
GE-35L-16RP	35	1"
GE-35L-20RP	35	1.1/4"
GE-35L-24RP	35	1.1/2"
GE-42L-16RP	42	1"
GE-42L-20RP	42	1.1/4"
GE-42L-24RP	42	1.1/2"

Tech Sheet 20796

S Series, BSPP, Form B Sealing

0291	OD mm	Thread
GE-6S-2RP	6	1/8"
GE-6S-4RP	6	1/4"
GE-6S-6RP	6	3/8"
GE-6S-8RP	6	1/2"
GE-8S-2RP	8	1/8"
GE-8S-4RP	8	1/4"
GE-8S-6RP	8	3/8"
GE-8S-8RP	8	1/2"
GE-10S-2RP	10	1/8"
GE-10S-4RP	10	1/4"
GE-10S-6RP	10	3/8"
GE-10S-8RP	10	1/2"
GE-10S-12RP	10	3/4"
GE-12S-4RP	12	1/4"
GE-12S-6RP	12	3/8"
GE-12S-8RP	12	1/2"
GE-12S-12RP	12	3/4"
GE-14S-4RP	14	1/4"
GE-14S-6RP	14	3/8"
GE-14S-8RP	14	1/2"
GE-14S-12RP	14	3/4"
GE-16S-4RP	16	1/4"
GE-16S-6RP	16	3/8"
GE-16S-8RP	16	1/2"
GE-16S-12RP	16	3/4"
GE-16S-16RP	16	1"
GE-20S-6RP	20	3/8"
GE-20S-8RP	20	1/2"
GE-20S-12RP	20	3/4"
GE-20S-16RP	20	1"
GE-20S-20RP	20	1.1/4"
GE-25S-8RP	25	1/2"
GE-25S-12RP	25	3/4"
GE-25S-16RP	25	1"
GE-25S-20RP	25	1.1/4"
GE-30S-12RP	30	3/4"
GE-30S-16RP	30	1"
GE-30S-20RP	30	1.1/4"
GE-30S-24RP	30	1.1/2"
GE-38S-16RP	38	1"
GE-38S-20RP	38	1.1/4"
GE-38S-24RP	38	1.1/2"

Tech Sheet 20796

L Series, Metric Parallel, Form B Sealing

0291	OD mm	Thread
GE-6L-10MPB	6	M10 x 1
GE-6L-12MPB	6	M12 x 1.5
GE-6L-14MPB	6	M14 x 1.5
GE-8L-10MPB	8	M10 x 1.0
GE-8L-12MPB	8	M12 x 1.5
GE-8L-14MPB	8	M14 x 1.5
GE-8L-18MPB	8	M18 x 1.5
GE-8L-16MPB	8	M16 x 1.5
GE-10L-10MPB	10	M16 x 1.5
GE-10L-14MPB	10	M14 x 1.5
GE-10L-12MPB	10	M12 x 1.5
GE-10L-16MPB	10	M16 x 1.5
GE-10L-18MPB	10	M18 x 1.5
GE-10L-22MPB	10	M22 x 1.5
GE-12L-14MPB	12	M14 x 1.5
GE-12L-12MPB	12	M12 x 1.5
GE-12L-16MPB	12	M16 x 1.5
GE-12L-18MPB	12	M18 x 1.5
GE-12L-22MPB	12	M22 x 1.5
GE-15L-16MPB	15	M16 x 1.5
GE-15L-18MPB	15	M18 x 1.5
GE-15L-22MPB	15	M22 x 1.5
GE-18L-18MPB	18	M18 x 1.5
GE-18L-22MPB	18	M22 x 1.5
GE-18L-26MPB	18	M26 x 1.5
GE-22L-22MPB	22	M22 x 1.5
GE-22L-26MPB	22	M26 x 1.5
GE-28L-33MPB	28	M33 x 1.5
GE-35L-42MPB	35	M42 x 2
GE-42L-48MPB	42	M48 x 2

Tech Sheet 10587

S Series, Metric Parallel, Form B Sealing

0291	OD mm	Thread
GE-6S-12MPB	6	M12 x 1.5
GE-6S-14MPB	6	M14 x 1.5
GE-8S-14MPB	8	M14 x 1.5
GE-10S-16MPB	10	M16 x 1.5
GE-10S-18MPB	10	M18 x 1.5
GE-12S-14MPB	12	M14 x 1.5
GE-12S-16MPB	12	M16 x 1.5
GE-12S-18MPB	12	M18 x 1.5
GE-12S-22MPB	12	M22 x 1.5
GE-14S-20MPB	14	M20 x 1.5
GE-16S-18MPB	16	M18 x 1.5
GE-16S-22MPB	16	M22 x 1.5
GE-20S-27MPB	20	M27 x 2
GE-25S-33MPB	25	M33 x 2
GE-30S-42MPB	30	M42 x 2
GE-38S-48MPB	38	M48 x 2

Tech Sheet 10587

Rigid Fluid
Conveyance



316 STAINLESS STEEL DIN 2353 TUBE FITTINGS

stainless
steel



Male Stud Couplings

L Series, BSPT

0291	OD mm	Thread
GE-6L-2RT	6	1/8"
GE-6L-4RT	6	1/4"
GE-6L-6RT	6	3/8"
GE-6L-8RT	6	1/2"
GE-8L-2RT	8	1/8"
GE-8L-4RT	8	1/4"
GE-8L-6RT	8	3/8"
GE-8L-8RT	8	1/2"
GE-10L-2RT	10	1/8"
GE-10L-4RT	10	1/4"
GE-10L-6RT	10	3/8"
GE-10L-8RT	10	1/2"
GE-12L-2RT	12	1/8"
GE-12L-4RT	12	1/4"
GE-12L-6RT	12	3/8"
GE-12L-8RT	12	1/2"
GE-12L-12RT	12	3/4"
GE-15L-4RT	15	1/4"
GE-15L-6RT	15	3/8"
GE-15L-8RT	15	1/2"
GE-15L-12RT	15	3/4"
GE-18L-6RT	18	3/8"
GE-18L-8RT	18	1/2"
GE-18L-12RT	18	3/4"
GE-22L-6RT	22	3/8"
GE-22L-8RT	22	1/2"
GE-22L-12RT	22	3/4"
GE-22L-16RT	22	1"
GE-28L-8RT	28	1/2"
GE-28L-12RT	28	3/4"
GE-28L-16RT	28	1"
GE-28L-20RT	28	1.1/4"
GE-35L-16RT	35	1"
GE-35L-20RT	35	1.1/4"
GE-35L-24RT	35	1.1/2"
GE-42L-20RT	42	1.1/4"
GE-42L-24RT	42	1.1/2"

Tech Sheet 10588

S Series, BSPT

0291	OD mm	Thread
GE-6S-2RT	6	1/8"
GE-6S-4RT	6	1/4"
GE-6S-6RT	6	3/8"
GE-8S-2RT	8	1/8"
GE-8S-4RT	8	1/4"
GE-8S-6RT	8	3/8"
GE-10S-4RT	10	1/4"
GE-10S-6RT	10	3/8"
GE-12S-4RT	12	1/4"
GE-12S-6RT	12	3/8"
GE-12S-8RT	12	1/2"
GE-14S-6RT	14	3/8"
GE-14S-8RT	14	1/2"
GE-16S-6RT	16	3/8"
GE-16S-8RT	16	1/2"
GE-16S-12RT	16	3/4"
GE-20S-8RT	20	1/2"
GE-20S-12RT	20	3/4"
GE-25S-12RT	25	3/4"
GE-25S-16RT	25	1"
GE-30S-20RT	30	1.1/4"
GE-38S-24RT	38	1.1/2"

Tech Sheet 10588



L Series, NPT

0291	OD mm	Thread
GE-6L-2N	6	1/8"
GE-6L-4N	6	1/4"
GE-6L-6N	6	3/8"
GE-6L-8N	6	1/2"
GE-8L-2N	8	1/8"
GE-8L-4N	8	1/4"
GE-8L-6N	8	3/8"
GE-8L-8N	8	1/2"
GE-10L-2N	10	1/8"
GE-10L-4N	10	1/4"
GE-10L-6N	10	3/8"
GE-10L-8N	10	1/2"
GE-10L-12N	10	3/4"
GE-12L-2N	12	1/8"
GE-12L-4N	12	1/4"
GE-12L-6N	12	3/8"
GE-12L-8N	12	1/2"
GE-12L-12N	12	3/4"
GE-15L-4N	15	1/4"
GE-15L-6N	15	3/8"
GE-15L-8N	15	1/2"
GE-15L-12N	15	3/4"
GE-18L-6N	18	3/8"
GE-18L-8N	18	1/2"
GE-18L-12N	18	3/4"
GE-18L-16N	18	1"
GE-22L-6N	22	3/8"
GE-22L-8N	22	1/2"
GE-22L-12N	22	3/4"
GE-22L-16N	22	1"
GE-22L-20N	22	1.1/4"
GE-28L-8N	28	1/2"
GE-28L-12N	28	3/4"
GE-28L-16N	28	1"
GE-28L-20N	28	1.1/4"
GE-35L-16N	35	1"
GE-35L-20N	35	1.1/4"
GE-35L-24N	35	1.1/2"
GE-42L-16N	42	1"
GE-42L-20N	42	1.1/4"
GE-42L-24N	42	1.1/2"

Tech Sheet 10589

° Stainless Steel 1.4571 Working Temperature:
-60°C to +400°C (DIN 17 440, AD W 10)

Seal Working Temperature:
-20°C to +200°C (FPM e.g. Viton)

S Series, NPT

0291	OD mm	Thread
GE-6S-2N	6	1/8"
GE-6S-4N	6	1/4"
GE-6S-6N	6	3/8"
GE-6S-8N	6	1/2"
GE-8S-2N	8	1/8"
GE-8S-4N	8	1/4"
GE-8S-6N	8	3/8"
GE-8S-8N	8	1/2"
GE-10S-2N	10	1/8"
GE-10S-4N	10	1/4"
GE-10S-6N	10	3/8"
GE-10S-8N	10	1/2"
GE-10S-12N	10	3/4"
GE-12S-4N	12	1/4"
GE-12S-6N	12	3/8"
GE-12S-8N	12	1/2"
GE-12S-12N	12	3/4"
GE-14S-6N	14	3/8"
GE-14S-8N	14	1/2"
GE-14S-12N	14	3/4"
GE-16S-6N	16	3/8"
GE-16S-8N	16	1/2"
GE-16S-12N	16	3/4"
GE-16S-16N	16	1"
GE-20S-6N	20	3/8"
GE-20S-12N	20	3/4"
GE-20S-16N	20	1"
GE-20S-20N	20	1.1/4"
GE-25S-8N	25	1/2"
GE-25S-12N	25	3/4"
GE-25S-16N	25	1"
GE-25S-20N	25	1.1/4"
GE-30S-12N	30	3/4"
GE-30S-16N	30	1"
GE-30S-20N	30	1.1/4"
GE-30S-24N	30	1.1/2"
GE-38S-16N	38	1"
GE-38S-20N	38	1.1/4"
GE-38S-24N	38	1.1/2"

Tech Sheet 10589

316 STAINLESS STEEL DIN 2353 TUBE FITTINGS

stainless
steel



1



Male Stud Couplings



L Series, UNF, O-Ring Sealing

0291	OD mm	Thread
GE-6L-7/16UNF	6	7/16"
GE-6L-1/2UNF	6	1/2"
GE-6L-9/16UNF	6	9/16"
GE-8L-7/16UNF	8	7/16"
GE-8L-1/2UNF	8	1/2"
GE-8L-9/16UNF	8	9/16"
GE-10L-7/16UNF	10	7/16"
GE-10L-1/2UNF	10	1/2"
GE-10L-9/16UNF	10	9/16"
GE-10L-3/4UNF	10	3/4"
GE-12L-9/16UNF	12	9/16"
GE-12L-3/4UNF	12	3/4"
GE-12L-7/8UNF	12	7/8"
GE-15L-9/16UNF	15	9/16"
GE-15L-3/4UNF	15	3/4"
GE-15L-7/8UNF	15	7/8"
GE-18L-3/4UNF	18	3/4"
GE-18L-7/8UNF	18	7/8"
GE-18L-11/16UNF	18	1.1/16"
GE-22L-3/4UNF	22	3/4"
GE-22L-7/8UNF	22	7/8"
GE-22L-11/16UNF	22	1.1/16"
GE-22L-15/16UNF	22	1.5/16"
GE-28L-11/16UNF	28	1.1/16"
GE-28L-15/16UNF	28	1.5/16"
GE-28L-15/8UNF	28	1.5/8"
GE-35L-15/16UNF	35	1.5/16"
GE-35L-15/8UNF	35	1.5/8"
GE-42L-15/8UNF	42	1.5/8"
GE-42L-17/8UNF	42	1.7/8"

Tech Sheet 20797

S Series, UNF, O-Ring Sealing

0291	OD mm	Thread
GE-6S-7/16UNF	6	7/16"
GE-8S-1/2UNF	8	1/2"
GE-8S-7/16UNF	8	7/16"
GE-8S-9/16UNF	8	9/16"
GE-10S-3/4UNF	10	3/4"
GE-12S-9/16UNF	12	9/16"
GE-12S-3/4UNF	12	3/4"
GE-12S-7/8UNF	12	7/8"
GE-14S-3/4UNF	14	3/4"
GE-16S-3/4UNF	16	3/4"
GE-16S-7/8UNF	16	7/8"
GE-16S-11/16UNF	16	1.1/16"
GE-20S-3/4UNF	20	3/4"
GE-20S-7/8UNF	20	7/8"
GE-20S-11/16UNF	20	1.1/16"
GE-20S-15/16UNF	20	1.5/16"
GE-25S-11/16UNF	25	1.1/16"
GE-25S-15/16UNF	25	1.5/16"
GE-30S-11/16UNF	30	1.1/16"
GE-30S-15/16UNF	30	1.5/16"
GE-30S-15/8UNF	30	1.5/8"
GE-38S-15/8UNF	38	1.5/8"
GE-38S-17/8UNF	38	1.7/8"

Female Stud Couplings



L Series, BSPP

0291	OD mm	Thread
GAI-6L-2RG	6	1/8"
GAI-6L-4RG	6	1/4"
GAI-6L-6RG	6	3/8"
GAI-6L-8RG	6	1/2"
GAI-8L-2RG	8	1/8"
GAI-8L-4RG	8	1/4"
GAI-8L-6RG	8	3/8"
GAI-8L-8RG	8	1/2"
GAI-10L-2RG	10	1/8"
GAI-10L-4RG	10	1/4"
GAI-10L-6RG	10	3/8"
GAI-10L-8RG	10	1/2"
GAI-12L-4RG	12	1/4"
GAI-12L-6RG	12	3/8"
GAI-12L-8RG	12	1/2"
GAI-15L-6RG	15	3/8"
GAI-15L-8RG	15	1/2"
GAI-15L-12RG	15	3/4"
GAI-18L-6RG	18	3/8"
GAI-18L-8RG	18	1/2"
GAI-18L-12RG	18	3/4"
GAI-22L-8RG	22	1/2"
GAI-22L-12RG	22	3/4"
GAI-28L-16RG	28	1"
GAI-35L-20RG	35	1.1/4"
GAI-42L-24RG	42	1.1/2"

Tech Sheet 10590

S Series, BSPP

0291	OD mm	Thread
GAI-6S-4RG	6	1/4"
GAI-8S-4RG	8	1/4"
GAI-8S-6RG	8	3/8"
GAI-8S-8RG	8	1/2"
GAI-10S-6RG	10	3/8"
GAI-10S-8RG	10	1/2"
GAI-12S-4RG	12	1/4"
GAI-12S-6RG	12	3/8"
GAI-12S-8RG	12	1/2"
GAI-14S-6RG	14	3/8"
GAI-14S-8RG	14	1/2"
GAI-16S-6RG	16	3/8"
GAI-16S-8RG	16	1/2"
GAI-20S-8RG	20	1/2"
GAI-20S-12RG	20	3/4"
GAI-25S-12RG	25	3/4"
GAI-25S-16RG	25	1"
GAI-30S-20RG	30	1.1/4"
GAI-38S-24RG	38	1.1/2"

° Stainless Steel 1.4571 Working Temperature:
-60°C to +400°C (DIN 17 440, AD W 10)

Seal Working Temperature:
-20°C to +200°C (FPM e.g. Viton)

L Series, NPT

0291	OD mm	Thread
GAI-6L-2N	6	1/8"
GAI-6L-4N	6	1/4"
GAI-8L-4N	8	1/4"
GAI-10L-4N	10	1/4"
GAI-10L-6N	10	3/8"
GAI-10L-8N	10	1/2"
GAI-12L-4N	12	1/4"
GAI-12L-6N	12	3/8"
GAI-12L-8N	12	1/2"
GAI-15L-8N	15	1/2"
GAI-18L-8N	18	1/2"
GAI-22L-12N	22	3/4"
GAI-28L-16N	28	1"
GAI-35L-20N	35	1.1/4"
GAI-42L-24N	42	1.1/2"

S Series, NPT

0291	OD mm	Thread
GAI-6S-4N	6	1/4"
GAI-8S-4N	8	1/4"
GAI-10S-6N	10	3/8"
GAI-12S-6N	12	3/8"
GAI-12S-8N	12	1/2"
GAI-14S-8N	14	1/2"
GAI-16S-6N	16	3/8"
GAI-16S-8N	16	1/2"
GAI-20S-12N	20	3/4"
GAI-25S-16N	25	1"
GAI-30S-20N	30	1.1/4"
GAI-38S-24N	38	1.1/2"

Rigid Fluid
Conveyance



316 STAINLESS STEEL DIN 2353 TUBE FITTINGS

Straight Stud Standpipes



° Stainless Steel 1.4571 Working Temperature:
-60°C to +400°C (DIN 17 440, AD W 10)
Seal Working Temperature:
-20°C to +200°C (FPM e.g. Viton)

L Series, BSPP (Captive Seal)

0291	OD mm	Thread
EVGE-6L-2EO	6	1/8"
EVGE-8L-4EO	8	1/4"
EVGE-8L-6EO	8	3/8"
EVGE-10L-4EO	10	1/4"
EVGE-10L-6EO	10	3/8"
EVGE-10L-8EO	10	1/2"
EVGE-12L-4EO	12	1/4"
EVGE-12L-6EO	12	3/8"
EVGE-12L-8EO	12	1/2"
EVGE-15L-6EO	15	3/8"
EVGE-15L-8EO	15	1/2"
EVGE-18L-6EO	18	3/8"
EVGE-18L-8EO	18	1/2"
EVGE-18L-12EO	18	3/4"
EVGE-22L-6EO	22	3/8"
EVGE-22L-8EO	22	1/2"
EVGE-22L-12EO	22	3/4"
EVGE-28L-12EO	28	3/4"
EVGE-28L-16EO	28	1"
EVGE-35L-20EO	35	1.1/4"
EVGE-42L-24EO	42	1.1/2"

Tech Sheet 10591

S Series, BSPP (Captive Seal)

0291	OD mm	Thread
EVGE-6S-2EO	6	1/8"
EVGE-6S-4EO	6	1/4"
EVGE-8S-4EO	8	1/4"
EVGE-8S-6EO	8	3/8"
EVGE-10S-4EO	10	1/4"
EVGE-10S-6EO	10	3/8"
EVGE-10S-8EO	10	1/2"
EVGE-12S-4EO	12	1/4"
EVGE-12S-6EO	12	3/8"
EVGE-12S-8EO	12	1/2"
EVGE-14S-8EO	14	1/2"
EVGE-16S-6EO	16	3/8"
EVGE-16S-8EO	16	1/2"
EVGE-16S-12EO	16	3/4"
EVGE-20S-8EO	20	1/2"
EVGE-20S-12EO	20	3/4"
EVGE-25S-12EO	25	3/4"
EVGE-25S-16EO	25	1"
EVGE-30S-20EO	30	1.1/4"
EVGE-38S-24EO	38	1.1/2"

Tech Sheet 10591

L Series, Metric Parallel (Captive Seal)

0291	OD mm	Thread
EVGE-6L-10MEO	6	M10 x 1
EVGE-8L-12MEO	8	M12 x 1.5
EVGE-10L-14MEO	10	M14 x 1.5
EVGE-15L-18MEO	15	M18 x 1.5
EVGE-18L-22MEO	18	M22 x 1.5
EVGE-22L-26MEO	22	M26 x 1.5
EVGE-28L-33MEO	28	M33 x 2
EVGE-35L-42MEO	35	M42 x 2
EVGE-42L-48MEO	42	M48 x 2

Tech Sheet 10592

S Series, Metric Parallel (Captive Seal)

0291	OD mm	Thread
EVGE-6S-12MEO	6	M12 x 1.5
EVGE-8S-14MEO	8	M14 x 1.5
EVGE-10S-16MEO	10	M16 x 1.5
EVGE-12S-18MEO	12	M18 x 1.5
EVGE-14S-20MEO	14	M20 x 1.5
EVGE-16S-22MEO	16	M22 x 1.5
EVGE-20S-27MEO	20	M27 x 2
EVGE-30S-42MEO	30	M42 x 2
EVGE-38S-48MEO	38	M48 x 2

Tech Sheet 10592

stainless
steel



Reducing Adaptors



Male x Female, BSPP

0291	OD mm	Thread
GRI-2-4RG	1/8"	1/4"
GRI-2-6RG	1/8"	3/8"
GRI-4-2RG	1/4"	1/8"
GRI-4-6RG	1/4"	3/8"
GRI-4-8RG	1/4"	1/2"
GRI-4-12RG	1/4"	3/4"
GRI-6-4RG	3/8"	1/4"
GRI-6-8RG	3/8"	1/2"
GRI-6-12RG	3/8"	3/4"
GRI-6-16RG	3/8"	1"
GRI-8-6RG	1/2"	3/8"
GRI-8-12RG	1/2"	3/4"
GRI-8-16RG	1/2"	1"
GRI-8-20RG	1/2"	1.1/4"
GRI-12-8RG	3/4"	1/2"
GRI-12-16RG	3/4"	1"
GRI-12-20RG	3/4"	1.1/4"
GRI-12-24RG	3/4"	1.1/2"
GRI-16-12RG	1"	3/4"
GRI-16-20RG	1"	1.1/4"
GRI-16-24RG	1"	1.1/2"
GRI-20-16RG	1.1/4"	1"
GRI-24-20RG	1.1/2"	1.1/4"
GRI-20-24RG	1.1/4"	1.1/2"

Tech Sheet 10593

Reducing Bush



Male x Female, BSPP

0291	OD mm	Thread
GRI-6-2RG	3/8"	1/8"
GRI-8-2RG	1/2"	1/8"
GRI-8-4RG	1/2"	1/4"
GRI-12-2RG	3/4"	1/8"
GRI-12-4RG	3/4"	1/4"
GRI-12-6RG	3/4"	3/8"
GRI-16-4RG	1"	1/4"
GRI-16-6RG	1"	3/8"
GRI-16-8RG	1"	1/2"
GRI-20-6RG	1.1/4"	3/8"
GRI-20-8RG	1.1/4"	1/2"
GRI-20-12RG	1.1/4"	3/4"
GRI-24-8RG	1.1/2"	1/2"
GRI-24-12RG	1.1/2"	3/4"
GRI-24-16RG	1.1/2"	1"
GRI-32-8RG	2"	1/2"
GRI-32-12RG	2"	3/4"
GRI-32-16RG	2"	1"
GRI-32-20RG	2"	1.1/4"
GRI-32-24RG	2"	1.1/2"

Tech Sheet 10593

316 STAINLESS STEEL DIN 2353 TUBE FITTINGS

stainless
steel



1



Adjustable Branch Tees

- ° Stainless Steel 1.4571 Working Temperature:
-60°C to +400°C (DIN 17 440, AD W 10)
- Seal Working Temperature:
-20°C to +200°C (FPM e.g. Viton)



L Series, Metric, Female Thread

0291	OD mm	Thread
EVT-6L	6	M12 x 1.5
EVT-8L	8	M14 x 1.5
EVT-10L	10	M16 x 1.5
EVT-12L	12	M18 x 1.5
EVT-15L	15	M22 x 1.5
EVT-18L	18	M26 x 1.5
EVT-22L	22	M30 x 2
EVT-28L	28	M36 x 2
EVT-35L	35	M45 x 2
EVT-42L	42	M52 x 2

Tech Sheet 10594

S Series, Metric, Female Thread

0291	OD mm	Thread
EVT-6S	6	M14 x 1.5
EVT-8S	8	M16 x 1.5
EVT-10S	10	M18 x 1.5
EVT-12S	12	M20 x 1.5
EVT-14S	14	M22 x 1.5
EVT-16S	16	M24 x 1.5
EVT-20S	20	M30 x 2
EVT-25S	25	M36 x 2
EVT-30S	30	M42 x 2
EVT-38S	38	M52 x 2

Tech Sheet 10594



L Series, BSPP, Male Thread

0291	OD mm	Thread
EVT-6L-2RP	6	1/8"
EVT-8L-4RP	8	1/4"
EVT-10L-4RP	10	1/4"
EVT-12L-6RP	12	3/8"
EVT-15L-8RP	15	1/2"
EVT-18L-8RP	18	1/2"
EVT-22L-12RP	22	3/4"
EVT-28L-16RP	28	1"

Tech Sheet 10595

S Series, BSPP, Male Thread

0291	OD mm	Thread
EVT-6S-4RP	6	1/4"
EVT-8S-4RP	8	1/4"
EVT-10S-6RP	10	3/8"
EVT-12S-6RP	12	3/8"
EVT-12S-8RP	12	1/2"
EVT-14S-8RP	14	1/2"
EVT-16S-8RP	16	1/2"
EVT-20S-12RP	20	3/4"
EVT-25S-16RP	25	1"

Tech Sheet 10595



L Series, Metric, Male Thread

0291	OD mm	Thread
EVT-6L-10MPB	6	M10 x 1
EVT-8L-12MPB	8	M12 x 1.5
EVT-10L-14MPB	10	M14 x 1.5
EVT-12L-16MPB	12	M16 x 1.5
EVT-15L-18MPB	15	M18 x 1.5
EVT-18L-22MPB	18	M22 x 1.5
EVT-22L-26MPB	22	M15 x 1.5
EVT-28L-33MPB	28	M33 x 2

Tech Sheet 10596

S Series, Metric, Male Thread

0291	OD mm	Thread
EVT-6S-12MPB	6	M12 x 1.5
EVT-8S-14MPB	8	M14 x 1.5
EVT-10S-16MPB	10	M16 x 1.5
EVT-12S-18MPB	12	M18 x 1.5
EVT-14S-20MPB	14	M20 x 1.5
EVT-16S-22MPB	16	M22 x 1.5
EVT-20S-27MPB	20	M27 x 2
EVT-25S-33MPB	25	M33 x 2

Tech Sheet 10596

Rigid Fluid
Conveyance



stainless
steel



For **Stainless Steel Tubing**
see page **70**

316 STAINLESS STEEL DIN 2353 TUBE FITTINGS

stainless
steel



Adjustable Run Tees

° Stainless Steel 1.4571 Working Temperature:
-60°C to +400°C (DIN 17 440, AD W 10)

Seal Working Temperature:
-20°C to +200°C (FPM e.g. Viton)



L Series, Metric, Female Thread

0291	OD mm	Thread
EVL-6L	6	M12 x 1.5
EVL-8L	8	M14 x 1.5
EVL-10L	10	M16 x 1.5
EVL-12L	12	M18 x 1.5
EVL-15L	15	M22 x 1.5
EVL-18L	18	M26 x 1.5
EVL-22L	22	M30 x 2
EVL-28L	28	M36 x 2
EVL-35L	35	M45 x 2
EVL-42L	42	M52 x 2

Tech Sheet 10597

S Series, Metric, Female Thread

0291	OD mm	Thread
EVL-6S	6	M14 x 1.5
EVL-8S	8	M16 x 1.5
EVL-10S	10	M18 x 1.5
EVL-12S	12	M20 x 1.5
EVL-14S	14	M22 x 1.5
EVL-16S	16	M24 x 1.5
EVL-20S	20	M30 x 2
EVL-25S	25	M36 x 2
EVL-30S	30	M42 x 2
EVL-38S	38	M52 x 2

Tech Sheet 10597

L Series, BSPP, Male Thread

0291	OD mm	Thread
EVL-6L-2RP	6	1/8"
EVL-8L-4RP	8	1/4"
EVL-10L-4RP	10	1/4"
EVL-12L-6RP	12	3/8"
EVL-15L-8RP	15	1/2"
EVL-18L-8RP	18	1/2"
EVL-22L-12RP	22	3/4"
EVL-28L-16RP	28	1"

Tech Sheet 10598

S Series, BSPP, Male Thread

0291	OD mm	Thread
EVL-6S-4RP	6	1/4"
EVL-8S-4RP	8	1/4"
EVL-10S-6RP	10	3/8"
EVL-12S-6RP	12	3/8"
EVL-12S-8RP	12	1/2"
EVL-14S-8RP	14	1/2"
EVL-16S-8RP	16	1/2"
EVL-20S-12RP	20	3/4"
EVL-25S-16RP	25	1"

Tech Sheet 10598

L Series, Metric, Male Thread

0291	OD mm	Thread
EVL-6L-10MPB	6	M10 x 1
EVL-8L-12MPB	8	M12 x 1.5
EVL-10L-14MPB	10	M14 x 1.5
EVL-12L-16MPB	12	M16 x 1.5
EVL-15L-18MPB	15	M18 x 1.5
EVL-18L-22MPB	18	M22 x 1.5
EVL-22L-26MPB	22	M26 x 1.5
EVL-28L-33MPB	28	M33 x 2

Tech Sheet 10599

S Series, Metric, Male Thread

0291	OD mm	Thread
EVL-6S-12MPB	6	M12 x 1.5
EVL-8S-14MPB	8	M14 x 1.5
EVL-10S-16MPB	10	M16 x 1.5
EVL-12S-18MPB	12	M18 x 1.5
EVL-14S-20MPB	14	M20 x 1.5
EVL-16S-22MPB	16	M22 x 1.5
EVL-20S-27MPB	20	M27 x 2
EVL-25S-33MPB	25	M33 x 2

Tech Sheet 10599

316 STAINLESS STEEL DIN 2353 TUBE FITTINGS

Male Stud Elbows



° Stainless Steel 1.4571 Working Temperature:
-60°C to +400°C (DIN 17 440, AD W 10)
Seal Working Temperature:
-20°C to +200°C (FPM e.g. Viton)

L Series, BSPT

0291	OD mm	Thread
WE6L-2RT	6	1/8"
WE6L-4RT	6	1/4"
WE6L-6RT	6	3/8"
WE6L-8RT	6	1/2"
WE8L-2RT	8	1/8"
WE8L-4RT	8	1/4"
WE8L-6RT	8	3/8"
WE8L-8RT	8	1/2"
WE10L-2RT	10	1/8"
WE10L-4RT	10	1/4"
WE10L-6RT	10	3/8"
WE10L-8RT	10	1/2"
WE12L-2RT	12	1/8"
WE12L-4RT	12	1/4"
WE12L-6RT	12	3/8"
WE12L-8RT	12	1/2"
WE15L-4RT	15	1/4"
WE15L-6RT	15	3/8"
WE15L-8RT	15	1/2"
WE15L-12RT	15	3/4"
WE18L-6RT	18	3/8"
WE18L-8RT	18	1/2"
WE18L-12RT	18	3/4"
WE22L-8RT	22	1/2"
WE22L-12RT	22	3/4"
WE28L-16RT	28	1"
WE35L-20RT	35	1.1/4"

Tech Sheet 10600

S Series, BSPT

0291	OD mm	Thread
WE6S-2RT	6	1/8"
WE6S-4RT	6	1/4"
WE6S-6RT	6	3/8"
WE6S-8RT	6	1/2"
WE8S-4RT	8	1/4"
WE8S-6RT	8	3/8"
WE8S-8RT	8	1/2"
WE10S-4RT	10	1/4"
WE10S-6RT	10	3/8"
WE10S-8RT	10	1/2"
WE12S-4RT	12	1/4"
WE12S-6RT	12	3/8"
WE12S-8RT	12	1/2"
WE14S-6RT	14	3/8"
WE14S-8RT	14	1/2"
WE16S-6RT	16	3/8"
WE16S-8RT	16	1/2"
WE16S-12RT	16	3/4"
WE20S-8RT	20	1/2"
WE20S-12RT	20	3/4"

Tech Sheet 10600

L Series, NPT

0291	OD mm	Thread
WE6L-2N	6	1/8"
WE6L-4N	6	1/4"
WE6L-6N	6	3/8"
WE6L-8N	6	1/2"
WE8L-2N	8	1/8"
WE8L-4N	8	1/4"
WE8L-6N	8	3/8"
WE8L-8N	8	1/2"
WE10L-2N	10	1/8"
WE10L-4N	10	1/4"
WE10L-8N	10	1/2"
WE12L-4N	12	1/4"
WE12L-6N	12	3/8"
WE12L-8N	12	1/2"
WE15L-6N	15	3/8"
WE15L-8N	15	1/2"
WE15L-12N	15	3/4"
WE18L-6N	18	3/8"
WE18L-8N	18	1/2"
WE18L-12N	18	3/4"
WE22L-8N	22	1/2"
WE22L-12N	22	3/4"
WE28L-12N	28	3/4"
WE28L-16N	28	1"
WE35L-20N	35	1.1/4"
WE42L-24N	42	1.1/2"

Tech Sheet 10601

S Series, NPT

0291	OD mm	Thread
WE6S-4N	6	1/4"
WE6S-6N	6	3/8"
WE6S-8N	6	1/2"
WE8S-4N	8	1/4"
WE8S-6N	8	3/8"
WE8S-8N	8	1/2"
WE10S-4N	8	1/4"
WE10S-6N	10	3/8"
WE10S-8N	10	1/2"
WE12S-4N	12	1/4"
WE12S-6N	12	3/8"
WE12S-8N	12	1/2"
WE14S-6N	14	3/8"
WE14S-8N	14	1/2"
WE16S-6N	16	3/8"
WE16S-8N	16	1/2"
WE16S-12N	16	3/4"
WE20S-8N	20	1/2"
WE20S-12N	20	3/4"
WE25S-16N	25	1"
WE30S-20N	30	1.1/4"
WE38S-24N	38	1.1/2"

Tech Sheet 10601

stainless
steel



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Adjustable Elbows



L Series, Metric, Male Thread

0291	OD mm	Thread
EVW-6L-10MPB	6	M10 x 1
EVW-8L-12MPB	8	M12 x 1.5
EVW-10L-14MPB	10	M14 x 1.5
EVW-12L-16MPB	12	M16 x 1.5
EVW-15L-18MPB	15	M18 x 1.5
EVW-18L-22MPB	18	M22 x 1.5
EVW-22L-26MPB	22	M26 x 1.5
EVW-28L-33MPB	28	M33 x 2

Tech Sheet 10603

S Series, Metric, Male Thread

0291	OD mm	Thread
EVW-6S-12MPB	6	M12 x 1.5
EVW-8S-14MPB	8	M14 x 1.5
EVW-10S-16MPB	10	M16 x 1.5
EVW-12S-18MPB	12	M18 x 1.5
EVW-14S-20MPB	14	M20 x 1.5
EVW-16S-22MPB	16	M22 x 1.5
EVW-20S-27MPB	20	M27 x 2
EVW-25S-33MPB	25	M33 x 2

Tech Sheet 10603

L Series, BSPP, Metric, Male Thread

0291	OD mm	Thread
EVW-6L-2RP	6	1/8"
EVW-8L-4RP	8	1/4"
EVW-10L-4RP	10	1/4"
EVW-12L-6RP	12	3/8"
EVW-15L-8RP	15	1/2"
EVW-18L-8RP	18	1/2"
EVW-22L-12RP	22	3/4"
EVW-28L-16RP	28	1"

Tech Sheet 10604

S Series, BSPP, Metric, Male Thread

0291	OD mm	Thread
EVW-6D-4RP	6	1/4"
EVW-8S-4RP	8	1/4"
EVW-10S-6RP	10	3/8"
EVW-12S-6RP	12	3/8"
EVW-12S-8RP	12	1/2"
EVW-14S-8RP	14	1/2"
EVW-16S-12RP	16	3/4"
EVW-20S-12RP	20	3/4"
EVW-25S-16RP	25	1"

Tech Sheet 10604

Rigid Fluid
Conveyance



316 STAINLESS STEEL DIN 2353 TUBE FITTINGS

stainless
steel



Adjustable Elbows



L Series, Metric, Female Thread

0291	OD mm	Thread
EVW-6L	6	M12 x 1.5
EVW-8L	8	M14 x 1.5
EVW-10L	10	M16 x 1.5
EVW-12L	12	M18 x 1.5
EVW-15L	15	M22 x 1.5
EVW-18L	18	M26 x 1.5
EVW-22L	22	M30 x 2
EVW-28L	28	M36 x 2
EVW-35L	35	M45 x 2
EVW-42L	42	M52 x 2

Tech Sheet 10602

S Series, Metric, Female Thread

0291	OD mm	Thread
EVW-6S	6	M14 x 1.5
EVW-8S	8	M16 x 1.5
EVW-10S	10	M18 x 1.5
EVW-12S	12	M20 x 1.5
EVW-14S	14	M22 x 1.5
EVW-16S	16	M24 x 1.5
EVW-20S	20	M30 x 2
EVW-25S	25	M36 x 2
EVW-30S	30	M42 x 2
EVW-38S	38	M52 x 2

Tech Sheet 10602

Straights



L Series

0291	OD mm
G6-UL	6
G8-UL	8
G10-UL	10
G12-UL	12
G15-UL	15
G18-UL	18
G22-UL	22
G28-UL	28
G35-UL	35
G42-UL	42

Tech Sheet 10605

S Series

0291	OD mm
G6-US	6
G8-US	8
G10-US	10
G12-US	12
G14-US	14
G16-US	16
G20-US	20
G25-US	25
G30-US	30
G38-US	38

Tech Sheet 10605

Straight Reducers



° Stainless Steel 1.4571 Working Temperature:
-60°C to +400°C (DIN 17 440, AD W 10)

Seal Working Temperature:
-20°C to +200°C (FPM e.g. Viton)

L Series

0291	OD mm	OD mm
GR-8L-6L	8	6
GR-10L-6L	10	6
GR-10L-8L	10	8
GR-12L-6L	12	6
GR-12L-8L	12	8
GR-12L-10L	12	10
GR-15L-6L	15	6
GR-15L-8L	15	8
GR-15L-10L	15	10
GR-15L-12L	15	12
GR-18L-8L	18	8
GR-18L-10L	18	10
GR-18L-12L	18	12
GR-18L-15L	18	15
GR-22L-8L	22	8
GR-22L-10L	22	10
GR-22L-12L	22	12
GR-22L-15L	22	15
GR-22L-18L	22	18
GR-28L-10L	28	10
GR-28L-12L	28	12
GR-28L-15L	28	15
GR-28L-18L	28	18
GR-28L-22L	28	22
GR-35L-15L	35	15
GR-35L-18L	35	18
GR-35L-22L	35	22
GR-35L-28L	35	28
GR-42L-15L	42	15
GR-42L-18L	42	18
GR-42L-22L	42	22
GR-42L-28L	42	28
GR-42L-35L	42	35

Tech Sheet 10606

S Series

0291	OD mm	OD mm
GR-8S-6S	8	6
GR-10S-6S	10	6
GR-10S-8S	10	8
GR-12S-6S	12	6
GR-12S-8S	12	8
GR-12S-10S	12	10
GR-14S-6S	14	6
GR-14S-8S	14	8
GR-14S-10S	14	10
GR-14S-12S	14	12
GR-16S-6S	16	6
GR-16S-8S	16	8
GR-16S-10S	16	10
GR-16S-12S	16	12
GR-16S-14S	16	14
GR-20S-6S	20	6
GR-20S-8S	20	8
GR-20S-10S	20	10
GR-20S-12S	20	12
GR-20S-14S	20	14
GR-20S-16S	20	16
GR-25S-8S	25	8
GR-25S-10S	25	10
GR-25S-12S	25	12
GR-25S-14S	25	14
GR-25S-16S	25	16
GR-25S-20S	25	20
GR-30S-10S	30	10
GR-30S-12S	30	12
GR-30S-14S	30	14
GR-30S-16S	30	16
GR-30S-20S	30	20
GR-30S-25S	30	25
GR-38S-10S	38	10
GR-38S-12S	38	12
GR-38S-14S	38	14
GR-38S-16S	38	16
GR-38S-20S	38	20
GR-38S-25S	38	25
GR-38S-30S	38	30

Tech Sheet 10606



316 STAINLESS STEEL DIN 2353 TUBE FITTINGS

stainless
steel



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90° Compact Adjustable Elbows

° Stainless Steel 1.4571 Working Temperature:
-60°C to +400°C (DIN 17 440, AD W 10)
Seal Temperature Range:
-20°C to +200°C (FPM, e.g. Viton)



L Series, Metric, BSPP Male Thread with Viton O-Ring

0291	OD mm	Thread
WEEV-06L-1/8	6	1/8"
WEEV-08L-1/4	8	1/4"
WEEV-10L-1/4	10	1/4"
WEEV-12L-3/8	12	3/8"
WEEV-15L-1/2	15	1/2"
WEEV-18L-1/2	18	1/2"
WEEV-22L-3/4	22	3/4"
WEEV-28L-1	28	1"
WEEV-35L-114	35	1.1/4"

Tech Sheet 67962

45° Adjustable Elbows



L Series, Metric, BSPP Female Thread with Viton O-Ring

0291	OD mm	Thread
EV-DKOL-06	6	M12 x 1.5
EV-DKOL-08	8	M14 x 1.5
EV-DKOL-10	10	M16 x 1.5
EV-DKOL-12	12	M18 x 1.5
EV-DKOL-15	15	M22 x 1.5
EV-DKOL-18	18	M26 x 1.5
EV-DKOL-22	22	M30 x 2
EV-DKOL-28	28	M36 x 2
EV-DKOL-35	35	M45 x 2
EV-DKOL-42	42	M52 x 2

Tech Sheet 67963

Soft Sealed Cutting Ring



L Series Sealing Ring with Viton Seal

0291	OD mm
ES4-L-06-WD	6
ES4-L-08-WD	8
ES4-L-10-WD	10
ES4-L-12-WD	12
ES4-L-15-WD	15
ES4-L-18-WD	18
ES4-L-22-WD	22
ES4-L-28-WD	28
ES4-L-35-WD	35
ES4-L-42-WD	42

Tech Sheet 67964

S Series Sealing Ring with Viton Seal

0291	OD mm
ES4-S-06-WD	6
ES4-S-08-WD	8
ES4-S-10-WD	10
ES4-S-12-WD	12
ES4-S-14-WD	14
ES4-S-16-WD	16
ES4-S-20-WD	20
ES4-S-25-WD	25
ES4-S-30-WD	30
ES4-S-38-WD	38

Tech Sheet 67964

stainless
steel



For **Stainless Steel Tubing**
see page 70

Rigid Fluid
Conveyance



316 STAINLESS STEEL DIN 2353 TUBE FITTINGS

stainless
steel



- ° Stainless Steel 1.4571 Working Temperature:
-60°C to +400°C (DIN 17 440, AD W 10)
Seal Working Temperature:
-20°C to +200°C (FPM e.g. Viton)

Rigid Fluid
Conveyance

Equal Elbows



L Series

0291	OD mm
W6-UEL	6
W8-UEL	8
W10-UEL	10
W12-UEL	12
W15-UEL	15
W18-UEL	18
W22-UEL	22
W28-UEL	28
W35-UEL	35
W42-UEL	42
Tech Sheet 10607	

S Series

0291	OD mm
W6-UES	6
W8-UES	8
W10-UES	10
W12-UES	12
W14-UES	14
W16-UES	16
W20-UES	20
W25-UES	25
W30-UES	30
W38-UES	38
Tech Sheet 10607	

Equal Tees



L Series

0291	OD mm
T6-UTL	6
T8-UTL	8
T10-UTL	10
T12-UTL	12
T15-UTL	15
T18-UTL	18
T22-UTL	22
T28-UTL	28
T35-UTL	35
T42-UTL	42
Tech Sheet 10608	

S Series

0291	OD mm
T6-UTS	6
T8-UTS	8
T10-UTS	10
T12-UTS	12
T14-UTS	14
T16-UTS	16
T20-UTS	20
T25-UTS	25
T30-UTS	30
T38-UTS	38
Tech Sheet 10608	

Equal Crosses



L Series

0291	OD mm
K6-UCL	6
K8-UCL	8
K10-UCL	10
K12-UCL	12
K15-UCL	15
K18-UCL	18
K22-UCL	22
K28-UCL	28
K35-UCL	35
K42-UCL	42
Tech Sheet 10609	

S Series

0291	OD mm
K6-UCS	6
K8-UCS	8
K10-UCS	10
K12-UCS	12
K14-UCS	14
K16-UCS	16
K20-UCS	20
K25-UCS	25
K30-UCS	30
K38-UCS	38
Tech Sheet 10609	

stainless
steel

For Stainless Steel Gauges
see page 275



316 STAINLESS STEEL DIN 2353 TUBE FITTINGS

Reducing Standpipes



° Stainless Steel 1.4571 Working Temperature:
-60°C to +400°C (DIN 17 440, AD W 10)

Seal Working Temperature:
-20°C to +200°C (FPM e.g. Viton)

L Series

0291	OD mm	OD mm
KOR-8L-6L	8	6
KOR-10L-6L	10	6
KOR-10L-8L	10	8
KOR-12L-6L	12	6
KOR-12L-8L	12	8
KOR-12L-10L	12	10
KOR-15L-6L	15	6
KOR-15L-8L	15	8
KOR-15L-10L	15	10
KOR-15L-12L	15	12
KOR-18L-6L	18	6
KOR-18L-8L	18	8
KOR-18L-10L	18	10
KOR-18L-12L	18	12
KOR-18L-15L	18	15
KOR-22L-6L	22	6
KOR-22L-8L	22	8
KOR-22L-10L	22	10
KOR-22L-12L	22	12
KOR-22L-15L	22	15
KOR-22L-18L	22	18
KOR-28L-6L	28	6
KOR-28L-8L	28	8
KOR-28L-10L	28	10
KOR-28L-12L	28	12
KOR-28L-15L	28	15
KOR-28L-18L	28	18
KOR-28L-22L	28	22
KOR-35L-6L	35	6
KOR-35L-8L	35	8
KOR-35L-10L	35	10
KOR-35L-12L	35	12
KOR-35L-15L	35	15
KOR-35L-18L	35	18
KOR-35L-22L	35	22
KOR-35L-28L	35	28
KOR-42L-10L	42	10
KOR-42L-12L	42	12
KOR-42L-15L	42	15
KOR-42L-18L	42	18
KOR-42L-22L	42	22
KOR-42L-28L	42	28
KOR-42L-35L	42	35

Tech Sheet 10610

S Series

0291	OD mm	OD mm
KOR-8S-6S	8	6
KOR-10S-6S	10	6
KOR-10S-8S	10	8
KOR-12S-6S	12	6
KOR-12S-8S	12	8
KOR-12S-10S	12	10
KOR-14S-6S	14	6
KOR-14S-8S	14	8
KOR-14S-10S	14	10
KOR-14S-12S	14	12
KOR-16S-6S	16	6
KOR-16S-8S	16	8
KOR-16S-10S	16	10
KOR-16S-12S	16	12
KOR-16S-14S	16	14
KOR-20S-6S	20	6
KOR-20S-8S	20	8
KOR-20S-10S	20	10
KOR-20S-12S	20	12
KOR-20S-14S	20	14
KOR-20S-16S	20	16
KOR-25S-6S	25	6
KOR-25S-8S	25	8
KOR-25S-10S	25	10
KOR-25S-12S	25	12
KOR-25S-14S	25	14
KOR-25S-16S	25	16
KOR-25S-20S	25	20
KOR-30S-6S	30	6
KOR-30S-8S	30	8
KOR-30S-10S	30	10
KOR-30S-12S	30	12
KOR-30S-14S	30	14
KOR-30S-16S	30	16
KOR-30S-20S	30	20
KOR-30S-25S	30	25
KOR-38S-6S	38	6
KOR-38S-8S	38	8
KOR-38S-10S	38	10
KOR-38S-12S	38	12
KOR-38S-14S	38	14
KOR-38S-16S	38	16
KOR-38S-20S	38	20
KOR-38S-25S	38	25
KOR-38S-30S	38	30

Tech Sheet 10610

stainless
steel



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stainless
steel



For **Stainless Steel Tube**
see page 70

Rigid Fluid
Conveyance



316 STAINLESS STEEL DIN 2353 TUBE FITTINGS

Tee Reducers



° Stainless Steel 1.4571 Working Temperature:
-60°C to +400°C (DIN 17 440, AD W 10)

Seal Working Temperature:
-20°C to +200°C (FPM e.g. Viton)

L Series

0291	OD A mm	OD B mm	OD C mm
TR-6-8-6L	6	8	6
TR-6-10-6L	6	10	6
TR-8-6-8L	8	6	8
TR-8-10-8L	8	10	8
TR-8-12-8L	8	12	8
TR-10-6-10L	10	6	10
TR-10-8-10L	10	8	10
TR-10-10-6L	10	10	6
TR-10-12-10L	10	12	10
TR-10-15-10L	10	15	10
TR-12-6-12L	12	6	12
TR-12-8-8L	12	8	8
TR-12-8-12L	12	8	12
TR-12-10-10L	12	10	10
TR-12-10-12L	12	10	12
TR-12-12-10L	12	12	10
TR-12-15-12L	12	15	12
TR-12-18-12L	12	18	12
TR-15-6-15L	15	6	15
TR-15-10-15L	15	10	15
TR-15-12-12L	15	12	12
TR-15-12-15L	15	12	15
TR-15-15-12L	15	15	12
TR-18-10-10L	18	10	10
TR-18-10-18L	18	10	18
TR-18-12-18L	18	12	18
TR-18-15-18L	18	15	18
TR-18-18-10L	18	18	10
TR-22-10-22L	22	10	22
TR-22-12-22L	22	12	22
TR-22-15-15L	22	15	15
TR-22-15-22L	22	15	22
TR-22-18-18L	22	18	18
TR-22-18-22L	22	18	22
TR-22-22-18L	22	22	18
TR-28-10-28L	28	10	28
TR-28-12-28L	28	12	28
TR-28-15-28L	28	15	28
TR-28-18-28L	28	18	28
TR-28-22-22L	28	22	22
TR-28-22-28L	28	22	28
TR-28-35-28L	28	35	28
TR-35-12-35L	35	12	35
TR-35-15-35L	35	15	35
TR-35-18-35L	35	18	35
TR-35-22-35L	35	22	35
TR-35-28-35L	35	28	35
TR-35-42-35L	35	42	35
TR-42-15-42L	42	15	42
TR-42-18-42L	42	18	42
TR-42-22-42L	42	22	42
TR-42-28-42L	42	28	42
TR-42-35-42L	42	35	42

Tech Sheet 10611

S Series

0291	OD A mm	OD B mm	OD C mm
TR-8-6-8S	8	6	8
TR-10-6-10S	10	6	10
TR-10-8-10S	10	8	10
TR-12-6-12S	12	6	12
TR-12-8-8S	12	8	8
TR-12-8-12S	12	8	12
TR-12-10-12S	12	10	12
TR-12-16-12S	12	16	12
TR-14-8-14S	14	8	14
TR-14-10-14S	14	10	14
TR-16-6-16S	16	6	16
TR-16-8-16S	16	8	16
TR-16-10-16S	16	10	16
TR-16-12-16S	16	12	16
TR-16-14-16S	16	14	16
TR-16-20-16S	16	20	16
TR-20-8-20S	20	08	20
TR-20-10-20S	20	10	20
TR-20-12-20S	20	12	20
TR-20-14-20S	20	14	20
TR-20-16-20S	20	16	20
TR-20-25-20S	20	25	20
TR-25-10-25S	25	10	25
TR-25-12-25S	25	12	25
TR-25-14-25S	25	14	25
TR-25-16-25S	25	16	25
TR-25-20-25S	25	20	25
TR-25-30-25S	25	30	25
TR-30-12-30S	30	12	30
TR-30-16-30S	30	16	30
TR-30-20-30S	30	20	30
TR-30-25-30S	30	25	30
TR-30-38-30S	30	38	30
TR-38-16-38S	38	16	38
TR-38-20-38S	38	20	38
TR-38-25-38S	38	25	38
TR-38-30-38S	38	30	38

Tech Sheet 10611

Straight Bulkheads



L Series

0291	OD mm
SV-6L	6
SV-8L	8
SV-10L	10
SV-12L	12
SV-15L	15
SV-18L	18
SV-22L	22
SV-28L	28
SV-35L	35
SV-42L	42

Tech Sheet 10612

S Series

0291	OD mm
SV-6S	6
SV-8S	8
SV-10S	10
SV-12S	12
SV-14S	14
SV-16S	16
SV-20S	20
SV-25S	25
SV-30S	30
SV-38S	38

Tech Sheet 10612

Weld Bulkheads



L Series

0291	OD mm
ESV-6L-FT	6
ESV-8L-FT	8
ESV-10L-FT	10
ESV-12L-FT	12
ESV-15L-FT	15
ESV-18L-FT	18
ESV-20L-FT	20
ESV-28L-FT	28

Tech Sheet 10613

S Series

0291	OD mm
ESV-6S-FT	6
ESV-8S-FT	8
ESV-10S-FT	10
ESV-12S-FT	12
ESV-14S-FT	14
ESV-16S-FT	16
ESV-20S-FT	20
ESV-25S-FT	25

Tech Sheet 10613

316 STAINLESS STEEL DIN 2353 TUBE FITTINGS

Bulkhead Elbows



L Series

0291	OD mm
WSV-6L-FT	6
WSV-8L-FT	8
WSV-10L-FT	10
WSV-12L-FT	12
WSV-15L-FT	15
WSV-18L-FT	18
WSV-22L-FT	22
WSV-28L-FT	28
WSV-35L-FT	35
WSV-42L-FT	42

Tech Sheet 10614

S Series

0291	OD mm
WSV-6S-FT	6
WSV-8S-FT	8
WSV-10S-FT	10
WSV-12S-FT	12
WSV-14S-FT	14
WSV-16S-FT	16
WSV-20S-FT	20
WSV-25S-FT	25
WSV-30S-FT	30
WSV-38S-FT	38

Tech Sheet 10614

Weld Nipples



O-Ring Sealing, Nitrile

0291	OD mm	Diameter mm
SKA-108	10	8
SKA-107	10	7
SKA-106	10	6
SKA-129	12	9
SKA-128	12	8
SKA-127	12	7
SKA-1613	16	13
SKA-1612	16	12
SKA-1611	16	11
SKA-1610	16	10
SKA-2016	20	16
SKA-2015	20	15
SKA-2014	20	14
SKA-2012	20	12
SKA-2519	25	19
SKA-2517	25	17
SKA-2515	25	15

Tech Sheet 10615

Butt Weld Fittings



L Series

0291	OD mm
AS-6L	6
AS-8L	8
AS-10L	10
AS-12L	12
AS-15L	15
AS-18L	18
AS-22L	22
AS-28L	28

Tech Sheet 10616

S Series

0291	OD mm
AS-6S	6
AS-8S	8
AS-10S	10
AS-12S	12
AS-14S	14
AS-16S	16
AS-20S	20
AS-25S	25

Tech Sheet 10616



Weld Standpipe

0291	OD mm	Diameter mm
ASK-108	10	8
ASK-107	10	7
ASK-106	10	6
ASK-129	12	9
ASK-128	12	8
ASK-127	12	7
ASK-1612	16	12
ASK-1611	16	11
ASK-1610	16	10
ASK-2016	20	16
ASK-2015	20	15
ASK-2014	20	14
ASK-2012	20	12
ASK-2519	25	19
ASK-2517	25	17
ASK-2515	25	15

Tech Sheet 10617

stainless
steel



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Rigid Fluid
Conveyance



Stainless Steel 1.4571 Working Temperature:
-60°C to +400°C (DIN 17 440, AD W 10)

Seal Working Temperature:
-20°C to +200°C (FPM e.g. Viton)

Special Weld Nipples (Reducers)



O-Ring Sealing, Nitrile

0291	OD mm	Diameter mm
SKAR-10-6	10	6
SKAR-10-8	10	8
SKAR-12-8	12	8
SKAR-12-10	12	10
SKAR-16-12	16	12
SKAR-20-12	20	12
SKAR-20-16	20	16
SKAR-25-16	25	16
SKAR-25-20	25	20
SKAR-25-15	25	15

Tech Sheet 10618

Metric Standpipe Adaptors, BSPP



L Series

0291	Thread	OD mm
2101-8247	1/8"	6
2101-8254	1/4"	8
2101-8262	1/4"	10
2101-8270	3/8"	12
2101-8288	1/2"	15
2101-8296	1/2"	18
2101-8304	3/4"	22
2101-8312	1"	28
2101-8445	1.1/4"	35
2101-8338	1.1/2"	42

Tech Sheet 20799

S Series

0291	Thread	OD mm
2101-8346	1/4"	6
2101-8353	1/4"	8
2101-8361	3/8"	10
2101-8379	3/8"	12
2101-8387	1/2"	14
2101-8395	1/2"	16
2101-8403	3/4"	20
2101-8411	1"	25
2101-8429	1.1/4"	30
2101-8437	1.1/2"	38

Tech Sheet 20799

316 STAINLESS STEEL DIN 2353 TUBE FITTINGS

stainless
steel



- ° Stainless Steel 1.4571 Working Temperature:
-60°C to +400°C (DIN 17 440, AD W 10)
Seal Working Temperature:
-20°C to +200°C (FPM e.g. Viton)

Banjo Elbows



L Series, BSPP, Metal Sealing Ring

0291	OD mm	Thread
WHV-6L-2RG	6	1/8"
WHV-8L-4RG	8	1/4"
WHV-10L-4RG	10	1/4"
WHV-10L-6G	10	3/8"
WHV-12L-4RG	12	1/4"
WHV-12L-6RG	12	3/8"
WHV-12L-8RG	12	1/2"
WHV-15L-8RG	15	1/2"
WHV-18L-8RG	18	1/2"
WHV-22L-12RG	22	3/4"
WHV-28L-16RG	28	1"
WHV-35L-20RG	35	1.1/4"
WHV-42L-24RG	42	1.1/2"

Tech Sheet 20736

S Series, BSPP, Metal Sealing Ring

0291	OD mm	Thread
WHV-6S-4RG	6	1/4"
WHV-8S-4RG	8	1/4"
WHV-10S-4RG	10	1/4"
WHV-10S-6G	10	3/8"
WHV-12S-6RG	12	3/8"
WHV-14S-8RG	14	1/2"
WHV-16S-8RG	16	1/2"
WHV-20S-12RG	20	3/4"
WHV-25S-16RG	25	1"
WHV-30S-20RG	30	1.1/4"
WHV-38S-24RG	38	1.1/2"

Tech Sheet 20736

Gauge Couplings



L Series, BSPP, Metal Sealing Ring

0291	OD mm	Thread
MV-6L-4RG	6	1/4"
MV-6L-8RG	6	1/2"
MV-8L-4RG	8	1/4"
MV-8L-8RG	8	1/2"
MV-10L-4RG	10	1/4"
MV-10L-8RG	10	1/2"
MV-12L-4RG	12	1/4"
MV-12L-8RG	12	1/2"

Tech Sheet 20737



S Series, BSPP, Metal Sealing Ring

0291	OD mm	Thread
MV-6S-8RG	6	1/2"
MV-8S-4RG	8	1/4"
MV-8S-8RG	8	1/2"
MV-10S-4RG	10	1/4"
MV-10S-8RG	10	1/2"
MV-12S-4RG	12	1/4"
MV-12S-8RG	12	1/2"

Tech Sheet 20737



L Series, NPT

0291	OD mm	Thread
MV-6L-4N	6	1/4"
MV-6L-8N	6	1/2"
MV-8L-4N	8	1/4"
MV-8L-8N	8	1/2"
MV-10L-4N	10	1/4"
MV-10L-8N	10	1/2"
MV-12L-4N	12	1/4"
MV-12L-8N	12	1/2"

Tech Sheet 20901



S Series, NPT

0291	OD mm	Thread
MV-6S-8N	6	1/2"
MV-8S-8N	8	1/2"
MV-10S-8N	10	1/2"
MV-12S-8N	12	1/2"

Tech Sheet 20901

316 STAINLESS STEEL DIN 2353 TUBE FITTINGS

stainless
steel



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Non-return Valves

All valves supplied with 1 bar cracking pressure unless stated, other pressures available on request are 0.2, 0.5, 2.0 and 3.0

Stainless Steel 1.4571 Working Temperature: -60°C to +400°C (DIN 17 440, AD W 10)

Seal Working Temperature: -20°C to +200°C (FPM e.g. Viton)

L Series, BSPP, Flow Towards Thread



0291	OD mm	Thread
RZ-6L-2RG	6	1/8"
RZ-8L-4RG	8	1/4"
RZ-10L-4RG	10	1/4"
RZ-12L-6RG	12	3/8"
RZ-15L-8RG	15	1/2"
RZ-18L-8RG	18	1/2"
RZ-22L-12RG	22	3/4"
RZ-28L-16RG	28	1"
RZ-35L-20RG	35	1.1/4"
RZ-42L-24RG	42	1.1/2"

Tech Sheet 20352

L Series, BSPP, Flow Away From Thread



0291	OD mm	Thread
RV-6L-2RG	6	1/8"
RV-8L-4RG	8	1/4"
RV-10L-4RG	10	1/4"
RV-12L-6RG	12	3/8"
RV-15L-8RG	15	1/2"
RV-18L-8RG	18	1/2"
RV-22L-12RG	22	3/4"
RV-28L-16RG	28	1"
RV-35L-20RG	35	1.1/4"
RV-42L-24RG	42	1.1/2"

Tech Sheet 20352

L Series, Tube x Tube



0291	OD mm	Cracking Pressure Bar
770-0606	6	0.5
770-0808	8	0.5
770-1010	10	0.5
770-1212	12	0.5
770-1515	15	0.5
770-1818	18	0.5
770-2222	22	0.5
770-2828	28	0.5
770-3535	35	0.5
770-4242	42	0.5

Tech Sheet 10619

S Series, BSPP, Flow Towards Thread

0291	OD mm	Thread
RZ-6S-2RG	6	1/8"
RZ-8S-4RG	8	1/4"
RZ-10S-4RG	10	1/4"
RZ-12S-6RG	12	3/8"
RZ-14S-8RG	14	1/2"
RZ-16S-8RG	16	1/2"
RZ-20S-12RG	20	3/4"
RZ-25S-16RG	25	1"
RZ-30S-20RG	30	1.1/4"
RZ-38S-24RG	38	1.1/2"

S Series, BSPP, Flow Away From Thread

0291	OD mm	Thread
RV-6S-2RG	6	1/8"
RV-8S-4RG	8	1/4"
RV-10S-4RG	10	1/4"
RV-12S-6RG	12	3/8"
RV-14S-8RG	14	1/2"
RV-16S-8RG	16	1/2"
RV-20S-12RG	20	3/4"
RV-25S-16RG	25	1"
RV-30S-20RG	30	1.1/4"
RV-38S-24RG	38	1.1/2"

S Series, Tube x Tube

0291	OD mm
RD-6S	6
RD-8S	8
RD-10S	10
RD-12S	12
RD-14S	14
RD-16S	16
RD-20S	20
RD-25S	25
RD-30S	30
RD-38S	38

Tech Sheet 10619

Blanking Plugs, Threaded



BSPP

0291	Thread
VSTI-2EO	1/8"
VSTI-4EO	1/4"
VSTI-6EO	3/8"
VSTI-8EO	1/2"
VSTI-12EO	3/4"
VSTI-16EO	1"
VSTI-20EO	1.1/4"
VSTI-24EO	1.1/2"

Tech Sheet 10620

Metric

0291	Thread
VSTI-10M	M10 x 1
VSTI-12M	M12 x 1.5
VSTI-14M	M14 x 1.5
VSTI-16M	M16 x 1.5
VSTI-18M	M18 x 1.5
VSTI-20M	M20 x 1.5
VSTI-22M	M22 x 1.5
VSTI-26M	M26 x 1.5
VSTI-27M	M27 x 2
VSTI-33M	M33 x 2
VSTI-42M	M42 x 2
VSTI-48M	M48 x 2

Tech Sheet 10620

Blanking Plugs



L Series

0291	OD mm
VKA-6L	6
VKA-8L	8
VKA-10L	10
VKA-12L	12
VKA-15L	15
VKA-18L	18
VKA-22L	22
VKA-28L	28
VKA-35L	35
VKA-42L	42

Tech Sheet 10621

S Series

0291	OD mm
VKA-6S	6
VKA-8S	8
VKA-10S	10
VKA-12S	12
VKA-14S	14
VKA-16S	16
VKA-20S	20
VKA-25S	25
VKA-30S	30
VKA-38S	38

Tech Sheet 10621

Blanking Ends



L Series

0291	OD mm
ROV-6L	6
ROV-8L	8
ROV-10L	10
ROV-12L	12
ROV-15L	15
ROV-18L	18
ROV-22L	22
ROV-28L	28
ROV-35L	35
ROV-42L	42

Tech Sheet 10622

S Series

0291	OD mm
ROV-6S	6
ROV-8S	8
ROV-10S	10
ROV-12S	12
ROV-14S	14
ROV-16S	16
ROV-20S	20
ROV-25S	25
ROV-30S	30
ROV-38S	38

Tech Sheet 10622

Rigid Fluid
Conveyance



316 STAINLESS STEEL DIN 2353 TUBE FITTINGS

° Stainless Steel 1.4571 Working Temperature:
-60°C to +400°C (DIN 17 440, AD W 10)

Seal Working Temperature:
-20°C to +200°C (FPM e.g. Viton)

Nut



L Series

0291	OD mm
M-6L-FT	6
M-8L-FT	8
M-10L-FT	10
M-12L-FT	12
M-15L-FT	15
M-18L-FT	18
M-22L-FT	22
M-28L-FT	28
M-35L-FT	35
M-42L-FT	42

Tech Sheet 10623

S Series

0291	OD mm
M-6S-FT	6
M-8S-FT	8
M-10S-FT	10
M-12S-FT	12
M-14S-FT	14
M-16S-FT	16
M-20S-FT	20
M-25S-FT	25
M-30S-FT	30
M-38S-FT	38

Tech Sheet 10623

Compression Ring

- Hardened, nickel plated.



L Series

0291	OD mm
DPR-6L	6
DPR-8L	8
DPR-10L	10
DPR-12L	12
DPR-15L	15
DPR-18L	18
DPR-22L	22
DPR-28L	28
DPR-35L	35
DPR-42L	42

Tech Sheet 10624

S Series

0291	OD mm
DPR-6S	6
DPR-8S	8
DPR-10S	10
DPR-12S	12
DPR-14S	14
DPR-16S	16
DPR-20S	20
DPR-25S	25
DPR-30S	30
DPR-38S	38

Tech Sheet 10624

stainless
steel



Seals



Banjo Couplings

0291	Thread
DKR-2RG	1/8"
DKR-4RG	1/4"
DKR-6RG	3/8"
DKR-8RG	1/2"
DKR-12RG	3/4"
DKR-16RG	1"
DKR-20RG	1.1/4"
DKR-24RG	1.1/2"



Gauge Couplings

0291	Thread
DKRI-4RG	1/4"
DKRI-8RG	1/2"



Viton

0291	Thread
WD-10X1	M10 x 1 (1/8")
WD-12X1.5	M12 x 1.5
WD-14X1.5	M14 x 1.5 (1/4")
WD-16X1.5	M16 x 1.5
WD-3/8	3/8"
WD-18X1.5	M18 x 1.5
WD-20X1.5	M20 x 1.5
WD-1/2	1/2"
WD-26X1.5	M26 x 1.5 (3/4")
WD-22X1.5	M22 x 1.5
WD-27X2	M27 x 2 (3/4")
WD-33X2	M33 x 2 (1")
WD-42X2	M42 x 2 (1.1/4")
WD-48X2	M48 x 2 (1.1/2")

stainless
steel



For Stainless Steel Tubing
see page 70



Silver Plated Stainless Steel Nuts (AGP)

There is a high risk for cold welding (gripping) at the threads without silver-coating.

Together with ABF-grease easy assembly due to reduction in tightening torque by up to 70%.

Reduced torsion load to the coupling body.

Applications: Marine industry.



Light-duty

0294	Thread	OD mm
M18L-1.4571AGP	M26 x 1.5	18
M22L-1.4571AGP	M30 x 2	22
M28L-1.4571AGP	M36 x 2	28
M35L-1.4571AGP	M45 x 2	35

Heavy-duty

0294	Thread	OD mm
M20S-1.4571AGP	M30 x 2	20
M25S-1.4571AGP	M36 x 2	25
M30S-1.4571AGP	M42 x 2	30
M38S-1.4571AGP	M52 x 2	38

ABF Anti Bloc Grease

Special grease for the installation of stainless couplings, material 1.4571.

Applications: Marine industry.

To avoid gripping and reduce the coefficient of friction.



1000g Can

0294	Grams
ANTI-BLOC 1KG	1000



100g Tube

0294	Grams
ANTI-BLOC 100G	100



stainless
steel



For **Stainless Steel Tubing**
see page **70**

INTRODUCING TWIN FERRULE TUBE COMPRESSION FITTINGS

stainless
steel



Panam Instrumentation tube fittings provide a zero leak proof seal which will withstand high pressure, impulse, vibration and temperature. These features offer high safety and maintenance free smooth working. Each component is precision machined to the most accurate tolerance; maintain TQM practices throughout manufacturing process.

The fittings are manufactured in accordance with ISO9001 quality standards and CE marking requirements with complete traceability records available upon request.

Available in 316 SS, Brass, CS, Monel materials in a variety of end connections. Straight fittings are machined from bar stock and shaped bodies are machined from forgings.

The fittings are used on instrumentation process control systems, analysers and environmental equipment in oil and gas, Petro-chemical, Power generation, Pulp and Paper industry and many more.

Assembly Instructions

SIZE M6 thru M25
(6mm-25mm)

SIZE M3 thru M4
(3mm-4mm)



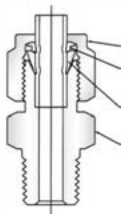
1-1/4 Turns from
Finger Tight



Only 3/4 Turn from Finger Tight is
necessary to seal and will result in
additional remakes of the fitting

- 1 Insert the tubing in to the Tube Fitting until it comes up to the tube stop.
- 2 Ensure that the nut is finger tight and tighten the nut 1-1/4 turns as shown in figure.
- 3 For 1/8" and 3/16 Fittings only 3/4 turns as shown in Fig-3.

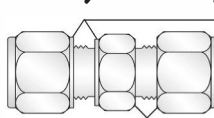
Functions



- Compression nut Threads are silver plated which prevents galling.
- Back Ferrule locks together the fittings and tube forms a primary Seal which absorbs the pressure pulses and vibration.
- Front Ferrule Forms a secondary seal which connects tube and fitting and guarantees a bubble tight Zero Leak Sealing.
- Rugged body construction, high precision machined surface and standardised tolerances provides maximum trouble free service life in severe working conditions.

The above illustrates sealing action of a Tube Fitting assembly which takes place after the assembly is fully tightened

Identification of Twin Ferrule Fittings



Metric Tube End
with Stepped
Shoulder on Nut
and Fitting

Imperial Tube End

The Metric size of the Fittings have extra stepped shoulder on the body and nut to distinguish them from imperial size.

All Dimensions are in mm unless otherwise stated. Dimensions are for reference only, subject to change.

Material Standards

Material	Bar Stock a	Forging b	Tubing
316 Stainless Steel	ASTM A276 ASME SA479	ASTM A182 ASME SA182	ASME-SA-213 / ASTM-A-213/ ASTM-A-249 / ASTM-A-269 / MIL T-88504 / MIL T-8506
Brass	ASTM B16	ASTM B283	ASTM-B75 / ASME-SB75 (TEMPER "O")
Alloy 400	ASTM B164 ASME SB164	ASTM B564 ASME SB564	
Alloy 600	ASTM B166 ASME SB166	ASTM B564 ASME SB564	ASTM-B-163
Alloy C-276	ASTM B574	ASTM SB564	ASTM-B-622 / ASTM-B-626
Carbon Steel	ASTM A108		SAE J524b / SAE J525b / ASTM-A-179
PTFE	ASTM D1710	ASTM D3293	

A includes straight configuration

B includes all elbows, crosses and tees

Stress Values based on ASME B31.3 Code for Process Piping

Material	Allowable Stress Value		Design Factor	Ultimate Tensile Strength	
	Psig	bar		Psig	bar
316SS	20000	1378	3.75:1	75000	5170
Brass	10000	689	4:1	40000	2760
Steel	20000	1378	3:1	60000	4140

Pipe End Pressure Ratings

Calculations based on ASME B31.3
code for Process Piping

NPT/ISO Pipe Size Inches	316 SS and Carbon Steel				Brass			
	Male		Female		Male		Female	
	Psig	bar	Psig	bar	Psig	bar	Psig	bar
1/16	11000	760	6700	460	5500	380	3300	230
1/8	10000	690	6500	440	5000	340	3200	220
1/4	8000	550	6600	450	4000	270	3300	220
5/8	7800	540	5300	360	3900	270	2600	180
1/2	7700	530	4900	330	3800	260	2400	160
3/4	7300	500	4600	320	3600	250	2300	160
1	5300	370	4400	300	2600	180	2200	150
1.1/4	6000	410	5000	350	3000	200	2500	170
1.1/2	5000	340	4600	310	2500	170	2300	150
2	3900	270	3900	270	1900	130	1900	130

To determine working pressure ratings in accordance with ASME B31.1 Power Piping
For 316 stainless steel, multiply psig by 0.94; for carbon steel multiply psig by 0.75;
Brass ratings remain the same. To determine working pressure kPa multiply psig by 6.89

SAE Pressure Ratings

Pressure Ratings are
from SAE J1926/3

SAE/MS Thread Size	316 SS and Carbon Steel			
	(Nonpositionable)		(Positionable)	
	Psig	bar	Psig	bar
5/16-24				
7/16-20			4568	315
1/2-20	4568	315		
9/16-18			3626	250
3/4-16				
7/8-14	3626	250	2900	200
1.1/16-12				
1.3/16-12	2900	200	2320	160
1.5/16-12				
1.5/8-12	2320	160	1813	125
1.7/8-12				
1.1/2-12	1813	125	1450	100

316 STAINLESS STEEL TWIN FERRULE IMPERIAL TUBE FITTINGS

stainless steel



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Male Connectors



Male Thread, NPT

0292	OD	Thread
MC-125-125N	1/8"	1/8"
MC-125-250N	1/8"	1/4"
MC-125-375N	1/8"	3/8"
MC-125-500N	1/8"	1/2"
MC-187-125N	3/16"	1/8"
MC-187-250N	3/16"	1/4"
MC-250-125N	1/4"	1/8"
MC-250-250N	1/4"	1/4"
MC-250-375N	1/4"	3/8"
MC-250-500N	1/4"	1/2"
MC-250-750N	1/4"	3/4"
MC-312-125N	5/16"	1/8"
MC-312-250N	5/16"	1/4"
MC-312-375N	5/16"	3/8"
MC-312-500N	5/16"	1/2"
MC-375-125N	5/16"	1/8"
MC-375-250N	3/8"	1/4"
MC-375-375N	3/8"	3/8"
MC-375-500N	3/8"	1/2"
MC-375-750N	3/8"	3/4"
MC-500-125N	1/2"	1/8"
MC-500-250N	1/2"	1/4"
MC-500-375N	1/2"	3/8"
MC-500-500N	1/2"	1/2"
MC-500-750N	1/2"	3/4"
MC-500-1000N	1/2"	1"
MC-625-375N	5/8"	3/8"
MC-625-500N	5/8"	1/2"
MC-625-750N	5/8"	3/4"
MC-750-500N	3/4"	1/2"
MC-750-750N	3/4"	3/4"
MC-750-1000N	3/4"	1"
MC-875-750N	7/8"	3/4"
MC-875-1000N	7/8"	1"
MC-1000-500N	1"	1/2"
MC-1000-750N	1"	3/4"
MC-1000-1000N	1"	1"

Tech Sheet 20234



Male Thread, BSPT

0292	OD	Thread
MC-125-125RT	1/8"	1/8"
MC-125-250RT	1/8"	1/4"
MC-250-125RT	1/4"	1/8"
MC-250-250RT	1/4"	1/4"
MC-250-375RT	1/4"	3/8"
MC-250-500RT	1/4"	1/2"
MC-312-125RT	5/16"	1/8"
MC-312-250RT	5/16"	1/4"
MC-375-125RT	3/8"	1/8"
MC-375-250RT	3/8"	1/4"
MC-375-375RT	3/8"	3/8"
MC-375-500RT	3/8"	1/2"
MC-500-250RT	1/2"	1/4"
MC-500-375RT	1/2"	3/8"
MC-500-500RT	1/2"	1/2"
MC-500-750RT	1/2"	3/4"
MC-750-750RT	3/4"	3/4"
MC-1000-1000RT	1"	1"

Tech Sheet 20233



Male Thread, SAE/MS

0292	OD	Thread
MC-125-312SE	1/8"	5/16"-24
MC-125-562SE	1/8"	9/16"-18
MC-250-437SE	1/4"	7/16"-20
MC-250-750SE	1/4"	3/4"-16
MC-250-875SE	1/4"	7/8"-14
MC-312-500SE	5/16"	1/2"-20
MC-375-437SE	3/8"	7/16"-20
MC-375-562SE	3/8"	9/16"-18
MC-375-750SE	3/8"	3/4"-16
MC-375-875SE	3/8"	7/8"-14
MC-500-562SE	1/2"	9/16"-18
MC-500-750SE	1/2"	3/4"-16
MC-500-875SE	1/2"	7/8"-14
MC-500-1062SE	1/2"	1.1/16"-12
MC-625-750SE	5/8"	3/4"-16
MC-625-875SE	5/8"	7/8"-14
MC-750-750SE	3/4"	3/4"-16
MC-750-1062SE	3/4"	1.1/16"-12
MC-875-1187SE	7/8"	1.3/16"-12
MC-1000-1062SE	1"	1.1/16"-12
MC-1000-1312SE	1"	1.5/16"-12

Tech Sheet 20807



Male Thread, SAE/MS (Long)

0292	OD	Thread
LMC-250-437SE	1/4"	7/16"-20
LMC-312-500SE	5/16"	1/2"-20
LMC-375-562SE	3/8"	9/16"-18
LMC-500-750SE	1/2"	3/4"-16
LMC-625-875SE	5/8"	7/8"-14
LMC-750-1062SE	3/4"	1.1/16"-12
LMC-875-1187SE	7/8"	1.3/16"-12
LMC-1000-1312SE	1"	1.5/16"-12

Tech Sheet 20808



Male Thread, SAE/MS (Captive Seal)

0292	OD	Thread
OMC-125-312SE	1/8"	5/16"-24
OMC-187-375SE	3/16"	3/8"-24
OMC-250-437SE	1/4"	7/16"-20
OMC-312-500SE	5/16"	1/2"-20
OMC-375-562SE	3/8"	9/16"-18
OMC-500-750SE	1/2"	3/4"-16
OMC-750-1062SE	3/4"	1.1/16"-12
OMC-1000-1312SE	1"	1.5/16"-12

Tech Sheet 20809

Male Thread, BSPP (Captive Seal)

0292	OD	Thread
OMC-250-250EO	1/4"	1/4"
OMC-250-500EO	1/4"	1/2"
OMC-375-375EO	3/8"	3/8"
OMC-500-250EO	1/2"	1/4"
OMC-500-375EO	1/2"	3/8"
OMC-500-500EO	1/2"	1/2"
OMC-750-750EO	3/4"	3/4"

Tech Sheet 20809

Rigid Fluid Conveyance



316 STAINLESS STEEL TWIN FERRULE IMPERIAL TUBE FITTINGS

stainless
steel



Male Connectors

Stainless steel washer with a Viton inner ring.



Male Thread-RS, BSPP

0292	OD	Thread
MC-125-125RS	1/8"	1/8"
MC-125-250RS	1/8"	1/4"
MC-125-375RS	1/8"	3/8"
MC-250-125RS	1/4"	1/8"
MC-250-250RS	1/4"	1/4"
MC-250-375RS	1/4"	3/8"
MC-250-500RS	1/4"	1/2"
MC-375-250RS	3/8"	1/4"
MC-375-375RS	3/8"	3/8"
MC-375-500RS	3/8"	1/2"
MC-500-250RS	1/2"	1/4"
MC-500-375RS	1/2"	3/8"
MC-500-500RS	1/2"	1/2"
MC-750-500RS	3/4"	1/2"
MC-750-750RS	3/4"	3/4"
MC-1000-500RS	1"	1/2"
MC-1000-1000RS	1"	1"

Tech Sheet 20810

Female Connectors



Female Thread, NPT

0292	OD	Thread
FC-125-125N	1/8"	1/8"
FC-125-250N	1/8"	1/4"
FC-187-125N	3/16"	1/8"
FC-250-125N	1/4"	1/8"
FC-250-250N	1/4"	1/4"
FC-250-375N	1/4"	3/8"
FC-250-500N	1/4"	1/2"
FC-312-125N	5/16"	1/8"
FC-312-250N	5/16"	1/4"
FC-312-375N	5/16"	3/8"
FC-375-125N	3/8"	1/8"
FC-375-250N	3/8"	1/4"
FC-375-375N	3/8"	3/8"
FC-375-500N	3/8"	1/2"
FC-375-750N	3/8"	3/4"
FC-500-250N	1/2"	1/4"
FC-500-375N	1/2"	3/8"
FC-500-500N	1/2"	1/2"
FC-500-750N	1/2"	3/4"
FC-625-375N	5/8"	3/8"
FC-625-500N	5/8"	1/2"
FC-625-750N	5/8"	3/4"
FC-750-500N	3/4"	1/2"
FC-750-750N	3/4"	3/4"
FC-875-750N	7/8"	3/4"
FC-1000-750N	1"	3/4"
FC-1000-1000N	1"	1"

Tech Sheet 20235

Female Thread, BSPT

0292	OD	Thread
FC-250-125RT	1/4"	1/8"
FC-250-250RT	1/4"	1/4"
FC-250-375RT	1/4"	3/8"
FC-250-500RT	1/4"	1/2"
FC-375-250RT	3/8"	1/4"
FC-375-375RT	3/8"	3/8"
FC-375-500RT	3/8"	1/2"
FC-500-250RT	1/2"	1/4"
FC-500-375RT	1/2"	3/8"
FC-500-500RT	1/2"	1/2"

Tech Sheet 20237

Female Thread, BSPP

0292	OD	Thread
FC-250-250RG	1/4"	1/4"
FC-250-375RG	1/4"	3/8"
FC-250-500RG	1/4"	1/2"
FC-312-250RG	5/16"	1/4"
FC-312-500RG	5/16"	1/2"
FC-375-250RG	3/8"	1/4"
FC-375-375RG	3/8"	3/8"
FC-375-500RG	3/8"	1/2"
FC-500-375RG	1/2"	3/8"
FC-500-500RG	1/2"	1/2"

Tech Sheet 20236

Bulkhead Male Connectors



Male Thread, NPT

0292	OD	Thread
BMC-125-125N	1/8"	1/8"
BMC-187-125N	3/16"	1/8"
BMC-250-125N	1/4"	1/8"
BMC-250-250N	1/4"	1/4"
BMC-250-375N	1/4"	3/8"
BMC-250-500N	1/4"	1/2"
BMC-312-125N	5/16"	1/8"
BMC-312-250N	5/16"	1/4"
BMC-375-125N	3/8"	1/8"
BMC-375-250N	3/8"	1/4"
BMC-375-375N	3/8"	3/8"
BMC-500-250N	1/2"	1/4"
BMC-500-375N	1/2"	3/8"
BMC-500-500N	1/2"	1/2"
BMC-500-750N	1/2"	3/4"
BMC-625-375N	5/8"	3/8"
BMC-625-500N	5/8"	1/2"
BMC-750-500N	3/4"	1/2"
BMC-750-750N	3/4"	3/4"
BMC-875-750N	7/8"	3/4"
BMC-1000-750N	1"	3/4"

Tech Sheet 20814

Bulkhead Female Connectors



Female Thread, NPT

0292	OD	Thread
BFC-125-125N	1/8"	1/8"
BFC-187-125N	3/16"	1/8"
BFC-250-125N	1/4"	1/8"
BFC-250-250N	1/4"	1/4"
BFC-312-125N	5/16"	1/8"
BFC-375-250N	3/8"	1/4"
BFC-500-375N	1/2"	3/8"
BFC-500-500N	1/2"	1/2"
BFC-625-500N	5/8"	1/2"
BFC-750-750N	3/4"	3/4"
BFC-875-750N	7/8"	3/4"
BFC-1000-1000N	1"	1"

Tech Sheet 20815

316 STAINLESS STEEL TWIN FERRULE IMPERIAL TUBE FITTINGS

stainless steel



Rigid Fluid Conveyance



Unions



Tube x Tube

0292	OD
U-125	1/8"
U-187	3/16"
U-250	1/4"
U-312	5/16"
U-375	3/8"
U-500	1/2"
U-625	5/8"
U-750	3/4"
U-875	7/8"
U-1000	1"

Tech Sheet 20297



Metric Tube x Imperial Tube

0292	OD mm	OD
U-3-125	3	1/8"
U-4-125	4	1/8"
U-4-250	4	1/4"
U-6-125	6	1/8"
U-6-250	6	1/4"
U-6-312	6	5/16"
U-8-250	8	1/4"
U-8-375	8	3/8"
U-10-125	10	1/8"
U-10-250	10	1/4"
U-10-312	10	5/16"
U-10-375	10	3/8"
U-12-312	12	5/16"
U-12-375	12	3/8"
U-12-500	12	1/2"
U-15-500	15	1/2"
U-18-750	18	3/4"
U-20-500	20	1/2"
U-20-1000	20	1"
U-25-1000	25	1"

Tech Sheet 20817

Reducing Unions



Tube x Tube

0292	OD	OD
RU-187-125	3/16"	1/8"
RU-250-125	1/4"	1/8"
RU-250-187	1/4"	3/16"
RU-312-125	5/16"	1/8"
RU-312-250	5/16"	1/4"
RU-375-125	3/8"	1/8"
RU-375-250	3/8"	1/4"
RU-375-312	3/8"	5/16"
RU-500-125	1/2"	1/8"
RU-500-250	1/2"	1/4"
RU-500-375	1/2"	3/8"
RU-625-375	5/8"	3/8"
RU-625-500	5/8"	1/2"
RU-750-250	3/4"	1/4"
RU-750-375	3/4"	3/8"
RU-750-500	3/4"	1/2"
RU-750-625	3/4"	5/8"
RU-1000-500	1"	1/2"
RU-1000-750	1"	3/4"

Tech Sheet 20298

Bulkhead Unions



Tube x Tube

0292	OD
BU-125	1/8"
BU-187	3/16"
BU-250	1/4"
BU-312	5/16"
BU-375	3/8"
BU-500	1/2"
BU-625	5/8"
BU-750	3/4"
BU-1000	1"

Tech Sheet 20238

Male Branch Tees



Male Thread, NPT

0292	OD	Thread
MBT-125-125N	1/8"	1/8"
MBT-125-250N	1/8"	1/4"
MBT-187-125N	3/16"	1/8"
MBT-250-125N	1/4"	1/8"
MBT-250-250N	1/4"	1/4"
MBT-312-125N	5/16"	1/8"
MBT-375-250N	3/8"	1/4"
MBT-375-375N	3/8"	3/8"
MBT-500-375N	1/2"	3/8"
MBT-500-500N	1/2"	1/2"
MBT-625-500N	5/8"	1/2"
MBT-750-750N	3/4"	3/4"

Tech Sheet 20240

Male Positionable Branch Tees



Male Thread, SAE/MS

0292	OD	Thread
MBTP-250-437SE	1/4"	7/16"-20
MBTP-375-562SE	3/8"	9/16"-18
MBTP-500-750SE	1/2"	3/4"-16
MBTP-750-1062SE	3/4"	1.1/16"-12
MBTP-1000-1312SE	1"	1.5/16"-12

Tech Sheet 20821

Male Thread, BSPP

0292	OD	Thread
MBTP-250-125PR	1/4"	1/8"
MBTP-250-250PR	1/4"	1/4"
MBTP-375-250PR	3/8"	1/4"
MBTP-500-375PR	1/2"	3/8"
MBTP-625-500PR	1/2"	1/2"
MBTP-625-500PR	5/8"	1/2"
MBTP-750-500PR	3/4"	1/2"
MBTP-750-750PR	3/4"	3/4"
MBTP-1000-1000PR	1"	1"

Tech Sheet 20822

Male Run Tees



Male Thread, NPT

0292	OD	Thread
MRT-125-125N	1/8"	1/8"
MRT-125-250N	1/8"	1/4"
MRT-187-125N	3/16"	1/8"
MRT-250-125N	1/4"	1/8"
MRT-250-250N	1/4"	1/4"
MRT-312-125N	5/16"	1/8"
MRT-375-250N	3/8"	1/4"
MRT-375-375N	3/8"	3/8"
MRT-500-375N	1/2"	3/8"
MRT-500-500N	1/2"	1/2"
MRT-625-500N	5/8"	1/2"
MRT-750-750N	3/4"	3/4"

Tech Sheet 20299

316 STAINLESS STEEL TWIN FERRULE IMPERIAL TUBE FITTINGS

stainless
steel



Male Positionable Run Tees



Male Thread, SAE/MS

0292	OD	Thread
MRTP-250-437SE	1/4"	7/16"-20
MRTP-375-562SE	3/8"	9/16"-18
MRTP-500-750SE	1/2"	3/4"-16
MRTP-750-1062SE	3/4"	1.1/16"-12
MRTP-1000-1312SE	1"	1.5/16"-12

Tech Sheet 20824

Male Thread, BSPP

0292	OD	Thread
MRTP-250-125PR	1/4"	1/8"
MRTP-250-250PR	1/4"	1/4"
MRTP-375-250PR	3/8"	1/4"
MRTP-500-375PR	1/2"	3/8"
MRTP-500-500PR	1/2"	1/2"
MRTP-625-500PR	5/8"	1/2"
MRTP-750-500PR	3/4"	1/2"
MRTP-750-750PR	3/4"	3/4"
MRTP-1000-1000PR	1"	1"

Tech Sheet 20825

Female Branch Tees



Female Thread, NPT

0292	OD	Thread
FBT-125-125N	1/8"	1/8"
FBT-250-125N	1/4"	1/8"
FBT-250-250N	1/4"	1/4"
FBT-375-250N	3/8"	1/4"
FBT-375-375N	3/8"	3/8"
FBT-375-500N	3/8"	1/2"
FBT-500-250N	1/2"	1/4"
FBT-500-375N	1/2"	3/8"
FBT-500-500N	1/2"	1/2"
FBT-625-500N	5/8"	1/2"
FBT-750-750N	3/4"	3/4"
FBT-1000-750N	1"	3/4"
FBT-1000-1000N	1"	1"

Tech Sheet 20826

Female Run Tees



Female Thread, NPT

0292	OD	Thread
FRT-125-125N	1/8"	1/8"
FRT-250-125N	1/4"	1/8"
FRT-250-250N	1/4"	1/4"
FRT-375-250N	3/8"	1/4"
FRT-500-375N	1/2"	3/8"
FRT-500-500N	1/2"	1/2"
FRT-750-750N	3/4"	3/4"
FRT-1000-750N	1"	3/4"
FRT-1000-1000N	1"	1"

Tech Sheet 20239

Male Elbows



Male Thread, NPT

0292	OD	Thread
ME-125-125N	1/8"	1/8"
ME-125-250N	1/8"	1/4"
ME-187-125N	3/16"	1/8"
ME-187-250N	3/16"	1/4"
ME-250-125N	1/4"	1/8"
ME-250-250N	1/4"	1/4"
ME-250-375N	1/4"	3/8"
ME-250-500N	1/4"	1/2"
ME-312-125N	5/16"	1/8"
ME-312-250N	5/16"	1/4"
ME-312-375N	5/16"	3/8"
ME-375-125N	3/8"	1/8"
ME-375-250N	3/8"	1/4"
ME-375-375N	3/8"	3/8"
ME-375-500N	3/8"	1/2"
ME-375-750N	3/8"	3/4"
ME-500-250N	1/2"	1/4"
ME-500-375N	1/2"	3/8"
ME-500-500N	1/2"	1/2"
ME-500-750N	1/2"	3/4"
ME-625-375N	5/8"	3/8"
ME-625-500N	5/8"	1/2"
ME-625-750N	5/8"	3/4"
ME-750-500N	3/4"	1/2"
ME-750-750N	3/4"	3/4"
ME-875-750N	7/8"	3/4"
ME-1000-750N	1"	3/4"
ME-1000-1000N	1"	1"

Tech Sheet 20295

Male Thread, BSPT

0292	OD	Thread
ME-250-125RT	1/4"	1/8"
ME-250-250RT	1/4"	1/4"
ME-250-375RT	1/4"	3/8"
ME-250-500RT	1/4"	1/2"
ME-312-250RT	5/16"	1/4"
ME-375-250RT	3/8"	1/4"
ME-375-375RT	3/8"	3/8"

Tech Sheet 20294

Female Elbows



Female Thread, NPT

0292	OD	Thread
FE-125-125N	1/8"	1/8"
FE-125-250N	1/8"	1/4"
FE-187-125N	3/16"	1/8"
FE-250-125N	1/4"	1/8"
FE-250-250N	1/4"	1/4"
FE-250-375N	1/4"	3/8"
FE-250-500N	1/4"	1/2"
FE-312-125N	5/16"	1/8"
FE-312-250N	5/16"	1/4"
FE-375-125N	3/8"	1/8"
FE-375-250N	3/8"	1/4"
FE-375-375N	3/8"	3/8"
FE-375-500N	3/8"	1/2"
FE-500-250N	1/2"	1/4"
FE-500-375N	1/2"	3/8"
FE-500-500N	1/2"	1/2"
FE-625-375N	5/8"	3/8"
FE-625-500N	5/8"	1/2"
FE-750-500N	3/4"	1/2"
FE-750-750N	3/4"	3/4"
FE-875-750N	7/8"	3/4"
FE-1000-750N	1"	3/4"
FE-1000-1000N	1"	1"

Tech Sheet 20296

Positionable Elbows



Male Thread, SAE/MS

0292	OD	Thread
MEP-250-437SE	1/4"	7/16"-20
MEP-250-562SE	1/4"	9/16"-18
MEP-312-500SE	5/16"	1/2"-20
MEP-375-562SE	3/8"	9/16"-18
MEP-375-750SE	3/8"	3/4"-16
MEP-500-750SE	1/2"	3/4"-16
MEP-625-875SE	5/8"	7/8"-14
MEP-750-1062SE	3/4"	1.1/16"-12
MEP-875-1187SE	7/8"	1.3/16"-12
MEP-1000-1312SE	1"	1.5/16"-12

Tech Sheet 20831

Male Thread, BSPP

0292	OD	Thread
MEP-250-125PR	1/4"	1/8"
MEP-250-250PR	1/4"	1/4"
MEP-375-250PR	3/8"	1/4"
MEP-375-375PR	3/8"	3/8"
MEP-500-250PR	1/2"	1/4"
MEP-500-375PR	1/2"	3/8"
MEP-500-500PR	1/2"	1/2"
MEP-625-500PR	5/8"	1/2"
MEP-750-500PR	3/4"	1/2"
MEP-750-750PR	3/4"	3/4"
MEP-1000-750PR	1"	3/4"
MEP-1000-1000PR	1"	1"

Tech Sheet 20832

316 STAINLESS STEEL TWIN FERRULE IMPERIAL TUBE FITTINGS

stainless steel



Rigid Fluid Conveyance



Bulkhead Reducing Unions



Tube x Tube

0292	OD	OD
RBU-250-125	1/4"	1/8"
RBU-375-250	3/8"	1/4"
RBU-500-250	1/2"	1/4"

Tech Sheet 20833

Union Elbows



Tube x Tube

0292	OD
UE-125	1/8"
UE-187	3/16"
UE-250	1/4"
UE-312	5/16"
UE-375	3/8"
UE-500	1/2"
UE-625	5/8"
UE-750	3/4"
UE-875	7/8"
UE-1000	1"

Tech Sheet 20289

Reducing Union Elbows



Tube x Tube

0292	OD	OD
RUE-187-125	3/16"	1/8"
RUE-250-125	1/4"	1/8"
RUE-312-125	5/16"	1/8"
RUE-312-250	5/16"	1/4"
RUE-375-125	3/8"	1/8"
RUE-375-250	3/8"	1/4"
RUE-375-312	3/8"	5/16"
RUE-500-250	1/2"	1/4"
RUE-500-312	1/2"	5/16"
RUE-500-375	1/2"	3/8"
RUE-625-375	5/8"	3/8"
RUE-625-500	5/8"	1/2"
RUE-750-250	3/4"	1/4"
RUE-750-375	3/4"	3/8"
RUE-750-500	3/4"	1/2"
RUE-875-250	7/8"	1/4"
RUE-1000-500	1"	1/2"
RUE-1000-750	1"	3/4"

Tech Sheet 20835

Union Tees



Tube x Tube

0292	OD
UT-125	1/8"
UT-187	3/16"
UT-250	1/4"
UT-312	5/16"
UT-375	3/8"
UT-500	1/2"
UT-625	5/8"
UT-750	3/4"
UT-875	7/8"
UT-1000	1"

Tech Sheet 20288

Reducing Branch, Union Tees



Tube x Tube

0292	OD	OD
RUT-375-250	3/8"	1/4"
RUT-500-250	1/2"	1/4"
RUT-500-375	1/2"	3/8"
RUT-625-375	5/8"	3/8"
RUT-750-375	3/4"	3/8"
RUT-750-500	3/4"	1/2"
RUT-1000-375	1"	3/8"
RUT-1000-500	1"	1/2"
RUT-1000-750	1"	3/4"

Tech Sheet 20837

Union Crosses



Tube x Tube

0292	OD
UC-125	1/8"
UC-250	1/4"
UC-312	5/16"
UC-375	3/8"
UC-500	1/2"
UC-750	3/4"
UC-1000	1"

Tech Sheet 20290

AN Unions



Male Thread, AN

0292	OD	Thread
NU-125-125AN	1/8"	5/16"
NU-125-250AN	1/8"	7/16"
NU-250-250AN	1/4"	7/16"
NU-312-312AN	5/16"	1/2"
NU-375-250AN	3/8"	7/16"
NU-375-375AN	3/8"	9/16"
NU-500-500AN	1/2"	3/4"
NU-750-750AN	3/4"	1.1/16"
NU-1000-1000AN	1"	1.5/16"

Tech Sheet 20839

AN Bulkhead Unions



Male Thread, AN

0292	OD	Thread
ABU-250-250AN	1/4"	7/16"
ABU-375-375AN	3/8"	9/16"
ABU-500-500AN	1/2"	3/4"
ABU-750-750AN	3/4"	1.1/16"
ABU-1000-1000AN	1"	1.5/16"

Tech Sheet 20840

Weld Union, Sockets



Tube x Tube

0292	OD
SWU-125	1/8"
SWU-250	1/4"
SWU-375	3/8"
SWU-500	1/2"
SWU-750	3/4"
SWU-1000	1"

Tech Sheet 20841

Weld Elbow, Sockets



Tube x Tube

0292	OD
SWE-250	1/4"
SWE-375	3/8"
SWE-500	1/2"
SWE-750	3/4"
SWE-1000	1"

Tech Sheet 20842

316 STAINLESS STEEL TWIN FERRULE IMPERIAL TUBE FITTINGS

stainless
steel



Weld Union, Connectors



Tube x Tube

0292	OD	Stem OD
MWC-125-125	1/8"	1/8"
MWC-187-125	3/16"	1/8"
MWC-250-125	1/4"	1/8"
MWC-250-250	1/4"	1/4"
MWC-312-125	5/16"	1/8"
MWC-312-250	5/16"	1/4"
MWC-375-250	3/8"	1/4"
MWC-375-375	3/8"	3/8"
MWC-375-500	3/8"	1/2"
MWC-375-750	3/8"	3/4"
MWC-500-375	1/2"	3/8"
MWC-500-500	1/2"	1/2"
MWC-500-750	1/2"	3/4"
MWC-625-500	5/8"	1/2"
MWC-750-750	3/4"	3/4"
MWC-1000-1000	1"	1"

Tech Sheet 20843

Weld Elbow, Connectors



Tube x Tube

0292	OD	Stem OD
MWE-250-125	1/4"	1/8"
MWE-250-250	1/4"	1/4"
MWE-375-250	3/8"	1/4"
MWE-500-500	1/2"	1/2"
MWE-750-750	3/4"	3/4"

Tech Sheet 20844

Bulkhead Reducers



Tube x Tube

0292	OD
BR-125	1/8"
BR-250	1/4"
BR-375	3/8"
BR-500	1/2"
BR-625	5/8"
BR-1000	1"

Tech Sheet 20287

Reducers



Tube x Tube

0292	OD	Stem OD
R-125-125	1/8"	1/8"
R-125-187	1/8"	3/16"
R-125-250	1/8"	1/4"
R-125-375	1/8"	3/8"
R-125-500	1/8"	1/2"
R-187-125	3/16"	1/8"
R-187-250	3/16"	1/4"
R-250-125	1/4"	1/8"
R-250-187	1/4"	3/16"
R-250-250	1/4"	1/4"
R-250-312	1/4"	5/16"
R-250-375	1/4"	3/8"
R-250-500	1/4"	1/2"
R-250-625	1/4"	5/8"
R-250-750	1/4"	3/4"
R-312-375	5/16"	3/8"
R-312-500	5/16"	1/2"
R-375-250	3/8"	1/4"
R-375-375	3/8"	3/8"
R-375-500	3/8"	1/2"
R-375-625	3/8"	5/8"
R-375-750	3/8"	3/4"
R-500-250	1/2"	1/4"
R-500-375	1/2"	3/8"
R-500-500	1/2"	1/2"
R-500-625	1/2"	5/8"
R-500-750	1/2"	3/4"
R-500-1000	1/2"	1"
R-625-750	5/8"	3/4"
R-625-875	5/8"	7/8"
R-625-1000	5/8"	1"
R-750-500	3/4"	1/2"
R-750-1000	3/4"	1"

Tech Sheet 20286

Ball Valves



Working Pressure:
6000 psi



Compression, 2 Way

0292	OD
BV6000-18	1/8"
BV6000-12	1/2"

Tech Sheet 20847

316 STAINLESS STEEL TWIN FERRULE IMPERIAL TUBE FITTINGS

stainless steel



Rigid Fluid Conveyance



Port Connectors



Tube x Tube

0292	OD
PC-125	1/8"
PC-250	1/4"
PC-312	5/16"
PC-375	3/8"
PC-500	1/2"
PC-750	3/4"
PC-1000	1"

Tech Sheet 20378

Reducing Port Connectors



Tube x Tube

0292	OD	Stem OD
RPC-250-125	1/4"	1/8"
RPC-375-125	3/8"	1/8"
RPC-375-250	3/8"	1/4"
RPC-500-250	1/2"	1/4"
RPC-750-500	3/4"	1/2"
RPC-1000-500	1"	1/2"
RPC-1000-750	1"	3/4"

Tech Sheet 20849

Caps



Tube

0292	OD
C-125-FT	1/8"
C-187	3/16"
C-250	1/4"
C-312	5/16"
C-375	3/8"
C-500	1/2"
C-625	5/8"
C-750	3/4"
C-875	7/8"
C-1000	1"

Tech Sheet 20284

Plugs



Tube

0292	OD
P-125	1/8"
P-187	3/16"
P-250	1/4"
P-312	5/16"
P-375	3/8"
P-500	1/2"
P-625	5/8"
P-750	3/4"
P-875	7/8"
P-1000	1"

Tech Sheet 20282

Nuts



Tube

0292	OD
N-125-FT	1/8"
N-187	3/16"
N-250	1/4"
N-312	5/16"
N-375	3/8"
N-500	1/2"
N-625	5/8"
N-750	3/4"
N-875	7/8"
N-1000	1"

Tech Sheet 20283

Back Ferrules



Tube

0292	OD
BF-125	1/8"
BF-187	3/16"
BF-250	1/4"
BF-312	5/16"
BF-375	3/8"
BF-500	1/2"
BF-625	5/8"
BF-750	3/4"
BF-875	7/8"
BF-1000	1"

Tech Sheet 20285

Front Ferrules



Tube

0292	OD
FF-125	1/8"
FF-187	3/16"
FF-250	1/4"
FF-312	5/16"
FF-375	3/8"
FF-500	1/2"
FF-625	5/8"
FF-750	3/4"
FF-875	7/8"
FF-1000	1"

Tech Sheet 20854

Lock Nuts



To suit Bulkheads

0292	OD
BLN-125	1/8"
BLN-187	3/16"
BLN-250	1/4"
BLN-312	5/16"
BLN-375	3/8"
BLN-500	1/2"
BLN-625	5/8"
BLN-750	3/4"
BLN-875	7/8"
BLN-1000	1"

Tech Sheet 20855

316 STAINLESS STEEL TWIN FERRULE METRIC TUBE FITTINGS

stainless
steel



Male Connectors



Male Thread, NPT

0292	OD mm	Thread
MC-3-125N	3	1/8"
MC-3-250N	3	1/4"
MC-4-125N	4	1/8"
MC-4-250N	4	1/4"
MC-6-125N	6	1/8"
MC-6-250N	6	1/4"
MC-6-375N	6	3/8"
MC-6-500N	6	1/2"
MC-8-125N	8	1/8"
MC-8-250N	8	1/4"
MC-8-375N	8	3/8"
MC-8-500N	8	1/2"
MC-10-125N	10	1/8"
MC-10-250N	10	1/4"
MC-10-375N	10	3/8"
MC-10-500N	10	1/2"
MC-10-750N	10	3/4"
MC-12-125N	12	1/8"
MC-12-250N	12	1/4"
MC-12-375N	12	3/8"
MC-12-500N	12	1/2"
MC-12-750N	12	3/4"
MC-14-250N	14	1/4"
MC-14-375N	14	3/8"
MC-14-500N	14	1/2"
MC-15-500N	15	1/2"
MC-16-375N	16	3/8"
MC-16-500N	16	1/2"
MC-16-750N	16	3/4"
MC-18-500N	18	1/2"
MC-18-750N	18	3/4"
MC-20-500N	20	1/2"
MC-20-750N	20	3/4"
MC-22-750N	22	3/4"
MC-22-1000N	22	1"
MC-25-500N	25	1/2"
MC-25-750N	25	3/4"
MC-25-1000N	25	1"

Tech Sheet 20281



Male Thread, BSPT

0292	OD mm	Thread
MC-3-125RT	3	1/8"
MC-3-250RT	3	1/4"
MC-4-125RT	4	1/8"
MC-4-250RT	4	1/4"
MC-6-125RT	6	1/8"
MC-6-250RT	6	1/4"
MC-6-375RT	6	3/8"
MC-6-500RT	6	1/2"
MC-8-125RT	8	1/8"
MC-8-250RT	8	1/4"
MC-8-375RT	8	3/8"
MC-8-500RT	8	1/2"
MC-10-125RT	10	1/8"
MC-10-250RT	10	1/4"
MC-10-375RT	10	3/8"
MC-10-500RT	10	1/2"
MC-12-125RT	12	1/8"
MC-12-250RT	12	1/4"
MC-12-375RT	12	3/8"
MC-12-500RT	12	1/2"
MC-12-750RT	12	3/4"
MC-15-500RT	15	1/2"
MC-16-250RT	16	1/4"
MC-16-375RT	16	3/8"
MC-16-500RT	16	1/2"
MC-16-750RT	16	3/4"
MC-18-500RT	18	1/2"
MC-18-750RT	18	3/4"
MC-20-500RT	20	1/2"
MC-20-750RT	20	3/4"
MC-22-750RT	22	3/4"
MC-22-1000RT	22	1"
MC-25-750RT	25	3/4"
MC-25-1000RT	25	1"

Tech Sheet 20278



Male Thread, BSPP (Captive Seal)

0292	OD mm	Thread
OMC-6-125EO	6	1/8"
OMC-6-250EO	6	1/4"
OMC-6-375EO	6	3/8"
OMC-6-500EO	6	1/2"
OMC-10-250EO	10	1/4"
OMC-10-375EO	10	3/8"
OMC-10-500EO	10	1/2"
OMC-12-250EO	12	1/4"
OMC-12-375EO	12	3/8"
OMC-12-500EO	12	1/2"

Tech Sheet 20856



Male Thread-RS, BSPP

0292	OD mm	Thread
MC-3-125RS	3	1/8"
MC-3-250RS	3	1/4"
MC-4-125RS	4	1/8"
MC-6-125RS	6	1/8"
MC-6-250RS	6	1/4"
MC-6-375RS	6	3/8"
MC-6-500RS	6	1/2"
MC-8-125RS	8	1/8"
MC-8-250RS	8	1/4"
MC-8-375RS	8	3/8"
MC-8-500RS	8	1/2"
MC-10-250RS	10	1/4"
MC-10-375RS	10	3/8"
MC-10-500RS	10	1/2"
MC-12-250RS	12	1/4"
MC-12-375RS	12	3/8"
MC-12-500RS	12	1/2"
MC-12-750RS	12	3/4"
MC-16-375RS	16	3/8"
MC-16-500RS	16	1/2"
MC-18-500RS	18	1/2"
MC-18-750RS	18	3/4"
MC-20-500RS	20	1/2"
MC-20-750RS	20	3/4"
MC-22-750RS	22	3/4"
MC-22-1000RS	22	1"
MC-25-750RS	25	3/4"
MC-25-1000RS	25	1"

Tech Sheet 20279

stainless
steel



You might also need
Stainless Steel Tubing
see page 70

316 STAINLESS STEEL TWIN FERRULE METRIC TUBE FITTINGS

stainless steel



1



Female Connectors



Female Thread, NPT

0292	OD mm	Thread
FC-3-125N	3	1/8"
FC-3-250N	3	1/4"
FC-4-125N	4	1/8"
FC-6-125N	6	1/8"
FC-6-250N	6	1/4"
FC-6-375N	6	3/8"
FC-6-500N	6	1/2"
FC-8-125N	8	1/8"
FC-8-250N	8	1/4"
FC-8-375N	8	3/8"
FC-8-500N	8	1/2"
FC-10-250N	10	1/4"
FC-10-375N	10	3/8"
FC-10-500N	10	1/2"
FC-12-250N	12	1/4"
FC-12-375N	12	3/8"
FC-12-500N	12	1/2"
FC-15-500N	15	1/2"
FC-16-500N	16	1/2"
FC-20-500N	20	1/2"
FC-20-750N	20	3/4"
FC-22-750N	22	3/4"
FC-22-1000N	22	1"
FC-25-750N	25	3/4"
FC-25-1000N	25	1"

Tech Sheet 20275

Female Thread, BSPT

0292	OD mm	Thread
FC-3-125RT	3	1/8"
FC-6-125RT	6	1/8"
FC-6-250RT	6	1/4"
FC-6-375RT	6	3/8"
FC-6-500RT	6	1/2"
FC-8-125RT	8	1/8"
FC-8-250RT	8	1/4"
FC-8-375RT	8	3/8"
FC-8-500RT	8	1/2"
FC-10-125RT	10	1/8"
FC-10-250RT	10	1/4"
FC-10-375RT	10	3/8"
FC-10-500RT	10	1/2"
FC-12-125RT	12	1/8"
FC-12-250RT	12	1/4"
FC-12-375RT	12	3/8"
FC-12-500RT	12	1/2"
FC-12-750RT	12	3/4"
FC-15-375RT	15	3/8"
FC-15-500RT	15	1/2"
FC-20-500RT	20	1/2"
FC-20-750RT	20	3/4"
FC-22-750RT	22	3/4"
FC-22-1000RT	22	1"
FC-25-750RT	25	3/4"
FC-25-1000RT	25	1"

Tech Sheet 20274

Female Thread, BSPP

0292	OD mm	Thread
FC-3-250RG	3	1/4"
FC-6-250RG	6	1/4"
FC-6-375RG	6	3/8"
FC-6-500RG	6	1/2"
FC-8-250RG	8	1/4"
FC-8-375RG	8	3/8"
FC-8-500RG	8	1/2"
FC-10-250RG	10	1/4"
FC-10-375RG	10	3/8"
FC-10-500RG	10	1/2"
FC-12-250RG	12	1/4"
FC-12-375RG	12	3/8"
FC-12-500RG	12	1/2"
FC-20-500RG	20	1/2"
FC-22-500RG	22	1/2"

Tech Sheet 20273



Bulkhead Male Connectors



Male Thread, NPT

0292	OD mm	Thread
BMC-6-125N	6	1/8"
BMC-6-250N	6	1/4"
BMC-8-125N	8	1/8"
BMC-8-250N	8	1/4"
BMC-10-250N	10	1/4"
BMC-10-375N	10	3/8"
BMC-10-500N	10	1/2"
BMC-12-250N	12	1/4"
BMC-12-375N	12	3/8"
BMC-12-500N	12	1/2"

Tech Sheet 20276

Bulkhead Female Connectors



Female Thread, NPT

0292	OD mm	Thread
BFC-6-125N	6	1/8"
BFC-6-250N	6	1/4"
BFC-8-125N	8	1/8"
BFC-10-250N	10	1/4"
BFC-12-375N	12	3/8"
BFC-12-500N	12	1/2"

Tech Sheet 20277

Rigid Fluid Conveyance



316 STAINLESS STEEL TWIN FERRULE METRIC TUBE FITTINGS

stainless
steel



Unions



Tube x Tube

0292	OD mm
U-3	3
U-4	4
U-6	6
U-8	8
U-10	10
U-12	12
U-15	15
U-16	16
U-18	18
U-20-FT	20
U-22	22
U-25	25

Tech Sheet 20266

Reducing Unions



Tube x Tube

0292	OD mm	OD mm
RU-6-3	6	3
RU-6-4	6	4
RU-8-6	8	6
RU-10-6	10	6
RU-10-8	10	8
RU-12-6	12	6
RU-12-8	12	8
RU-12-10	12	10
RU-16-10	16	10
RU-16-12	16	12
RU-18-12	18	12
RU-25-18	25	18
RU-25-20	25	20

Tech Sheet 20267

Bulkhead Unions



Tube x Tube

0292	OD mm
BU-3-FT	3
BU-4	4
BU-6	6
BU-8	8
BU-10	10
BU-12-FT	12
BU-14	14
BU-15	15
BU-16	16
BU-18	18
BU-20	20

Tech Sheet 20272

Male Branch Tees



Male Thread, NPT

0292	OD mm	Thread
MBT-6-125N	6	1/8"
MBT-6-250N	6	1/4"
MBT-8-125N	8	1/8"
MBT-8-250N	8	1/4"
MBT-10-250N	10	1/4"
MBT-12-250N	12	1/4"
MBT-12-375N	12	3/8"
MBT-12-500N	12	1/2"
MBT-16-500N	16	1/2"

Tech Sheet 20269

Male Positionable Branch Tees



Male Thread, BSPP

0292	OD mm	Thread
MBTP-6-125PR	6	1/8"
MBTP-6-250PR	6	1/4"
MBTP-8-125PR	8	1/8"
MBTP-8-250PR	8	1/4"
MBTP-10-250PR	10	1/4"
MBTP-12-375PR	12	3/8"
MBTP-12-500PR	12	1/2"

Tech Sheet 20861

Male Run Tees



Male Thread, NPT

0292	OD mm	Thread
MRT-6-125N	6	1/8"
MRT-6-250N	6	1/4"
MRT-8-250N	8	1/4"
MRT-12-250N	12	1/4"
MRT-12-375N	12	3/8"
MRT-12-500N	12	1/2"
MRT-16-500N	16	1/2"

Tech Sheet 20268

Male Positionable Run Tees



Male Thread, BSPP

0292	OD mm	Thread
MRTP-6-125PR	6	1/8"
MRTP-6-250PR	6	1/4"
MRTP-8-125PR	8	1/8"
MRTP-8-250PR	8	1/4"
MRTP-10-250PR	10	1/4"
MRTP-12-375PR	12	3/8"
MRTP-12-500PR	12	1/2"

Tech Sheet 20863

Female Branch Tees



Female Thread, NPT

0292	OD mm	Thread
FBT-6-125N	6	1/8"
FBT-6-250N	6	1/4"
FBT-8-125N	8	1/8"
FBT-8-250N	8	1/4"
FBT-10-250N	10	1/4"
FBT-12-250N	12	1/4"
FBT-12-375N	12	3/8"
FBT-16-500N	16	1/2"

Tech Sheet 20271

Female Run Tees



Female Thread, NPT

0292	OD mm	Thread
FRT-6-125N	6	1/8"
FRT-6-250N	6	1/4"
FRT-8-125N	8	1/8"
FRT-8-250N	8	1/4"
FRT-10-250N	10	1/4"
FRT-12-250N	12	1/4"
FRT-12-375N	12	3/8"
FRT-16-500N	16	1/2"

Tech Sheet 20270

316 STAINLESS STEEL TWIN FERRULE METRIC TUBE FITTINGS

stainless steel



Rigid Fluid Conveyance



Male Elbows



Male Thread, NPT

0292	OD mm	Thread
ME-3-250N	3	1/4"
ME-4-125N	4	1/8"
ME-4-250N	4	1/4"
ME-6-125N	6	1/8"
ME-6-250N	6	1/4"
ME-6-375N	6	3/8"
ME-6-500N	6	1/2"
ME-8-125N	8	1/8"
ME-8-250N	8	1/4"
ME-8-375N	8	3/8"
ME-8-500N	8	1/2"
ME-10-250N	10	1/4"
ME-10-375N	10	3/8"
ME-10-500N	10	1/2"
ME-12-250N	12	1/4"
ME-12-375N	12	3/8"
ME-12-500N	12	1/2"
ME-12-750N	12	3/4"
ME-15-500N	15	1/2"
ME-16-375N	16	3/8"
ME-16-500N	16	1/2"
ME-16-750N	16	3/4"
ME-18-500N	18	1/2"
ME-18-750N	18	3/4"
ME-20-500N	20	1/2"
ME-22-750N	22	3/4"
ME-22-1000N	22	1"
ME-25-750N	25	3/4"
ME-25-1000N	25	1"

Tech Sheet 20264



Male Thread, BSPT

0292	OD mm	Thread
ME-3-125RT	3	1/8"
ME-3-250RT	3	1/4"
ME-4-125RT	4	1/8"
ME-4-250RT	4	1/4"
ME-6-125RT	6	1/8"
ME-6-250RT	6	1/4"
ME-6-375RT	6	3/8"
ME-6-500RT	6	1/2"
ME-8-125RT	8	1/8"
ME-8-250RT	8	1/4"
ME-8-375RT	8	3/8"
ME-8-500RT	8	1/2"
ME-10-250RT	10	1/4"
ME-10-375RT	10	3/8"
ME-10-500RT	10	1/2"
ME-12-250RT	12	1/4"
ME-12-375RT	12	3/8"
ME-12-500RT	12	1/2"
ME-12-750RT	12	3/4"
ME-16-375RT	16	3/8"
ME-16-500RT	16	1/2"
ME-18-500RT	18	1/2"
ME-18-750RT	18	3/4"
ME-20-500RT	20	1/2"
ME-20-750RT	20	3/4"
ME-22-750RT	22	3/4"
ME-22-1000RT	22	1"
ME-25-750RT	25	3/4"
ME-25-1000RT	25	1"

Tech Sheet 20263

Female Elbows



Female Thread, NPT

0292	OD mm	Thread
FE-6-125N	6	1/8"
FE-6-250N	6	1/4"
FE-6-500N	6	1/2"
FE-8-250N	8	1/4"
FE-10-125N	10	1/8"
FE-10-250N	10	1/4"
FE-12-250N	12	1/4"
FE-12-375N	12	3/8"
FE-12-500N	12	1/2"
FE-16-500N	16	1/2"

Tech Sheet 20265



Male Thread, BSPP

0292	OD mm	Thread
MEP-6-125PR	6	1/8"
MEP-6-250PR	6	1/4"
MEP-8-125PR	8	1/8"
MEP-8-250PR	8	1/4"
MEP-10-250PR	10	1/4"
MEP-10-375PR	10	3/8"
MEP-12-250PR	12	1/4"
MEP-12-375PR	12	3/8"
MEP-12-500PR	12	1/2"
MEP-12-750PR	12	3/4"

Tech Sheet 20265

Positionable Elbows

Union Elbows



Tube x Tube

0292	OD mm
UE-3	3
UE-4	4
UE-6	6
UE-8	8
UE-10	10
UE-12	12
UE-14	14
UE-15	15
UE-16	16
UE-18	18
UE-20	20
UE-22	22
UE-25	25

Tech Sheet 20261

Union Tees



Tube x Tube

0292	OD mm
UT-3	3
UT-4	4
UT-6	6
UT-8	8
UT-10	10
UT-12	12
UT-14	14
UT-15	15
UT-16	16
UT-18	18
UT-20	20
UT-22	22
UT-25	25

Tech Sheet 20260

Union Crosses



Tube x Tube

0292	OD mm
UC-3	3
UC-6	6
UC-8	8
UC-10	10
UC-12	12
UC-16	16
UC-18	18
UC-20	20
UC-25	25

Tech Sheet 20262

316 STAINLESS STEEL TWIN FERRULE METRIC TUBE FITTINGS

stainless
steel



Weld Union, Connectors



Tube x Tube

0292	OD mm	Stem OD
MWC-3-125	3	1/8"
MWC-4-125	4	1/8"
MWC-6-125	6	1/8"
MWC-6-250	6	1/4"
MWC-8-125	8	1/8"
MWC-8-250	8	1/4"
MWC-8-500	8	1/2"
MWC-10-250	10	1/4"
MWC-10-500	10	1/2"
MWC-12-250	12	1/4"
MWC-12-375	12	3/8"
MWC-12-500	12	1/2"
MWC-14-375	14	3/8"
MWC-15-500	15	1/2"
MWC-16-500	16	1/2"
MWC-18-500	18	1/2"

Tech Sheet 20873

Port Connectors



Tube x Tube

0292	OD mm
PC-3	3
PC-6	6
PC-8	8
PC-10	10
PC-12-FT	12
PC-15-FT	15
PC-16	16
PC-18-FT	18
PC-20	20
PC-25	25

Tech Sheet 20874

Reducing Port Connectors



Tube x Tube

0292	OD mm	Stem OD mm
RPC-6-3	6	3
RPC-8-6	8	6
RPC-10-6	10	6
RPC-10-8	10	8
RPC-12-6	12	6
RPC-12-8	12	8
RPC-12-10	12	10
RPC-16-12	16	12

Tech Sheet 20875

Reducers



Tube x Tube

0292	OD mm	Stem OD mm
R-3-4	3	4
R-3-6	3	6
R-3-10	3	10
R-4-6	4	6
R-6-3	6	3
R-6-8	6	8
R-6-10	6	10
R-6-12	6	12
R-6-18	6	18
R-8-6	8	6
R-8-10	8	10
R-8-12	8	12
R-10-6	10	6
R-10-12	10	12
R-10-15	10	15
R-10-18	10	18
R-12-6	12	6
R-12-8	12	8
R-12-10	12	10
R-12-16	12	16
R-12-18	12	18
R-12-20	12	20
R-12-22	12	22
R-12-25	12	25
R-16-12	16	12
R-18-12	18	12
R-18-16	18	16
R-18-20	18	20
R-18-22	18	22
R-18-25	18	25
R-20-16	20	16
R-20-22	20	22
R-20-25	20	25
R-22-18	22	18
R-22-20	22	20
R-22-25	22	25
R-25-18	25	18
R-25-20	25	20

Tech Sheet 20258



Metric Tube x Imperial Tube

0292	OD mm	Stem OD
R-3-125	3	1/8"
R-3-250	3	1/4"
R-4-250	4	1/4"
R-6-125	6	1/8"
R-6-250	6	1/4"
R-6-312	6	5/16"
R-6-375	6	3/8"
R-6-500	6	1/2"
R-8-375	8	3/8"
R-8-500	8	1/2"
R-10-375	10	3/8"
R-10-500	10	1/2"
R-12-500	12	1/2"
R-12-750	12	3/4"
R-18-750	18	3/4"
R-25-1000	25	1"

Tech Sheet 20877

Caps



Tube

0292	OD mm
C-3	3
C-4	4
C-6	6
C-8	8
C-10	10
C-12	12
C-14	14
C-15	15
C-16	16
C-18	18
C-20	20
C-22	22
C-25	25

Tech Sheet 20259

316 STAINLESS STEEL TWIN FERRULE METRIC TUBE FITTINGS

stainless steel



1



Rigid Fluid Conveyance



Plugs



Tube

0292	OD mm
P-3-FT	3
P-4	4
P-6-FT	6
P-8	8
P-10	10
P-12	12
P-15	15
P-16	16
P-18	18
P-20	20
P-22	22
P-25	25

Tech Sheet 20254

Nuts



Tube

0292	OD mm
N-3	3
N-4	4
N-6	6
N-8	8
N-10	10
N-12	12
N-15	15
N-16	16
N-18	18
N-20	20
N-25	25

Tech Sheet 20255

Back Ferrules



Tube

0292	OD mm
BF-3	3
BF-4	4
BF-6	6
BF-8	8
BF-10	10
BF-12	12
BF-14	14
BF-15	15
BF-16	16
BF-18	18
BF-20	20
BF-22	22
BF-25	25

Tech Sheet 20257

Front Ferrules



Tube

0292	OD mm
FF-3	3
FF-4	4
FF-6	6
FF-8	8
FF-10	10
FF-12	12
FF-14	14
FF-15	15
FF-16	16
FF-18	18
FF-20	20
FF-22	22
FF-25	25

Tech Sheet 20256

Lock Nuts



To suit Bulkheads

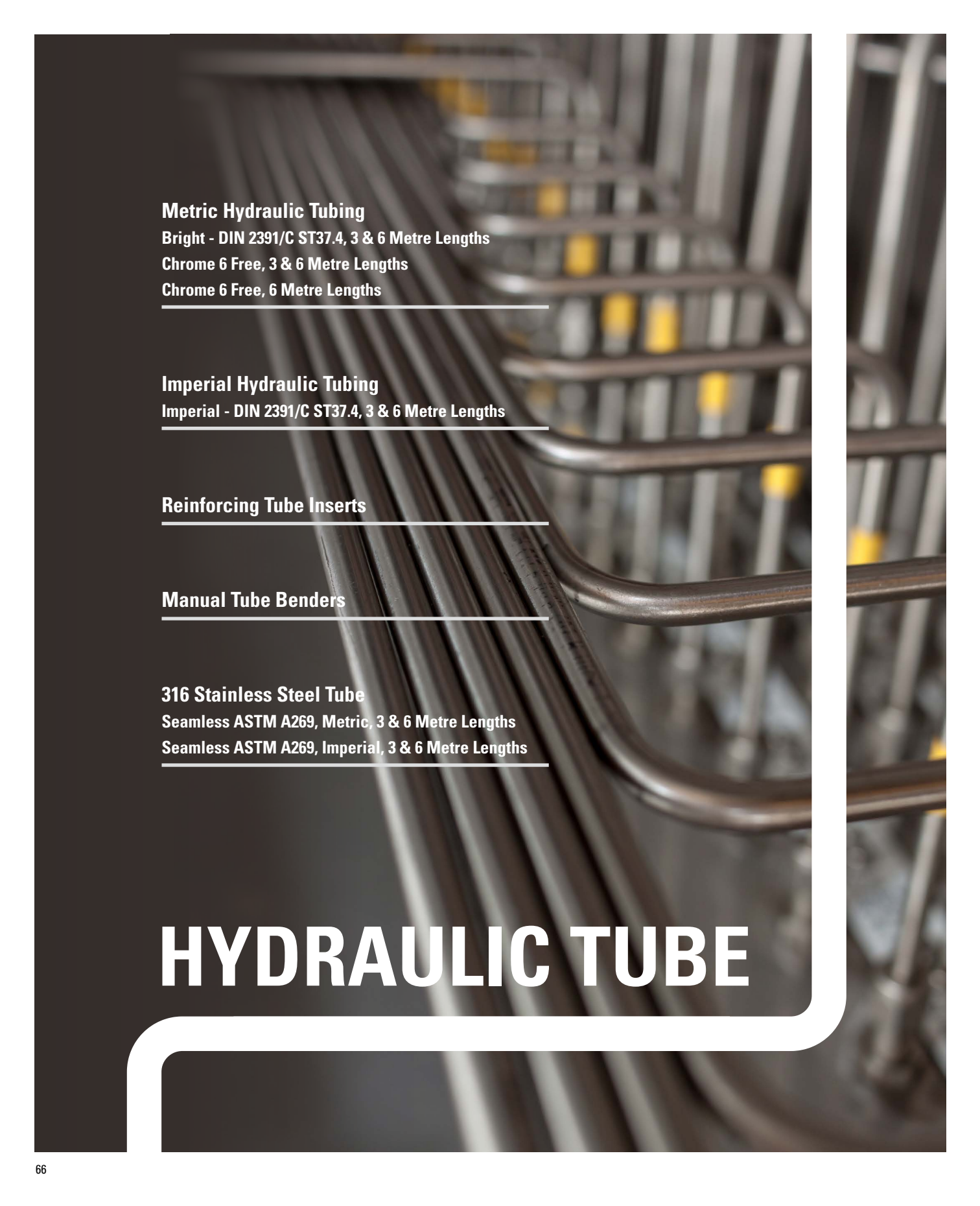
0292	OD mm
BLN-3	3
BLN-4	4
BLN-6	6
BLN-8	8
BLN-10-FT	10
BLN-12-FT	12
BLN-14	14
BLN-16-FT	16
BLN-18	18
BLN-20-FT	20

Tech Sheet 20883

stainless steel



For Stainless Steel Tubing see page 70



Metric Hydraulic Tubing

Bright - DIN 2391/C ST37.4, 3 & 6 Metre Lengths

Chrome 6 Free, 3 & 6 Metre Lengths

Chrome 6 Free, 6 Metre Lengths

Imperial Hydraulic Tubing

Imperial - DIN 2391/C ST37.4, 3 & 6 Metre Lengths

Reinforcing Tube Inserts

Manual Tube Benders

316 Stainless Steel Tube

Seamless ASTM A269, Metric, 3 & 6 Metre Lengths

Seamless ASTM A269, Imperial, 3 & 6 Metre Lengths

HYDRAULIC TUBE

METRIC HYDRAULIC TUBING



Hydraulic Tubing

Maximum working pressure has been determined according to DIN 2413 scope of application 1, for primarily static load at temperatures up to 120°C.

3 metre lengths next day.

6 metre lengths may take up to 3 working days to be delivered, dependant on weight and delivery address location. Additional carriage charges may apply.

For full details please contact our Business Development Team.

Minimum of 10 Lengths is advised up to 8mm to prevent damage in transit.



Bright - DIN 2391/C ST37.4, 3 Metre Lengths

0201	OD mm	Wall Thickness mm	Pressure Kg/cm ²
HST4X1.0	4	1.0	624
HST6X1.0	6	1.0	365
HST6X1.5	6	1.5	624
HST6X2.0	6	2.0	989
HST8X2.0	8	2.0	624
HST12X2.5	12	2.5	485
HST14X1.5	14	1.5	217
HST14X2.0	14	2.0	303
HST16X2.5	16	2.5	337
HST18X2.0	18	2.0	226
HST18X2.5	18	2.5	300
HST20X2.5	20	2.5	259
HST20X3.0	20	3.0	321
HST20X3.5	20	3.5	388
HST22X1.5	22	1.5	132
HST22X2.0	22	2.0	181
HST25X1.5	25	1.5	115
HST25X2.0	25	2.0	157
HST25X2.5	25	2.5	201
HST25X3.0	25	3.0	257
HST28X1.5	28	1.5	102
HST28X2.5	28	2.5	177
HST28X3.0	28	3.0	217
HST30X2.5	30	2.5	164
HST30X4.0	30	4.0	279
HST35X2.0	35	2.0	109
HST35X2.5	35	2.5	139
HST35X3.0	35	3.0	169
HST35X5.0	35	5.0	303
HST38X3.0	38	3.0	155
HST38X5.0	38	5.0	275
HST42X3.0	42	3.0	139
HST42X4.0	42	4.0	190

Bright - DIN 2391/C ST37.4, 6 Metre Lengths

0201	OD mm	Wall Thickness mm	Pressure Kg/cm ²
HST4X1.0-6M	4	1.0	624
HST6X1.0-6M	6	1.0	365
HST6X1.5-6M	6	1.5	624
HST6X2.0-6M	6	2.0	989
HST8X2.0-6M	8	2.0	624
HST12X2.5-6M	12	2.5	485
HST14X1.5-6M	14	1.5	217
HST14X2.0-6M	14	2.0	303
HST16X2.5-6M	16	2.5	337
HST18X2.0-6M	18	2.0	226
HST18X2.5-6M	18	2.5	300
HST20X2.5-6M	20	2.5	259
HST20X3.0-6M	20	3.0	321
HST20X3.5-6M	20	3.5	388
HST22X1.5-6M	22	1.5	132
HST22X2.0-6M	22	2.0	181
HST25X1.5-6M	25	1.5	115
HST25X2.0-6M	25	2.0	157
HST25X2.5-6M	25	2.5	201
HST25X3.0-6M	25	3.0	247
HST28X1.5-6M	28	1.5	102
HST28X2.5-6M	28	2.5	177
HST28X3.0-6M	28	3.0	217
HST30X2.5-6M	30	2.5	164
HST30X4.0-6M	30	4.0	279
HST35X2.0-6M	35	2.0	109
HST35X2.5-6M	35	2.5	139
HST35X3.0-6M	35	3	169
HST35X5.0-6M	35	5	303
HST38X3.0-6M	38	3.0	155
HST38X5.0-6M	38	5.0	275
HST42X3.0-6M	42	3.0	139
HST42X4.0-6M	42	4	190

Hydraulic Tubing

3 metre lengths next day.

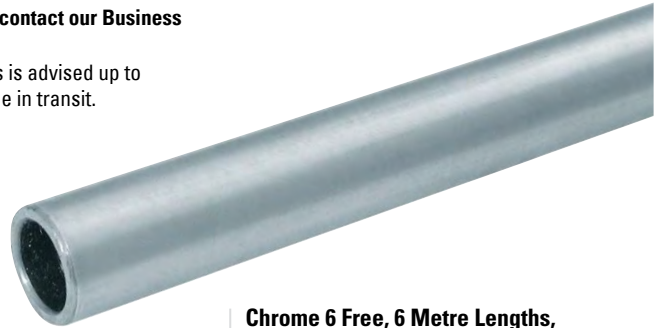
6 metre lengths may take up to 3 working days to be delivered, dependant on weight and delivery address location. Additional carriage charges may apply.

Chrome 6 Free, 3 Metre Lengths

0201	OD mm	Wall Thickness mm	Pressure Kg/cm ²
HST4X1.0-C6F	4	1	624
HST6X1.0-C6F	6	1	365
HST6X1.5-C6F	6	1.5	624
HST6X2.0-C6F	6	2	989
HST8X1.0-C6F	8	1	259
HST8X1.5-C6F	8	1.5	423
HST8X2.0-C6F	8	2	624
HST10X1.0-C6F	10	1	201
HST10X1.5-C6F	10	1.5	321
HST10X2.0-C6F	10	2	460
HST12X1.0-C6F	12	1	164
HST12X1.5-C6F	12	1.5	259
HST12X2.0-C6F	12	2	365
HST14X1.5-C6F	14	1.5	217
HST14X2.0-C6F	14	2	303
HST15X1.5-C6F	15	1.5	201
HST15X2.0-C6F	15	2	279
HST16X1.5-C6F	16	1.5	187
HST16X2.0-C6F	16	2	259
HST16X2.5-C6F	16	2.5	337
HST16X3.0-C6F	16	3	423
HST18X1.5-C6F	18	1.5	164
HST18X2.0-C6F	18	2	226
HST18X2.5-C6F	18	2.5	300
HST20X2.0-C6F	20	2	201
HST20X2.5-C6F	20	2.5	259
HST20X3.0-C6F	20	3	321
HST20X3.5-C6F	20	3.5	388
HST20X4.0-C6F	20	4	460
HST22X1.5-C6F	22	1.5	132
HST22X2.0-C6F	22	2	181
HST22X2.5-C6F	22	2.5	232
HST25X1.5-C6F	25	1.5	115
HST25X2.0-C6F	25	2	157
HST25X2.5-C6F	25	2.5	201
HST25X3.0-C6F	25	3	247
HST25X4.0-C6F	25	4	347
HST28X1.5-C6F	28	1.5	102
HST28X2.0-C6F	28	2	139
HST28X2.5-C6F	28	2.5	177
HST28X3.0-C6F	28	3	217
HST30X2.5-C6F	30	2.5	164
HST30X3.0-C6F	30	3	201
HST30X4.0-C6F	30	4	279
HST35X2.0-C6F	35	2	109
HST35X2.5-C6F	35	2.5	139
HST35X3.0-C6F	35	3	169
HST35X5.0-C6F	35	5	303
HST38X3.0-C6F	38	3	155
HST38X4.0-C6F	38	4	213
HST42X3.0-C6F	42	3	139
HST42X4.0-C6F	42	4	190
HST50X3.0-C6F	50	3	115
HST50X5.0-C6F	50	5	201
HST50X6.0-C6F	50	6	247

For full details please contact our Business Development Team.

Minimum of 10 Lengths is advised up to 8mm to prevent damage in transit.



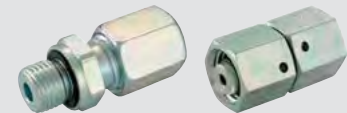
Chrome 6 Free, 6 Metre Lengths

0201	OD mm	Wall Thickness mm	Pressure Kg/cm ²
HST10X1.0-C6F-6M	10	1	201
HST10X1.5-C6F-6M	10	1.5	321
HST10X2.0-C6F-6M	10	2	460
HST12X1.0-C6F-6M	12	1	164
HST12X1.5-C6F-6M	12	1.5	259
HST12X2.0-C6F-6M	12	2	365
HST14X1.5-C6F-6M	14	1.5	217
HST14X2.0-C6F-6M	14	2	303
HST15X1.5-C6F-6M	15	1.5	201
HST15X2.0-C6F-6M	15	2	279
HST16X1.5-C6F-6M	16	1.5	187
HST16X2.0-C6F-6M	16	2	259
HST16X2.5-C6F-6M	16	2.5	337
HST16X3.0-C6F-6M	16	3	423
HST18X1.5-C6F-6M	18	1.5	164
HST18X2.0-C6F-6M	18	2	226
HST18X2.5-C6F-6M	18	2.5	392
HST20X2.0-C6F-6M	20	2	201
HST20X2.5-C6F-6M	20	2.5	259
HST20X3.0-C6F-6M	20	3	321
HST20X3.5-C6F-6M	20	3.5	388
HST20X4.0-C6F-6M	20	4	460
HST22X1.5-C6F-6M	22	1.5	132
HST22X2.0-C6F-6M	22	2	181
HST22X2.5-C6F-6M	22	2.5	232
HST25X1.5-C6F-6M	25	1.5	115
HST25X2.0-C6F-6M	25	2	157
HST25X2.5-C6F-6M	25	2.5	232
HST25X3.0-C6F-6M	25	3	247
HST25X4.0-C6F-6M	25	4	347
HST28X1.5-C6F-6M	28	1.5	102
HST28X2.0-C6F-6M	28	2	139
HST28X2.5-C6F-6M	28	2.5	177
HST28X3.0-C6F-6M	28	3	217
HST30X2.5-C6F-6M	30	2.5	164
HST30X3.0-C6F-6M	30	3	201
HST30X4.0-C6F-6M	30	4	279
HST35X2.0-C6F-6M	35	2	109
HST35X2.5-C6F-6M	35	2.5	139
HST35X3.0-C6F-6M	35	3	169
HST35X5.0-C6F-6M	35	5	303
HST38X3.0-C6F-6M	38	3	155
HST38X4.0-C6F-6M	38	4	213
HST42X3.0-C6F-6M	42	3	139
HST42X4.0-C6F-6M	42	4	190
HST50X3.0-C6F-6M	50	3	115
HST50X5.0-C6F-6M	50	5	201
HST50X6.0-C6F-6M	50	6	247

Chrome 6 Free, 6 Metre Lengths, Bundles of 10

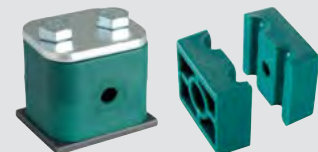
0201	OD mm	Wall Thickness mm	Pressure Kg/cm ²
HST4X1.0-C6F-6M	4	1	624
HST6X1.0-C6F-6M	6	1	365
HST6X1.5-C6F-6M	6	1.5	624
HST6X2.0-C6F-6M	6	2	989
HST8X1.0-C6F-6M	8	1	259
HST8X1.5-C6F-6M	8	1.5	423
HST8X2.0-C6F-6M	8	2	624

EATON
Walterscheid



Hydraulic Fittings
see pages 9-25

RSB



Hydraulic Tube Clamps
see pages 72-87



IMPERIAL HYDRAULIC TUBING

Hydraulic Tubing

Maximum working pressure has been determined according to DIN 2413 scope of application 1, for primarily static load at temperatures up to 120°C.

3 metre lengths next day.

6 metre lengths may take up to 3 working days to be delivered, dependant on weight and delivery address location. Additional carriage charges may apply.

For full details please contact our Business Development Team.
Other gauges available on request.



Imperial - DIN 2391/C ST37.4, 3 Metre Lengths

0201	OD	SWG	Max Pressure Bar
HST1/4X16G-3M	1/4"	16	648
HST3/8X16G-3M	3/8"	16	377
HST1/2X16G-3M	1/2"	16	267
HST5/8X16G-3M	5/8"	16	207
HST3/4X16G-3M	3/4"	16	169
HST1X16G-3M	1"	16	124
HST1.1/4X16G-3M	1.1/4"	16	98
HST1.1/2X16G-3M	1.1/2"	16	81

Imperial - DIN 2391/C ST37.4, 6 Metre Lengths

0201	OD	SWG	Max Pressure Bar
HST1/4X16G-6M	1/4"	16	648
HST3/8X16G-6M	3/8"	16	377
HST1/2X16G-6M	1/2"	16	267
HST5/8X16G-6M	5/8"	16	207
HST3/4X16G-6M	3/4"	16	169
HST1X16G-6M	1"	16	124
HST1.1/4X16G-6M	1.1/4"	16	98
HST1.1/2X16G-6M	1.1/2"	16	81

HYDRAULIC TUBING MANIPULATION

Reinforcing Tube Inserts



For use with Thin Wall Hydraulic Steel Tube

0350	To Fit Tube Size mm	ID mm
EH4MS	6 x 1	4
EH5MS	6 x 0.5	5
EH6MS	8 x 1	6
EH7MS	10 x 1.5	7
EH8MS	10 x 1	8
EH9MS	12 x 1.5	9
EH10MS	12 x 1	10
EH12MS	14 x 1 & 15 x 1.5	12
EH13MS	15 x 1	13
EH15MS	18 x 1.5	15
EH16MS	18 x 1	16
EH18MS	20 x 1	18
EH19MS	22 x 1.5	19
EH20MS	22 x 1	20
EH24MS	28 x 2	24
EH25MS	28 x 1.5	25

Tech Sheet 1715

Manual Tube Benders

The tube bender is for use in manual vice. The kit contains 3 bending dies.

- Die 1: 6mm and 8mm tube
- Die 2: 10mm tube
- Die 3: 12mm tube

Tube Size Bend Radius

- 6mm 19.5mm
 - 8mm 20.5mm
 - 10mm 25.5mm
 - 12mm 26.5mm
- Tolerance +/-2mm



To suit Tube O.D. 6mm-12mm

0027
SBVO-612

The tube bender is for use in manual vice. The kit contains 6 bending dies with O.D. 6mm to 18mm, (1/8" to 3/8").

- Die 1: 6mm and 8mm tube
- Die 2: 10mm tube
- Die 3: 12mm tube
- Die 4: 14mm tube
- Die 5: 16mm tube
- Die 6: 18mm tube



To suit Tube O.D. 6mm-18mm

0027
SBVO-618



316 Stainless Steel Tube

3 metre lengths next day.

6 metre lengths may take up to 3 working days to be delivered, dependant on weight and delivery address location. Additional carriage charges may apply.

For full details please contact our Business Development Team.

Minimum of 10 lengths is advised up to 8mm to prevent damage in transit.



Rigid Fluid
Conveyance



Seamless ASTM A269, Metric, 6 Metre Lengths

0214	OD mm	Wall Thickness mm	Max Pressure Bar
765-0610-6M	6	1	428
765-6X1.5-6M	6	1.5	627
765-0810-6M	8	1	321
765-8X1.5-6M	8	1.5	472
765-1013-6M	10	1	257
765-10X1.5-6M	10	1.5	385
765-12X1.5-6M	12	1.5	321
765-1515-6M	15	1.5	257
765-16X1.5-6M	16	1.5	235
765-1602-6M	16	2	321
765-20X2-6M	20	2	257
765-25X2.5-6M	25	2.5	210
765-30X3-6M	30	3	257

Tech Sheet 831

Seamless ASTM A269, Metric, 3 Metre Lengths, Random

0214	OD mm	Wall Thickness mm	Max Pressure Bar
765-0610	6	1	428
765-6X1.5	6	1.5	627
765-6X2	6	2	942
765-0813	8	1	321
765-8X1.5	8	1.5	472
765-8X2	8	2	706
765-1013	10	1	257
765-10X1.5	10	1.5	385
765-10X2	10	2	564
765-1213	12	1	210
765-12X1.5	12	1.5	321
765-12X2	12	2	420
765-1513	15	1	200
765-15X1.5	15	1.5	257
765-15X2	15	2	376
765-16X1.5	16	1.5	235
765-16X2	16	2	321
765-18X1.5	18	1.5	235
765-18X2	18	2	314
765-20X1.5	20	1.5	212
765-20X2	20	2	257
765-20X3	20	3	424
765-22X1.5	22	1.5	193
765-22X2	22	2	256
765-25X1.5	25	1.5	169
765-25X2	25	2	226
765-25X2.5	25	2.5	210
765-25X3	25	3	339
765-28X2	28	2	201
765-30X3	30	3	257
765-35X3	35	3	242
765-42X3	42	3	201

Tech Sheet 831

Seamless ASTM A269, Imperial, 3 Metre Lengths, Random

0214	OD	SWG	Max Pressure Bar
2020-1372	1/8"	20	718
2020-1380	1/4"	20	360
2020-1406	3/8"	20	240
2020-1414	1/2"	20	180
2020-1422	3/4"	20	120
2020-1430	1"	20	90

Tech Sheet 831

Seamless ASTM A269, Imperial, 6 Metre Lengths, Random

0214	OD	SWG	Max Pressure Bar
2020-1372-6M	1/8"	20	750
2020-1380-6M	1/4"	20	360
2020-1406-6M	3/8"	20	240
2020-1414-6M	1/2"	20	180
2020-1422-6M	3/4"	20	120
2020-1430-6M	1"	20	90

Tech Sheet 831

 PANAM



You might also need...
Stainless Steel Fittings
see pages 52-65



HOSE & PIPE CLEANING KITS

The pellet launcher uses compressed air to fire a foam pellet through tube, pipe and hose, clearing soft deposits and loose debris as it travels through.

The pellet launcher is designed to operate at 80-110 psi and should be connected, by a 3/8" (10mm) ID air line, to an air source NOT exceeding 150 psi.

 **Maximum Working Pressure:**
10 bar

Pellet Launcher Kits

The mobile kit is specifically for use with hose, tube and pipe from 5mm to 50mm. The hose nozzle fits over the tube, hose or pipe to be cleaned.

The specially designed and extremely robust pellet launcher controls the air flow. It attaches to a 50mm crimp head through a patented interlocking system. The nozzles are inserted into the head. These are designed to reduce the pellet in size for insertion into the pipe.

All nozzles fit into the 50mm crimp head. All kits come in a case with instruction manuals and a pellet usage chart for identifying the correct pellets to use with your application.

This kit consist of the following:

- AM-1™ hand piece
- 50mm crimp head
- Adapter ring
- White hose nozzles: 6, 8, 10, 13, 16, 19, 25, 32, 38 and 50mm



Mobile Kit

0489	Thread	Nozzle Quantity	Nozzle Hole Size
MOBI-KIT	1/4"	10 x Hose Nozzles	6mm to 50mm
Tech Sheet 60438			

Pellets used in the system will travel through 90° angles, tee joints, coils, U tubes, bore and straight-through valves.

The specially designed and extremely robust pellet launcher controls the air flow. It attaches to the 32mm and 50mm heads through a patented interlocking system. The nozzles are inserted into the head. These are designed to reduce the pellet in size for insertion into the pipe.

All nozzles fit into either the 32mm or 50mm heads. All kits come in a case with instruction manuals and a pellet usage chart for identifying the correct pellets to use with your application.

This kit consist of the following:

- AM-1™ hand piece
- 32mm and 50mm heads
- White hose nozzles: 6, 8, 10, 13, 16, 19, 25, 32, 38 and 50mm
- Green tube and JIC nozzles: 5, 6, 8, 10, 13, 16, 19, 22, 25, 32, 38 and 50mm
- Blue BSP nozzles: 6, 10, 13, 16, 19, 25 and 32mm



Full Kit

0489	Thread	Nozzle Quantity	Nozzle Hole Size
FULL-KIT	1/4"	31 x Hose Nozzles	6mm to 50mm
Tech Sheet 60439			

Foam Pellets

Standard pellets are designed for removal of debris from all hose, tube or pipe, without fittings. Pellets are manufactured from foam and should be approximately 15-20% larger than the ID of the hose, tube or pipe being cleaned. Please select the pellet closest to the size required from the list.



Standard

0490	OD mm
NSP007	7
NSP008	8
NSP010	10
NSP012	12
NSP014	14
NSP016	16
NSP018	18
NSP020	20
NSP022	22
NSP024	24
NSP026	26
NSP028	28
NSP030	30
NSP033	33
NSP035	35
NSP040	40
NSP045	45
NSP050	50
NSP055	55
NSP060	60

These multipurpose pellets are designed for use in complex assemblies, hoses with fittings and to eliminate fine particles of contamination. Pellets are manufactured from foam and should be approximately 15-20% larger than the ID of the hose, tube or pipe being cleaned. Please select the pellet closest to the size required from the list.



General Purpose

0490	OD mm
MPP007	7
MPP008	8
MPP010	10
MPP012	12
MPP014	14
MPP016	16
MPP018	18
MPP020	20
MPP022	22
MPP024	24
MPP026	26
MPP028	28
MPP030	30
MPP033	33
MPP035	35
MPP040	40
MPP045	45
MPP050	50
MPP055	55
MPP060	60

Hydraulic Tube Clamps

Our quality range of Hydraulic Tube Clamps have been manufactured to the highest specifications using quality materials and conforms to DIN 3015 and DIN 3570 Standards.

The vast range includes:

Light, heavy and double units in sizes ranging from 6mm to 168.3mm. Body materials of polypropylene, polyamide, rubber and aluminium, also with plates and bolts in steel (zinc plated) and stainless steel offering anti-corrosion and fire retardant options. U bolts, pipe saddles, steel clamps and O clamps are available.

The range is tried, tested and used extensively throughout the world's manufacturing facilities and in the mobile plant industry.

If you have any requirements for sizes or types of clamps not shown in the catalogue, please contact a member of our sales team.

Applications:

- Hydraulics
- Construction
- Agriculture
- Mining
- OEM Machine Building
- Offshore
- Marine
- Automotive Technology
- Machine Tool
- Lubrication Systems



RBS clamps according to DIN 3015 are DNV certified

HYDRAULIC TUBE CLAMPS



Series A Light-duty Complete Clamps



Single Polypropylene Clamps with Hex Head Bolts

0162	OD mm	Group
RAPR3-006	6	0
RAPR3-006.4	6.4	0
RAPR3-008	8	0
RAPR3-009.5	9.5	0
RAPR3-010	10	0
RAPR3-012	12	0
RAPR3-106	6	1
RAPR3-106.4	6.4	1
RAPR3-108	8	1
RAPR3-109.5	9.5	1
RAPR3-110	10	1
RAPR3-112	12	1
RAPR3-212.7	12.7	2
RAPR3-213.5	13.5	2
RAPR3-214	14	2
RAPR3-215	15	2
RAPR3-216	16	2
RAPR3-217.2	17.2	2
RAPR3-218	18	2
RAPR3-319	19	3
RAPR3-320	20	3
RAPR3-321.3	21.3	3
RAPR3-322	22	3
RAPR3-323	23	3
RAPR3-325	25	3
RAPR3-426.9	26.9	4
RAPR3-428	28	4
RAPR3-430	30	4
RAPR3-532	32	5
RAPR3-533.7	33.7	5
RAPR3-535	35	5
RAPR3-538	38	5
RAPR3-540	40	5
RAPR3-542	42	5
RAPR3-644.5	44.5	6
RAPR3-645	45	6
RAPR3-648	48	6
RAPR3-650	50	6
RAPR3-650.8	50.8	6
RAPR3-652	52	6
RAPR3-655	55	6
RAPR3-657	57	6

Series B Standard-duty Complete Clamps



Double Polypropylene Clamps with Hex Head Bolts

0162	OD mm	Group
RBPR1-106	6	1
RBPR1-106.4	6.4	1
RBPR1-108	8	1
RBPR1-109.5	9.5	1
RBPR1-110	10	1
RBPR1-112	12	1
RBPR1-212.7	12.7	2
RBPR1-213.5	13.5	2
RBPR1-214	14	2
RBPR1-215	15	2
RBPR1-216	16	2
RBPR1-217.2	17.2	2
RBPR1-218	18	2
RBPR1-319	19	3
RBPR1-320	20	3
RBPR1-321.3	21.3	3
RBPR1-322	22	3
RBPR1-325	25	3
RBPR1-426.9	26.9	4
RBPR1-428	28	4
RBPR1-430	30	4
RBPR1-532	32	5
RBPR1-533.7	33.7	5
RBPR1-535	35	5
RBPR1-538	38	5
RBPR1-540	40	5
RBPR1-542	42	5

Series C Heavy-duty Complete Clamps



Single Polypropylene Clamps with Hex Head Bolts

0162	OD mm	Group
RCPR3-106	6	1
RCPR3-108	8	1
RCPR3-110	10	1
RCPR3-112	12	1
RCPR3-112.7	12.7	1
RCPR3-113.5	13.5	1
RCPR3-114	14	1
RCPR3-115	15	1
RCPR3-116	16	1
RCPR3-117.2	17.2	1
RCPR3-118	18	1
RCPR3-219	19	2
RCPR3-220	20	2
RCPR3-221.3	21.3	2
RCPR3-222	22	2
RCPR3-223	23	2
RCPR3-225	25	2
RCPR3-226.9	26.9	2
RCPR3-228	28	2
RCPR3-230	30	2
RCPR3-330	30	3
RCPR3-332	32	3
RCPR3-333.7	33.7	3
RCPR3-335	35	3
RCPR3-338	38	3
RCPR3-340	40	3
RCPR3-342	42	3
RCPR3-438	38	4
RCPR3-440	40	4
RCPR3-442	42	4
RCPR3-445	45	4
RCPR3-448.3	48.3	4
RCPR3-450	50	4
RCPR3-451	51	4
RCPR3-452	52	4
RCPR3-455	55	4
RCPR3-457	57	4
RCPR3-460.3	60.3	4
RCPR3-463	63	4
RCPR3-465	65	4
RCPR3-470	70	4
RCPR3-570	70	5
RCPR3-573	73	5
RCPR3-575	75	5
RCPR3-576.1	76.1	5
RCPR3-580	80	5
RCPR3-582.5	82.5	5
RCPR3-588.9	88.9	5
RCPR3-590	90	5
RCPR3-6101.6	101.6	6
RCPR3-6114.3	114.3	6
RCPR3-6127	127	6
RCPR3-7130	130	7
RCPR3-7140	140	7
RCPR3-7168.3	168.3	7



1 HYDRAULIC TUBE CLAMPS



Rigid Fluid
Conveyance



The clamp system for vibration dampening and structure borne noise insulation. Select relevant insert for your tube size and appropriate sized body, for use with all regular plates bolts, etc.

Series A Light-duty Noise Protection Clamp Body

Supplied in pairs



Polypropylene

0162	OD mm	Group
RAPE-4	10	4
RAPE-5	10-12	5
RAPE-6	10-20	6
RAPAE-6	18-30	6

Tech Sheet 10133

Series C Heavy-duty Noise Protection Clamp Body

Other sizes and materials available on request
Supplied in pairs



Polypropylene

0162	OD mm	Group
RCPE-2	10	2
RCPE-3	10-20	3
RCPE-4	22-35	4
RCPE-5	35-60.3	5

Tech Sheet 10133

Noise Protection Insert

Other sizes and materials available on request



Group 2 Heavy, Group 4 Light

0162	OD mm	Group
EE-206/406	6	2/4
EE-208/408	8	2/4
EE-210/410	10	2/4
EE-212/412	12	2/4
EE-212.7/412.7	12.7	2/4
EE-214/414	14	2/4
EE-215/415	15	2/4
EE-216/416	16	2/4
EE-217.2/417.2	17.2	2/4
EE-218/418	18	2/4
EE-219/419	19	2/4

Tech Sheet 10133

Group 3 Heavy, Group 6 Light

0162	OD mm	Group
EE-320/620	20	3/6
EE-321.3/621.3	21.3	3/6
EE-322/622	22	3/6
EE-323/623	23	3/6
EE-325/625	25	3/6
EE-326.9/626.9	26.9	3/6
EE-328/628	28	3/6
EE-330/630	30	3/6
EE-332/632	32	3/6

Tech Sheet 10133

Group 4 Heavy

0162	OD mm	Group
EE-432	32	4
EE-433.7	33.7	4
EE-435	35	4
EE-438	38	4
EE-440	40	4
EE-442	42	4
EE-445	45	4
EE-448	48	4
EE-451	51	4
EE-453.4	53.4	4
EE-456.4	56.4	4

Tech Sheet 10133

Noise Protection & Anti-vibration Inserts



Group 2 Heavy, Group 4 Light

0162	OD mm	Group
EFA-410/210	10	2/4

Tech Sheet 10133

Group 3 Heavy, Group 6 Light

0162	OD mm	Group
EFA-610/310	10	3/6
EFA-612/312	12	3/6
EFA-615/315	15	3/6
EFA-618/318	18	3/6
EFA-620/320	20	3/6

Tech Sheet 10133

Group 4 Heavy

0162	OD mm	Group
EFA-422	22	4
EFA-425	25	4
EFA-428	28	4
EFA-430	30	4
EFA-435	35	4

Tech Sheet 10133

Group 5 Light

0162	OD mm	Group
EFA-510	10	5
EFA-512	12	5
EFA-515	15	5

Tech Sheet 10133

Group 5 Heavy

0162	OD mm	Group
EFA-535	35	5
EFA-538	38	5
EFA-542	42	5
EFA-548.3	48.3	5
EFA-560.3	60.3	5

Tech Sheet 10133

Group 6 Light

0162	OD mm	Group
EFA-618	18	6
EFA-620	20	6
EFA-622	22	6
EFA-625	25	6
EFA-628	28	6
EFA-630	30	6

Tech Sheet 10133

HYDRAULIC TUBE CLAMPS



We have simplified the selection of this clamp range by making it self selection.

Select in the following order.

1. Clamp body by material, series, group and tube size.
2. Weld plate by series and group.

3. Top plate by series and group (not required with slotted head and socket head bolts as they countersink into body).

4. Bolts by series and group.

As a regular feature of Series A and B clamps, screws, rail nuts and cover plates are zinc coated, welding plates phosphatized and support rails uncoated.

As a regular feature of Series C clamps, all steel parts are uncoated.

Please order the **same series** to make complete clamp, i.e. **Series A** clamp, **Series A** top plate and **Series A** bottom plate and **Series A** screws or bolts.

Series A Light-duty Clamp Halves

Supplied in pairs



Single Polypropylene

0162	OD mm	Group
RAPR-006	6	0
RAPR-006.4	6.4	0
RAPR-008	8	0
RAPR-009.5	9.5	0
RAPR-010	10	0
RAPR-012	12	0
RAPR-106	6	1
RAPR-106.4	6.4	1
RAPR-108	8	1
RAPR-109.5	9.5	1
RAPR-110	10	1
RAPR-112	12	1
RAPR-212.7	12.7	2
RAPR-213.5	13.5	2
RAPR-214	14	2
RAPR-215	15	2
RAPR-216	16	2
RAPR-217.2	17.2	2
RAPR-218	18	2
RAPR-319	19	3
RAPR-320	20	3
RAPR-321.3	21.3	3
RAPR-322	22	3
RAPR-323	23	3
RAPR-325	25	3
RAPR-426.9	26.9	4
RAPR-428	28	4
RAPR-430	30	4
RAPR-532	32	5
RAPR-533.7	33.7	5
RAPR-535	35	5
RAPR-538	38	5
RAPR-540	40	5
RAPR-542	42	5
RAPR-644.5	44.5	6
RAPR-645	45	6
RAPR-648	48	6
RAPR-650	50	6
RAPR-650.8	50.8	6
RAPR-652	52	6
RAPR-655	55	6
RAPR-657	57	6

Tech Sheet 811

Supplied in pairs



Single Polypropylene Inside Smooth

0162	OD mm	Group
RAPG-106	6	1
RAPG-106.4	6.4	1
RAPG-108	8	1
RAPG-109.5	9.5	1
RAPG-110	10	1
RAPG-112	12	1
RAPG-212.7	12.7	2
RAPG-213.5	13.5	2
RAPG-214	14	2
RAPG-215	15	2
RAPG-216	16	2
RAPG-217.2	17.2	2
RAPG-218	18	2
RAPG-319	19	3
RAPG-320	20	3
RAPG-321.3	21.3	3
RAPG-322	22	3
RAPG-323	23	3
RAPG-325	25	3
RAPG-426.9	26.9	4
RAPG-428	28	4
RAPG-430	30	4
RAPG-532	32	5
RAPG-533.7	33.7	5
RAPG-535	35	5
RAPG-538	38	5
RAPG-540	40	5
RAPG-542	42	5
RAPG-644.5	44.5	6
RAPG-645	45	6
RAPG-648	48	6
RAPG-650	50	6
RAPG-650.8	50.8	6
RAPG-652	52	6
RAPG-655	55	6
RAPG-657	57	6

Tech Sheet 811

Supplied in pairs



PP-CR has been developed to eliminate crevice corrosion between the clamp halves and the tube with a special corrosion inhibitor.

The clamps have been tested and successfully approved in a salt spray test according to DIN EN ISO 9227

Single, CR Corrosion-Protected

0162	OD mm	Group
RAPG-104CR	4	1
RAPG-106.4CR	6.4	1
RAPG-106CR	6	1
RAPG-108CR	8	1
RAPG-109.5CR	9.5	1
RAPG-110CR	10	1
RAPG-112CR	12	1
RAPG-212.7CR	12.7	2
RAPG-213.5CR	13.5	2
RAPG-214CR	14	2
RAPG-215CR	15	2
RAPG-216CR	16	2
RAPG-217.2CR	17.2	2
RAPR-218CR	18	2
RAPG-319CR	19	3
RAPG-320CR	20	3
RAPG-322CR	22	3
RAP-321.3CR	21.3	3
RAPG-323CR	23	3
RAPG-325.4CR	25.4	3
RAPG-325CR	25	3
RAPG-426.9CR	26.9	4
RAPG-428CR	28	4
RAPG-430CR	30	4
RAPG-532CR	32	5
RAPG-533.7CR	33.7	5
RAPG-535CR	35	5
RAPG-538CR	38	5
RAPG-540CR	40	5
RAPG-542CR	42	5
RAPG-644.5CR	44.5	6
RAPG-645CR	45	6
RAPG-648CR	48	6
RAPG-650.8CR	50.8	6
RAPG-650CR	50	6
RAPG-652CR	52	6
RAPG-654CR	54	6
RAPG-655CR	55	6
RAPG-657CR	57	6

Tech Sheet 811



1 HYDRAULIC TUBE CLAMPS



Series A Light-duty Clamp Halves

Supplied in pairs



Single Polyamide 6 Inside Smooth

0162	OD mm	Group
RANG-106	6	1
RANG-106.4	6.4	1
RANG-108	8	1
RANG-109.5	9.5	1
RANG-110	10	1
RANG-112	12	1
RANG-212.7	12.7	2
RANG-213.5	13.5	2
RANG-214	14	2
RANG-215	15	2
RANG-216	16	2
RANG-217.2	17.2	2
RANG-218	18	2
RANG-319	19	3
RANG-320	20	3
RANG-321.3	21.3	3
RANG-322	22	3
RANG-323	23	3
RANG-325	25	3
RANG-426.9	26.9	4
RANG-428	28	4
RANG-430	30	4
RANG-532	32	5
RANG-533.7	33.7	5
RANG-535	35	5
RANG-538	38	5
RANG-540	40	5
RANG-542	42	5
RANG-644.5	44.5	6
RANG-645	45	6
RANG-648	48	6
RANG-650	50	6
RANG-650.8	50.8	6
RANG-652	52	6
RANG-655	55	6
RANG-657	57	6

Tech Sheet 811

Supplied in pairs



Single Rubber

0162	OD mm	Group
RAVG-106	6	1
RAVG-108	8	1
RAVG-109.5	9.5	1
RAVG-110	10	1
RAVG-112	12	1
RAVG-212.7	12.7	2
RAVG-213.5	13.5	2
RAVG-214	14	2
RAVG-215	15	2
RAVG-216	16	2
RAVG-217.2	17.2	2
RAVG-218	18	2
RAVG-319	19	3
RAVG-320	20	3
RAVG-321.3	21.3	3
RAVG-322	22	3
RAVG-323	23	3
RAVG-325	25	3
RAVG-426.9	26.9	4
RAVG-428	28	4
RAVG-430	30	4
RAVG-532	32	5
RAVG-533.7	33.7	5
RAVG-535	35	5
RAVG-538	38	5
RAVG-540	40	5
RAVG-542	42	5
RAVG-644.5	44.5	6
RAVG-645	45	6
RAVG-648	48	6
RAVG-650	50	6
RAVG-650.8	50.8	6
RAVG-652	52	6
RAVG-655	55	6
RAVG-657	57	6

Tech Sheet 811

Supplied in pairs



Single Polyamide 6 (Fire Retardant)

0162	OD mm	Group
RANR-006	6	0
RANR-008	8	0
RANR-009.5	9.5	0
RANR-012	12	0
RANR-106	6	1
RANR-106.4	6.4	1
RANR-110	10	1
RANR-112	12	1
RANR-212.7	12.7	2
RANR-214	14	2
RANR-215	15	2
RANR-216	16	2
RANR-217.2	17.2	2
RANR-218	18	2
RANR-320	20	3
RANR-321.3	21.3	3
RANR-325	25	3
RANR-426.9	26.9	4
RANR-532	32	5
RANR-533.7	33.7	5
RANR-538	38	5
RANR-540	40	5
RANR-542	42	5
RANR-644.5	44.5	6
RANR-650.8	50.8	6

Tech Sheet 811



Supplied in pairs

Single Aluminium

0162	OD mm	Group
RAAR-106	6	1
RAAR-106.4	6.4	1
RAAR-108	8	1
RAAR-109.5	9.5	1
RAAR-110	10	1
RAAR-112	12	1
RAAR-212.7	12.7	2
RAAR-213.5	13.5	2
RAAR-214	14	2
RAAR-215	15	2

0162	OD mm	Group
RAAR-216	16	2
RAAR-217.2	17.2	2
RAAR-218	18	2
RAAR-319	19	3
RAAR-320	20	3
RAAR-321.3	21.3	3
RAAR-322	22	3
RAAR-323	23	3
RAAR-325	25	3
RAAR-426.9	26.9	4

0162	OD mm	Group
RAAR-430	30	4
RAAR-532	32	5
RAAR-533.7	33.7	5
RAAR-535	35	5
RAAR-538	38	5
RAAR-540	40	5
RAAR-542	42	5
RAAR-648	48	6
RAAR-650	50	6

Tech Sheet 811



HYDRAULIC TUBE CLAMPS

Tube Identification System

Tube labelling/identification system.
Complete with plastic cover and galvanised steel strap.



Universal Holder

0162	To Suit
UNH	Up to 2.1/2" OD

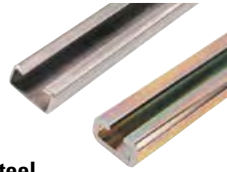
Tube labelling/identification system.
Complete with plastic cover and 100mm welding pin.



Welding Holder

0162	To Suit
SWH	100mm Welding Pin

Clamping Rails

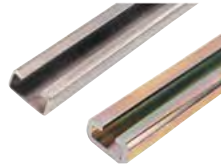


Series A, B & C, Steel

0162	Series	Length Metres	Depth mm
TS11-A/B1	A & B	1	11
TS11-A/B2	A & B	2	11
TS14-A/B1	A & B	1	14
TS14-A/B2	A & B	2	14
TS-C1	C	1	22
TS-C2	C	2	22

Tech Sheet 1640

stainless steel



Series A, B & C, Stainless Steel

0162	Series	Length Metres	Depth mm
TS11-A/B1-SS	A & B	1	11
TS11-A/B2-SS	A & B	2	11
TS14-A/B1-SS	A & B	1	14
TS14-A/B2-SS	A & B	2	14
TS-C1-SS	C	1	22
TS-C2-SS	C	2	22

Tech Sheet 1640

Series A Weld Plates



Short Weld Plate, Steel

0162	Group
APK-A0	0
APK-A1	1
APK-A2	2
APK-A3	3
APK-A4	4
APK-A5	5
APK-A6	6

Tech Sheet 811

Clamping Nuts



Series A, B & C, Chromium VI-Free

0162	Group	Series
TM-A	All A & B1	A & B1
TM-B2	2-5	B
TM-C1	1-3	C
TM-C4	4	C

Tech Sheet 1640

stainless steel



Series A, B & C, Stainless Steel

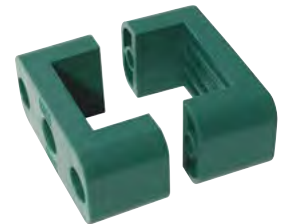
0162	Group	Series
TM-A/B1	All A & B1	A & B1
TM-B2-SS	2-5	B
TM-C1-SS	1-3	B
TM-C4-SS	4	C

Tech Sheet 1640

Special Clamps

Fixing Clamps for 40 x 40mm square cased sensors built to EN 50 025 and 50 037.

The sensors can be adjusted axially and laterally when mounted on support rails.
Accessory materials are Series A, Group 5.



Series A Sensor Clamps

0162	Material
RAPS-540	Polypropylene
RANS-540	Polyamide 6

Tech Sheet 814

1 HYDRAULIC TUBE CLAMPS



Series A Weld Plates



Short Weld Plate, Stainless Steel

0162	Group
APK-A0-SS	0
APK-A1-SS	1
APK-A2-SS	2
APK-A3-SS	3
APK-A4-SS	4
APK-A5-SS	5
APK-A6-SS	6
APK-A7-SS	7
APK-A8-SS	8

Tech Sheet 811



Twin Weld Plate, Steel

0162	Group	Centres mm
APD-A0	0	-
APD-A1	1	20
APDL-A1	1	20
APD-A2	2	26
APDL-A2	2	26
APD-A3	3	33
APDL-A3	3	33
APD-A5	5	52
APD-A6	6	66

Tech Sheet 812



Weld/Screw Plate, Steel

0162	Group
APL-A0	0
APL-A1	1
APL-A2	2
APL-A3	3
APL-A4	4
APL-A5	5
APL-A6	6

Tech Sheet 812

Weld/Screw Plate, Stainless Steel

stainless steel

0162	Group
APL-A1-SS	1
APL-A2-SS	2
APL-A3-SS	3
APL-A4-SS	4
APL-A5-SS	5
APL-A6-SS	6

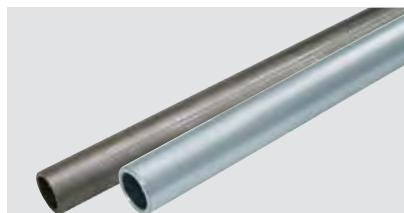
Tech Sheet 812



Multiple Weld Plate, Steel

0162	Group	Centres mm
APR-A0	0	-
APR-A1	1	20
APRL-A1	1	20
APR-A2	2	26
APRL-A2	2	26
APR-A3	3	33
APRL-A3	3	33
APR-A4	4	40
APR-A5	5	52
APR-A6	6	66

Tech Sheet 812



You might also need
Hydraulic Tubing
see pages 67-69

Series A Cover Plates



Single, Steel

0162	Group
DP-A0	0
DP-A1	1
DP-A2	2
DP-A3	3
DP-A4	4
DP-A5	5
DP-A6	6

Tech Sheet 813

Single, Stainless Steel

stainless steel

0162	Group
DP-A0-SS	0
DP-A1-SS	1
DP-A2-SS	2
DP-A3-SS	3
DP-A4-SS	4
DP-A5-SS	5
DP-A6-SS	6
DP-A7-SS	7
DP-A8-SS	8

Tech Sheet 813

Series A Locking Plates



Steel

0162	Group
SBR-A	0-6

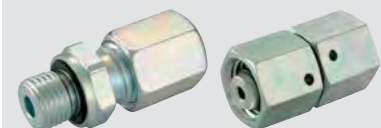
Tech Sheet 1391

Stainless Steel

stainless steel

0162	Group
SBR-A-SS	0-6

Tech Sheet 1391



You might also need
Hydraulic Fittings
see pages 9-25

HYDRAULIC TUBE CLAMPS



Series A Fixing Bolts



Slotted Head, Steel

0162	Group
SL-A0/A1	0 & 1
SL-A2	2
SL-A3	3
SL-A4	4
SL-A5	5
SL-A6	6

Tech Sheet 813



Stacking Head, Steel

0162	Group
AS-A0/A1	0 & 1
AS-A2	2
AS-A3	3
AS-A4	4
AS-A5	5
AS-A6	6

Tech Sheet 1391



Stacking Head, Stainless Steel

stainless steel

0162	Group
AS-A0/A1-SS	0 & 1
AS-A2-SS	2
AS-A3-SS	3
AS-A4-SS	4
AS-A5-SS	5
AS-A6-SS	6

Tech Sheet 1391

Socket Head, Steel

0162	Group
IS-A0/A1	0 & 1
IS-A2	2
IS-A3	3
IS-A4	4
IS-A5	5
IS-A6	6

Tech Sheet 813



Hexagon Head, Steel

0162	Group
SSL-A0/A1	0 & 1
SSL-A2	2
SSL-A3	3
SSL-A4	4
SSL-A5	5
SSL-A6	6
SSL-A7	7

Tech Sheet 813

Hexagon Head, Stainless Steel

stainless steel

0162	Group
SSL-A0/A1-SS	0 & 1
SSL-A2-SS	2
SSL-A3-SS	3
SSL-A4-SS	4
SSL-A5-SS	5
SSL-A6-SS	6

Tech Sheet 813

Visitec Clamping Nuts, Light Series

The rail nut with loss protection.

The larger flange area prevents the rail nut falling into the rail during installation which is a problem inherent to the traditional design. The new design has a vibration and sound installation function.

The rubber cap has an integrated screw locking device. Fast and easy to install, easy to adjust, especially for vertical installations.

Advantages:

- Vibration and sound insulating function
- Designed especially for vertical installations
- Fast and easy to install
- 40% time savings for installers



Series A, Chromium VI-Free

0162	Group	Series
TM-A/B1VISITEC	All A & B1	A & B1

Tech Sheet 1981

Series A, Stainless Steel

stainless steel

0162	Group	Series
TM-A/B1SSVISITEC	All A & B1	A & B1

Tech Sheet 1981

Locking Washers



Series A & B

0162	Group
US-A	1
US-B2	2-5

Tech Sheet 1391

1 HYDRAULIC TUBE CLAMPS



Please order the same series to make complete clamp, i.e. **Series B** clamp and **Series B** top plate and **Series B** bottom plate and **Series B** screws or bolts.

Series B Clamp Halves

Supplied in pairs



Double Polypropylene

0162	OD mm	Group
RBPR-106	6	1
RBPR-106.4	6.4	1
RBPR-108	8	1
RBPR-109.5	9.5	1
RBPR-110	10	1
RBPR-112	12	1
RBPR-212.7	12.7	2
RBPR-213.5	13.5	2
RBPR-214	14	2
RBPR-215	15	2
RBPR-216	16	2
RBPR-217.2	17.2	2
RBPR-218	18	2
RBPR-319	19	3
RBPR-320	20	3
RBPR-321.3	21.3	3
RBPR-322	22	3
RBPR-325	25	3
RBPR-426.9	26.9	4
RBPR-428	28	4
RBPR-430	30	4
RBPR-532	32	5
RBPR-533.7	33.7	5
RBPR-535	35	5
RBPR-538	38	5
RBPR-540	40	5
RBPR-542	42	5

Tech Sheet 1641

Supplied in pairs



Double Polypropylene Inside Smooth

0162	OD mm	Group
RBPG-106	6	1
RBPG-106.4	6.4	1
RBPG-108	8	1
RBPG-109.5	9.5	1
RBPG-110	10	1
RBPG-112	12	1
RBPG-212.7	12.7	2
RBPG-213.5	13.5	2
RBPG-214	14	2
RBPG-215	15	2
RBPG-216	16	2
RBPG-217.2	17.2	2
RBPG-218	18	2
RBPG-319	19	3
RBPG-320	20	3
RBPG-321.3	21.3	3
RBPG-322	22	3
RBPG-325	25	3
RBPG-426.9	26.9	3
RBPG-428	28	4
RBPG-430	30	4
RBPG-532	32	4
RBPG-533.7	33.7	5
RBPG-535	35	5
RBPG-538	38	5
RBPG-540	40	5
RBPG-542	42	5

Tech Sheet 1641

Supplied in pairs



Double Polyamide 6 (Fire Retardant)

0162	OD mm	Group
RBNR-106.4	6.4	1
RBNR-109.5	9.5	1
RBNR-212.7	12.7	2
RBNR-213.5	13.5	2
RBNR-214	14	2
RBNR-215	15	2
RBNR-218	18	2
RBNR-320	20	3
RBNR-322	22	3
RBNR-325	25	3
RBNR-428	28	4
RBNR-533.7	33.7	5
RBNR-535	35	5

Tech Sheet 1641

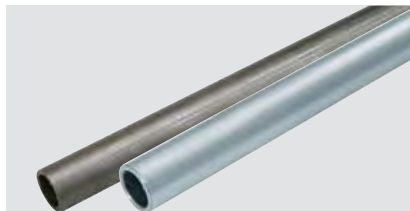
Supplied in pairs



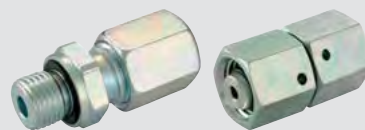
Double Polyamide 6 Inside Smooth

0162	OD mm	Group
RBNG-106	6	1
RBNG-106.4	6.4	1
RBNG-108	8	1
RBNG-109.5	9.5	1
RBNG-110	10	1
RBNG-112	12	1
RBNG-212.7	12.7	2
RBNG-213.5	13.5	2
RBNG-214	14	2
RBNG-215	15	2
RBNG-216	16	2
RBNG-217.2	17.2	2
RBNG-218	18	2
RBNG-319	19	3
RBNG-320	20	3
RBNG-321.3	21.3	3
RBNG-322	22	3
RBNG-325	25	3
RBNG-426.9	26.9	3
RBNG-428	28	4
RBNG-430	30	4
RBNG-532	32	4
RBNG-533.7	33.7	5
RBNG-535	35	5
RBNG-538	38	5
RBNG-542	42	5

Tech Sheet 1641



You might also need
Hydraulic Tubing
see pages 67-69



You might also need
Hydraulic Fittings
see pages 9-25

HYDRAULIC TUBE CLAMPS



Series B Clamp Halves

Supplied in pairs

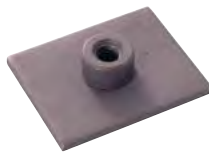


Double Rubber

0162	OD mm	Group
RBVG-106	6	1
RBVG-106.4	6.4	1
RBVG-108	8	1
RBVG-109.5	9.5	1
RBVG-110	10	1
RBVG-112	12	1
RBVG-212.7	12.7	2
RBVG-213.5	13.5	2
RBVG-214	14	2
RBVG-215	15	2
RBVG-216	16	2
RBVG-217.2	17.2	2
RBVG-218	18	2
RBVG-319	19	3
RBVG-320	20	3
RBVG-321.3	21.3	3
RBVG-322	22	3
RBVG-325	25	3
RBVG-426.9	26.9	4
RBVG-428	28	4
RBVG-430	30	4
RBVG-532	32	5
RBVG-533.7	33.7	5
RBVG-535	35	5
RBVG-538	38	5
RBVG-542	42	5

Tech Sheet 1641

Series B Weld Plates



Short Weld Plate, Steel

0162	Group
AP-B1	1
AP-B2	2
AP-B3	3
AP-B4	4
AP-B5	5

Tech Sheet 1641

Short Weld Plate, Stainless Steel

stainless steel

0162	Group
AP-B1-SS	1
AP-B2-SS	2
AP-B3-SS	3
AP-B4-SS	4
AP-B5-SS	5

Tech Sheet 1641

For illustration purposes only



Multiple Weld Plate, Steel

0162	Group	Centres mm
APR-B1	1	40
APR-B2	2	58
APR-B3	3	72
APR-B4	4	90
APR-B5	5	112

Tech Sheet 1642

Series B Cover Plates



Double, Steel

0162	Group
DP-B1	1
DP-B2	2
DP-B3	3
DP-B4	4
DP-B5	5

Tech Sheet 1643

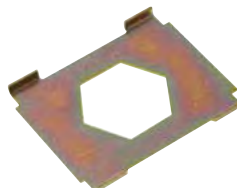
Double, Stainless Steel

stainless steel

0162	Group
DP-B1-SS	1
DP-B2-SS	2
DP-B3-SS	3
DP-B4-SS	4
DP-B5-SS	5

Tech Sheet 1643

Series B Locking Plates



Steel

0162	Group
SB-B1	1
SB-B2	2-5

Tech Sheet 1644

Series B Fixing Bolts



Socket Head, Steel

0162	Group
IS-B1	1
IS-B2	2
IS-B3	3
IS-B5	5

Tech Sheet 1644



Stacking Head, Steel

0162	Group
AS-B1	1
AS-B2	2
AS-B3	3
AS-B4	4
AS-B5	5

Tech Sheet 1644

Stacking Head, Stainless Steel

stainless steel

0162	Group
AS-B1-SS	1
AS-B2-SS	2
AS-B3-SS	3
AS-B4-SS	4
AS-B5-SS	5

Tech Sheet 1644



Hexagon Head, Steel

0162	Group
SS-B1	1
SS-B2	2
SS-B3	3
SS-B4	4
SS-B5	5

Tech Sheet 1647

Hexagon Head, Stainless Steel

stainless steel

0162	Group
SS-B1-SS	1
SS-B2-SS	2
SS-B3-SS	3

Tech Sheet 1647



1 HYDRAULIC TUBE CLAMPS



Series C Heavy-duty Clamp Halves

Supplied in pairs



Single Polypropylene

0162	OD mm	Group
RCPR-106	6	1
RCPR-108	8	1
RCPR-110	10	1
RCPR-112	12	1
RCPR-112.7	12.7	1
RCPR-113.5	13.5	1
RCPR-114	14	1
RCPR-115	15	1
RCPR-116	16	1
RCPR-117.2	17.2	1
RCPR-118	18	1
RCPR-219	19	2
RCPR-220	20	2
RCPR-221.3	21.3	2
RCPR-222	22	2
RCPR-223	23	2
RCPR-225	25	2
RCPR-226.9	26.9	2
RCPR-228	28	2
RCPR-230	30	2
RCPR-330	30	3
RCPR-332	32	3
RCPR-333.7	33.7	3
RCPR-335	35	3
RCPR-338	38	3
RCPR-340	40	3
RCPR-342	42	3
RCPR-438	38	4
RCPR-440	40	4
RCPR-442	42	4
RCPR-445	45	4
RCPR-448.3	48.3	4
RCPR-450	50	4
RCPR-451	51	4
RCPR-452	52	4
RCPR-455	55	4
RCPR-457	57	4
RCPR-460.3	60.3	4
RCPR-463	63	4
RCPR-465	65	4
RCPR-470	70	4
RCPR-570	70	5
RCPR-573	73	5
RCPR-575	75	5
RCPR-576.1	76.1	5
RCPR-580	80	5
RCPR-582.5	82.5	5
RCPR-588.9	88.9	5
RCPR-590	90	5
RCPR-6101.6	101.6	6
RCPR-6114.3	114.3	6
RCPR-6127	127	6
RCPR-7130	130	7
RCPR-7140	140	7
RCPR-7168.3	168.3	7

Tech Sheet 1645

Supplied in pairs



Single Polyamide 6 (Fire Retardant)

0162	OD mm	Group
RCNR-106	6	1
RCNR-108	8	1
RCNR-110	10	1
RCNR-112	12	1
RCNR-112.7	12.7	1
RCNR-113.5	13.5	1
RCNR-114	14	1
RCNR-115	15	1
RCNR-116	16	1
RCNR-117.2	17.2	1
RCNR-118	18	1
RCNR-220	20	2
RCNR-221.3	21.3	2
RCNR-222	22	2
RCNR-223	23	2
RCNR-225	25	2
RCNR-226.9	26.9	2
RCNR-228	28	2
RCNR-230	30	2
RCNR-330	30	3
RCNR-332	32	3
RCNR-333.7	33.7	3
RCNR-335	35	3
RCNR-338	38	3
RCNR-340	40	3
RCNR-342	42	3
RCNR-438	38	4
RCNR-440	40	4
RCNR-442	42	4
RCNR-445	45	4
RCNR-448.3	48.3	4
RCNR-450	50	4
RCNR-451	51	4
RCNR-452	52	4
RCNR-455	55	4
RCNR-457	57	4
RCNR-460.3	60.3	4
RCNR-463	63	4
RCNR-465	65	4
RCNR-470	70	4
RCNR-570	70	5
RCNR-573	73	5
RCNR-575	75	5
RCNR-576.1	76.1	5
RCNR-580	80	5
RCNR-582.5	82.5	5
RCNR-588.9	88.9	5
RCNR-590	90	5

Tech Sheet 1645

Supplied in pairs



Single Aluminium

0162	OD mm	Group
RCAR-110	10	1
RCAR-220	20	2
RCAR-221.3	21.3	2
RCAR-222	22	2
RCAR-226.9	26.9	2
RCAR-230	30	2
RCAR-330	30	3
RCAR-332	32	3
RCAR-333.7	33.7	3
RCAR-338	38	3
RCAR-340	40	3
RCAR-448.3	48.3	4
RCAR-450	50	4
RCAR-455	55	4
RCAR-460.3	60.3	4
RCAR-470	70	4

Tech Sheet 1645

Please order the same series to make complete clamp, i.e. Series C Clamp & Series C Top Plate & Series C Bottom Plate & Series C Screws or Bolts.

HYDRAULIC TUBE CLAMPS



Series C Heavy-duty Clamp Halves

Supplied in pairs



Single Polypropylene Inside Smooth

0162	OD mm	Group
RCPG-106	6	1
RCPG-108	8	1
RCPG-110	10	1
RCPG-112	12	1
RCPG-112.7	12.7	1
RCPG-114	14	1
RCPG-115	15	1
RCPG-116	16	1
RCPG-117.2	17.2	1
RCPG-118	18	1
RCPG-219	19	2
RCPG-220	20	2
RCPG-221.3	21.3	2
RCPG-222	22	2
RCPG-225	25	2
RCPG-226.9	26.9	2
RCPG-230	30	2
RCPG-330	30	3
RCPG-332	32	3
RCPG-333.7	33.7	3
RCPG-335	35	3
RCPG-338	38	3
RCPG-340	40	3
RCPG-342	42	3

0162	OD mm	Group
RCPG-438	38	4
RCPG-440	40	4
RCPG-442	42	4
RCPG-445	45	4
RCPG-448.3	48.3	4
RCPG-450	50	4
RCPG-452	52	4
RCPG-455	55	4
RCPG-457	57	4
RCPG-460.3	60.3	4
RCPG-465	65	4
RCPG-470	70	4
RCPG-560.3	60.3	5
RCPG-573	73	5
RCPG-576.1	76.1	5
RCPG-580	80	5
RCPG-588.9	88.9	5
RCPG-6100	100	6
RCPG-6101.6	101.6	6
RCPG-6114.3	114.3	6
RCPG-7108	108	7
RCPG-7168.3	168.3	7
RCPG-8168.3	168.3	8

Tech Sheet 1645

1 HYDRAULIC TUBE CLAMPS



Rigid Fluid
Conveyance

Series C Weld Plates



Short Weld Plate, Steel

0162	Group
AP-C1	1
AP-C2	2
AP-C3	3
AP-C4	4
AP-C5	5
AP-C6	6
AP-C7	7

Tech Sheet 1646

Short Weld Plate, Stainless Steel

stainless steel

0162	Group
AP-C1-SS	1
AP-C2-SS	2
AP-C3-SS	3
AP-C4-SS	4
AP-C5-SS	5
AP-C6-SS	6
AP-C7-SS	7
AP-C8-SS	8

Tech Sheet 1646



Weld/Screw Plate, Steel

0162	Group
APL-C1	1
APL-C2	2
APL-C3	3
APL-C4	4
APL-C5	5

Tech Sheet 1646



Short Double Weld Plate, Steel

0162	Group
APD-C1	1
APD-C2	2
APD-C3	3
APD-C5	5

Tech Sheet 1646

Series C Cover Plates



Single, Steel

0162	Group
DP-C1	1
DP-C2	2
DP-C3	3
DP-C4	4
DP-C5	5
DP-C6	6
DP-C7	7

Tech Sheet 1647

Single, Stainless Steel

stainless steel

0162	Group
DP-C1-SS	1
DP-C2-SS	2
DP-C3-SS	3
DP-C4-SS	4
DP-C5-SS	5
DP-C6-SS	6
DP-C7-SS	7
DP-C8-SS	8

Tech Sheet 1647

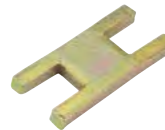


Double, Steel

0162	Group
DPD-C1	1
DPD-C2	2
DPD-C3	3
DPD-C4	4
DPD-C5	5

Tech Sheet 1647

Series C Locking Plates



Steel

0162	Group
SP-C1	1
SP-C2	2
SP-C3	3
SP-C4	4
SP-C5	5

Tech Sheet 1648

Stainless Steel

stainless steel

0162	Group
SP-C1-SS	1
SP-C2-SS	2
SP-C3-SS	3
SP-C4-SS	4
SP-C5-SS	5
SP-C6-SS	6
SP-C7-SS	7
SP-C8-SS	8

Tech Sheet 1648

Series C Fixing Bolts



Socket Head, Steel

0162	Group
IS-C1	1
IS-C2	2
IS-C3	3
IS-C4	4
IS-C5	5

Tech Sheet 1648



Stacking Head, Steel

0162	Group
AS-C1	1
AS-C2	2
AS-C3	3
AS-C4	4
AS-C5	5

Tech Sheet 1648

Stacking Head, Stainless Steel

stainless steel

0162	Group
AS-C1-SS	1
AS-C2-SS	2
AS-C3-SS	3
AS-C4-SS	4

Tech Sheet 1648



Hexagon Head, Steel

0162	Group
SS-C1	1
SS-C2	2
SS-C3	3
SS-C4	4
SS-C5	5
SS-C6	6
SS-C7	7

Tech Sheet 1648

Hexagon Head, Stainless Steel

stainless steel

0162	Group
SS-C1-SS	1
SS-C2-SS	2
SS-C3-SS	3
SS-C4-SS	4
SS-C5-SS	5

Tech Sheet 1648

HYDRAULIC TUBE CLAMPS



U-Bolt Clamps

DIN 3570



2 Nuts Steel Clamps

0162	Size mm
RUBS-15/24	15-24
RUBS-20/30	20-30
RUBS-25/38	25-38
RUBS-32/46	32-46
RUBS-40/52	40-52
RUBS-50/64	50-64
RUBS-65/82	65-82
RUBS-80/94	80-94
RUBS-100/120	100-120
RUBS-125/148	125-148
RUBS-150/176	150-176

Tech Sheet 1650

DIN 3570 Bolts: Zinc Plated

2 Nuts Zinc Plated Steel Clamps

0162	Size mm
RUBZ-15/24	15-24
RUBZ-20/30	20-30
RUBZ-25/38	25-38
RUBZ-32/46	32-46
RUBZ-40/52	40-52
RUBZ-50/64	50-64
RUBZ-65/82	65-82
RUBZ-80/94	80-94
RUBZ-100/120	100-120
RUBZ-150/176	150-176
RUBZ-175/202	175-202
RUBZ-250/282	250-282

Tech Sheet 1650

4 Nuts Steel Clamps

0162	Size mm
RUBLS-15/24	15-24
RUBLS-20/30	20-30
RUBLS-25/38	25-38
RUBLS-32/46	32-46
RUBLS-50/64	50-64
RUBLS-65/82	65-82
RUBLS-80/94	80-94
RUBLS-100/120	100-120
RUBLS-125/148	125-148

Tech Sheet 1650

Bolts: Zinc Plated

4 Nuts Zinc Plated Steel Clamps

0162	Size mm
RUBLZ-20/30	20-30
RUBLZ-32/46	32-46
RUBLZ-50/64	50-64
RUBLZ-65/82	65-82
RUBLZ-80/94	80-94
RUBLZ-100/120	100-120
RUBLZ-125/148	125-148

Tech Sheet 1650

Pipe Saddles



Long Polypropylene

0162	Size mm
KUPL-15/17.2	15-17.2
KUPL-15/21.3	15-21.3
KUPL-20/25	20-25
KUPL-20/26.9	20-26.9
KUPL-25/30	25-30
KUPL-25/33.7	25-33.7
KUPL-32/38	32-38
KUPL-32/42.4	32-42.4
KUPL-40/44.5	40-44.5
KUPL-40/48.3	40-48.3
KUPL-50/57	50-57
KUPL-50/60.3	50-60.3
KUPL-65/76.1	65-76.1
KUPL-80/88.9	80-88.9
KUPL-100/108	100-108
KUPL-100/114.3	100-114.3

Tech Sheet 1651

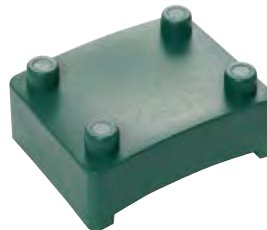


Long Polyamide 6 (Fire Retardant)

0162	Size mm
KUNL-20/25	20-25
KUNL-20/26.9	20-26.9
KUNL-25/30	25-30
KUNL-25/33.7	25-33.7
KUNL-32/38	32-38
KUNL-40/44.5	40-44.5
KUNL-40/48.3	40-48.3
KUNL-50/57	50-57
KUNL-50/60.3	50-60.3
KUNL-65/76.1	65-76.1
KUNL-80/88.9	80-88.9
KUNL-100/108	100-108
KUNL-100/114.3	100-114.3

Tech Sheet 1651

Cylinder Tube Fastenings



NOTE: To suit all cylinder tube fastenings.

Supports

0162	Group
RLP-16	16
RLP-22	22

Tech Sheet 1649

Adaptor

0162
ADP

Tech Sheet 1649

1 HYDRAULIC TUBE CLAMPS



Hydraulic Steel Clamps

The support-block is welded to the machine body or another component either in upend or flat position. The tube clamp is screwed on.



HRS Series Clamps

0162	To Fit Tube Size mm
HSRS-25	25
HSRS-30	30
HSRS-35	35
HSRS-38	38
HSRS-42	42

Tech Sheet 1653

Improved quality as regards noise and vibration reduction. Safe fastening method even for very sensitive tube and hose lines. Only one clamp for different diameters.



Elastomer Inlay

0162	To Fit Tube Size mm
EE25-12	25 x 12
EE25-15	25 x 15
EE30-20	30 x 20
EE35-25	35 x 25
EE42-30	42 x 30

Tech Sheet 1653

Cover to suit Double Clamps



Galvanised Steel

0162	Group
DP-01	1
DP-02	2
DP-03	3
DP-04	4

Tech Sheet 1655

Flat Tube Clamps

DIN 3570



Steel

0162	NB mm
FRDS-20A	20
FRDS-22A	22
FRDS-25A	25
FRDS-27A	27
FRDS-30A	30
FRDS-34A	34
FRDS-38A	38
FRDS-43A	43
FRDS-45A	45
FRDS-49A	49
FRDS-57A	57
FRDS-61A	61
FRDS-77A	77
FRDS-89A	89
FRDS-108A	108
FRDS-115A	115
FRDS-133A	133
FRDS-169A	169

Tech Sheet 1654



Galvanised Steel

0162	NB mm
FRDZ-22A	22
FRDZ-25A	25
FRDZ-30A	30
FRDZ-34A	34
FRDZ-38A	38
FRDZ-43A	43
FRDZ-45A	45
FRDZ-49A	49
FRDZ-57A	57
FRDZ-61A	61
FRDZ-77A	77
FRDZ-89A	89
FRDZ-115A	115
FRDZ-159A	159
FRDZ-169A	169
FRDZ-194A	194
FRDZ-220A	220

Tech Sheet 1654

HYDRAULIC TUBE CLAMPS



Series O Clamps

Areas of Application: Pneumatics, automotive technology, machine tool industry, lubrication and naval technology.



Single Polypropylene

0162	OD mm	Group
ROP-106	6	1
ROP-106.4	6.4	1
ROP-108	8	1
ROP-208	8	2
ROP-209.5	8	2
ROP-210	10	2
ROP-212	12	2
ROP-212.7	12.7	2
ROP-310	10	3
ROP-312	12	3
ROP-312.7	12.7	3
ROP-313.5	13.5	3
ROP-314	14	3
ROP-315	15	3
ROP-316	16	3
ROP-415	15	4
ROP-416	16	4
ROP-417.2	17.2	4
ROP-418	18	4
ROP-419	19	4
ROP-420	20	4
ROP-421.3	21.3	4
ROP-422	22	4

Tech Sheet 1655

Double Polypropylene

0162	OD mm	Group
ROPD-106	6	1
ROPD-106.4	6.4	1
ROPD-108	8	1
ROPD-208	8	2
ROPD-209.5	9.5	2
ROPD-210	10	2
ROPD-212	12	2
ROPD-212.7	12.7	2
ROPD-310	10	3
ROPD-312	12	3
ROPD-312.7	12.7	3
ROPD-313.5	13.5	3
ROPD-314	14	3
ROPD-315	15	3
ROPD-316	16	3
ROPD-414	14	4
ROPD-415	15	4
ROPD-416	16	4
ROPD-417.2	17.2	4
ROPD-418	18	4
ROPD-419	19	4
ROPD-420	20	4
ROPD-421.3	21.3	4
ROPD-422	22	4

Tech Sheet 1655



Single Polyamide 6 (Fire Retardant)

0162	OD mm	Group
RON-106	6	1
RON-106.4	6.4	1
RON-108	8	1
RON-208	8	2
RON-209.5	9.5	2
RON-210	10	2
RON-212	12	2
RON-212.7	12.7	2
RON-312	12	3
RON-312.7	12.7	3
RON-313.5	13.5	3
RON-314	14	3
RON-315	15	3
RON-316	16	3
RON-414	14	4
RON-415	15	4
RON-416	16	4
RON-417.2	17.2	4
RON-418	18	4
RON-419	19	4
RON-420	20	4
RON-421.3	21.3	4
RON-422	22	4

Tech Sheet 1655

Double Polyamide 6 (Fire Retardant)

0162	OD mm	Group
ROND-106	6	1
ROND-106.4	6.4	1
ROND-108	8	1
ROND-208	8	2
ROND-209.5	9.5	2
ROND-210	10	2
ROND-212	12	2
ROND-212.7	12.7	2
ROND-310	10	3
ROND-312	12	3
ROND-312.7	12.7	3
ROND-313.5	13.5	3
ROND-314	14	3
ROND-315	15	3
ROND-316	16	3
ROND-414	14	4
ROND-415	15	4
ROND-416	16	4
ROND-417.2	17.2	4
ROND-418	18	4
ROND-419	19	4
ROND-420	20	4
ROND-421.3	21.3	4
ROND-422	22	4

Tech Sheet 1655



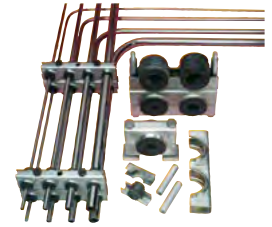
MULTICLAMP



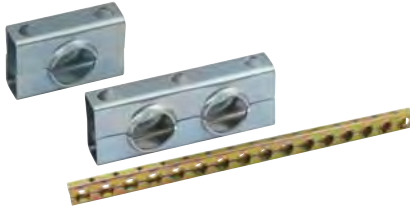
Multiclamper is a system of components, each one engineered to a high standard, that together build to provide effective, all purpose pipe work clamping. Available in a single, double and multiple hole clamps across 3 sizes, each with a range of split bushes allowing the clamping of hose or pipe with diameters from 6mm up to 50mm.

Features

- High quality pipe clamping system in 3 ranges Series 10, 16, 32
- Covers a range from 6mm up to 50mm
- 26 different diameter, high quality split rubber bushes
- Plated steel construction with anti-corrosive, full passivate
- Stainless steel option available upon request



Series 10



Steel Clamp Body

0045	Type	Box Quantity
MC101	Single Clamp	10
MC102	Double Clamp	10
MC1016	16 Bay Clamp	1
Tech Sheet 10178		

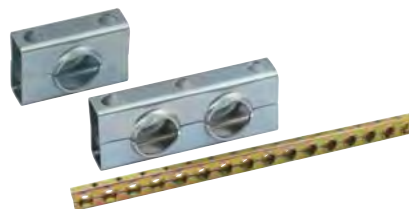
Split Bushes

0045	OD mm	OD	Box Quantity
MCG105	8	5/16"	10
MCG106	10	3/8"	10
MCG108	12-14	1/2"	10
MCG1010	15-16	5/8"	10
MCG1012	18-20	3/4"	10
Tech Sheet 10178			

Clamp Components

0045	Type	Box Quantity
MCN10	Stacking Nut	50
MCS10	Stacking Stud	50
MCWP10	Weld Plate	10
MCSB10	Standard Bolt	50
Tech Sheet 10178		

Series 16



Steel Clamp Body

0045	Type	Box Quantity
MC161	Single Clamp	10
MC162	Double Clamp	10
MC1612	12 Bay Clamp	1
Tech Sheet 10178		

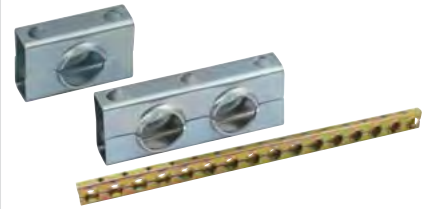
Split Bushes

0045	OD mm	OD	Box Quantity
MCG164	6	1/4"	10
MCG166	10	3/8"	10
MCG168	12-14	1/2"	10
MCG1610	15-16	5/8"	10
MCG1612	18-20	3/4"	10
MCG1614	22	7/8"	10
MCG1616	25	1"	10
MCG1618	28	-	10
Tech Sheet 10178			

Clamp Components

0045	Type	Box Quantity
MCN16	Stacking Nut	50
MCS16	Stacking Stud	50
MCWP16	Weld Plate	10
MCSB16	Standard Bolt	50
Tech Sheet 10178		

Series 32



Steel Clamp Body

0045	Type	Box Quantity
MC321	Single Clamp	10
MC322	Double Clamp	10
MC3216	16 Bay Clamp	1
Tech Sheet 10178		

Split Bushes

0045	OD mm	OD	Box Quantity
MCG326	10	3/8"	10
MCG328	12-14	1/2"	10
MCG3210	15-16	5/8"	10
MCG3212	18-20	3/4"	10
MCG3214	22	7/8"	10
MCG3218	28	-	10
MCG3220	32-34	1.1/4"	10
MCG3224	35-38	1.1/4"	10
MCG3226	42	-	10
MCG3232	50	2"	10
Tech Sheet 10178			

Clamp Components

0045	Type	Box Quantity
MCN32	Stacking Nut	50
MCS32	Stacking Stud	50
MCWP32	Weld Plate	10
MCSB32	Standard Bolt	50
Tech Sheet 10178		

SECTION 2

Components



- **Mild Steel Hydraulic Adaptors**
- **KR500 High Pressure Hydraulic Adaptors**
- **Stainless Steel Hydraulic Adaptors**
- **10,000 PSI Stainless Steel Hydraulic Adaptors**
- **37° JIC Flare Stainless Steel Adaptors**
- **Spradow Test Point Couplings**
- **Spradow Test Point Hose Fittings**
- **Spradow Test Kits**
- **Havit SAE Flanges**
- **Hydraulic Seals**
- **Plastic Caps & Plugs**

45° Compact & Swept Elbows	104	JIC Male x Female Fixed & Swivel	115-116
90° Compact Male Female Elbows	102-103	JIC Male x Male Hydraulic Adaptors	113-114
Blanking Caps, Crimp Nuts & Test Point Adaptors	110	JIC Plugs Locknuts & Push Lock Style Hose Tails	121
Bonded Seals & Fibre Washers	159	JIC Tees & Crosses	120
Boxed Seal Kits	162	JIC Tube Sleeves & Nuts Metric & Imperial	122
Bulkhead & Plugs	107	KR-500 High Pressure Hydraulic Adaptors	125-127
Copper Nylon Washers & Stainless Steel Bonded Seals	160	Male to Female Bushes	97
Crosses & Locknuts	109	Male x Female Swivel Adaptors & Female x Female Swivel Adaptors	99-100
Fixed & Reducing Sockets & Swept Elbows	101	Male x Fixed Female Adaptors	96
Gauge Adaptors & Push Lock Style Hose Tails	98	Male x Male Adaptors	91-95
Havit Butt Weld Flanges Companion Counter	156	O-Rings & Flare Seals	161
Havit SAE Flange Blanks Split Flanges & Compact 90° Adaptors	151	ORFS O-Ring Faced Seal Fittings	111-112
Havit SAE Flanges Socket Weld	154	Plastic Caps & Plugs	163-164
Havit Socket & Butt Weld Compact 90° Adaptors & Straight Butt Weld Adaptors	155	Plugs	108
Havit Socket Weld Sets & Accessories	157	Stainless Steel 37° Flare Fittings, Bulkheads & Elbows	141
Havit Threaded Flanges	152	Stainless Steel 37° Flare Fittings, Caps, Plugs, Reducers, Nuts & Flare Sleeves	144
Havit Threaded Flanges Companion Counter	153	Stainless Steel 37° Flare Fittings, Elbows & Tee Pieces	142
High Pressure 10K Elbows & Tees	137	Stainless Steel 37° Flare Fittings, Male Stud Couplings	139
High Pressure 10K Male x Female, Female x Female & Elbows	136	Stainless Steel 37° Flare Fittings, Male x Female Fixed & Swivel Adaptors	140
High Pressure 10K Stainless Steel Male x Female Adaptors	135	Stainless Steel 37° Flare Fittings Tees & Crosses	143
High Pressure 10K Stainless Steel Male x Male Adaptors	134	Stainless Steel Male x Female Straights & 90° Fittings	130
High Pressure 10K Tees Plugs Caps & Cross Adaptors	138	Stainless Steel Male x Male Adaptors	129
Hydraulic Test Point Adaptors Mild Steel	146	Stainless Steel NPT Male x Male, Male x Female	132
Hydraulic Test Point Adaptors Mild Steel Stainless Steel & Hoses	147	Stainless Steel NPT Reducing Bushes, Caps, Plugs, Elbows & Tees	133
Hydraulic Test Point Hose & Fittings	148	Stainless Steel Tees, Plugs & Bulkheads	131
JIC 45° Elbow Adaptors & Bulkheads	119	Tee Piece Adaptors	105-106
JIC 90° Elbow Adaptors	117-118	Test Point Coupling Kits	149



BRENNAN

MAKING CONNECTIONS

BRENNAN OFFERS HIGH QUALITY, EXTRAORDINARY FITTINGS THAT MAKE THE STRONG CONNECTIONS YOU NEED. TURN TO BRENNAN'S HUGE INVENTORY FOR ALL YOUR FITTINGS AND ADAPTORS.

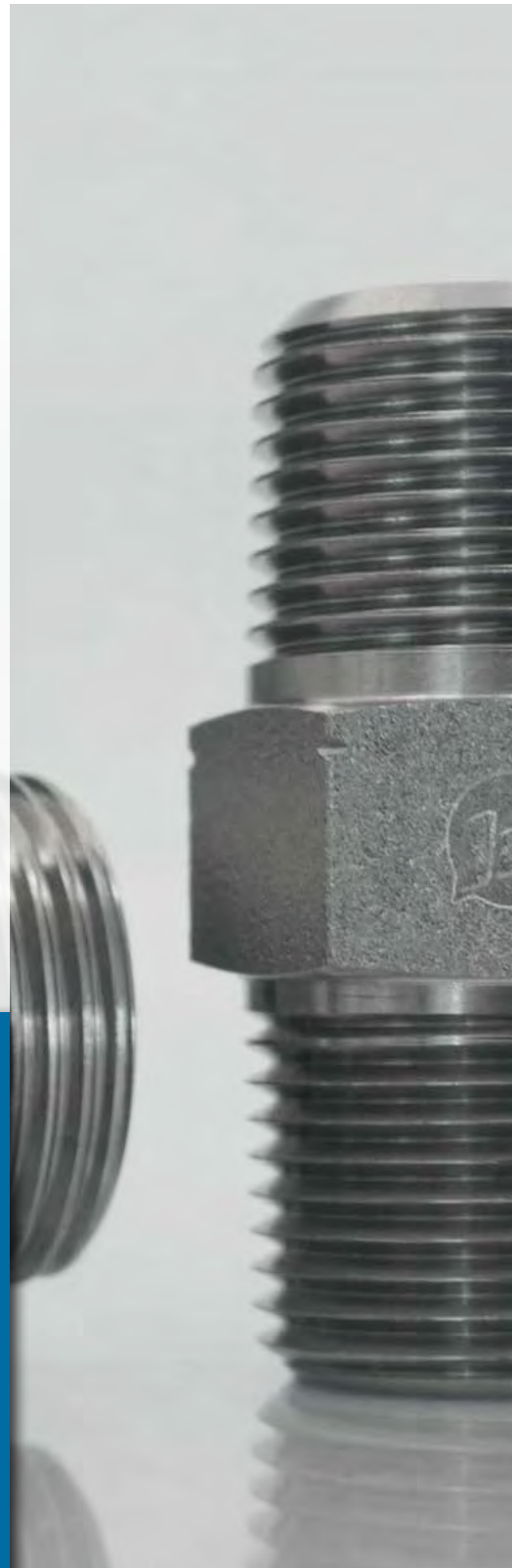


THE MOST EXTRAORDINARY HYDRAULIC FITTINGS

ABOUT BRENNAN

Having been **established in 1953**, Brennan now boasts 15 distribution centres across North America, Europe and Asia. Brennan **stocks over 50,000 fittings** including **engineered specials** and **build-to-print bespoke parts**.

Backed by **multiple certifications** across the globe, Brennan's **aerospace quality manufacturing capabilities**, full **traceability** on all fittings, as well as, material and plating options.



BRENNAN SUPPORT

Featuring our dedicated global **customer service team**, educational materials (blog, whitepapers, Brennan University), thread identification tools, lead generation, literature, **pressure rating**, cross reference and CAD tools.

This makes Brennan the ultimate choice for your hydraulic adaptor needs.

US BASED GLOBAL MANUFACTURER

Along with **manufacturing** and distribution centres in the UK. Brennan has a global footprint that includes **4 manufacturing facilities** and 15 distribution centres, all conforming to **Brennan's highest manufacturing standards**.

EXTRAORDINARY FITTINGS



EXTRAORDINARY FITTINGS

Brennan provides customers throughout the world with the **highest quality hydraulic components.**

Brennan products are fully **ISO:9001, AS9100, NADCAP, ASTM** accredited, ensuring the **highest quality products in the hydraulic industry.**



FULL TRACEABILITY

Brennan products feature a **stamped Brennan logo** complete with a **fully traceable code** that permits identification of the raw material used.

BRENNAN UNIVERSITY

Brennan offers a **library of over 100 educational videos**, white papers and other various articles through Brennan University.



Male/Male Adaptors

Equal BSPP Male x BSPP Male 60° Cone



0683	Thread	Thread
60-6000-02-02	1/8"	1/8"
60-6000-04-04	1/4"	1/4"
60-6000-06-06	3/8"	3/8"
60-6000-08-08	1/2"	1/2"
60-6000-10-10	5/8"	5/8"
60-6000-12-12	3/4"	3/4"
60-6000-16-16	1"	1"
60-6000-20-20	1.1/4"	1.1/4"
60-6000-24-24	1.1/2"	1.1/2"
60-6000-28-28	1.3/4"	1.3/4"
60-6000-32-32	2"	2"
60-6000-40-40	2.1/2"	2.1/2"
60-6000-60-60	3"	3"
60-6000-100-100	4"	4"

Tech Sheet 71432

Unequal BSPP Male BSPP Male 60° Cone



0683	Thread	Thread
60-6000-04-02	1/8"	1/4"
60-6000-06-02	1/8"	3/8"
60-6000-08-02	1/8"	1/2"
60-6000-06-04	1/4"	3/8"
60-6000-08-04	1/4"	1/2"
60-6000-10-04	1/4"	5/8"
60-6000-12-04	1/4"	3/4"
60-6000-16-04	1/4"	1"
60-6000-20-04	1/4"	1.1/4"
60-6000-32-04	1/4"	2"
60-6000-08-06	3/8"	1/2"
60-6000-10-06	3/8"	5/8"
60-6000-12-06	3/8"	3/4"
60-6000-16-06	3/8"	1"
60-6000-20-06	3/8"	1.1/4"
60-6000-24-06	3/8"	1.1/2"
60-6000-10-08	1/2"	5/8"
60-6000-12-08	1/2"	3/4"
60-6000-16-08	1/2"	1"
60-6000-20-08	1/2"	1.1/4"
60-6000-24-08	1/2"	1.1/2"
60-6000-32-08	1/2"	2"
60-6000-12-10	5/8"	3/4"
60-6000-16-10	5/8"	1"
60-6000-20-10	5/8"	1.1/4"
60-6000-16-12	3/4"	1"
60-6000-20-12	3/4"	1.1/4"
60-6000-24-12	3/4"	1.1/2"
60-6000-32-12	3/4"	2"
60-6000-20-16	1"	1.1/4"
60-6000-24-16	1"	1.1/2"
60-6000-32-16	1"	2"
60-6000-40-16	1"	2.1/2"
60-6000-24-20	1.1/4"	1.1/2"
60-6000-32-20	1.1/4"	2"
60-6000-28-24	1.1/2"	1.3/4"
60-6000-32-24	1.1/2"	2"
60-6000-40-24	1.1/2"	2.1/2"
60-6000-32-28	1.3/4"	2"

Tech Sheet 71433

BSPP Male x BSPP Male 60° Cone DIN 3852 Form A



0683	Thread	Thread
60-6000-D-02-02	1/8"	1/8"
60-6000-D-04-02	1/8"	1/4"
60-6000-D-04-04	1/4"	1/4"
60-6000-D-06-04	1/4"	3/8"
60-6000-D-08-04	1/4"	1/2"
60-6000-D-06-06	3/8"	3/8"
60-6000-D-08-06	3/8"	1/2"
60-6000-D-08-08	1/2"	1/2"
60-6000-D-12-08	1/2"	3/4"
60-6000-D-16-08	1/2"	1"
60-6000-D-12-12	3/4"	3/4"
60-6000-D-16-12	3/4"	1"
60-6000-D-16-16	1"	1"
60-6000-D-20-16	1"	1.1/4"
60-6000-D-24-16	1"	1.1/2"
60-6000-D-20-20	1.1/4"	1.1/4"
60-6000-D-24-20	1.1/4"	1.1/2"
60-6000-D-24-24	1.1/2"	1.1/2"
60-6000-D-32-24	1.1/2"	2"
60-6000-D-32-32	2"	2"

Tech Sheet 71434

BSPP Male x BSPP Male 60° Cone with Restrictor



0683	Thread	Thread	Restrictor
60-6000R0404-0.8	1/4"	1/4"	1/32"
60-6000-R04-04-1	1/4"	1/4"	1mm
60-6000R0404-1.5	1/4"	1/4"	1/16"
60-6000R0604-0.8	1/4"	3/8"	1/32"
60-6000-R06-04-1	1/4"	3/8"	1mm
60-6000R0604-1.5	1/4"	3/8"	1/16"
60-6000R0804-0.8	1/4"	1/2"	1/32"
60-6000R0804-1.5	1/4"	1/2"	1/16"
60-6000R0606-0.8	3/8"	3/8"	1/32"
60-6000-R06-06-1	3/8"	3/8"	1mm
60-6000R0606-1.5	3/8"	3/8"	1/16"
60-6000R0806-0.8	3/8"	1/2"	1/32"
60-6000-R08-06-1	3/8"	1/2"	1mm
60-6000-R08-06-3	3/8"	1/2"	3mm
60-6000R1206-1.5	3/8"	3/4"	1/16"
60-6000R0808-0.8	1/2"	1/2"	1/32"
60-6000-R08-08-1	1/2"	1/2"	1mm
60-6000R0808-1.5	1/2"	1/2"	1/16"

Tech Sheet 71435

BSPP Male x BSPP Male 60° Cone 174 Spec.



0683	Thread	Thread
60-6000-04-02174	1/8"	1/4"
60-6000-04-04174	1/4"	1/4"
60-6000-06-04174	1/4"	3/8"
60-6000-08-04174	1/4"	1/2"
60-6000-06-06174	3/8"	3/8"
60-6000-08-06174	3/8"	1/2"
60-6000-12-06174	3/8"	3/4"
60-6000-08-08174	1/2"	1/2"
60-6000-12-08174	1/2"	3/4"
60-6000-16-08174	1/2"	1"
60-6000-12-12174	3/4"	3/4"
60-6000-16-12174	3/4"	1"
60-6000-16-16174	1"	1"
60-6000-20-16174	1"	1.1/4"
60-6000-20-20174	1.1/4"	1.1/4"
60-6000-24-20174	1.1/4"	1.1/2"
60-6000-32-20174	1.1/4"	2"
60-6000-24-24174	1.1/2"	1.1/2"
60-6000-32-24174	1.1/2"	2"
60-6000-32-32174	2"	2"

Tech Sheet 71436

BSPP Male x BSPP Male 60° Cone BS5200



0683	Thread	Thread
60-6000-08-08-BS	1/2"	1/2"

Tech Sheet 71437

BSPP Male x BSPP Male, 60° Cone with Restrictor Blank Only



0683	Thread	Thread
60-6000-B-04-04	1/4"	1/4"
60-6000-B-06-04	1/4"	3/8"
60-6000-B-08-04	1/4"	1/2"
60-6000-B-06-06	3/8"	3/8"
60-6000-B-08-06	3/8"	1/2"
60-6000-B-12-06	3/8"	3/4"
60-6000-B-08-08	1/2"	1/2"
60-6000-B-12-08	1/2"	3/4"
60-6000-B-16-12	3/4"	1"

Tech Sheet 71438



Male/Male Adaptors



BSPP Male 60° Cone x BSPT Male

0683	Thread	Thread
60-6001-02-02	1/8"	1/8"
60-6001-02-04	1/8"	1/4"
60-6001-02-06	1/8"	3/8"
60-6001-04-02	1/4"	1/8"
60-6001-04-04	1/4"	1/4"
60-6001-04-06	1/4"	3/8"
60-6001-04-08	1/4"	1/2"
60-6001-04-12	1/4"	3/4"
60-6001-06-02	3/8"	1/8"
60-6001-06-04	3/8"	1/4"
60-6001-06-06	3/8"	3/8"
60-6001-06-08	3/8"	1/2"
60-6001-06-12	3/8"	3/4"
60-6001-06-16	3/8"	1"
60-6001-08-02	1/2"	1/8"
60-6001-08-04	1/2"	1/4"
60-6001-08-06	1/2"	3/8"
60-6001-08-08	1/2"	1/2"
60-6001-08-10	1/2"	5/8"
60-6001-08-12	1/2"	3/4"
60-6001-08-16	1/2"	1"
60-6001-08-20	1/2"	1.1/4"
60-6001-10-06	5/8"	3/8"
60-6001-10-08	5/8"	1/2"
60-6001-10-10	5/8"	5/8"
60-6001-10-12	5/8"	3/4"
60-6001-12-04	3/4"	1/4"
60-6001-12-06	3/4"	3/8"
60-6001-12-08	3/4"	1/2"
60-6001-12-12	3/4"	3/4"
60-6001-12-16	3/4"	1"
60-6001-12-20	3/4"	1.1/4"
60-6001-12-24	3/4"	1.1/2"
60-6001-16-06	1"	3/8"
60-6001-16-08	1"	1/2"
60-6001-16-10	1"	3/4"
60-6001-16-16	1"	1"
60-6001-16-20	1"	1.1/4"
60-6001-16-24	1"	1.1/2"
60-6001-16-32	1"	2"
60-6001-20-16	1.1/4"	1"
60-6001-20-20	1.1/4"	1.1/4"
60-6001-20-24	1.1/4"	1.1/2"
60-6001-20-32	1.1/4"	2"
60-6001-24-16	1.1/2"	1"
60-6001-24-20	1.1/2"	1.1/4"
60-6001-24-24	1.1/2"	1.1/2"
60-6001-24-32	1.1/2"	2"
60-6001-32-16	2"	1"
60-6001-32-20	2"	1.1/4"
60-6001-32-24	2"	1.1/2"
60-6001-32-32	2"	2"
60-6001-32-40	2"	2.1/2"
60-6001-32-60	2"	3"
60-6001-40-40	2.1/2"	2.1/2"

Tech Sheet 71439



BSPP Male 60° Cone x SAE O-Ring Face Seal Male

0683	Thread	Thread
OR-4110-04-02	1/8"	9/16"
OR-4110-04-04	1/4"	9/16"
OR-4110-06-04	1/4"	11/16"
OR-4110-06-06	3/8"	11/16"
OR-4110-08-06	3/8"	13/16"
OR-4110-06-08	1/2"	11/16"
OR-4110-08-08	1/2"	13/16"
OR-4110-10-08	1/2"	1"
OR-4110-12-08	1/2"	1.3/16"
OR-4110-12-10	5/8"	1.3/16"
OR-4110-10-12	3/4"	1"
OR-4110-12-12	3/4"	1.3/16"
OR-4110-16-16	1"	1.7/16"
OR-4110-20-16	1"	1.11/16"
OR-4110-20-20	1.1/4"	1.11/16"

Tech Sheet 71441



BSPP Male 60° Cone x SAE Male 45° External Flare

0683	Thread	Thread
TR-13200	3/8"	5/8"

Tech Sheet 71442



BSPT Male x JIS Male (BSPP Threads)

0683	Thread	Thread
40-6001-J-06-06	3/8"	3/8"

Tech Sheet 71443



BSPT Male x NPTF Male

0683	Thread	Thread
60-6040-04-02	1/8"	1/4"
60-6040-02-04	1/4"	1/8"
60-6040-04-04	1/4"	1/4"
60-6040-06-04	1/4"	3/8"
60-6040-06-06	3/8"	3/8"
60-6040-04-06	3/8"	1/4"
60-6040-08-08	1/2"	1/2"
60-6040-12-12	3/4"	3/4"
60-6040-16-16	1"	1"
60-6040-24-20	1.1/2"	1.1/4"
60-6040-24-24	1.1/2"	1.1/2"
60-6040-32-32	2"	2"
60-6040-40-40	2.1/2"	2.1/2"

Tech Sheet 71444



BSPT Male x BSPT Male

0683	Thread	Thread
60-6018-02-02	1/8"	1/8"
60-6018-04-02	1/8"	1/4"
60-6018-04-04	1/4"	1/4"
60-6018-06-04	1/4"	3/8"
60-6018-08-04	1/4"	1/2"
60-6018-06-06	3/8"	3/8"
60-6018-08-06	3/8"	1/2"
60-6018-08-08	1/2"	1/2"
60-6018-08-12	1/2"	3/4"
60-6018-12-12	3/4"	3/4"
60-6018-12-16	3/4"	1"
60-6018-12-20	3/4"	1.1/4"
60-6018-16-16	1"	1"
60-6018-16-20	1"	1.1/4"
60-6018-16-24	1"	1.1/2"
60-6018-20-32	1.1/4"	2"
60-6018-24-24	1.1/2"	1.1/2"
60-6018-24-32	1.1/2"	2"
60-6018-32-32	2"	2"
60-6018-40-40	2.1/2"	2.1/2"
60-6018-60-60	3"	3"

Tech Sheet 71445



JIS Male x JIS Male 30° Cone (Metric Threads)

0683	Thread
TR-9741-14	14
TR-9741-18	18
TR-9741-22	22
TR-9741-24	24
TR-9741-30	30
TR-9741-33	33

Tech Sheet 71446



JIS Male x JIS Male 30° Cone (BSPP Threads)

0683	Thread
8088-04-04	1/4"
8088-06-06	3/8"
8088-08-08	1/2"
8088-12-12	3/4"

Tech Sheet 71448



Male/Male Adaptors

NPTF Male x BSPP Male 60° Cone



0683	Thread	Thread
60-6002-02-02	1/8"	1/8"
60-6002-04-02	1/8"	1/4"
60-6002-06-02	1/8"	3/8"
60-6002-08-02	1/8"	1/2"
60-6002-02-04	1/4"	1/8"
60-6002-04-04	1/4"	1/4"
60-6002-06-04	1/4"	3/8"
60-6002-08-04	1/4"	1/2"
60-6002-12-04	1/4"	3/4"
60-6002-02-06	3/8"	1/8"
60-6002-04-06	3/8"	1/4"
60-6002-06-06	3/8"	3/8"
60-6002-08-06	3/8"	1/2"
60-6002-10-06	3/8"	5/8"
60-6002-12-06	3/8"	3/4"
60-6002-02-08	1/2"	1/8"
60-6002-04-08	1/2"	1/4"
60-6002-06-08	1/2"	3/8"
60-6002-08-08	1/2"	1/2"
60-6002-10-08	1/2"	5/8"
60-6002-12-08	1/2"	3/4"
60-6002-16-08	1/2"	1"
60-6002-04-12	3/4"	1/4"
60-6002-06-12	3/4"	3/8"
60-6002-08-12	3/4"	1/2"
60-6002-10-12	3/4"	5/8"
60-6002-12-12	3/4"	3/4"
60-6002-16-12	3/4"	1"
60-6002-24-12	3/4"	1.1/2"
60-6002-04-16	1"	1/4"
60-6002-06-16	1"	3/8"
60-6002-08-16	1"	1/2"
60-6002-12-16	1"	3/4"
60-6002-16-16	1"	1"
60-6002-20-16	1"	1.1/4"
60-6002-12-20	1.1/4"	3/4"
60-6002-16-20	1.1/4"	1"
60-6002-20-20	1.1/4"	1.1/4"
60-6002-24-20	1.1/4"	1.1/2"
60-6002-32-20	1.1/4"	2"
60-6002-16-24	1.1/2"	1"
60-6002-20-24	1.1/2"	1.1/4"
60-6002-24-24	1.1/2"	1.1/2"
60-6002-32-24	1.1/2"	2"
60-6002-16-32	2"	1"
60-6002-24-32	2"	1.1/2"
60-6002-32-32	2"	2"
60-6002-40-32	2"	2.1/2"
60-6002-32-40	2.1/2"	2"
60-6002-40-40	2.1/2"	2.1/2"
60-6002-32-60	3"	2"
60-6002-40-60	3"	2.1/2"

Tech Sheet 71447



NPTF Male x NPTF Male

0683	Thread	Thread
50-5404-02-02	1/8"	1/8"
50-5404-04-02	1/8"	1/4"
50-5404-08-02	1/8"	1/2"
50-5404-04-04	1/4"	1/4"
50-5404-06-04	1/4"	3/8"
50-5404-08-04	1/4"	1/2"
50-5404-12-04	1/4"	3/4"
50-5404-06-06	3/8"	3/8"
50-5404-08-06	3/8"	1/2"
50-5404-08-08	1/2"	1/2"
50-5404-12-08	1/2"	3/4"
50-5404-16-08	1/2"	1"
50-5404-20-08	1/2"	1.1/4"
50-5404-24-08	1/2"	1.1/2"
50-5404-12-12	3/4"	3/4"
50-5404-16-12	3/4"	1"
50-5404-20-12	3/4"	1.1/4"
50-5404-16-16	1"	1"
50-5404-20-16	1"	1.1/4"
50-5404-20-20	1.1/4"	1.1/4"
50-5404-24-20	1.1/4"	1.1/2"
50-5404-32-20	1.1/4"	2"
50-5404-40-40	2.1/2"	2.1/2"

Tech Sheet 71449



Metric Male x BSPP Male 60° Cone

0683	Thread	Thread
60-6015-02-08X1	M8 x 1	1/8"
60-6015-02-10X1	M10 x 1	1/8"
60-6015-04-10X1	M10 x 1	1/4"
60-6015-06-10X1	M10 x 1	3/8"
60-6015-02-12X1	M12 x 1	1/8"
60-6015-04-12X1	M12 x 1	1/4"
60-6015-04-14X1	M14 x 1	1/4"

Tech Sheet 71450



Metric Male x BSPP Male 60° Cone to DIN 3852 Form A

0683	Thread	Thread
60-6015-D-08-22	M22 x 1.5	1/2"

Tech Sheet 71451

Metric Male x Metric Male

0683	Thread	Thread
60-6016-10-10	M10 x 1.5	M10 x 1.5
60-6016-10-12	M10 x 1.5	M12 x 1.5
60-6016-10-14	M10 x 1.5	M14 x 1.5
60-6016-12-12	M12 x 1.5	M12 x 1.5
60-6016-12-14	M12 x 1.5	M14 x 1.5
60-6016-12-16	M12 x 1.5	M16 x 1.5
60-6016-14-14	M14 x 1.5	M14 x 1.5
60-6016-14-16	M14 x 1.5	M16 x 1.5
60-6016-14-18	M14 x 1.5	M18 x 1.5
60-6016-14-20	M14 x 1.5	M20 x 1.5
60-6016-16-16	M16 x 1.5	M16 x 1.5
60-6016-16-18	M16 x 1.5	M18 x 1.5
60-6016-16-20	M16 x 1.5	M20 x 1.5
60-6016-16-22	M16 x 1.5	M22 x 1.5
60-6016-16-26	M16 x 1.5	M26 x 1.5
60-6016-18-18	M18 x 1.5	M18 x 1.5
60-6016-18-20	M18 x 1.5	M20 x 1.5
60-6016-18-22	M18 x 1.5	M22 x 1.5
60-6016-18-24	M18 x 1.5	M24 x 1.5
60-6016-18-26	M18 x 1.5	M26 x 1.5
60-6016-20-20	M20 x 1.5	M20 x 1.5
60-6016-20-22	M20 x 1.5	M22 x 1.5
60-6016-20-24	M20 x 1.5	M24 x 1.5
60-6016-20-26	M20 x 1.5	M26 x 1.5
60-6016-22-22	M22 x 1.5	M22 x 1.5
60-6016-22-24	M22 x 1.5	M24 x 1.5
60-6016-22-26	M22 x 1.5	M26 x 1.5
60-6016-22-30	M22 x 1.5	M30 x 1.5
60-6016-24-24	M24 x 1.5	M24 x 1.5
60-6016-26-26	M26 x 1.5	M26 x 1.5
60-6016-30-30	M30 x 1.5	M30 x 1.5
60-6016-30-38	M30 x 1.5	M38 x 1.5
60-6016-38-38	M38 x 1.5	M38 x 1.5

Tech Sheet 71452



Male/Male Adaptors



Metric Male x BSPP Male 60° Cone

0683	Thread	Thread
60-6015-04-10	M10 x 1.5	1/4"
60-6015-02-12	M12 x 1.5	1/8"
60-6015-04-12	M12 x 1.5	1/4"
60-6015-06-12	M12 x 1.5	3/8"
60-6015-08-12	M12 x 1.5	1/2"
60-6015-02-14	M14 x 1.5	1/8"
60-6015-04-14	M14 x 1.5	1/4"
60-6015-06-14	M14 x 1.5	3/8"
60-6015-08-14	M14 x 1.5	1/2"
60-6015-10-14	M14 x 1.5	5/8"
60-6015-04-16	M16 x 1.5	1/4"
60-6015-06-16	M16 x 1.5	3/8"
60-6015-08-16	M16 x 1.5	1/2"
60-6015-10-16	M16 x 1.5	5/8"
60-6015-12-16	M16 x 1.5	3/4"
60-6015-04-18	M18 x 1.5	1/4"
60-6015-06-18	M18 x 1.5	3/8"
60-6015-08-18	M18 x 1.5	1/2"
60-6015-10-18	M18 x 1.5	5/8"
60-6015-12-18	M18 x 1.5	3/4"
60-6015-16-18	M18 x 1.5	1"
60-6015-04-20	M20 x 1.5	1/4"
60-6015-06-20	M20 x 1.5	3/8"
60-6015-08-20	M20 x 1.5	1/2"
60-6015-12-20	M20 x 1.5	3/4"
60-6015-04-22	M22 x 1.5	1/4"
60-6015-06-22	M22 x 1.5	3/8"
60-6015-08-22	M22 x 1.5	1/2"
60-6015-12-22	M22 x 1.5	3/4"
60-6015-16-22	M22 x 1.5	1"
60-6015-06-24	M24 x 1.5	3/8"
60-6015-08-24	M24 x 1.5	1/2"
60-6015-12-24	M24 x 1.5	3/4"
60-6015-08-26	M26 x 1.5	1/2"
60-6015-10-26	M26 x 1.5	5/8"
60-6015-12-26	M26 x 1.5	3/4"
60-6015-16-26	M26 x 1.5	1"
60-6015-12-30	M30 x 1.5	3/4"
60-6015-16-30	M30 x 1.5	1"
60-6015-20-30	M30 x 1.5	1.1/4"
60-6015-16-36	M36 x 1.5	1"
60-6015-16-38	M38 x 1.5	1"
60-6015-20-38	M38 x 1.5	1.1/4"

Tech Sheet 71453



SAE O-Ring Boss Male x BSPP Male 60° Cone

0683	Thread	Thread
60-6019-02-02	1/4"	1/8"
60-6019-02-04	1/4"	1/4"
60-6019-03-04	3/8"	1/4"
60-6019-03-06	3/8"	3/8"
60-6019-04-02	7/16"	1/8"
60-6019-04-04	7/16"	1/4"
60-6019-04-06	7/16"	3/8"
60-6019-04-08	7/16"	1/2"
60-6019-05-04	1/2"	1/4"
60-6019-05-06	1/2"	3/8"
60-6019-05-08	1/2"	1/2"
60-6019-06-04	9/16"	1/4"
60-6019-06-06	9/16"	3/8"
60-6019-06-08	9/16"	1/2"
60-6019-08-04	3/4"	1/4"
60-6019-08-06	3/4"	3/8"
60-6019-08-08	3/4"	1/2"
60-6019-08-10	3/4"	5/8"
60-6019-08-12	3/4"	3/4"
60-6019-07-04	5/8"	1/4"
60-6019-07-06	5/8"	3/8"
60-6019-07-08	5/8"	1/2"
60-6019-10-04	7/8"	1/4"
60-6019-10-06	7/8"	3/8"
60-6019-10-08	7/8"	1/2"
60-6019-10-10	7/8"	5/8"
60-6019-10-12	7/8"	3/4"
60-6019-10-16	7/8"	1"
60-6019-12-06	1.1/16"	3/8"
60-6019-12-08	1.1/16"	1/2"
60-6019-12-10	1.1/16"	5/8"
60-6019-12-12	1.1/16"	3/4"
60-6019-12-16	1.1/16"	1"
60-6019-12-20	1.1/16"	1.1/4"
60-6019-14-12	1.3/16"	3/4"
60-6019-16-08	1.5/16"	1/2"
60-6019-16-12	1.5/16"	3/4"
60-6019-16-16	1.5/16"	1"
60-6019-16-20	1.5/16"	1.1/4"
60-6019-16-24	1.5/16"	1.1/2"
60-6019-20-12	1.5/8"	3/4"
60-6019-20-16	1.5/8"	1"
60-6019-20-20	1.5/8"	1.1/4"
60-6019-20-24	1.5/8"	1.1/2"
60-6019-24-20	1.7/8"	1.1/4"
60-6019-24-24	1.7/8"	1.1/2"

Tech Sheet 71454



NPT Male x SAE Male 45° External Flare

0683	Thread	Thread
2104-04-02	1/8"	7/16"
2104-04-04	1/4"	7/16"
2104-06-04	1/4"	5/8"
2104-04-06	3/8"	7/16"
2104-06-06	3/8"	5/8"
2104-08-06	3/8"	3/4"
2104-06-08	1/2"	5/8"
2104-08-08	1/2"	3/4"
2104-10-08	1/2"	7/8"
2104-12-08	1/2"	1.1/16"
2104-08-12	3/4"	3/4"
2104-10-12	3/4"	7/8"
2104-20-12	3/4"	1.5/8"
2104-12-12	3/4"	1.1/16"

Tech Sheet 71455



SAE O-Ring Boss Male x SAE O-Ring Face Seal Male

0683	Thread	Thread
OR-4070-04-04	7/16"	9/16"
OR-4070-06-04	7/16"	11/16"
OR-4070-06-06	9/16"	11/16"
OR-4070-08-06	9/16"	13/16"
OR-4070-06-08	3/4"	11/16"
OR-4070-08-08	3/4"	13/16"
OR-4070-08-10	7/8"	13/16"
OR-4070-10-10	7/8"	1"
OR-4070-12-12	1.1/16"	1.3/16"
OR-4070-16-12	1.1/16"	1.7/16"
OR-4070-12-16	1.5/16"	1.3/16"
OR-4070-16-16	1.5/16"	1.7/16"

Tech Sheet 71455



Male/Fixed Female Adaptors



BSPP Male 60° Cone x BSPP Fixed Female Extended

0683	Male Thread	Female Thread
60-6014-02-02	1/8"	1/8"
60-6014-02-04	1/8"	1/4"
60-6014-02-06	1/8"	3/8"
60-6014-02-08	1/8"	1/2"
60-6014-04-02	1/4"	1/8"
60-6014-04-04	1/4"	1/4"
60-6014-04-06	1/4"	3/8"
60-6014-04-08	1/4"	1/2"
60-6014-04-12	1/4"	3/4"
60-6014-06-04	3/8"	1/4"
60-6014-06-06	3/8"	3/8"
60-6014-06-08	3/8"	1/2"
60-6014-06-12	3/8"	3/4"
60-6014-08-06	1/2"	3/8"
60-6014-08-08	1/2"	1/2"
60-6014-08-12	1/2"	3/4"
60-6014-08-16	1/2"	1"
60-6014-08-20	1/2"	1.1/4"
60-6014-12-08	3/4"	1/2"
60-6014-12-12	3/4"	3/4"
60-6014-12-16	3/4"	1"
60-6014-12-24	3/4"	1.1/2"
60-6014-16-12	1"	3/4"
60-6014-16-16	1"	1"
60-6014-16-20	1"	1.1/4"
60-6014-16-24	1"	1.1/2"
60-6014-20-20	1.1/4"	1.1/4"
60-6014-20-24	1.1/4"	1.1/2"
60-6014-20-32	1.1/4"	2"
60-6014-24-20	1.1/2"	1.1/4"
60-6014-24-24	1.1/2"	1.1/2"

Tech Sheet 71457



BSPP Male 60° Cone x BSPT Female Extended

0683	Male Thread	Female Thread
60-6108-04-02	1/4"	1/8"
60-6108-04-04	1/4"	1/4"
60-6108-06-04	3/8"	1/4"
60-6108-06-06	3/8"	3/8"
60-6108-06-08	3/8"	1/2"
60-6108-08-08	1/2"	1/2"
60-6108-12-08	3/4"	1/2"
60-6108-12-12	3/4"	3/4"
60-6108-12-16	3/4"	1"
60-6108-16-16	1"	1"

Tech Sheet 71458



BSPP Male 60° Cone x Metric Female 1.5mm Pitch Extended

0683	Male Thread	Female Thread
TR-19803	1/4"	12
TR-19804	1/4"	14
TR-19800	1/2"	16
TR-19801	1/2"	22
TR-19802	3/4"	22

Tech Sheet 71459



BSPP Male 60° Cone x NPT Female Extended

0683	Male Thread	Female Thread
60-6106-02-02	1/8"	1/8"
60-6106-04-02	1/4"	1/8"
60-6106-04-04	1/4"	1/4"
60-6106-04-06	1/4"	3/8"
60-6106-04-08	1/4"	1/2"
60-6106-06-04	3/8"	1/4"
60-6106-06-06	3/8"	3/8"
60-6106-08-06	1/2"	3/8"
60-6106-08-08	1/2"	1/2"
60-6106-08-12	1/2"	3/4"
60-6106-12-12	3/4"	3/4"
60-6106-16-12	1"	3/4"
60-6106-16-16	1"	1"
60-6106-16-24	1"	1.1/2"
60-6106-20-20	1.1/4"	1.1/4"
60-6106-24-20	1.1/2"	1.1/4"
60-6106-24-24	1.1/2"	1.1/2"
60-6106-32-32	2"	2"

Tech Sheet 71460



NPT Male x BSPP Female Extended

0683	Male Thread	Female Thread
50-5400-02-02	1/8"	1/8"
50-5400-02-04	1/8"	1/4"
50-5400-04-04	1/4"	1/4"
50-5400-06-06	3/8"	3/8"
50-5400-08-06	1/2"	3/8"
50-5400-08-08	1/2"	1/2"
50-5400-12-12	3/4"	3/4"
50-5400-16-16	1"	1"
50-5400-20-20	1.1/4"	1.1/4"
50-5400-24-20	1.1/2"	1.1/4"

Tech Sheet 71461



NPT Male x NPT Female Extended

0683	Male Thread	Female Thread
50-5405-02-02	1/8"	1/8"
50-5405-02-04	1/8"	1/4"
50-5405-04-04	1/4"	1/4"
50-5405-04-06	1/4"	3/8"
50-5405-04-16	1/4"	1"
50-5405-06-06	3/8"	3/8"
50-5405-06-08	3/8"	1/2"
50-5405-06-12	3/8"	3/4"
50-5405-08-08	1/2"	1/2"
50-5405-08-12	1/2"	3/4"
50-5405-12-12	3/4"	3/4"
50-5405-12-16	3/4"	1"
50-5405-12-20	3/4"	1.1/4"
50-5405-16-16	1"	1"
50-5405-16-20	1"	1.1/4"

Tech Sheet 71462



Bushes



BSPP Male 60° Cone x BSPP Fixed Female Bush

0683	Male Thread	Female Thread
60-6013-06-02	3/8"	1/8"
60-6013-08-02	1/2"	1/8"
60-6013-08-04	1/2"	1/4"
60-6013-12-04	3/4"	1/4"
60-6013-12-06	3/4"	3/8"
60-6013-16-04	1"	1/4"
60-6013-16-06	1"	3/8"
60-6013-16-08	1"	1/2"
60-6013-20-08	1.1/4"	1/2"
60-6013-20-12	1.1/4"	3/4"
60-6013-20-16	1.1/4"	1"
60-6013-24-08	1.1/2"	1/2"
60-6013-24-12	1.1/2"	3/4"
60-6013-24-16	1.1/2"	1"
60-6013-32-16	2"	1"
60-6013-32-20	2"	1.1/4"
60-6013-32-24	2"	1.1/2"
60-6013-40-24	2.1/2"	1.1/2"
60-6013-40-32	2.1/2"	2"
60-6013-48-32	3"	2"

Tech Sheet 71463



BSPP Male 60° Cone x NPT Fixed Female Bush

0683	Male Thread	Female Thread
60-6107-08-02	1/2"	1/8"
60-6107-08-04	1/2"	1/4"
60-6107-12-06	3/4"	3/8"
60-6107-16-04	1"	1/4"
60-6107-16-08	1"	1/2"
60-6107-20-16	1.1/4"	1"
60-6107-24-16	1.1/2"	1"
60-6107-40-32	2.1/2"	2"
60-6107-48-32	3"	2"

Tech Sheet 71464



BSPT Male x BSPP Female Bush

0683	Male Thread	Female Thread
60-6039-06-02	3/8"	1/8"
60-6039-06-04	3/8"	1/4"
60-6039-08-04	1/2"	1/4"
60-6039-12-04	3/4"	1/4"
60-6039-12-06	3/4"	3/8"
60-6039-12-08	3/4"	1/2"
60-6039-16-04	1"	1/4"
60-6039-16-06	1"	3/8"
60-6039-16-08	1"	1/2"
60-6039-16-12	1"	3/4"
60-6039-20-16	1.1/4"	1"
60-6039-24-08	1.1/2"	1/2"

Tech Sheet 71465



BSPP Male x BSPP Female Bush (Not Coned)

0683	Male Thread	Female Thread
60-6013-06-02-FF	3/8"	1/8"
60-6013-08-02-FF	1/2"	1/8"
60-6013-08-04-FF	1/2"	1/4"
60-6013-10-04-FF	5/8"	1/4"
60-6013-10-06-FF	5/8"	3/8"
60-6013-12-02-FF	3/4"	1/8"
60-6013-12-04-FF	3/4"	1/4"
60-6013-12-06-FF	3/4"	3/8"
60-6013-16-04-FF	1"	1/4"
60-6013-16-06-FF	1"	3/8"
60-6013-16-08-FF	1"	1/2"
60-6013-16-10-FF	1"	5/8"
60-6013-20-04-FF	1.1/4"	1/4"
60-6013-20-06-FF	1.1/4"	3/8"
60-6013-20-08-FF	1.1/4"	1/2"
60-6013-20-12-FF	1.1/4"	3/4"
60-6014-20-16-FF	1.1/4"	1"
60-6013-24-12-FF	1.1/2"	3/4"
60-6013-24-16-FF	1.1/2"	1"
60-6013-32-08-FF	2"	1/2"
60-6013-32-10-FF	2"	5/8"
60-6013-32-12-FF	2"	3/4"
60-6013-32-16-FF	2"	1"
60-6013-32-20-FF	2"	1.1/4"
60-6013-32-24-FF	2"	1.1/2"

Tech Sheet 71466



BSPT Male x BSPT Female Bush

0683	Male Thread	Female Thread
60-6036-04-02	1/4"	1/8"
60-6036-06-02	3/8"	1/8"
60-6036-06-04	3/8"	1/4"
60-6036-08-04	1/2"	1/4"
60-6036-08-06	1/2"	3/8"
60-6036-12-06	3/4"	3/8"
60-6036-12-08	3/4"	1/2"
60-6036-16-08	1"	1/2"
60-6036-16-12	1"	3/4"

Tech Sheet 71467



NPT Male x BSPP Female Bush

0683	Male Thread	Female Thread
60-6037-04-02	1/4"	1/8"
60-6037-06-04	3/8"	1/4"
60-6037-08-04	1/2"	1/4"
60-6037-12-04	3/4"	1/4"
60-6037-12-06	3/4"	3/8"
60-6037-12-08	3/4"	1/2"
60-6037-16-08	1"	1/2"
60-6037-16-12	1"	3/4"
60-6037-32-16	2"	1"

Tech Sheet 71468 71469

BSPP Male 60° Cone x BSPT Fixed Female Bush



0683	Male Thread	Female Thread
TR-16601	1/2"	1/4"

Tech Sheet 71469



NPT Male x NPT Female Bush

0683	Male Thread	Female Thread
50-5406-04-02	1/4"	1/8"
50-5406-06-02	3/8"	1/8"
50-5406-06-04	3/8"	1/4"
50-5406-08-02	1/2"	1/8"
50-5406-08-04	1/2"	1/4"
50-5406-08-06	1/2"	3/8"
50-5406-12-02	3/4"	1/8"
50-5406-12-04	3/4"	1/4"
50-5406-12-06	3/4"	3/8"
50-5406-12-08	3/4"	1/2"
50-5406-16-04	1"	1/4"
50-5406-16-06	1"	3/8"
50-5406-16-08	1"	1/2"
50-5406-16-12	1"	3/4"
50-5406-20-04	1.1/4"	1/4"
50-5406-20-06	1.1/4"	3/8"
50-5406-20-08	1.1/4"	1/2"
50-5406-20-12	1.1/4"	3/4"
50-5406-20-16	1.1/4"	1"
50-5406-24-04	1.1/2"	1/4"
50-5406-24-06	1.1/2"	3/8"
50-5406-24-08	1.1/2"	1/2"
50-5406-24-12	1.1/2"	3/4"
50-5406-24-16	1.1/2"	1"
50-5406-24-20	1.1/2"	1.1/4"
50-5406-32-04	2"	1/4"
50-5406-32-08	2"	1/2"
50-5406-32-12	2"	3/4"
50-5406-32-16	2"	1"
50-5406-32-20	2"	1.1/4"
50-5406-32-24	2"	1.1/2"
50-5406-40-32	2.1/2"	2"

Tech Sheet 71470



Gauge Adaptors



BSPP Male 60° Cone x BSPP Fixed Female Gauge

0683	Male Thread	Female Thread
60-6023-02-02	1/8"	1/8"
60-6023-02-04	1/8"	1/4"
60-6023-02-06	1/8"	3/8"
60-6023-04-02	1/4"	1/8"
60-6023-04-04	1/4"	1/4"
60-6023-04-06	1/4"	3/8"
60-6023-04-08	1/4"	1/2"
60-6023-06-02	3/8"	1/8"
60-6023-06-04	3/8"	1/4"
60-6023-06-06	3/8"	3/8"
60-6023-06-08	3/8"	1/2"
60-6023-08-04	1/2"	1/4"
60-6023-08-06	1/2"	3/8"
60-6023-08-08	1/2"	1/2"
60-6023-08-12	1/2"	3/4"
60-6023-08-16	1/2"	1"
60-6023-12-08	3/4"	1/2"
60-6023-16-12	1"	3/4"

Tech Sheet 71471

Female Hose Inserts



Female Swivel Straight BSPP

0683	Thread	To Suit Hose ID
TR-09240	1/4"	1/4"
TR-09241	3/8"	3/8"
TR-09242	1/2"	1/2"
TR-09243	5/8"	5/8"
TR-09244	3/4"	3/4"
TR-09245	1"	1"

Tech Sheet 71472



Female Fixed Straight NPT

0683	Thread	To Suit Hose ID
TR-16301	1/4"	1/4"
TR-16302	3/8"	3/8"

Tech Sheet 71473

Male Hose Inserts



Male Straight BSPP 60° Cone

0683	Thread	To Suit Hose ID
TR-09220	1/4"	1/4"
TR-09221	3/8"	3/8"
TR-09222	1/2"	1/2"
TR-09223	3/4"	3/4"
TR-09224	1"	1"

Tech Sheet 71474



Male Straight BSPT

0683	Thread	To Suit Hose ID
TR-09258	1/8"	1/4"
TR-09250	1/4"	1/4"
TR-09251	3/8"	3/8"
TR-09252	3/8"	1/2"
TR-09253	1/2"	1/2"
TR-09255	1"	1"

Tech Sheet 71475



BSPP Male 60° Cone x Hose Tail Straight

0683	Thread	To Suit Hose ID
TR-19920	1/4"	1/4"
TR-19921	3/8"	3/8"
TR-19922	1/2"	1/2"
TR-19923	5/8"	5/8"
TR-19924	3/4"	3/4"
TR-19925	1"	1"
TR-19927	1.1/4"	1.1/4"

Tech Sheet 71476



BSPP Male 60° Cone x Hose Tail 90° Swept

0683	Thread	To Suit Hose ID
TR-19930	1/4"	1/4"
TR-19931	3/8"	3/8"
TR-19932	1/2"	1/2"
TR-19933	5/8"	5/8"
TR-19934	3/4"	3/4"
TR-19935	1"	1"

Tech Sheet 71477



Male/Female Swivel Adaptors



BSPP Male 60° Cone x BSPP Swivel Female 60° Cone

0683	Male Thread	Female Thread
60-6007-02-02	1/8"	1/8"
60-6007-02-04	1/8"	1/4"
60-6007-02-06	1/8"	3/8"
60-6007-04-02	1/4"	1/8"
60-6007-04-04	1/4"	1/4"
60-6007-04-06	1/4"	3/8"
60-6007-04-08	1/4"	1/2"
60-6007-04-12	1/4"	3/4"
60-6007-06-02	3/8"	1/8"
60-6007-06-04	3/8"	1/4"
60-6007-06-06	3/8"	3/8"
60-6007-06-08	3/8"	1/2"
60-6007-06-10	3/8"	5/8"
60-6007-06-12	3/8"	3/4"
60-6007-06-16	3/8"	1"
60-6007-08-04	1/2"	1/4"
60-6007-08-06	1/2"	3/8"
60-6007-08-08	1/2"	1/2"
60-6007-08-10	1/2"	5/8"
60-6007-08-12	1/2"	3/4"
60-6007-08-16	1/2"	1"
60-6007-10-04	5/8"	1/4"
60-6007-10-06	5/8"	3/8"
60-6007-10-08	5/8"	1/2"
60-6007-10-10	5/8"	5/8"
60-6007-10-12	5/8"	3/4"
60-6007-12-04	3/4"	1/4"
60-6007-12-06	3/4"	3/8"
60-6007-12-08	3/4"	1/2"
60-6007-12-10	3/4"	5/8"
60-6007-12-12	3/4"	3/4"
60-6007-12-16	3/4"	1"
60-6007-12-20	3/4"	1.1/4"
60-6007-12-24	3/4"	1.1/2"
60-6007-16-06	1"	3/8"
60-6007-16-08	1"	1/2"
60-6007-16-12	1"	3/4"
60-6007-16-16	1"	1"
60-6007-16-20	1"	1.1/4"
60-6007-16-24	1"	1.1/2"
60-6007-16-32	1"	2"
60-6007-20-08	1.1/4"	1/2"
60-6007-20-12	1.1/4"	3/4"
60-6007-20-16	1.1/4"	1"
60-6007-20-20	1.1/4"	1.1/4"
60-6007-20-24	1.1/4"	1.1/2"
60-6007-24-16	1.1/2"	1"
60-6007-24-20	1.1/2"	1.1/4"
60-6007-24-24	1.1/2"	1.1/2"
60-6007-24-32	1.1/2"	2"
60-6007-32-24	2"	1.1/2"
60-6007-32-32	2"	2"

Tech Sheet 71478



BSPP Male 60° Cone x SAE O-Ring Swivel Female

0683	Male Thread	Female Thread
OR-4130-04-04	1/4"	9/16"
OR-4130-06-04	1/4"	11/16"
OR-4130-04-06	3/8"	9/16"
OR-4130-06-06	3/8"	11/16"
OR-4130-08-06	3/8"	13/16"
OR-4130-08-08	1/2"	13/16"
OR-4130-10-08	1/2"	1"
OR-4130-12-12	3/4"	1.3/16"
OR-4130-16-12	3/4"	1.7/16"
OR-4130-16-16	1"	1.7/16"
OR-4130-20-20	1.1/4"	1.11/16"

Tech Sheet 71479



BSPP Male 60° Cone x Metric Swivel Female

0683	Male Thread	Female Thread
60-6025-04-12	1/4"	M12 x 1.5
60-6025-04-14	1/4"	M14 x 1.5
60-6025-04-16	1/4"	M16 x 1.5
60-6025-04-18	1/4"	M18 x 1.5
60-6025-06-14	3/8"	M14 x 1.5
60-6025-06-16	3/8"	M16 x 1.5
60-6025-06-18	3/8"	M18 x 1.5
60-6025-06-20	3/8"	M20 x 1.5
60-6025-06-22	3/8"	M22 x 1.5
60-6025-08-16	1/2"	M16 x 1.5
60-6025-08-18	1/2"	M18 x 1.5
60-6025-08-20	1/2"	M20 x 1.5
60-6025-08-22	1/2"	M22x 1.5
60-6025-08-24	1/2"	M24 x 1.5
60-6025-08-26	1/2"	M26 x 1.5
60-6025-10-22	5/8"	M22 x 1.5
60-6025-12-22	3/4"	M22 x 1.5

Tech Sheet 71480

BSPP Male 60° Cone DIN 3852 Form A x BSPP Swivel Female 60° Cone



0683	Male Thread	Female Thread
60-6007-D-02-02	1/8"	1/8"
60-6007-D-02-06	1/8"	3/8"
60-6007-D-04-02	1/4"	1/8"
60-6007-D-04-04	1/4"	1/4"
60-6007-D-04-06	1/4"	3/8"
60-6007-D-04-08	1/4"	1/2"
60-6007-D-06-06	3/8"	3/8"
60-6007-D-06-08	3/8"	1/2"
60-6007-D-08-08	1/2"	1/2"
60-6007-D-08-12	1/2"	3/4"
60-6007-D-08-16	1/2"	1"
60-6007-D-12-08	3/4"	1/2"
60-6007-D-12-16	3/4"	1"
60-6007-D-12-20	3/4"	1.1/4"
60-6007-D-16-08	1"	1/2"
60-6007-D-16-12	1"	3/4"
60-6007-D-16-16	1"	1"
60-6007-D-16-20	1"	1.1/4"
60-6007-D-16-24	1"	1.1/2"
60-6007-D-20-20	1.1/4"	1.1/4"
60-6007-D-20-24	1.1/4"	1.1/2"
60-6007-D-20-32	1.1/4"	2"
60-6007-D-24-24	1.1/2"	1.1/2"
60-6007-D-24-32	1.1/2"	2"

Tech Sheet 71481

BSPP Male 60° Cone x NPSM Swivel Female



0683	Male Thread	Female Thread
TR-31427	1/4"	1/4"
TR-31429	1/4"	3/8"
TR-31433	3/8"	1/4"
TR-31434	3/8"	3/8"

Tech Sheet 71482

BSPT Male x BSPP Swivel Femal 60° Cone



0683	Male Thread	Female Thread
60-6041-02-02	1/8"	1/8"
60-6041-04-04	1/4"	1/4"
60-6041-06-06	3/8"	3/8"
60-6041-06-08	3/8"	1/2"
60-6041-08-06	1/2"	3/8"
60-6041-08-08	1/2"	1/2"
60-6041-10-10	5/8"	5/8"
60-6041-12-08	3/4"	1/2"
60-6041-12-12	3/4"	3/4"
60-6041-12-16	3/4"	1"
60-6041-16-12	1"	3/4"
60-6041-16-16	1"	1"
60-6041-20-20	1.1/4"	1.1/4"
60-6041-24-24	1.1/2"	1.1/2"
60-6041-32-32	2"	2"

Tech Sheet 71483





Male/Female Swivel Adaptors



Metric Male x BSPP Swivel Female 60° Cone

0683	Male Thread	Female Thread
60-6045-12-04	M12 x 1.5	1/4"
60-6045-14-04	M14 x 1.5	1/4"
60-6045-14-06	M14 x 1.5	3/8"
60-6045-16-04	M16 x 1.5	1/4"
60-6045-16-06	M16 x 1.5	3/8"
60-6045-16-08	M16 x 1.5	1/2"
60-6045-16-12	M16 x 1.5	3/4"
60-6045-18-06	M18 x 1.5	3/8"
60-6045-18-08	M18 x 1.5	1/2"
60-6045-20-06	M20 x 1.5	3/8"
60-6045-20-08	M20 x 1.5	1/2"
60-6045-20-12	M20 x 1.5	3/4"
60-6045-22-08	M22 x 1.5	1/2"
60-6045-22-12	M22 x 1.5	3/4"
60-6045-26-06	M26 x 1.5	3/8"
60-6045-30-08	M30 x 1.5	1/2"

Tech Sheet 71484



Metric Male x Metric Swivel Female

0683	Male Thread	Female Thread
60-6049-14-14	M14 x 1.5	M14 x 1.5
60-6049-16-16	M16 x 1.5	M16 x 1.5
60-6049-16-18	M16 x 1.5	M18 x 1.5
60-6049-18-18	M18 x 1.5	M18 x 1.5
60-6049-20-20	M20 x 1.5	M20 x 1.5
60-6049-20-22	M20 x 1.5	M22 x 1.5
60-6049-22-18	M22 x 1.5	M18 x 1.5
60-6049-22-22	M22 x 1.5	M22 x 1.5
60-6049-22-20	M22 x 1.5	M20 x 1.5

Tech Sheet 71485



NPT Male x BSPP Swivel Female 60° Cone

0683	Male Thread	Female Thread
60-6028-02-02	1/8"	1/8"
60-6028-04-04	1/4"	1/4"
60-6028-06-04	3/8"	1/4"
60-6028-06-06	3/8"	3/8"
60-6028-06-08	3/8"	1/2"
60-6028-08-06	1/2"	3/8"
60-6028-08-08	1/2"	1/2"
60-6028-12-08	3/4"	1/2"
60-6028-12-12	3/4"	3/4"
60-6028-16-12	1"	3/4"
60-6028-16-16	1"	1"

Tech Sheet 71486

Swivel Females



BSPP Swivel Female x BSPP Swivel Female 60° Cone

0683	Thread	Thread
60-6008-02-02	1/8"	1/8"
60-6008-04-02	1/8"	1/4"
60-6008-06-02	1/8"	3/8"
60-6008-04-04	1/4"	1/4"
60-6008-06-04	1/4"	3/8"
60-6008-06-06	3/8"	3/8"
60-6008-12-06	3/8"	3/4"
60-6008-16-06	3/8"	1"
60-6008-08-04	1/2"	1/4"
60-6008-08-06	1/2"	3/8"
60-6008-08-08	1/2"	1/2"
60-6008-10-08	1/2"	5/8"
60-6008-12-08	1/2"	3/4"
60-6008-10-06	5/8"	3/8"
60-6008-10-10	5/8"	5/8"
60-6008-12-10	3/4"	5/8"
60-6008-12-12	3/4"	3/4"
60-6008-16-12	3/4"	1"
60-6008-16-08	1"	1/2"
60-6008-16-16	1"	1"
60-6008-20-16	1"	1.1/4"
60-6008-24-16	1"	1.1/2"
60-6008-20-12	1.1/4"	3/4"
60-6008-20-20	1.1/4"	1.1/4"
60-6008-24-24	1.1/2"	1.1/2"
60-6008-32-24	1.1/2"	2"
60-6008-32-32	2"	2"

Tech Sheet 71487



BSPP Swivel Female 60° Cone x Metric Swivel Female

0683	Thread	Thread
60-6046-04-12	1/4"	M12 x 1.5
60-6046-04-14	1/4"	M14 x 1.5
60-6046-06-12	3/8"	M12 x 1.5
60-6046-06-14	3/8"	M14 x 1.5
60-6046-06-16	3/8"	M16 x 1.5
60-6046-06-18	3/8"	M18 x 1.5
60-6046-06-20	3/8"	M20 x 1.5
60-6046-06-22	3/8"	M22 x 1.5
60-6046-08-16	1/2"	M16 x 1.5
60-6046-08-18	1/2"	M18 x 1.5
60-6046-08-22	1/2"	M22 x 1.5

Tech Sheet 71488



Metric Swivel Female x Metric Swivel Female

0683	Thread	Thread
60-6102-12-12	M12 x 1.5	M12 x 1.5
60-6102-12-14	M12 x 1.5	M14 x 1.5
60-6102-14-14	M14 x 1.5	M14 x 1.5
60-6102-16-16	M16 x 1.5	M16 x 1.5
60-6102-16-18	M16 x 1.5	M18 x 1.5
60-6102-18-18	M18 x 1.5	M18 x 1.5
60-6102-18-20	M18 x 1.5	M20 x 1.5
60-6102-18-22	M18 x 1.5	M22 x 1.5
60-6102-20-20	M20 x 1.5	M20 x 1.5
60-6102-20-22	M20 x 1.5	M22 x 1.5
60-6102-22-22	M22 x 1.5	M22 x 1.5

Tech Sheet 71489





Hexagon Female Sockets



BSPP Fixed Female x BSPP Fixed Female

0683	Thread
60-6022-02-02	1/8"
60-6022-04-04	1/4"
60-6022-06-06	3/8"
60-6022-08-08	1/2"
60-6022-10-10	5/8"
60-6022-12-12	3/4"
60-6022-16-16	1"
60-6022-20-20	1.1/4"
60-6022-24-24	1.1/2"
60-6022-32-32	2"

Tech Sheet 71490



BSPP Fixed Female x BSPP Fixed Female Reducing

0683	Thread	Thread
60-6022-02-04	1/8"	1/4"
60-6022-04-06	1/4"	3/8"
60-6022-04-08	1/4"	1/2"
60-6022-06-08	3/8"	1/2"
60-6022-08-12	1/2"	3/4"
60-6022-10-12	1/2"	5/8"
60-6022-12-16	3/4"	1"

Tech Sheet 71491



NPT Fixed Female x NPT Fixed Female

0683	Thread
50-5000-02-02	1/8"
50-5000-04-04	1/4"
50-5000-06-06	3/8"
50-5000-08-08	1/2"
50-5000-12-12	3/4"
50-5000-16-16	1"
50-5000-24-24	1.1/2"

Tech Sheet 71492

90° Elbows



BSPP Male x BSPP Male 90° Swept Elbow 60° Cone

0683	Thread
60-6034-04-04	1/4"
60-6034-06-06	3/8"
60-6034-08-08	1/2"
60-6034-10-10	5/8"
60-6034-12-12	3/4"
60-6034-16-16	1"
60-6034-32-32	2"

Tech Sheet 71493



BSPP Male 60° Cone x BSPP Male 90° Positional Forged Elbow

0683	Thread
60-2008-04-04	1/4"
60-2008-06-06	3/8"
60-2008-08-08	1/2"
60-2008-12-12	3/4"
60-2008-16-16	1"
60-2008-20-20	1.1/4"

Tech Sheet 71494



BSPP Male x BSPP Swivel Female 90° Swept Elbow 60° Cone

0683	Thread
60-6009-04-04	1/4"
60-6009-06-06	3/8"
60-6009-08-08	1/2"
60-6009-10-10	5/8"
60-6009-12-12	3/4"
60-6009-16-16	1"
60-6009-20-20	1.1/4"
60-6009-24-24	1.1/2"
60-6009-32-32	2"

Tech Sheet 71495



BSPP Swivel Female x BSPP Swivel Female 90° Swept Elbow 60° Cone

0683	Thread
60-6010-04-04	1/4"
60-6010-06-06	3/8"
60-6010-08-08	1/2"
60-6010-10-10	5/8"
60-6010-12-12	3/4"
60-6010-16-16	1"
60-6010-20-20	1.1/4"
60-6010-24-24	1.1/2"

Tech Sheet 71496



BSPP Swivel Female 60° Cone x Hose Tail 90° Swept Elbow

0683	Thread	To Suit Hose ID
TR-93000	1/4"	1/4"
TR-93001	3/8"	3/8"
TR-93002	1/2"	1/2"
TR-93003	5/8"	5/8"
TR-93004	3/4"	3/4"
TR-93005	1"	1"
TR-93006	1.1/4"	1.1/4"

Tech Sheet 71497



Female Elbow 90° BSPP 60° Cone

0683	Thread	To Suit Hose ID
TR-09280	1/4"	1/4"
TR-09281	3/8"	3/8"
TR-09282	1/2"	1/2"
TR-09283	5/8"	5/8"
TR-09284	3/4"	3/4"
TR-09285	1"	1"

Tech Sheet 71498



BSPP Swivel Female 60° Cone x Hose Tail 90° Compact

0683	Thread	To Suit Hose ID
TR-80001	1/4"	1/4"
TR-80002	3/8"	3/8"
TR-80008	1/2"	3/8"
TR-80003	1/2"	1/2"
TR-80004	5/8"	5/8"
TR-80005	3/4"	3/4"
TR-80006	1"	1"

Tech Sheet 71499

90° Compact Elbows


BSPP Male x BSPP Male 90° Compact Elbow for Bonded Seal 60° Cone

0683	Thread	Thread
60-2003-02-02	1/8"	1/8"
60-2003-04-02	1/4"	1/8"
60-2003-04-04	1/4"	1/4"
60-2003-04-06	1/4"	3/8"
60-2003-06-06	3/8"	3/8"
60-2003-06-08	3/8"	1/2"
60-2003-08-08	1/2"	1/2"
60-2003-08-12	1/2"	3/4"
60-2003-12-12	3/4"	3/4"
60-2003-16-12	1"	3/4"
60-2003-16-16	1"	1"
60-2003-20-20	1.1/4"	1.1/4"
60-2003-32-32	2"	2"

Tech Sheet 71500


BSPP Male 60° Cone x BSPT Male 90° Compact Elbow

0683	Thread	Thread
60-2012-02-02	1/8"	1/8"
60-2012-04-02	1/4"	1/8"
60-2012-04-04	1/4"	1/4"
60-2012-06-06	3/8"	3/8"
60-2012-08-06	1/2"	3/8"
60-2012-08-08	1/2"	1/2"
60-2012-12-12	3/4"	3/4"
60-2012-16-16	1"	1"

Tech Sheet 71501


BSPP Male 60° Cone x NPT Male 90° Compact Elbow

0683	Thread	Thread
60-2014-04-04	1/4"	1/4"
60-2014-06-06	3/8"	3/8"
60-2014-08-08	1/2"	1/2"

Tech Sheet 71502


BSPP Male for Bonded Seal x BSPP Swivel Female 90° Compact Elbow 60° Cone

0683	Male Thread	Female Thread
60-2006-BS-02-02	1/8"	1/8"
60-2006-BS-04-04	1/4"	1/4"
60-2006-BS-06-06	3/8"	3/8"
60-2006-BS-06-04	3/8"	1/4"
60-2006-BS-08-06	1/2"	3/8"
60-2006-BS-08-08	1/2"	1/2"
60-2006-BS-08-12	1/2"	3/4"
60-2006-BS-10-10	5/8"	5/8"
60-2006-BS-12-12	3/4"	3/4"
60-2006-BS-16-16	1"	1"
60-2006-BS-20-20	1.1/4"	1.1/4"
60-2006-BS-24-24	1.1/2"	1.1/2"
60-2006-BS-32-32	2"	2"

Tech Sheet 71503


BSPP Male for Cone Seal x BSPP Swivel Female 60° Compact Elbow 60° Cone

0683	Male Thread	Female Thread
60-2006-04-02	1/4"	1/8"
60-2006-04-06	1/4"	3/8"
60-2006-06-04	3/8"	1/4"
60-2006-06-08	3/8"	1/2"
60-2006-06-12	3/8"	3/4"
60-2006-08-06	1/2"	3/8"
60-2006-08-12	1/2"	3/4"
60-2006-08-16	1/2"	1"
60-2006-12-16	3/4"	1"
60-2006-16-12	1"	3/4"
60-2006-32-32	2"	2"

Tech Sheet 71504


BSPP Female x BSPP Female 90° Compact Elbow

0683	Thread
60-2004-04-04	1/4"
60-2004-06-06	3/8"
60-2004-08-08	1/2"
60-2004-12-12	3/4"
60-2004-16-16	1"
60-2004-20-20	1.1/4"

Tech Sheet 71505


BSPP Swivel Female x BSPP Swivel Female 90° Compact Elbow 60° Cone

0683	Thread	Thread
60-2005-02-02	1/8"	1/8"
60-2005-02-04	1/8"	1/4"
60-2005-04-04	1/4"	1/4"
60-2005-04-06	1/4"	3/8"
60-2005-04-08	1/4"	1/2"
60-2005-06-06	3/8"	3/8"
60-2005-06-08	3/8"	1/2"
60-2005-08-08	1/2"	1/2"
60-2005-10-10	5/8"	5/8"
60-2005-12-12	3/4"	3/4"
60-2005-12-16	3/4"	1"
60-2005-16-16	1"	1"
60-2005-20-20	1.1/4"	1.1/4"
60-2005-24-24	1.1/2"	1.1/2"
60-2005-32-32	2"	2"

Tech Sheet 71506



90° Compact Elbows



**BSPP Male x
BSPP Swivel Female 90°
Forged Compact Elbow 60° Cone**

0683	Thread
60-2006-04-04	1/4"
60-2006-06-06	3/8"
60-2006-08-08	1/2"
60-2006-12-12	3/4"
60-2006-16-16	1"
60-2006-20-20	1.1/4"
60-2006-24-24	1.1/2"

Tech Sheet 71507



**NPT Male x BSPP Swivel Female
90° Compact Elbow 60° Cone**

0683	Male Thread	Female Thread
60-2051-02-02	1/8"	1/8"
60-2051-04-04	1/4"	1/4"
60-2051-06-06	3/8"	3/8"
60-2051-08-08	1/2"	1/2"
60-2051-12-12	3/4"	3/4"
60-2051-16-16	1"	1"
60-2051-20-20	1.1/4"	1.1/4"
60-2051-24-24	1.1/2"	1.1/2"

Tech Sheet 71510



**NPT Male x NPT Fixed Female
90° Compact Elbow**

0683	Male Thread	Female Thread
50-5502-02-02	1/8"	1/8"
50-5502-04-04	1/4"	1/4"
50-5502-06-04	3/8"	1/4"
50-5502-06-06	3/8"	3/8"
50-5502-08-06	1/2"	3/8"
50-5502-08-08	1/2"	1/2"
50-5502-12-12	3/4"	3/4"
50-5502-16-16	1"	1"
50-5502-20-20	1.1/4"	1.1/4"
50-5502-24-24	1.1/2"	1.1/2"

Tech Sheet 71512



**BSPT Male x BSPT Male
90° Compact Elbow**

0683	Thread
60-2015-04-04	1/4"
60-2015-06-06	3/8"
60-2015-08-08	1/2"
60-2015-12-12	3/4"
60-2015-16-16	1"
60-2015-20-20	1.1/4"

Tech Sheet 71508



**NPT Male x NPT Male
90° Compact Elbow**

0683	Thread	Thread
50-5500-04-04	1/4"	1/4"
50-5500-06-06	3/8"	3/8"
50-5500-08-08	1/2"	1/2"
50-5500-12-12	3/4"	3/4"
50-5500-16-16	1"	1"
50-5500-20-20	1.1/4"	1.1/4"
50-5500-24-24	1.1/2"	1.1/2"
50-5500-32-32	2"	2"

Tech Sheet 71511



**NPT Fixed Female x
NPT Fixed Female 90° Compact Elbow**

0683	Thread	Thread
50-5504-02-02	1/8"	1/8"
50-5504-04-04	1/4"	1/4"
50-5504-06-06	3/8"	3/8"
50-5504-06-08	3/8"	1/2"
50-5504-08-08	1/2"	1/2"
50-5504-12-12	3/4"	3/4"
50-5504-16-16	1"	1"
50-5504-20-20	1.1/4"	1.1/4"
50-5504-24-24	1.1/2"	1.1/2"
50-5504-32-32	2"	2"

Tech Sheet 71513



**BSPT Male x BSPP Swivel Female
90° Compact Elbow 60° Cone**

0683	Male Thread	Female Thread
60-2050-02-02	1/8"	1/8"
60-2050-04-04	1/4"	1/4"
60-2050-06-06	3/8"	3/8"
60-2050-08-08	1/2"	1/2"
60-2050-12-08	3/4"	1/2"
60-2050-12-12	3/4"	3/4"
60-2050-16-16	1"	1"
60-2050-24-24	1.1/2"	1.1/2"

Tech Sheet 71509



45° Elbows


BSPP Male x BSPP Male
45° Swept Elbow 60° Cone

0683	Thread
60-6035-04-04	1/4"
60-6035-06-06	3/8"
60-6035-08-08	1/2"
60-6035-10-10	5/8"
60-6035-24-24	1.1/2"

Tech Sheet 71514


BSPP Swivel Female x BSPP Swivel
Female 45° Swept Elbow 60° Cone

0683	Thread
60-6012-04-04	1/4"
60-6012-06-06	3/8"
60-6012-08-08	1/2"
60-6012-10-10	5/8"
60-6012-12-12	3/4"
60-6012-16-16	1"
60-6012-20-20	1.1/4"
60-6012-24-24	1.1/2"
60-6012-32-32	2"

Tech Sheet 71517


BSPP Male x BSPP Swivel Female
45° Swept Elbow 60° Cone

0683	Thread
60-6011-04-04	1/4"
60-6011-06-06	3/8"
60-6011-08-08	1/2"
60-6011-10-10	5/8"
60-6011-12-12	3/4"
60-6011-16-16	1"
60-6011-20-20	1.1/4"
60-6011-24-24	1.1/2"
60-6011-32-32	2"

Tech Sheet 71515


BSPP Male x BSPP Male 45°
Positional Forged Elbow

0683	Thread
60-2010-04-04	1/4"
60-2010-06-06	3/8"
60-2010-08-08	1/2"
60-2010-12-12	3/4"
60-2010-16-16	1"

Tech Sheet 71518


BSPP Swivel Female x Hose Tail
45° Swept Elbow 60° Cone

0683	Thread	To Suit Hose ID
TR-94505	1"	1"

Tech Sheet 71516


Female Elbow 45°
BSPP 60° Cone

0683	Thread	To Suit Hose ID
TR-19280	1/4"	1/4"
TR-19281	3/8"	3/8"
TR-19282	1/2"	1/2"
TR-19283	5/8"	5/8"
TR-19284	3/4"	3/4"
TR-19285	1"	1"

Tech Sheet 71519

45° Compact Elbows


BSPP Male x BSPP Swivel Female 45°
Forged Compact Elbow 60° Cone

0683	Thread
60-4001-04-04	1/4"
60-4001-06-06	3/8"
60-4001-08-08	1/2"
60-4001-12-12	3/4"
60-4001-16-16	1"

Tech Sheet 71520



Tees



BSPP Male x BSPP Male x BSPP Swivel Female Branch Tee 60° Cone

0683	Thread
60-3002-02-02-02	1/8"
60-3002-04-04-04	1/4"
60-3002-06-06-06	3/8"
60-3002-08-08-08	1/2"
60-3002-12-12-12	3/4"
60-3002-16-16-16	1"
60-3002-20-20-20	1.1/4"

Tech Sheet 71521



BSPP Male x BSPP Swivel Female x BSPP Male Branch Tee 60° Cone

0683	Thread
60-3003-02-02-02	1/8"
60-3003-04-04-04	1/4"
60-3003-06-06-06	3/8"
60-3003-08-08-08	1/2"
60-3003-10-10-10	5/8"
60-3003-12-12-12	3/4"
60-3003-16-16-16	1"
60-3003-20-20-20	1.1/4"

Tech Sheet 71522



BSPP Male x BSPP Swivel Female x BSPP Swivel Female Branch Tee 60° Cone

0683	Thread
60-3007-02-02-02	1/8"
60-3007-04-04-04	1/4"
60-3007-06-06-06	3/8"
60-3007-08-08-08	1/2"
60-3007-10-10-10	5/8"
60-3007-12-12-12	3/4"
60-3007-16-16-16	1"
60-3007-20-20-20	1.1/4"

Tech Sheet 71523



BSPP Male x BSPP Swivel Female x BSPP Male Branch Tee Reducing on Branch 60° Cone

0683	Thread A	Thread B	Thread C
60-3003-06-06-04	3/8"	3/8"	1/4"
60-3003-08-08-04	1/2"	1/2"	1/4"
60-3003-08-08-06	1/2"	1/2"	3/8"
60-3003-12-12-04	3/4"	3/4"	1/4"
60-3003-12-12-06	3/4"	3/4"	3/8"
60-3003-12-12-08	3/4"	3/4"	1/2"
60-3003-16-16-04	1"	1"	1/4"
60-3003-16-16-12	1"	1"	3/4"

Tech Sheet 71524



BSPP Male x BSPP Swivel Female x BSPP Male Branch Tee Reducing on Run 60° Cone

0683	Thread A	Thread B	Thread C
60-3003-06-08-08	3/8"	1/2"	1/2"

Tech Sheet 71525



BSPP Male x BSPP Swivel Female x BSPP Male Branch Tee Enlarging on Branch 60° Cone

0683	Thread A	Thread B	Thread C
60-3003-06-06-08	3/8"	3/8"	1/2"

Tech Sheet 71526



BSPP Swivel Female x BSPP Swivel Female x BSPP Male Branch Tee 60° Cone

0683	Thread
60-3006-04-04-04	1/4"
60-3006-06-06-06	3/8"
60-3006-08-08-08	1/2"
60-3006-10-10-10	5/8"
60-3006-12-12-12	3/4"
60-3006-16-16-16	1"
60-3006-20-20-20	1.1/4"

Tech Sheet 71527



NPT Male x NPT Female x NPT Male Branch Tee

0683	Thread
50-5603-04-04-04	1/4"
50-5603-06-06-06	3/8"
50-5603-08-08-08	1/2"
50-5603-12-12-12	3/4"
50-5603-16-16-16	1"
50-5603-20-20-20	1.1/4"
50-5603-24-24-24	1.1/2"

Tech Sheet 71528



NPT Male x NPT Female x NPT Female Branch Tee

0683	Thread
50-5602-02-02-02	1/8"
50-5602-04-04-04	1/4"
50-5602-06-06-06	3/8"
50-5602-08-08-08	1/2"
50-5602-12-12-12	3/4"
50-5602-16-16-16	1"
50-5602-20-20-20	1.1/4"
50-5602-24-24-24	1.1/2"

Tech Sheet 71529



NPT Female x NPT Female x NPT Male Branch Tee

0683	Thread
50-5604-04-04-04	1/4"
50-5604-06-06-06	3/8"
50-5604-12-12-12	3/4"
50-5604-16-16-16	1"
50-5604-20-20-20	1.1/4"
50-5604-24-24-24	1.1/2"

Tech Sheet 71530

Tees


BSPP Male x BSPP Male x BSPP Swivel Female Branch Unequal Tee 60° Cone

0683	Thread A	Thread B	Thread C
60-3002-06-08-08	3/8"	1/2"	1/2"
60-3002-04-08-08	1/4"	1/2"	1/2"
60-3002-08-12-12	1/2"	3/4"	3/4"
60-3002-08-12-16	1/2"	3/4"	1"

Tech Sheet 71531


BSPP Male Tee 60° Cone Seating Enlarging on Branch

0683	Thread A	Thread B
60-3001-06-06-08	3/8"	1/2"

Tech Sheet 71532


NPT Male Tee

0683	Thread
50-5600-02-02-02	1/8"
50-5600-04-04-04	1/4"
50-5600-06-06-06	3/8"
50-5600-08-08-08	1/2"

Tech Sheet 71533


BSPP Swivel Female Tee 60° Cone

0683	Thread
60-3004-02-02-02	1/8"
60-3004-04-04-04	1/4"
60-3004-06-06-06	3/8"
60-3004-08-08-08	1/2"
60-3004-10-10-10	5/8"
60-3004-12-12-12	3/4"
60-3004-16-16-16	1"
60-3004-20-20-20	1.1/4"
60-3004-24-24-24	1.1/2"
60-3004-32-32-32	2"

Tech Sheet 71534


BSPP Female Tee

0683	Thread
60-3005-02-02-02	1/8"
60-3005-04-04-04	1/4"
60-3005-06-06-06	3/8"
60-3005-08-08-08	1/2"
60-3005-10-10-10	5/8"
60-3005-12-12-12	3/4"
60-3005-16-16-16	1"
60-3005-20-20-20	1.1/4"
60-3005-24-24-24	1.1/2"
60-3005-32-32-32	2"

Tech Sheet 71535


NPTF Female Tee

0683	Thread
50-5605-02-02-02	1/8"
50-5605-04-04-04	1/4"
50-5605-06-06-06	3/8"
50-5605-08-08-08	1/2"
50-5605-12-12-12	3/4"
50-5605-16-16-16	1"
50-5605-20-20-20	1.1/4"
50-5605-24-24-24	1.1/2"
50-5605-32-32-32	2"

Tech Sheet 71536


BSPP Male Tee Reducing on Branch 60° Cone

0683	Thread A	Thread B	Thread C
60-3001-04-04-02	1/4"	1/4"	1/8"
60-3001-06-06-04	3/8"	3/8"	1/4"
60-3001-08-08-04	1/2"	1/2"	1/4"
60-3001-10-10-08	5/8"	5/8"	1/2"
60-3001-12-12-04	3/4"	3/4"	1/4"
60-3001-12-12-08	3/4"	3/4"	1/2"
60-3001-16-16-12	1"	1"	3/4"
60-3001-20-20-12	1.1/4"	1.1/4"	3/4"
60-3001-20-20-16	1.1/4"	1.1/4"	1"

Tech Sheet 71537


BSPP Male Tee for Bonded Seal 60° Cone

0683	Thread
60-3001-02-02-02	1/8"
60-3001-04-04-04	1/4"
60-3001-06-06-06	3/8"
60-3001-08-08-08	1/2"
60-3001-10-10-10	5/8"
60-3001-12-12-12	3/4"
60-3001-16-16-16	1"
60-3001-20-20-20	1.1/4"
60-3001-24-24-24	1.1/2"
60-3001-32-32-32	2"

Tech Sheet 71538



Bulkheads



BSPP Male x BSPP Male Bulkhead complete with Locknut 60° Cone

0683	Thread	Thread
60-6003-02-02	1/8"	1/8"
60-6003-04-04	1/4"	1/4"
60-6003-04-06	1/4"	3/8"
60-6003-06-04	3/8"	1/4"
60-6003-06-06	3/8"	3/8"
60-6003-06-08	3/8"	1/2"
60-6003-08-06	1/2"	3/8"
60-6003-08-08	1/2"	1/2"
60-6003-08-12	1/2"	3/4"
60-6003-10-10	5/8"	5/8"
60-6003-12-08	3/4"	1/2"
60-6003-12-12	3/4"	3/4"
60-6003-16-16	1"	1"
60-6003-20-20	1.1/4"	1.1/4"
60-6003-24-16	1.1/2"	1"
60-6003-24-24	1.1/2"	1.1/2"
60-6003-32-32	2"	2"
60-6003-40-40	2.1/2"	2.1/2"
60-6003-48-48	3"	3"

Tech Sheet 71539



BSPP Male x BSPP Male Extended Bulkhead 60° Cone complete with Locknut

0683	Thread A	Thread B
60-6003-L-04-04	1/4"	1/4"
60-6003-L-06-06	3/8"	3/8"
60-6003-L-06-08	3/8"	1/2"
60-6003-L-08-06	1/2"	3/8"
60-6003-L-08-08	1/2"	1/2"
60-6003-L-10-10	5/8"	5/8"
60-6003-L-12-08	3/4"	1/2"
60-6003-L-12-12	3/4"	3/4"
60-6003-L-16-16	1"	1"

Tech Sheet 71540



BSPP Male x BSPP Male Bulkhead 60° Cone No Locknut

0683	Thread A	Thread B
60-6003-02-02-M1	1/8"	1/8"
60-6003-04-04-M1	1/4"	1/4"
60-6003-06-06-M1	3/8"	3/8"
60-6003-08-08-M1	1/2"	1/2"
60-6003-10-10-M1	5/8"	5/8"
60-6003-12-12-M1	3/4"	3/4"
60-6003-16-16-M1	1"	1"
60-6003-20-20-M1	1.1/4"	1.1/4"
60-6003-24-24-M1	1.1/2"	1.1/2"
60-6003-32-32-M1	2"	2"
60-6003-04-06-M1	1/4"	3/8"
60-6003-06-04-M1	3/8"	1/4"
60-6003-06-08-M1	3/8"	1/2"
60-6003-08-06-M1	1/2"	3/8"
60-6003-06-12-M1	1/2"	3/4"
60-6003-12-08-M1	3/4"	1/2"

Tech Sheet 71541



Metric Male x Metric Male Bulkhead No Locknut

0683	Thread	Thread
60-6026-12-12-M1	M12 x 1.5	M12 x 1.5
60-6026-14-14-M1	M14 x 1.5	M14 x 1.5
60-6026-16-16-M1	M16 x 1.5	M16 x 1.5
60-6026-18-18-M1	M18 x 1.5	M18 x 1.5
60-6026-20-20M1	M20 x 1.5	M20 x 1.5
60-6026-20-20-M1	M22 x 1.5	M22 x 1.5
60-6026-24-24-M1	M24 x 1.5	M24 x 1.5

Tech Sheet 71542



Metric Male x Metric Male Bulkhead complete with Locknut

0683	Thread
60-6026-12-12	M12 x 1.5
60-6026-14-14	M14 x 1.5
60-6026-16-16	M16 x 1.5
60-6026-18-18	M18 x 1.5
60-6026-20-20	M20 x 1.5
60-6026-22-22	M22 x 1.5
60-6026-24-24	M24 x 1.5

Tech Sheet 71543

Plugs



BSPP Solid Plug

0683	Thread
60-6031-02	1/8"
60-6031-04	1/4"
60-6031-06	3/8"
60-6031-08	1/2"
60-6031-10	5/8"
60-6031-12	3/4"
60-6031-16	1"
60-6031-20	1.1/4"
60-6031-24	1.1/2"
60-6031-32	2"

Tech Sheet 71545



BSPP 60° Coned Plug

0683	Thread
60-6006-02	1/8"
60-6006-04	1/4"
60-6006-06	3/8"
60-6006-08	1/2"
60-6006-10	5/8"
60-6006-12	3/4"
60-6006-16	1"
60-6006-20	1.1/4"
60-6006-24	1.1/2"
60-6006-32	2"
60-6006-40	2.1/2"

Tech Sheet 71544



BSPP 60° Coned Plug to DIN 3852 Form A

0683	Thread
60-6006-DIN-04	1/4"
60-6006-DIN-06	3/8"
60-6006-DIN-08	1/2"
60-6006-DIN-12	3/4"
60-6006-DIN-16	1"
60-6006-DIN-32	2"

Tech Sheet 71546

Plugs


BSPP Socket Headed Plug for Bonded Seal

0683	Thread
TR-09025-02-SPG	1/8"
TR-09026-04-SPG	1/4"
TR-09027-06-SPG	3/8"
TR-09028-08-SPG	1/2"
TR-09030-12-SPG	3/4"

Tech Sheet 71547


BSPP Socket Headed Plug with ED Seal

0683	Thread
60-6030-02	1/8"
60-6030-04	1/4"
60-6030-06	3/8"
60-6030-08	1/2"
60-6030-12	3/4"

Tech Sheet 71548


BSPT Solid Plug

0683	Thread
60-6032-02	1/8"
60-6032-04	1/4"
60-6032-06	3/8"
60-6032-08	1/2"
60-6032-10	5/8"
60-6032-12	3/4"
60-6032-16	1"
60-6032-24	1.1/2"
60-6032-32	2"

Tech Sheet 71549


Metric Solid Plug 1mm Pitch

0683	Thread
60-6021-08	M8 x 1
60-6021-10	M10 x 1
TR-09168	M12 x 1

Tech Sheet 71550


Metric Solid Plug 1.5mm Pitch

0683	Thread
60-6021-10X1.5	M10 x 1.5
60-6021-12	M12 x 1.5
60-6021-14	M14 x 1.5
60-6021-16	M16 x 1.5
60-6021-18	M18 x 1.5
60-6021-20	M20 x 1.5
60-6021-22	M22 x 1.5
60-6021-24	M24 x 1.5
60-6021-26	M26 x 1.5

Tech Sheet 71551


Metric Socket Headed Plug for Bonded Seal

0683	Thread
TR-09179-M10-SPG	M10 x 1
TR-09173-M14-SPG	M14 x 1.5
TR-09170-M16-SPG	M16 x 1.5
TR-09176-M22-SPG	M22 x 1.5

Tech Sheet 71552


Metric Socket Headed Plug with ED Seal

0683	Thread
60-6800-ED-10	M10 x 1
60-6800-ED-14	M14 x 1.5
60-6800-ED-16	M16 x 1.5
60-6800-ED-22	M22 x 1.5
60-6800-ED-26	M26 x 1.5

Tech Sheet 71553


NPT Socket Headed Plug

0683	Thread
50-5406-HP-01	1/8"
50-5406-HP-04	1/4"
50-5406-HP-06	3/8"
50-5406-HP-08	1/2"
50-5406-HP-12	3/4"
50-5406-HP-16	1"

Tech Sheet 71554


NPT Solid Plug

0683	Thread
50-5406-P-02	1/8"
50-5406-P-04	1/4"
50-5406-P-06	3/8"
50-5406-P-08	1/2"
50-5406-P-12	3/4"
50-5406-P-16	1"
50-5406-P-20	1.1/4"
50-5406-P-24	1.1/2"
50-5406-P-32	2"
50-5406-P-40	2.1/2"
50-5406-P-48	3"

Tech Sheet 71555


SAE Boss Socket Head Male Plug with O-Ring

0683	Thread
37-2070-04	7/16"
37-2070-05	1/2"
37-2070-06	9/16"
37-2070-08	3/4"
37-2070-10	7/8"
37-2070-12	1.1/16"
37-2070-14	1.3/16"
37-2070-16	1.5/16"

Tech Sheet 71556



Plugs



SAE O-Ring Boss Male Solid Plug with O-Ring

0683	Thread
37-2060-02	5/16"
37-2060-04	7/16"
37-2060-05	1/2"
37-2060-06	9/16"
37-2060-08	3/4"
37-2060-10	7/8"
37-2060-12	1.1/16"
37-2060-14	1.3/16"
37-2060-16	1.5/16"
37-2060-20	1.5/8"
37-2060-24	1.7/8"
37-2060-32	2.1/2"

Tech Sheet 71557



SAE O-Ring Face Plug with O-Ring

0683	Thread
OR-2040-04	9/16"
OR-2040-06	11/16"
OR-2040-08	13/16"
OR-2040-10	1"
OR-2040-12	1.3/16"
OR-2040-16	1.7/16"

Tech Sheet 71558



JIS Solid Plug 30° Cone (BSPP Threads)

0683	Thread
7588-P-04	1/4"
7588-P-06	3/8"
7588-P-08	1/2"
7588-P-12	3/4"

Tech Sheet 71559



JIS Solid Plug 30° Cone (Metric Threads)

0683	Thread
TR-9711-14	M14 x 1.5
TR-9711-18	M18 x 1.5
TR-9711-22	M22 x 1.5
TR-9711-24	M24 x 1.5
TR-9711-30	M30 x 1.5

Tech Sheet 71560

Crosses



BSPP Male Cross 60° Cone for Bonded Seal

0683	Thread
60-5000-02	1/8"
60-5000-04	1/4"
60-5000-06	3/8"
60-5000-08	1/2"
60-5000-10	5/8"
60-5000-12	3/4"
60-5000-16	1"
60-5000-20	1.1/4"

Tech Sheet 71561



BSPP Female Cross

0683	Thread
60-5002-02	1/8"
60-5002-04	1/4"
60-5002-06	3/8"
60-5002-08	1/2"
60-5002-12	3/4"
60-5002-16	1"
60-5002-20	1.1/4"

Tech Sheet 71562



BSPP Swivel Female Cross 60° Cone

0683	Thread
60-5001-02	1/8"
60-5001-04	1/4"
60-5001-06	3/8"
60-5001-08	1/2"
60-5001-10	5/8"
60-5001-12	3/4"
60-5001-16	1"
60-5001-20	1.1/4"
60-5001-24	1.1/2"

Tech Sheet 71563



NPT Female Cross

0683	Thread
50-5652-04	1/4"
50-5652-06	3/8"
50-5652-08	1/2"
50-5652-16	1"
50-5652-24	1.1/2"

Tech Sheet 71564

Locknuts



BSPP Locknut

0683	Thread
60-6004-02	1/8"
60-6004-04	1/4"
60-6004-06	3/8"
60-6004-08	1/2"
60-6004-10	5/8"
60-6004-12	3/4"
60-6004-16	1"
60-6004-20	1.1/4"
60-6004-24	1.1/2"
60-6004-32	2"

Tech Sheet 71565



Metric Locknut

0683	Thread
60-1001-12	M12 x 1.5
60-1001-14	M14 x 1.5
60-1001-16	M16 x 1.5
60-1001-18	M18 x 1.5
60-1001-20	M20 x 1.5
60-1001-22	M22 x 1.5
60-1001-24	M24 x 1.5

Tech Sheet 71566

Blanking Cap



BSPP Swivel 60° Coned Blanking Cap

0683	Thread
60-6005-02	1/8"
60-6005-04	1/4"
60-6005-06	3/8"
60-6005-08	1/2"
60-6005-10	5/8"
60-6005-12	3/4"
60-6005-16	1"
60-6005-20	1.1/4"
60-6005-24	1.1/2"
60-6005-32	2"

Tech Sheet 71567



Metric Swivel Blanking Cap

0683	Thread
60-6020-12	M12 x 1.5
60-6020-14	M14 x 1.5
60-6020-16	M16 x 1.5
60-6020-18	M18 x 1.5
60-6020-20	M20 x 1.5
60-6020-22	M22 x 1.5

Tech Sheet 71568

JIS Female Cap (BSPP Threads)



0683	Thread
7688-C-04	1/4"
7688-C-06	3/8"
7688-C-08	1/2"
7688-C-12	3/4"

Tech Sheet 71569

JIS Female Cap (Metric Threads)



0683	Thread
TR-9721-14	M14 x 1.5
TR-9721-18	M18 x 1.5
TR-9721-22	M22 x 1.5
TR-9721-24	M24 x 1.5
TR-9721-30	M30 x 1.5

Tech Sheet 71570

Crimp Nuts



BSPP Crimp Nut

0683	Thread
60-6033-04	1/4"
60-6033-08	1/2"
60-6033-10	5/8"
60-6033-12	3/4"
60-6033-16	1"
60-6033-20	1.1/4"
60-6033-24	1.1/2"
60-6033-32	2"

Tech Sheet 71571



Metric Crimp Nut

0683	Thread
TR-08049	M10 x 1.5
TR-08050	M12 x 1.5
TR-08051	M14 x 1.5
TR-08053	M18 x 1.5

Tech Sheet 71572



NPSM Crimp Nut

0683	Thread
TR-18004	1/8"
TR-18000	1/4"
TR-18001	3/8"
TR-18002	1/2"
TR-18003	3/4"
TR-18005	1"
TR-18007	1.1/4"
TR-18008	1.1/2"
TR-18009	2"

Tech Sheet 71573

Test Point Adaptors



BSPP Male x Swivel Female, 1/8" BSP Test Point

0683	Thread
TR-01425-TP-B02	1/8"
SNA-04-04-02	1/4"
SNA-06-06-02	3/8"
SNA-08-08-02	1/2"
SNA-12-12-02	3/4"
SNA-16-16-02	1"

Tech Sheet 71574



1/8" BSPP Male, M16 x 2 Test Point Fitting

0683	Thread
R-002449006	1/8"

Tech Sheet 71575

ORFS HYDRAULIC ADAPTORS



Straight Adaptors



Male x Male Adaptor

0683	Thread
OR-4000-04-04	9/16"
OR-4000-06-06	11/16"
OR-4000-08-08	13/16"
OR-4000-10-10	1"
OR-4000-12-12	1.3/16"
OR-4000-16-16	1.7/16"
OR-4000-20-20	1.11/16"

Tech Sheet 71359



Bulkhead Locknut

0683	Thread
OR-1001-04	9/16"
OR-1001-06	11/16"
OR-1001-08	13/16"
OR-1001-10	1"
OR-1001-12	1.3/16"
OR-1001-16	1.7/16"
OR-1001-20	1.11/16"

Tech Sheet 71361



Male x Male Bulkhead c/w Locknut

0683	Thread
OR-4020-04-04	9/16"
OR-4020-06-06	11/16"
OR-4020-08-08	13/16"
OR-4020-10-10	1"
OR-4020-12-12	1.3/16"
OR-4020-16-16	1.7/16"
OR-4020-20-20	1.11/16"

Tech Sheet 71360



Male x Swivel Female

0683	Male Thread	Female Thread
OR-4090-04-06*	9/16"	11/16"
OR-4090-06-08*	11/16"	13/16"
OR-4090-10-12*	1.3/16"	1"
OR-4090-12-16*	1.3/16"	1.7/16"
OR-4090-16-20*	1.7/16"	1.11/16"
OR-4090-08-10	13/16"	1"
OR-4090-04-12	9/16"	13/16"
OR-4090-06-12	11/16"	1.3/16"

Tech Sheet 71362

Items marked * are supplied crimp type / other items supplied with loose nut

90° Elbows



Male x Male 90° Forged Compact Elbow

0683	Thread
OR-8000-04-04	9/16"
OR-8000-06-06	11/16"
OR-8000-08-08	13/16"
OR-8000-10-10	1"
OR-8000-12-12	1.3/16"
OR-8000-16-16	1.7/16"

Tech Sheet 71363



Male x Male 90° Forged Bulkhead c/w Locknut

0683	Thread
OR-8020-04-04	9/16"
OR-8020-06-06	11/16"
OR-8020-08-08	13/16"
OR-8020-10-10	1"
OR-8020-12-12	1.3/16"

Tech Sheet 71364



Male x Swivel Female 90° Forged Compact Elbow

0683	Thread
OR-8010-04-04	9/16"
OR-8010-06-06	11/16"
OR-8010-08-08	13/16"
OR-8010-10-10	1"
OR-8010-12-12	1.3/16"
OR-8010-16-16	1.7/16"
OR-8010-20-20	1.11/16"
OR-8010-24-24	2"

Tech Sheet 71365



90° Elbows



Male x UNF Male 90° Positional Forged Elbow with O-Ring

0683	Thread	Thread
OR-8050-04-04	9/16"	7/16"
OR-8050-04-06	9/16"	9/16"
OR-8050-06-06	11/16"	9/16"
OR-8050-08-08	13/16"	3/4"
OR-8050-10-10	1"	7/8"
OR-8050-10-12	1"	1.1/16"
OR-8050-12-08	1.3/16"	3/4"
OR-8050-12-12	1.3/16"	1.1/16"
OR-8050-16-16	1.7/16"	1.5/16"

Tech Sheet 71366



Male x BSPP Male 90° Positional Forged Elbow with O-Ring

0683	Thread	Thread
OR-8040-04-04	9/16"	1/4"
OR-8040-08-06	13/16"	3/8"
OR-8040-10-08	1"	1/2"
OR-8040-12-12	1.3/16"	3/4"
OR-8040-16-16	1.7/16"	1"

Tech Sheet 71430

45° Elbows



Male x Swivel Female 45° Forged Compact Elbow

0683	Thread
OR-7040-04-04	9/16"
OR-7040-06-06	11/16"
OR-7040-08-08	13/16"
OR-7040-10-10	1"
OR-7040-12-12	1.3/16"
OR-7040-16-16	1.7/16"
OR-7040-20-20	1.11/16"
OR-7040-24-24	2"

Tech Sheet 71367

Tees



Forged Male Tee

0683	Thread
OR-9000-04-04-04	9/16"
OR-9000-06-06-06	11/16"
OR-9000-08-08-08	13/16"
OR-9000-10-10-10	1"
OR-9000-12-12-12	1.3/16"
OR-9000-16-16-16	1.7/16"

Tech Sheet 71368



Male x Male x Swivel Female Forged Branch Tee

0683	Thread
OR-9020-04-04-04	9/16"
OR-9020-06-06-06	11/16"
OR-9020-08-08-08	13/16"
OR-9020-10-10-10	1"
OR-9020-12-12-12	1.3/16"
OR-9020-16-16-16	1.7/16"
OR-9020-20-20-20	1.11/16"

Tech Sheet 71369



Male x Male x Swivel Forged Run Tee

0683	Thread
OR-9010-04-04-04	9/16"
OR-9010-06-06-06	11/16"
OR-9010-08-08-08	13/16"
OR-9010-10-10-10	1"
OR-9010-12-12-12	1.3/16"
OR-9010-16-16-16	1.7/16"
OR-9010-20-20-20	1.11/16"

Tech Sheet 71370



Male Tee Positional on Branch Forged with O-Ring

0683	Thread A	Thread B	Thread C
OR-9120-06-06-06	11/16"	11/16"	9/16"
OR-9120-08-08-08	13/16"	13/16"	3/4"
OR-9120-10-10-10	1"	1"	7/8"
OR-9120-12-12-12	1.3/16"	1.3/16"	1.1/16"

Tech Sheet 71371



Male Tee Positional on Run with O-Ring

0683	Thread A	Thread B	Thread C
OR-9070-04-04-04	9/16"	9/16"	7/16"
OR-9070-06-06-06	11/16"	11/16"	9/16"
OR-9070-08-08-08	13/16"	13/16"	3/4"
OR-9070-10-10-10	1"	1"	7/8"
OR-9070-12-12-12	1.3/16"	1.3/16"	1.1/16"

Tech Sheet 71374

Caps



Female Thread

0683	Thread
OR-2030-04	9/16"
OR-2030-06	11/16"
OR-2030-08	13/16"
OR-2030-10	1"
OR-2030-12	1.3/16"
OR-2030-16	1.7/16"
OR-2030-20	1.11/16"
OR-2030-24	2"

Tech Sheet 71372

Male/Male Adaptors

Metric Male x
JIC Male 37° Cone

0683	Thread	Thread
37-4060-04-10	M10 x 1.5	7/16"
37-4060-04-12	M12 x 1.5	7/16"
37-4060-06-12	M12 x 1.5	9/16"
37-4060-08-12	M12 x 1.5	3/4"
37-4060-03-13	M14 x 1.5	3/8"
37-4060-04-14	M14 x 1.5	7/16"
37-4060-06-14	M14 x 1.5	9/16"
37-4060-08-14	M14 x 1.5	3/4"
37-4060-10-14	M14 x 1.5	7/8"
37-4060-04-16	M16 x 1.5	7/16"
37-4060-06-16	M16 x 1.5	9/16"
37-4060-08-16	M16 x 1.5	3/4"
37-4060-10-16	M16 x 1.5	7/8"
37-4060-04-18	M18 x 1.5	7/16"
37-4060-06-18	M18 x 1.5	9/16"
37-4060-08-18	M18 x 1.5	3/4"
37-4060-10-18	M18 x 1.5	7/8"
37-4060-12-18	M18 x 1.5	1.1/16"
37-4060-06-20	M20 x 1.5	9/16"
37-4060-08-20	M20 x 1.5	3/4"
37-4060-10-20	M20 x 1.5	7/8"
37-4060-12-20	M20 x 1.5	7/16"
37-4060-06-22	M22 x 1.5	9/16"
37-4060-08-22	M22 x 1.5	3/4"
37-4060-10-22	M22 x 1.5	7/8"
37-4060-12-22	M22 x 1.5	1.1/16"
37-4060-12-24	M24 x 1.5	1.1/16"
37-4060-10-26	M26 x 1.5	7/8"
37-4060-12-26	M26 x 1.5	1.1/16"

Tech Sheet 71383

BSPP Male 60° Cone x
JIC 37° Cone Male

0683	Thread	Thread
60-6017-04-02	1/8"	7/16"
60-6017-05-02	1/8"	1/2"
60-6017-06-02	1/8"	9/16"
60-6017-04-04	1/4"	7/16"
60-6017-05-04	1/4"	1/2"
60-6017-06-04	1/4"	9/16"
60-6017-08-04	1/4"	3/4"
60-6017-10-04	1/4"	7/8"
60-6017-12-04	1/4"	1.1/16"
60-6017-16-04	1/4"	1.5/16"
60-6017-04-06	3/8"	7/16"
60-6017-05-06	3/8"	1/2"
60-6017-06-06	3/8"	9/16"
60-6017-08-06	3/8"	3/4"
60-6017-10-06	3/8"	7/8"
60-6017-12-06	3/8"	1.1/16"
60-6017-16-06	3/8"	1.5/16"
60-6017-04-08	1/2"	7/16"
60-6017-05-08	1/2"	1/2"
60-6017-06-08	1/2"	9/16"
60-6017-08-08	1/2"	3/4"
60-6017-10-08	1/2"	7/8"
60-6017-12-08	1/2"	1.1/16"
60-6017-16-08	1/2"	1.5/16"
60-6017-06-10	5/8"	9/16"
60-6017-08-10	5/8"	3/4"
60-6017-10-10	5/8"	7/8"
60-6017-12-10	5/8"	1.1/16"
60-6017-14-10	5/8"	1.3/16"
60-6017-16-10	5/8"	1.5/16"
60-6017-04-12	3/4"	7/16"
60-6017-05-12	3/4"	1/2"
60-6017-06-12	3/4"	9/16"
60-6017-08-12	3/4"	3/4"
60-6017-10-12	3/4"	7/8"
60-6017-12-12	3/4"	1.1/16"
60-6017-14-12	3/4"	1.3/16"
60-6017-16-12	3/4"	1.5/16"
60-6017-20-12	3/4"	1.5/8"
60-6017-24-12	3/4"	1.7/8"
60-6017-08-16	1"	3/4"
60-6017-10-16	1"	7/8"
60-6017-12-16	1"	1.1/16"
60-6017-14-16	1"	1.3/16"
60-6017-16-16	1"	1.5/16"
60-6017-20-16	1"	1.5/8"
60-6017-24-16	1"	1.7/8"
60-6017-12-20	1.1/4"	1.1/16"
60-6017-16-20	1.1/4"	1.5/16"
60-6017-20-20	1.1/4"	1.5/8"
60-6017-24-20	1.1/4"	1.7/8"
60-6017-32-20	1.1/4"	2.1/2"
60-6017-16-24	1.1/2"	1.5/16"
60-6017-20-24	1.1/2"	1.5/8"
60-6017-24-24	1.1/2"	1.7/8"
60-6017-32-24	1.1/2"	2.1/2"
60-6017-24-32	2"	1.7/8"
60-6017-32-32	2"	2.1/2"

Tech Sheet 71384

Metric Male 24° Cone x
JIC Male 37° Cone

0683	To Fit Tube Size mm	Thread	Thread
TR-41274-6	6	M12 x 1.5	7/16"
TR-41291-6	6	M14 x 1.5	7/16"
TR-41291-8	8	M14 x 1.5	7/16"
TR-41295-8	8	M16 x 1.5	7/16"
TR-41280-8	8	M16 x 1.5	9/16"
TR-41280-10	10	M16 x 1.5	9/16"
TR-41275-10	10	M16 x 1.5	3/4"
TR-41276-10	10	M18 x 1.5	9/16"
TR-41276-12	12	M18 x 1.5	9/16"
TR-41281-10	10	M18 x 1.5	3/4"
TR-41281-12	12	M18 x 1.5	3/4"
TR-41263-12	12	M20 x 1.5	3/4"
TR-41278-14	14	M20 x 1.5	3/4"
TR-41278-15	15	M20 x 1.5	3/4"
TR-41294-15	15	M20 x 1.5	1.1/16"
TR-41270-20	20	M30 x 1.5	1.1/16"
TR-41270-22	22	M30 x 1.5	1.1/16"
TR-41262-28	28	M36 x 1.5	1.1/16"
TR-41296-35	35	M45 x 1.5	1.5/16"

Tech Sheet 71385

JIC HYDRAULIC ADAPTORS



Male/Male Adaptors



**SAE Boss Male x
JIC Male 37° Coneless O-Ring**

0683	Thread	Thread
37-4070-04-04	7/16"	7/16"
37-4070-05-04	7/16"	1/2"
37-4070-06-04	7/16"	9/16"
37-4070-04-05	1/2"	7/16"
37-4070-05-05	1/2"	1/2"
37-4070-06-05	1/2"	9/16"
37-4070-04-06	9/16"	7/16"
37-4070-05-06	9/16"	1/2"
37-4070-06-06	9/16"	9/16"
37-4070-08-06	9/16"	3/4"
37-4070-10-06	9/16"	7/8"
37-4070-04-08	3/4"	7/16"
37-4070-06-08	3/4"	9/16"
37-4070-08-08	3/4"	3/4"
37-4070-10-08	3/4"	7/8"
37-4070-12-08	3/4"	1.1/16"
37-4070-06-10	7/8"	9/16"
37-4070-08-10	7/8"	3/4"
37-4070-10-10	7/8"	7/8"
37-4070-12-10	7/8"	1.1/16"
37-4070-06-12	1.1/16"	9/16"
37-4070-08-12	1.1/16"	3/4"
37-4070-10-12	1.1/16"	7/8"
37-4070-12-12	1.1/16"	1.1/16"
37-4070-16-12	1.1/16"	1.5/16"
37-4070-14-14	1.3/16"	1.3/16"
37-4070-08-16	1.5/16"	3/4"
37-4070-10-16	1.5/16"	7/8"
37-4070-12-16	1.5/16"	1.1/16"
37-4070-16-16	1.5/16"	1.5/16"
37-4070-20-16	1.5/16"	1.5/8"
37-4070-16-20	1.5/8"	1.5/16"
37-4070-20-20	1.5/8"	1.5/8"
37-4070-24-20	1.5/8"	1.7/8"
37-4070-16-24	1.7/8"	1.5/16"
37-4070-20-24	1.7/8"	1.5/8"
37-4070-24-24	1.7/8"	1.7/8"
37-4070-32-24	1.7/8"	2.1/2"
37-4070-32-32	2.1/2"	2.1/2"

Tech Sheet 71386



**Metric Male 24° Cone x
JIC Male 37° Cone**

0683	To Fit Tube Size mm	Thread	Thread
TR-41270/2-22	22	M30 x 2	1.1/16"
TR-41262/2-25	25	M36 x 2	1.1/16"
TR-41267/2-30	30	M42 x 2	1.5/8"
TR-41296/2-35	35	M45 x 2	1.5/16"
TR-41268/2-38	38	M52 x 2	1.5/8"

Tech Sheet 71387

Male/Female Fixed Adaptors



**JIC Male 37° Cone x
BSPP Female Extended**

0683	Male Thread	Female Thread
37-4120-04-02	7/16"	1/8"
37-4120-04-04	7/16"	1/4"

Tech Sheet 71388



**JIC Male 37° Cone x
NPT Female Extended**

0683	Male Thread	Female Thread
37-4170-04-02	7/16"	1/8"
37-4170-04-04	7/16"	1/4"
37-4170-04-06	7/16"	3/8"
37-4170-06-04	9/16"	1/4"
37-4170-06-06	9/16"	3/8"
37-4170-06-08	9/16"	1/2"
37-4170-08-06	3/4"	3/8"
37-4170-08-08	3/4"	1/2"
37-4170-10-08	7/8"	1/2"
37-4170-12-12	1.1/16"	3/4"
37-4170-16-16	1.5/16"	1"

Tech Sheet 71389



**JIC Male 37° Cone x JIS Female Extended
60° Internal Seat (Metric Threads)**

0683	Male Thread	Female Thread
TR-8701-04-14	7/16"	M14 x 1.5
TR-8701-06-18	9/16"	M18 x 1.5
TR-8701-08-22	3/4"	M22 x 1.5
TR-8701-12-30	1.1/16"	M30 x 1.5
TR-8701-16-33	1.5/16"	M33 x 1.5

Tech Sheet 71390

Male/Female Swivel Adaptors



NPT Male x JIC Swivel Female 37° Cone

0683	Male Thread	Female Thread
37-4030-06-04	1/4"	9/16"
37-4030-08-06	3/8"	3/4"
37-4030-10-08	1/2"	7/8"
37-4030-12-12	3/4"	1.1/16"
37-4030-16-16	1"	1.5/16"

Tech Sheet 71391



**BSPP Male 60° Cone x
JIC Swivel Female 37° Cone**

0683	Male Thread	Female Thread
37-4130-04-02	1/8"	7/16"
37-4130-04-04	1/4"	7/16"
37-4130-05-04	1/4"	1/2"
37-4130-06-04	1/4"	9/16"
37-4130-08-04	1/4"	3/4"
37-4130-04-06	3/8"	7/16"
37-4130-05-06	3/8"	1/2"
37-4130-06-06	3/8"	9/16"
37-4130-08-06	3/8"	3/4"
37-4130-10-06	3/8"	7/8"
37-4130-04-08	1/2"	7/16"
37-4130-05-08	1/2"	1/2"
37-4130-06-08	1/2"	9/16"
37-4130-08-08	1/2"	3/4"
37-4130-10-08	1/2"	7/8"
37-4130-12-08	1/2"	1.1/16"
37-4130-08-10	5/8"	3/4"
37-4130-10-10	5/8"	7/8"
37-4130-12-10	5/8"	1.1/16"
37-4130-08-12	3/4"	3/4"
37-4130-10-12	3/4"	7/8"
37-4130-12-12	3/4"	1.1/16"
37-4130-14-12	3/4"	1.3/16"
37-4130-16-12	3/4"	1.5/16"
37-4130-12-16	1"	1.1/16"
37-4130-14-16	1"	1.3/16"
37-4130-16-16	1"	1.5/16"
37-4130-20-16	1"	1.5/8"
37-4130-16-20	1.1/4"	1.5/16"
37-4130-20-20	1.1/4"	1.5/8"
37-4130-24-32	2"	1.7/8"

Tech Sheet 71392



Male/Female Swivel Adaptors



JIC Male 37° Cone x BSPP Swivel Female 60° Cone

0683	Male Thread	Female Thread
37-4140-04-02	7/16"	1/8"
37-4140-04-04	7/16"	1/4"
37-4140-04-06	7/16"	3/8"
37-4140-04-08	7/16"	1/2"
37-4140-05-04	1/2"	1/4"
37-4140-05-06	1/2"	3/8"
37-4140-05-08	1/2"	1/2"
37-4140-06-04	9/16"	1/4"
37-4140-06-06	9/16"	3/8"
37-4140-08-06	3/4"	3/8"
37-4140-08-08	3/4"	1/2"
37-4140-08-10	3/4"	5/8"
37-4140-08-12	3/4"	3/4"
37-4140-10-06	7/8"	3/8"
37-4140-10-08	7/8"	1/2"
37-4140-10-10	7/8"	5/8"
37-4140-10-12	7/8"	3/4"
37-4140-12-12	1.1/16"	3/4"
37-4140-16-16	1.5/16"	1"
37-4140-20-20	1.5/8"	1.1/4"

Tech Sheet 71393



JIC Male 37° Cone x Metric Swivel Female

0683	Male Thread	Female Thread
TR-01664	7/16"	M12 x 1.5
TR-01651	9/16"	M14 x 1.5
TR-01652	9/16"	M16 x 1.5
TR-01653	9/16"	M18 x 1.5
TR-01654	9/16"	M20 x 1.5
TR-01655	9/16"	M22 x 1.5
TR-01656	3/4"	M16 x 1.5
TR-01657	3/4"	M18 x 1.5
TR-01659	3/4"	M22 x 1.5
TR-01661	7/8"	M18 x 1.5
TR-01662	7/8"	M20 x 1.5
TR-01663	7/8"	M22 x 1.5

Tech Sheet 71394



JIC Male 37° Cone x JIC Swivel Female 37° Cone

0683	Male Thread	Female Thread
37-4091-04-04	7/16"	7/16"
37-4091-04-06	7/16"	9/16"
37-4091-04-08	7/16"	3/4"
37-4091-04-10	7/16"	7/8"
37-4091-05-05	1/2"	1/2"
37-4091-05-06	1/2"	9/16"
37-4091-06-04	9/16"	7/16"
37-4091-06-05	9/16"	1/2"
37-4091-06-06	9/16"	9/16"
37-4091-06-08	9/16"	3/4"
37-4091-06-10	9/16"	7/8"
37-4091-08-06	3/4"	9/16"
37-4091-08-08	3/4"	3/4"
37-4091-08-10	3/4"	7/8"
37-4091-08-12	3/4"	1.1/16"
37-4091-10-08	7/8"	3/4"
37-4091-10-10	7/8"	7/8"
37-4091-10-12	7/8"	1.1/16"
37-4091-12-08	1.1/16"	3/4"
37-4091-12-10	1.1/16"	7/8"
37-4091-12-12	1.1/16"	1.1/16"
37-4091-12-16	1.1/16"	1.5/16"
37-4091-14-14	1.3/16"	1.3/16"
37-4091-16-20	1.5/16"	1.5/8"
37-4091-20-20	1.5/8"	1.5/8"
37-4091-20-24	1.5/8"	1.7/8"

Tech Sheet 71395



Metric Male x JIC Swivel Female 37° Cone

0683	Male Thread	Female Thread
60-6101-12-05	M12 x 1.5	1/2"
60-6101-14-06	M14 x 1.5	9/16"
60-6101-16-06	M16 x 1.5	9/16"
60-6101-16-08	M16 x 1.5	3/4"
60-6101-18-08	M18 x 1.5	3/4"

Tech Sheet 71396

Female Swivel Adaptors



BSPP Swivel Female 60° Cone x JIC Swivel Female 37° Cone

0683	Thread	Thread
60-6027-04-04	1/4"	7/16"
60-6027-04-05	1/4"	1/2"
60-6027-04-06	1/4"	9/16"
60-6027-06-04	3/8"	7/16"
60-6027-06-05	3/8"	1/2"
60-6027-06-06	3/8"	9/16"
60-6027-06-08	3/8"	3/4"
60-6027-06-10	3/8"	7/8"
60-6027-08-06	1/2"	9/16"
60-6027-08-08	1/2"	3/4"
60-6027-08-10	1/2"	7/8"
60-6027-08-12	1/2"	1.1/16"
60-6027-10-10	5/8"	7/8"
60-6027-12-08	3/4"	3/4"
60-6027-12-12	3/4"	1.1/16"
60-6027-12-16	3/4"	1.5/16"
60-6027-16-12	1"	1.1/16"
60-6027-16-16	1"	1.5/16"
60-6027-20-20	1.1/4"	1.5/8"

Tech Sheet 71397



JIC Swivel Female 37° Cone x JIC Swivel Female 37° Cone

0683	Thread	Thread
37-6021-04-04	7/16"	7/16"
37-6021-06-04	7/16"	9/16"
37-6021-08-04	7/16"	3/4"
37-6021-05-05	1/2"	1/2"
37-6021-06-05	1/2"	9/16"
37-6021-06-06	9/16"	9/16"
37-6021-08-06	9/16"	3/4"
37-6021-08-08	3/4"	3/4"
37-6021-10-06	7/8"	9/16"
37-6021-10-08	7/8"	3/4"
37-6021-10-10	7/8"	7/8"
37-6021-12-12	1.1/16"	1.1/16"
37-6021-16-12	1.1/16"	1.5/16"
37-6021-14-14	1.3/16"	1.3/16"
37-6021-16-16	1.5/16"	1.5/16"
37-6021-20-20	1.5/8"	1.5/8"

Tech Sheet 71398



90° Elbows



**JIC Male x JIC Male
90° Forged Compact Elbow**

0683	Thread
37-8000-04-04	7/16"
37-8000-05-05	1/2"
37-8000-06-06	9/16"
37-8000-08-08	3/4"
37-8000-10-10	7/8"
37-8000-12-12	1.1/16"
37-8000-14-14	1.3/16"

Tech Sheet 71399



**NPTF Male x JIC Male
90° Forged Compact Elbow**

0683	Thread	Thread
37-8030-02-02	1/8"	5/16"
37-8030-04-02	1/8"	7/16"
37-8030-05-02	1/8"	1/2"
37-8030-06-02	1/8"	9/16"
37-8030-04-04	1/4"	7/16"
37-8030-05-04	1/4"	1/2"
37-8030-06-04	1/4"	9/16"
37-8030-08-04	1/4"	3/4"
37-8030-03-06	3/8"	3/8"
37-8030-04-06	3/8"	7/16"
37-8030-05-06	3/8"	1/2"
37-8030-06-06	3/8"	9/16"
37-8030-08-06	3/8"	3/4"
37-8030-10-06	3/8"	7/8"

Tech Sheet 71400



JIC Male x Male Bulkhead 90° Forged

0683	Thread
37-8020-03-03	3/8"
37-8020-04-06	7/16"
37-8020-05-05	1/2"
37-8020-06-06	9/16"
37-8020-08-08	3/4"
37-8020-10-10	7/8"
37-8020-12-12	1.1/16"
37-8020-16-16	1.5/16"

Tech Sheet 71401



**JIC Male 37° Cone x BSPP Male
90° Positional Forged Elbow**

0683	Thread	Thread
37-8040-04-04	7/16"	1/4"
37-8040-06-04	9/16"	1/4"
37-8040-06-06	9/16"	3/8"
37-8040-08-06	3/4"	3/8"
37-8040-08-08	3/4"	1/2"
37-8040-10-08	7/8"	1/2"
37-8040-12-12	1.1/16"	3/4"
37-8040-16-16	1.5/16"	1"

Tech Sheet 71402



**JIC Male x JIC Swivel Female 90°
Forged Compact Elbow 37° Cone**

0683	Thread
37-8010-04-04	7/16"
37-8010-05-05	1/2"
37-8010-06-06	9/16"
37-8010-08-08	3/4"
37-8010-10-10	7/8"
37-8010-12-12	1.1/16"
37-8010-16-16	1.5/16"

Tech Sheet 71403



**JIC Swivel Female x JIC Swivel Female
90° Compact Elbow 37° Cone**

0683	Thread	Thread
37-8110-04-04	7/16"	7/16"
37-8110-06-06	9/16"	9/16"
37-8110-08-08	3/4"	3/4"
37-8110-10-10	7/8"	7/8"
37-8110-12-12	1.1/16"	1.1/16"
37-8110-14-14	1.3/16"	1.3/16"
37-8110-16-16	1.5/16"	1.5/16"

Tech Sheet 71404



**NPT Male x JIC Swivel Female
90° Compact Elbow 37° Cone**

0683	Male Thread	Female Thread
TR-99001	3/8"	9/16"

Tech Sheet 71405



**NPT Male x SAE Male
90° Compact Elbow 45° Cone**

0683	Thread	Thread
TR-07020	1/8"	7/16"
TR-07021	1/8"	1/2"
TR-07022	1/4"	7/16"
TR-07023	1/4"	1/2"
TR-07024	1/4"	5/8"
TR-07025	1/4"	3/4"
TR-07026	3/8"	7/16"
TR-07027	3/8"	1/2"
TR-07028	3/8"	5/8"
TR-07029	3/8"	3/4"
TR-07030	3/8"	7/8"
TR-07031	1/2"	5/8"

Tech Sheet 71406



**JIC Male 37° Cone x Metric Male
90° Positional Forged Elbow**

0683	Thread	Thread
37-8070-04-12	7/16"	M12 x 1.5
37-8070-04-14	7/16"	M14 x 1.5
37-8070-06-16	9/16"	M16 x 1.5
37-8070-06-18	9/16"	M18 x 1.5
37-8070-08-18	3/4"	M18 x 1.5
37-8070-08-20	3/4"	M20 x 1.5
37-8070-08-22	3/4"	M22 x 1.5
37-8070-10-22	7/8"	M22 x 1.5
37-8070-12-22	1.1/16"	M22 x 1.5

Tech Sheet 71407



90° Elbows


**JIC Male 37° Cone x JIC Swivel Female
90° Swept Elbow**

0683	Thread
6701-04-04	7/16"
6701-06-06	9/16"
6701-08-08	3/4"
6701-10-10	7/8"
6701-12-12	1.1/16"
6701-16-16	1.5/16"
6701-20-20	1.5/8"

Tech Sheet 71408


**JIC Male 37° Cone x UNF Male
90° Positional Forged Elbow**

0683	Thread	Thread
37-8050-04-04	7/16"	7/16"
37-8050-06-06	9/16"	9/16"
37-8050-08-08	3/4"	3/4"
37-8050-10-10	7/8"	7/8"
37-8050-12-12	1.1/16"	1.1/16"
37-8050-16-16	1.5/16"	1.5/16"

Tech Sheet 71409


**BSPP Male 60° Cone x JIC Swivel Female
37° Cone 90° Compact Elbow**

0683	Male Thread	Female Thread
37-8031-04-06	1/4"	9/16"
37-8031-06-06	3/8"	9/16"
37-8031-06-08	3/8"	3/4"
37-8031-08-08	1/2"	3/4"
37-8031-08-10	1/2"	7/8"
37-8031-10-10	5/8"	7/8"
37-8031-12-12	3/4"	1.1/16"

Tech Sheet 71410


**BSPP Male 60° Cone x JIC Male
90° Compact Elbow 37° Cone**

0683	Thread	Thread
37-8090-04-04	1/4"	7/16"
37-8090-05-04	1/4"	1/2"
37-8090-06-04	1/4"	9/16"
37-8090-06-06	3/8"	9/16"
37-8090-08-06	3/8"	3/4"
37-8090-08-08	1/2"	3/4"
37-8090-10-08	1/2"	7/8"
37-8090-10-12	3/4"	7/8"
37-8090-12-12	3/4"	1.1/16"
37-8090-12-16	1"	1.1/16"
37-8090-16-16	1"	1.5/16"
37-8090-20-20	1.1/4"	1.5/8"
37-8090-24-24	1.1/2"	1.7/8"

Tech Sheet 71411


**BSPT Male x JIC Male
90° Compact Elbow 37° Cone**

0683	Thread	Thread
37-8060-04-02	1/8"	7/16"
37-8060-05-02	1/8"	1/2"
37-8060-06-02	1/8"	9/16"
37-8060-04-04	1/4"	7/16"
37-8060-05-04	1/4"	1/2"
37-8060-06-04	1/4"	9/16"
37-8060-08-04	1/4"	3/4"
37-8060-04-06	3/8"	7/16"
37-8060-05-06	3/8"	1/2"
37-8060-06-06	3/8"	9/16"
37-8060-08-06	3/8"	3/4"
37-8060-10-06	3/8"	7/8"
37-8060-04-08	1/2"	7/16"
37-8060-06-08	1/2"	9/16"
37-8060-08-08	1/2"	3/4"
37-8060-10-08	1/2"	7/8"
37-8060-12-08	1/2"	1.1/16"
37-8060-16-08	1/2"	1.5/16"
37-8060-06-12	3/4"	9/16"
37-8060-08-12	3/4"	3/4"
37-8060-10-12	3/4"	7/8"
37-8060-12-12	3/4"	1.1/16"
37-8060-16-12	3/4"	1.5/16"
37-8060-08-16	1"	3/4"
37-8060-10-16	1"	7/8"
37-8060-12-16	1"	1.1/16"
37-8060-16-16	1"	1.5/16"
37-8060-20-16	1"	1.5/8"
37-8060-16-20	1.1/4"	1.5/16"
37-8060-20-20	1.1/4"	1.5/8"
37-8060-24-20	1.1/4"	1.7/8"
37-8060-20-24	1.1/2"	1.5/8"
37-8060-24-24	1.1/2"	1.7/8"
37-8060-32-32	2"	2.1/2"

Tech Sheet 71412


**JIC Male 37° Cone x BSPP Swivel Female
90° Compact Elbow 60° Cone**

0683	Thread	Thread
37-8032-04-04	7/16"	1/4"
37-8032-06-06	9/16"	3/8"
37-8032-08-08	3/4"	3/8"
TR-09606	3/4"	1/2"
37-8032-12-12	1.1/16"	3/4"
37-8032-16-16	1.5/16"	1"
37-8032-24-24	1.7/8"	1.1/2"

Tech Sheet 71413



45° Elbows



**JIC Male x JIC Swivel Female
45° Swept Elbow**

0683	Thread
6702-12-12	1.1/16"
6027-16-16	1.5/16"
Tech Sheet 71414	



JIC Male x JIC Male Bulkhead 45° Forged

0683	Thread
37-7000-04-04	7/16"
37-7000-05-05	1/2"
37-7000-06-06	9/16"
37-7000-08-08	3/4"
37-7000-10-10	7/8"
37-7000-16-16	1.5/16"
Tech Sheet 71415	



**JIC Male x JIC Swivel Female
45° Forged Compact Elbow 37° Cone**

0683	Thread
37-7040-04-04	7/16"
37-7040-06-06	9/16"
37-7040-08-08	3/4"
37-7040-10-10	7/8"
37-7040-12-12	1.1/16"
37-7040-16-16	1.5/16"
Tech Sheet 71417	



**JIC Male 37° Cone x UNF Male
45° Positional Forged Elbow**

0683	Thread	Thread
37-7010-04-04	7/16"	7/16"
37-7010-06-06	9/16"	9/16"
37-7010-08-08	3/4"	3/4"
37-7010-10-10	7/8"	7/8"
37-7010-12-12	1.1/16"	1.1/16"
37-7010-16-16	1.5/16"	1.5/16"
Tech Sheet 71416		



**NPT Male x JIC Male
45° Forged Compact Elbow 37° Cone**

0683	Thread	Thread
37-7030-04-04	1/4"	7/16"
37-7030-06-06	3/8"	9/16"
37-7030-08-06	3/8"	3/4"
37-7030-08-08	1/2"	3/4"
37-7030-10-08	1/2"	7/8"
37-7030-12-12	3/4"	1.1/16"
37-7030-16-16	1"	1.5/16"
Tech Sheet 71418		

Bulkheads



**JIC Male x JIC Male Bulkhead
37° Cone c/w Locknut**

0683	Thread
37-4020-03-03	3/8"
37-4020-04-04	7/16"
37-4020-05-05	1/2"
37-4020-06-06	9/16"
37-4020-08-08	3/4"
37-4020-10-10	7/8"
37-4020-12-12	1.1/16"
37-4020-14-14	1.3/16"
37-4020-16-16	1.5/16"
37-4020-20-20	1.5/8"
37-4020-24-24	1.7/8"
Tech Sheet 71419	





Tees



JIC Male x JIC Male x UNF Male Forced Positional On Run with O-Ring

0683	Thread
37-9070-04-04-04	7/16"
37-9070-05-05-05	1/2"
37-9070-06-06-06	9/16"
37-9070-08-08-08	3/4"
37-9070-10-10-10	7/8"
37-9070-12-12-12	1.1/16"

Tech Sheet 71420



JIC Swivel Female x JIC Swivel Female x JIC Male Branch Tee 37° Cone

0683	Thread
37-9180-04-04-04	7/16"
37-9180-05-05-05	1/2"
37-9180-06-06-06	9/16"
37-9180-08-08-08	3/4"
37-9180-10-10-10	7/8"
37-9180-16-16-16	1.1/16"
37-9180-12-12-12	1.5/16"

Tech Sheet 71423



JIC Male x JIC Male x JIC Swivel Female Branch Tee 37° Cone

0683	Thread
37-9020-04-04-04	7/16"
37-9020-06-06-06	9/16"
37-9020-08-08-08	3/4"
37-9020-10-10-10	7/8"
37-9020-12-12-12	1.1/16"
37-9020-20-20-20	1.5/8"

Tech Sheet 71417



JIC Male x JIC Swivel Female x JIC Male Branch Tee 37° Cone

0683	Thread
37-9010-04-04-04	7/16"
37-9010-05-05-05	1/2"
37-9010-06-06-06	9/16"
37-9010-08-08-08	3/4"
37-9010-10-10-10	7/8"
37-9010-12-12-12	1.1/16"
37-9010-16-16-16	1.5/16"
37-9010-20-20-20	1.5/8"
37-9010-24-24-24	1.7/8"

Tech Sheet 71421



JIC Male x JIC Male x UNF Male Forged Positional On Branch with O-Ring

0683	Thread
37-9120-04-04-04	7/16"
37-9120-05-05-05	1/2"
37-9120-06-06-06	9/16"
37-9120-08-08-08	3/4"
37-9120-10-10-10	7/8"
37-9120-12-12-12	1.1/16"

Tech Sheet 71424



JIC Swivel Female Tee 37° Cone

0683	Thread
37-9080-04-04-04	7/16"
37-9080-05-05-05	1/2"
37-9080-06-06-06	9/16"
37-9080-08-08-08	3/4"
37-9080-10-10-10	7/8"
37-9080-12-12-12	1.1/16"
37-9080-16-16-16	1.5/16"

Tech Sheet 71418



JIC Male x JIC Swivel Female x JIC Swivel Female Branch Tee 37° Cone

0683	Thread
37-9170-04-04-04	7/16"
37-9170-05-05-05	1/2"
37-9170-06-06-06	9/16"
37-9170-08-08-08	3/4"
37-9170-10-10-10	7/8"
37-9170-12-12-12	1.1/16"
37-9170-16-16-16	1.5/16"

Tech Sheet 71422



JIC Male Tee 37° Cone

0683	Thread
37-9000-04-04-04	7/16"
37-9000-06-06-06	9/16"
37-9000-08-08-08	3/4"
37-9000-10-10-10	7/8"
37-9000-12-12-12	1.1/16"
37-9000-14-14-14	1.3/16"
37-9000-16-16-16	1.5/16"

Tech Sheet 71425



JIC Male Cross 37° Cone

0683	Thread
37-5000-04	7/16"
37-5000-05	1/2"
37-5000-06	9/16"
37-5000-08	3/4"
37-5000-10	7/8"
37-5000-12	1.1/16"
37-5000-16	1.5/16"
37-5000-20	1.5/8"

Tech Sheet 71419

JIC HYDRAULIC ADAPTORS



Plugs



JIC Plug 37° Cone

0683	Thread
37-2040-02	5/16"
37-2040-04	7/16"
37-2040-05	1/2"
37-2040-06	9/16"
37-2040-08	3/4"
37-2040-10	7/8"
37-2040-12	1.1/16"
37-2040-14	1.3/16"
37-2040-16	1.5/16"
37-2040-20	1.5/8"
37-2040-24	1.7/8"
37-2040-32	2.1/2"

Tech Sheet 71420

Blanking Caps



JIC Swivel 37° Coned Blanking Cap

0683	Thread
37-2030-04	7/16"
37-2030-05	1/2"
37-2030-06	9/16"
37-2030-08	3/4"
37-2030-10	7/8"
37-2030-12	1.1/16"
37-2030-14	1.3/16"
37-2030-16	1.5/16"
37-2030-20	1.5/8"
37-2030-24	1.7/8"
37-2030-32	2.1/2"

Tech Sheet 71421

Tube Nuts

Universal Metric & Imperial

0683	Thread	To Suit Hose OD mm	To Suit Tube OD
37-2000-04	7/16"	6	1/4"
37-2000-05	1/2"	8	5/16"
37-2000-06	9/16"	10	3/8"
37-2000-08	3/4"	12	1/2"
37-2000-10	7/8"	14,15 & 16	5/8"
37-2000-12	1.1/16"	18 & 20	3/4"
37-2000-16	1.5/16"	25	1"
37-2000-20	1.5/8"	28, 30 & 32	1.1/4"
37-2000-24	1.7/8"	35 & 38	1.1/2"

Tech Sheet 71428



Locknuts



JIC Locknut

0683	Thread
37-1001-04	7/16"
37-1001-05	1/2"
37-1001-06	9/16"
37-1001-08	3/4"
37-1001-10	7/8"
37-1001-12	1.1/16"
37-1001-16	1.5/16"
37-1001-20	1.5/8"
37-1001-24	1.7/8"

Tech Sheet 71422

Crimp Nuts



JIC Crimp Nut

0683	Thread
37-1002-04	7/16"
37-1002-05	1/2"
37-1002-06	9/16"
37-1002-07	5/8"
37-1002-08	3/4"
37-1002-10	7/8"
37-1002-14	1.3/16"
37-1002-16	1.5/16"
37-1002-20	1.5/8"
37-1002-24	1.7/8"
37-1002-32	2.1/2"

Tech Sheet 71423

Tube Sleeves

Imperial

0683	To Suit Hose OD
37-2020-04	1/4"
37-2020-05	5.1/6"
37-2020-06	3/8"
37-2020-08	1/2"
37-2020-10	5/8"
37-2020-12	3/4"
37-2020-16	1"
37-2020-20	1.1/4"
37-2020-24	1.1/2"

Tech Sheet 71429



Hose Inserts

JIC Male 37° Cone x Push-in Straight



0683	Thread	To Suit Hose ID
TR-09711	7/16"	1/4"
TR-09712	9/16"	3/8"

Tech Sheet 71424

JIC Swivel Female 37° Cone x Push-in Straight



0683	Thread	To Suit Hose ID
TR-09700	7/16"	1/4"
TR-09701	9/16"	3/8"
TR-09705	3/4"	3/8"
TR-09702	3/4"	1/2"
TR-09703	7/8"	5/8"
TR-09704	1.1/16"	3/4"
TR-09707	1.5/16"	1"

Tech Sheet 71425

JIC Swivel Female 37° Cone x Push-in 90° Swept Elbow



0683	Thread	To Suit Hose ID
TR-09301	7/16"	1/4"
TR-09302	9/16"	3/8"
TR-09303	3/4"	1/2"
TR-09300	7/8"	5/8"
TR-09304	1.1/16"	3/4"
TR-09305	1.5/16"	1"

Tech Sheet 71426

JIC Swivel Female x Push-in 45° Swept Elbow 37° Cone



0683	Thread	To Suit Hose ID
TR-09320	7/16"	1/4"
TR-09321	9/16"	3/8"
TR-09322	3/4"	1/2"
TR-09323	7/8"	5/8"
TR-09324	1.1/16"	3/4"

Tech Sheet 71427

Metric

0683	To Suit Hose OD mm
37-2010-04-06	6
37-2010-05-08	8
37-2010-06-10	10
37-2010-08-12	12
37-2010-10-14	14
37-2010-10-15	15
37-2010-10-16	16
37-2010-12-18	18
37-2010-12-20	20
37-2010-16-25	25
37-2010-20-30	30
37-2010-24-38	38

Tech Sheet 71431

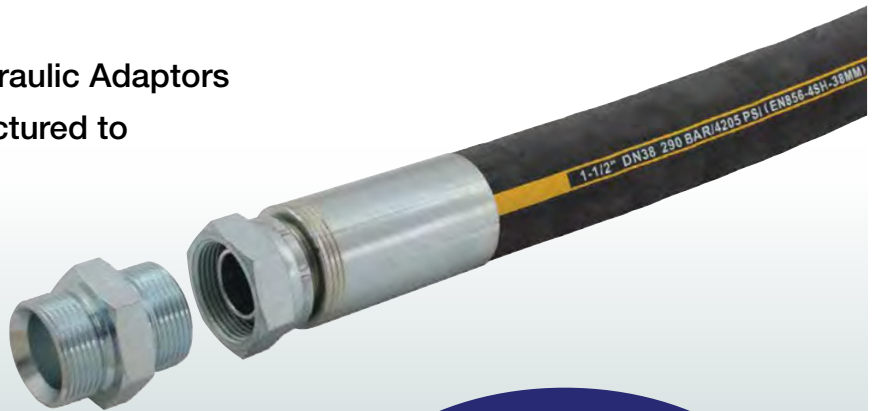


High Pressure Hydraulic Adaptors



- Superior quality range of Hydraulic Adaptors
- High grade materials manufactured to extremely high tolerance
- 1/8"-3/4" up to 680 bar
- 1"-2" up to 500 bar

High quality Hydraulic Adaptors for high pressure applications completing the integrity of any hose assembly.



Over 25 years of proven high performance with a comprehensive history of product approvals and 3rd party accreditations.



HYDRAULIC ADAPTORS

1/8" - 3/4" 680 BAR 1" - 2" 500 BAR



Standard hydraulic adaptors do not adhere to the working pressure of multi spiral hose. Please use KR500 Hydraulic Adaptors for high pressure and multi spiral applications. Also available in stainless steel and Hiduron upon request.

Maximum Working Pressure:
1/8" to 3/4" 680 bar
1" to 2" 500 bar

Equal Male Unions



BSPP

0450	Thread
KREU2	1/8"
KREU4	1/4"
KREU6	3/8"
KREU8	1/2"
KREU10	5/8"
KREU12	3/4"
KREU16	1"
KREU20	1.1/4"
KREU24	1.1/2"
KREU32	2"

Tech Sheet 10728



BSPP x BSPT

0450	Thread
KREUPT2	1/8"
KREUPT4	1/4"
KREUPT6	3/8"
KREUPT8	1/2"
KREUPT12	3/4"
KREUPT16	1"
KREUPT20	1.1/4"
KREUPT24	1.1/2"
KREUPT32	2"

Tech Sheet 10729



BSPP x NPT

0450	Thread
KREUPAT2	1/8"
KREUPAT4	1/4"
KREUPAT6	3/8"
KREUPAT8	1/2"
KREUPAT12	3/4"
KREUPAT16	1"
KREUPAT20	1.1/4"

Tech Sheet 10730

Unequal Male Unions



BSPP

0450	Thread	Thread
KRUU4-2	1/4"	1/8"
KRUU6-4	3/8"	1/4"
KRUU8-4	1/2"	1/4"
KRUU8-6	1/2"	3/8"
KRUU10-4	5/8"	1/4"
KRUU10-6	5/8"	3/8"
KRUU10-8	5/8"	1/2"
KRUU12-6	3/4"	3/8"
KRUU12-8	3/4"	1/2"
KRUU12-10	3/4"	5/8"
KRUU14-12	7/8"	3/4"
KRUU16-8	1"	1/2"
KRUU16-10	1"	5/8"
KRUU16-12	1"	3/4"
KRUU16-14	1"	7/8"
KRUU20-12	1.1/4"	3/4"
KRUU20-16	1.1/4"	1"
KRUU24-16	1.1/2"	1"
KRUU24-20	1.1/2"	1.1/4"
KRUU32-16	2"	1"
KRUU32-20	2"	1.1/4"
KRUU32-24	2"	1.1/2"

Tech Sheet 10731

Equal Male Bulkhead Unions



BSPP

0450	Thread
KREUBH4	1/4"
KREUBH6	3/8"
KREUBH8	1/2"
KREUBH10	5/8"
KREUBH12	3/4"
KREUBH16	1"
KREUBH20	1.1/4"
KREUBH24*	1.1/2"

Tech Sheet 10732

Reducing Bushes



BSPP

0450	Thread	Thread
KRRB4-2	1/4"	1/8"
KRRB6-2	3/8"	1/8"
KRRB6-4	3/8"	1/4"
KRRB8-2	1/2"	1/8"
KRRB8-4	1/2"	1/4"
KRRB8-6	1/2"	3/8"
KRRB10-8	5/8"	1/2"
KRRB12-4	3/4"	1/4"
KRRB12-6	3/4"	3/8"
KRRB12-8	3/4"	1/2"
KRRB16-4	1"	1/4"
KRRB16-6	1"	3/8"
KRRB16-8	1"	1/2"
KRRB16-12	1"	3/4"
KRRB20-4*	1.1/4"	1/4"
KRRB20-6	1.1/4"	3/8"
KRRB20-8	1.1/4"	1/2"
KRRB20-12	1.1/4"	3/4"
KRRB20-16	1.1/4"	1"
KRRB24-8	1.1/2"	1/2"
KRRB24-12	1.1/2"	3/4"
KRRB24-16	1.1/2"	1"
KRRB24-20	1.1/2"	1.1/4"
KRRB32-16	2"	1"
KRRB32-20	2"	1.1/4"
KRRB32-24	2"	1.1/2"

Tech Sheet 10733

Bleed Valve



BSPP

0450	Thread
KRBV2	1/8"

Tech Sheet 10799

*Minimum order quantity on these items may apply

For **Bonded Seals**
see pages **158-162**



HYDRAULIC ADAPTORS

1/8" - 3/4" 680 BAR 1" - 2" 500 BAR



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Maximum Working Pressure:
1/8" to 3/4" 680 bar
1" to 2" 500 bar

Male Elbows



BSPP

Q450	Thread
KREME4*	1/4"
KREME6*	3/8"
KREME8	1/2"
KREME12	3/4"
KREME16*	1"
KREME20	1.1/4"
KREME24	1.1/2"
Tech Sheet 10734	

Female Elbows



BSPP

Q450	Thread
KREFE2*	1/8"
KREFE4	1/4"
KREFE6	3/8"
KREFE8	1/2"
KREFE12	3/4"
KREFE16	1"
KREFE20	1.1/4"
KREFE24	1.1/2"
KREFE32*	2"
Tech Sheet 10735	

Fixed Bushes



BSPT Male x BSPP Female

Q450	Male Thread	Female Thread
KRAB4T-4	1/4"	1/4"
KRAB6T-4	3/8"	1/4"
KRAB6T-6	3/8"	3/8"
KRAB8T-8*	1/2"	1/2"
KRAB12T-12*	3/4"	3/4"
KRAB16T-16*	1"	1"
KRAB20T-20*	1.1/4"	1.1/4"
KRAB24T-24*	1.1/2"	1.1/2"
KRAB32T-32*	2"	2"
Tech Sheet 10736		

Female Hexagon Sockets



BSPP

Q450	Thread	Thread
KRFA4-2	1/4"	1/8"
KRFA4-4	1/4"	1/4"
KRFA6-2*	3/8"	1/8"
KRFA6-4	3/8"	1/4"
KRFA6-6	3/8"	3/8"
KRFA8-2	1/2"	1/8"
KRFA8-4	1/2"	1/4"
KRFA8-6	1/2"	3/8"
KRFA8-8	1/2"	1/2"
KRFA12-12	3/4"	3/4"
KRFA16-16	1"	1"
KRFA20-20	1.1/4"	1.1/4"
Tech Sheet 10737		

Female Tees



BSPP

Q450	Thread
KREFT2	1/8"
KREFT4	1/4"
KREFT6	3/8"
KREFT8	1/2"
KREFT12	3/4"
KREFT16	1"
KREFT20	1.1/4"
KREFT24	1.1/2"
KREFT32	2"
Tech Sheet 10738	

Female Branch Tees



BSPP

Q450	Thread
KRFOMT4	1/4"
KRFOMT6	3/8"
KRFOMT8	1/2"
KRFOMT12	3/4"
KRFOMT16	1"
KRFOMT20*	1.1/4"
KRFOMT24*	1.1/2"
Tech Sheet 10739	

*Minimum order quantity on these items may apply

HYDRAULIC ADAPTORS

1/8" - 3/4" 680 BAR 1" - 2" 500 BAR



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Maximum Working Pressure:
1/8" to 3/4" 680 bar
1" to 2" 500 bar



Plugs



BSPP

0450	Thread
KRP2	1/8"
KRP4	1/4"
KRP6	3/8"
KRP8	1/2"
KRP10	5/8"
KRP12	3/4"
KRP16	1"
KRP20	1.1/4"
KRP24	1.1/2"
KRP32	2"

Tech Sheet 10740



BSPT

0450	Thread
KRPT2	1/8"
KRPT4	1/4"
KRPT6	3/8"
KRPT8	1/2"
KRPT12	3/4"
KRPT16	1"
KRPT20	1.1/4"

Tech Sheet 10741

Gauge Adaptors



BSPP

0450	Thread	Thread
KRGA4-4	1/4"	1/4"
KRGA6-4	3/8"	1/4"
KRGA8-4	1/2"	1/4"

Tech Sheet 10742

Stud Standpipes



OD Imperial to BSPP

0450	OD	Thread
KR4-2SSAR	1/4"	1/8"
KR4-4SSAR	1/4"	1/4"
KR5-2SSAR*	5/16"	1/8"
KR5-4SSAR*	5/16"	1/4"
KR5-6SSAR	5/16"	3/8"
KR6-4SSAR	3/8"	1/4"
KR6-6SSAR	3/8"	3/8"
KR8-4SSAR	1/2"	1/4"
KR8-6SSAR	1/2"	3/8"
KR8-8SSAR	1/2"	1/2"
KR10-6SSAR	5/8"	3/8"
KR10-8SSAR*	5/8"	1/2"
KR10-12SSAR*	5/8"	3/4"
KR12-8SSAR	3/4"	1/2"
KR12-12SSAR	3/4"	3/4"
KR14-8SSAR*	7/8"	1/2"
KR14-12SSAR*	7/8"	3/4"
KR14-16SSAR	7/8"	1"
KR16-12SSAR	1"	3/4"
KR16-16SSAR	1"	1"
KR20-12SSAR	1.1/4"	3/4"
KR20-16SSAR	1.1/4"	1"
KR20-20SSAR	1.1/4"	1.1/4"
KR24-16SSAR*	1.1/2"	1"
KR24-20SSAR*	1.1/2"	1.1/4"
KR24-24SSAR*	1.1/2"	1.1/2"
KR32-24SSAR	2"	1.1/2"
KR32-32SSAR	2"	2"

Tech Sheet 10743



OD Metric to BSPP

0450	OD mm	Thread
KRM6-2SSAR	6	1/8"
KRM6-4SSAR	6	1/4"
KRM8-2SSAR	8	1/8"
KRM8-4SSAR	8	1/4"
KRM8-6SSAR	8	3/8"
KRM10-4SSAR	10	1/4"
KRM10-6SSAR	10	3/8"
KRM12-4SSAR	12	1/4"
KRM12-6SSAR	12	3/8"
KRM12-8SSAR	12	1/2"
KRM16-6SSAR	16	3/8"
KRM16-8SSAR	16	1/2"
KRM16-12SSAR	16	3/4"
KRM20-8SSAR	20	1/2"
KRM20-12SSAR	20	3/4"
KRM22-8SSAR	22	1/2"
KRM22-12SSAR	22	3/4"
KRM22-16SSAR	22	1"
KRM25-12SSAR	25	3/4"
KRM25-16SSAR	25	1"
KRM30-12SSAR	30	3/4"
KRM30-16SSAR	30	1"
KRM30-20SSAR	30	1.1/4"
KRM38-16SSAR	38	1"
KRM38-20SSAR	38	1.1/4"
KRM38-24SSAR	38	1.1/2"
KRM50-24SSAR	50	1.1/2"
KRM50-32SSAR	50	2"

Tech Sheet 10744

Banjos

Seals sold separately



BSPP

0450	Thread
KRA4-4BJ	1/4"
KRA6-6BJ	3/8"
KRA8-8BJ	1/2"
KRA12-12BJ	3/4"

Tech Sheet 10745

Bleed Plugs (Air)



BSPP

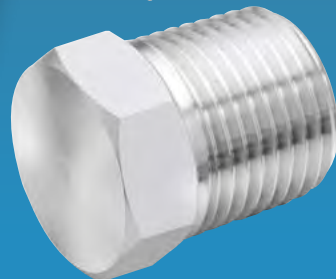
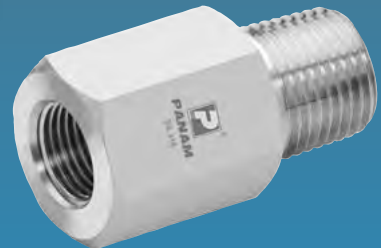
0450	Thread
KRP2AB	1/8"

Tech Sheet 10746

*Minimum order quantity on these items may apply



Stainless Steel Adaptors



HYDRAULIC STAINLESS STEEL ADAPTORS

stainless steel



Male x Male Straight Adaptors



BSPP x BSPP

0044	Thread	Thread
2025-1401	1/8"	1/8"
2025-1419	1/4"	1/8"
2025-1427	1/4"	1/4"
2025-1435	3/8"	1/8"
2025-1443	3/8"	1/4"
2025-1450	3/8"	3/8"
2025-1468	1/2"	1/4"
2025-1476	1/2"	3/8"
2025-1484	1/2"	1/2"
2025-1495	5/8"	1/2"
2025-1505	5/8"	5/8"
2025-1520	3/4"	1/4"
2025-1526	3/4"	3/8"
2025-1534	3/4"	1/2"
2025-1538	3/4"	5/8"
2025-1559	3/4"	3/4"
2025-1567	1"	1/2"
2025-1572	1"	5/8"
2025-1583	1"	3/4"
2025-1591	1"	1"
2025-1595	1.1/4"	3/4"
2025-1600	1.1/4"	1"
2025-1609	1.1/4"	1.1/4"
2025-1611	1.1/2"	1"
2025-1615	1.1/2"	1.1/4"
2025-1617	1.1/2"	1.1/2"
2025-1620	2"	1.1/2"
2025-1625	2"	2"

Tech Sheet 20884



BSPP x BSPT

0044	Thread
2033-9693	1/4"
2033-9761	3/8"
2033-9719	1/2"
2033-9727	3/4"
2033-9735	1"

Tech Sheet 20884



BSPT x BSPT

0044	Thread	Thread
2025-1708	1/8"	1/8"
2025-1715	1/4"	1/8"
2025-1724	1/4"	1/4"
2025-1727	3/8"	1/8"
2025-1732	3/8"	1/4"
2025-1740	3/8"	3/8"
2025-1845	1/2"	1/8"
2025-1852	1/2"	1/4"
2025-1856	1/2"	3/8"
2025-1865	1/2"	1/2"
2025-1881	3/4"	1/8"
2025-1885	3/4"	1/4"
2025-1889	3/4"	3/8"
2025-1894	3/4"	1/2"
2025-1898	3/4"	3/4"
2025-1905	1"	1/8"
2025-1910	1"	1/4"
2025-1915	1"	3/8"
2025-1920	1"	1/2"
2025-1925	1"	3/4"
2025-1931	1"	1"
2025-1935	1.1/4"	1"
2025-1940	1.1/4"	1.1/4"
2025-1945	1.1/2"	1"
2025-1950	1.1/2"	1.1/2"
2025-1956	2"	1"
2025-1960	2"	1.1/2"
2025-1965	2"	2"

Tech Sheet 20884



BSPP x NPT

0044	BSPP Thread	NPT Thread
2025-1633	1/8"	1/8"
2025-1636	1/8"	1/4"
2025-1639	1/4"	1/8"
2025-1641	1/4"	1/4"
2025-1643	1/4"	3/8"
2025-1656	3/8"	1/4"
2025-1658	3/8"	3/8"
2025-1661	3/8"	1/2"
2025-1671	1/2"	3/8"
2025-1674	1/2"	1/2"
2025-1677	5/8"	1/2"
2025-1679	5/8"	3/4"
2025-1681	3/4"	1/2"
2025-1682	3/4"	3/4"
2025-1684	3/4"	1"
2025-1687	1"	3/4"
2025-1690	1"	1"
2025-1700	1.1/4"	1.1/4"
2025-1710	1.1/2"	1.1/2"
2025-1720	2"	2"

Tech Sheet 20884

Components



stainless steel

For 10,000 psi Rated, 316 Stainless Steel Adaptors see pages 134-138



HYDRAULIC STAINLESS STEEL ADAPTORS

stainless
steel



Male x Female Straight Adaptors



Male x Female Swivel, BSPP

0044	Male Thread	Female Thread
2025-1930	1/8"	1/8"
2025-1948	1/4"	1/4"
2025-1955	1/4"	3/8"
2025-1961	1/4"	1/2"
2025-1963	3/8"	1/4"
2025-1971	3/8"	3/8"
2025-1989	3/8"	1/2"
2025-1997	1/2"	3/8"
2025-2003	1/2"	1/2"
2025-2020	1/2"	3/4"
2025-2029	3/4"	1/2"
2025-2037	3/4"	3/4"
2025-2043	3/4"	1"
2025-2060	1"	1"

Tech Sheet 20884

Male x Female Fixed, BSPP

0044	Male Thread	Female Thread
2025-8121	1/8"	1/8"
2025-8131	1/4"	1/8"
2025-8142	1/4"	1/4"
2025-8151	3/8"	1/8"
2025-8161	3/8"	1/4"
2025-8171	3/8"	3/8"
2025-8181	1/2"	1/4"
2025-8201	1/2"	3/8"
2025-8211	1/2"	1/2"
2025-8191	3/4"	1/4"
2025-8221	3/4"	3/8"
2025-8231	3/4"	1/2"
2025-8241	3/4"	3/4"
2025-8251	1"	1/2"
2025-8261	1"	1"
2025-8271	1"	3/4"
2025-8281	1.1/4"	1/2"
2025-8291	1.1/4"	3/4"
2025-8301	1.1/4"	1"
2025-8311	1.1/4"	1.1/4"
2025-8321	1.1/2"	3/4"
2025-8331	1.1/2"	1"
2025-8341	1.1/2"	1.1/2"
2025-8351	1.1/2"	1.1/4"
2025-8361	2"	2"

Tech Sheet 20884

Female Swivel, BSPP x BSPT Male

0044	Thread
2033-9862	1/8"
2033-9867	1/4"
2033-9875	3/8"
2033-9883	1/2"
2033-9891	3/4"
2033-9896	1"

Tech Sheet 20884

Female x Female Straight Adaptors



Swivel, BSPP

0044	Thread	Thread
2025-2078	1/4"	1/4"
2025-2082	3/8"	1/4"
2025-2086	3/8"	3/8"
2025-2089	1/2"	1/4"
2025-2093	1/2"	3/8"
2025-2094	1/2"	1/2"
2025-2100	5/8"	5/8"
2025-2122	3/4"	1/2"
2025-2132	3/4"	3/4"
2025-2110	1"	1"

Tech Sheet 20884

Fixed Female Hexagon Socket, BSPP

0044	Thread
2025-2466	1/8"
2025-2474	1/4"
2025-2482	3/8"
2025-2490	1/2"
2025-2508	3/4"
2025-2516	1"

Tech Sheet 20884

Elbows



Equal Elbow, BSPP

0044	Thread
2033-9922	1/8"
2033-9933	1/4"
2033-9941	3/8"
2033-9958	1/2"
2033-9962	5/8"
2033-9963	3/4"
2033-9974	1"
2033-9982	1.1/4"
2033-9992	1.1/2"

Tech Sheet 20884



Male x Female Swivel, BSPP

0044	Thread
2025-2185	1/8"
2025-2193	1/4"
2025-2201	3/8"
2025-2219	1/2"
2025-2223	5/8"
2025-2227	3/4"
2025-2232	1"
2025-2240	1.1/4"
2025-2245	1.1/2"

Tech Sheet 20884



Female Swivel, BSPP

0044	Thread
2025-2128	1/8"
2025-2136	1/4"
2025-2151	1/2"
2025-2169	3/4"

Tech Sheet 20884

HYDRAULIC STAINLESS STEEL ADAPTORS

stainless steel



Tees



Male, BSPP

0044	Thread
2025-2321	1/8"
2025-2326	1/4"
2025-2334	3/8"
2025-2342	1/2"
2025-2449	3/4"
2025-2354	1"

Tech Sheet 20884



Female Swivel Branch, BSPP

0044	Thread
2025-4001	1/8"
2025-4011	1/4"
2025-4021	3/8"
2025-4031	1/2"
2025-4041	3/4"
2025-4051	1"

Tech Sheet 20884



Female Swivel, BSPP

0044	Thread
2025-2250	1/4"
2025-2258	3/8"
2025-2263	1/2"
2025-2273	5/8"
2025-2283	3/4"
2025-2293	1"

Tech Sheet 20884



Female Swivel Run, BSPP

0044	Thread
2025-4501	1/8"
2025-4511	1/4"
2025-4521	3/8"
2025-4531	1/2"
2025-4541	3/4"
2025-4551	1"

Tech Sheet 20884

Bulkhead complete with Locknut



BSPP

0044	Thread
2025-2391	1/4"
2025-2409	3/8"
2025-2417	1/2"
2025-2425	5/8"
2025-2433	3/4"
2025-2441	1"
2025-2445	1.1/4"
2025-2450	1.1/2"

Tech Sheet 20884

Plugs



BSPP

0044	Thread
2033-4002	1/8"
2033-4012	1/4"
2033-4022	3/8"
2033-4032	1/2"
2033-4042	5/8"
2033-4052	3/4"
2033-4062	1"
2033-4072	1.1/4"
2033-4082	1.1/2"
2033-4092	2"

Tech Sheet 20884



BSPT

0044	Thread
2025-2524	1/8"
2025-2532	1/4"
2025-2540	3/8"
2025-2557	1/2"
2025-2565	3/4"
2025-2573	1"
2025-2582	1.1/4"
2025-2592	1.1/2"
2025-2602	2"

Tech Sheet 20884

Caps



BSPP

0044	Thread
2033-8301	1/8"
2033-8311	1/4"
2033-8321	3/8"
2033-8331	1/2"
2033-8341	3/4"
2033-8351	1"

Tech Sheet 20884

316 PRECISION INSTRUMENTATION PIPE FITTINGS

stainless
steel



Hexagon Nipples



Male x Male, NPT

0342	Thread
PHN-01	1/16"
PHN-02	1/8"
PHN-04	1/4"
PHN-06	3/8"
PHN-08	1/2"
PHN-12	3/4"
PHN-16	1"

Tech Sheet 20885

Hexagon Nipples, Long



Male x Male, NPT

0342	Thread	Length
PHNL-02-L1.5	1/8"	1.5"
PHNL-02-L2	1/8"	2"
PHNL-02-L3	1/8"	3"
PHNL-02-L4	1/8"	4"
PHNL-02-L6	1/8"	6"
PHNL-04-L1.5	1/4"	1.5"
PHNL-04-L2	1/4"	2"
PHNL-04-L3	1/4"	3"
PHNL-04-L4	1/4"	4"
PHNL-04-L6	1/4"	6"
PHNL-06-L1.5	3/8"	1.5"
PHNL-06-L2	3/8"	2"
PHNL-06-L3	3/8"	3"
PHNL-06-L4	3/8"	4"
PHNL-06-L6	3/8"	6"
PHNL-08-L1.5	1/2"	1.5"
PHNL-08-L2	1/2"	2"
PHNL-08-L3	1/2"	3"
PHNL-08-L4	1/2"	4"
PHNL-08-L6	1/2"	6"
PHNL-12-L2	3/4"	2"
PHNL-12-L3	3/4"	3"
PHNL-12-L4	3/4"	4"
PHNL-12-L6	3/4"	6"
PHNL-16-L1.5	1"	1.5"
PHNL-16-L2	1"	2"
PHNL-16-L3	1"	3"
PHNL-16-L4	1"	4"
PHNL-16-L6	1"	6"

Tech Sheet 20885

Reducing Hexagon Nipples



Male x Male, NPT

0342	Thread	Thread
PRHN-02-01	1/8"	1/16"
PRHN-04-02	1/4"	1/8"
PRHN-06-02	3/8"	1/8"
PRHN-06-04	3/8"	1/4"
PRHN-08-02	1/2"	1/8"
PRHN-08-04	1/2"	1/4"
PRHN-08-06	1/2"	3/8"
PRHN-12-06	3/4"	1/4"
PRHN-12-08	3/4"	1/2"
PRHN-16-08	1"	1/2"
PRHN-16-12	1"	3/4"

Tech Sheet 20885

Hexagon Coupling



Female x Female, NPT

0342	Thread
PHC-02	1/8"
PHC-04	1/4"
PHC-06	3/8"
PHC-08	1/2"
PHC-12	3/4"
PHC-16	1"

Tech Sheet 20885

Reducing Hexagon Couplings



Female x Female, NPT

0342	Thread	Thread
PRC-04-02	1/4"	1/8"
PRC-06-04	3/8"	1/4"
PRC-08-02	1/2"	1/8"
PRC-08-04	1/2"	1/4"
PRC-12-04	3/4"	1/4"
PRC-12-08	3/4"	1/2"
PRC-16-08	1"	1/2"

Tech Sheet 20885

Equal Male x Female Adaptors



Male x Female, NPT

0342	Thread
PPA-02	1/8"
PPA-04	1/4"
PPA-06	3/8"
PPA-08	1/2"
PPA-12	3/4"
PPA-16	1"

Tech Sheet 20885

Reducing Male x Female Adaptors



Male x Female, NPT

0342	Male Thread	Female Thread
PRA-02-01	1/16"	1/8"
PRA-04-02	1/8"	1/4"
PRA-06-02	1/8"	3/8"
PRA-06-04	1/4"	3/8"
PRA-08-02	1/8"	1/2"
PRA-08-04	1/4"	1/2"
PRA-08-06	3/8"	1/2"
PRA-12-04	1/4"	3/4"
PRA-12-06	3/8"	3/4"
PRA-12-08	1/2"	3/4"
PRA-16-04	1/4"	1"
PRA-16-08	1/2"	1"
PRA-16-12	3/4"	1"

Tech Sheet 20885

Gauge Adaptor



Male NPT x Female, BSPP

0342	Male Thread	Female Thread
PGA-04-04	1/4"	1/4"
PGA-06-06	3/8"	3/8"
PGA-08-08	1/2"	1/2"

Tech Sheet 20885

316 PRECISION INSTRUMENTATION PIPE FITTINGS

stainless
steel



Reducing Bushes



Male x Female, NPT

0342	Male Thread	Female Thread
PRB-02-01	1/8"	1/16"
PRB-04-02	1/4"	1/8"
PRB-06-02	3/8"	1/8"
PRB-06-04	3/8"	1/4"
PRB-08-02	1/2"	1/8"
PRB-08-04	1/2"	1/4"
PRB-08-06	1/2"	3/8"
PRB-12-04	3/4"	1/4"
PRB-12-06	3/4"	3/8"
PRB-12-08	3/4"	1/2"
PRB-16-04	1"	1/4"
PRB-16-06	1"	3/8"
PRB-16-08	1"	1/2"
PRB-16-12	1"	3/4"

Tech Sheet 20885

Pipe Caps



NPT

0342	Thread
PCP-02	1/8"
PCP-04	1/4"
PCP-06	3/8"
PCP-08	1/2"
PCP-12	3/4"
PCP-16	1"

Tech Sheet 20885

Pipe Plugs



NPT

0342	Thread
PP-01	1/16"
PP-02	1/8"
PP-04	1/4"
PP-06	3/8"
PP-08	1/2"
PP-12	3/4"
PP-16	1"

Tech Sheet 20885

Equal Elbows



Female, NPT

0342	Thread
PPFE-02	1/8"
PPFE-04	1/4"
PPFE-06	3/8"
PPFE-08	1/2"
PPFE-12	3/4"
PPFE-16	1"

Tech Sheet 20885



Male, NPT

0342	Thread
PPME-02	1/8"
PPME-04	1/4"
PPME-06	3/8"
PPME-08	1/2"

Tech Sheet 20885

Male x Female, NPT

0342	Thread
PSE-01	1/16"
PSE-02	1/8"
PSE-04	1/4"
PSE-06	3/8"
PSE-08	1/2"
PSE-12	3/4"
PSE-16	1"

Tech Sheet 20885

Equal Tees



Female, NPT

0342	Thread
PFT-02	1/8"
PFT-04	1/4"
PFT-06	3/8"
PFT-08	1/2"
PFT-12	3/4"
PFT-16	1"

Tech Sheet 20885



Male, NPT

0342	Thread
PMT-02	1/8"
PMT-04	1/4"
PMT-06	3/8"
PMT-08	1/2"

Tech Sheet 20885

Branch Tees



Female x Male, NPT

0342	Thread
PBT-02	1/8"
PBT-04	1/4"
PBT-06	3/8"
PBT-08	1/2"

Tech Sheet 20885

Equal Crosses



Female, NPT

0342	Thread
PPC-02	1/8"
PPC-04	1/4"
PPC-06	3/8"
PPC-08	1/2"
PPC-12	3/4"
PPC-16	1"

Tech Sheet 20885

10,000 PSI RATED, 316 STAINLESS STEEL ADAPTORS

stainless
steel



Male x Male Straight Adaptors



BSPP x BSPP

0339	Thread	Thread
2G-2G-MM-10K	1/8"	1/8"
2G-4G-MM-10K	1/8"	1/4"
2G-6G-MM-10K	1/8"	3/8"
2G-8G-MM-10K	1/8"	1/2"
2G-12G-MM-10K	1/8"	3/4"
2G-16G-MM-10K	1/8"	1"
4G-4G-MM-10K	1/4"	1/4"
4G-6G-MM-10K	1/4"	3/8"
4G-8G-MM-10K	1/4"	1/2"
4G-12G-MM-10K	1/4"	3/4"
4G-16G-MM-10K	1/4"	1"
6G-6G-MM-10K	3/8"	3/8"
6G-8G-MM-10K	3/8"	1/2"
6G-12G-MM-10K	3/8"	3/4"
6G-16G-MM-10K	3/8"	1"
8G-8G-MM-10K	1/2"	1/2"
8G-12G-MM-10K	1/2"	3/4"
8G-16G-MM-10K	1/2"	1"
12G-12G-MM-10K	3/4"	3/4"
12G-16G-MM-10K	3/4"	1"
16G-16G-MM-10K	1"	1"

Tech Sheet 20887



BSPP x JIC

0339	Thread	Thread
2G-4J-MM-10K	1/8"	7/16"
2G-6J-MM-10K	1/8"	9/16"
4G-4J-MM-10K	1/4"	7/16"
4G-6J-MM-10K	1/4"	9/16"
4G-8J-MM-10K	1/4"	3/4"
6G-4J-MM-10K	3/8"	7/16"
6G-6J-MM-10K	3/8"	9/16"
6G-8J-MM-10K	3/8"	3/4"
6G-10J-MM-10K	3/8"	7/8"
6G-12J-MM-10K	3/8"	1.1/16"
8G-4J-MM-10K	1/2"	7/16"
8G-8J-MM-10K	1/2"	3/4"
8G-10J-MM-10K	1/2"	7/8"
8G-12J-MM-10K	1/2"	1.1/16"
8G-16J-MM-10K	1/2"	1.5/16"
12G-8J-MM-10K	3/4"	3/4"
12G-10J-MM-10K	3/4"	7/8"
12G-16J-MM-10K	3/4"	1.5/16"
16G-10J-MM-10K	1"	7/8"
16G-12J-MM-10K	1"	1.1/16"
16G-16J-MM-10K	1"	1.5/16"

Tech Sheet 20887

These fittings within the industry are known as 10K fittings which have a 10,000 psi working pressure rating.

All BSPP fittings are 60° coned for connection to hoses.



Maximum Working Pressure:

10,000 psi (690 bar)



NPT x JIC

0339	Thread	Thread
2N-2J-MM-10K	1/8"	5/16"
2N-4J-MM-10K	1/8"	7/16"
4N-4J-MM-10K	1/4"	7/16"
4N-6J-MM-10K	1/4"	9/16"
4N-8J-MM-10K	1/4"	3/4"
6N-4J-MM-10K	3/8"	7/16"
6N-6J-MM-10K	3/8"	9/16"
6N-8J-MM-10K	3/8"	3/4"
6N-12J-MM-10K	3/8"	1.1/16"
8N-4J-MM-10K	1/2"	7/16"
8N-6J-MM-10K	1/2"	9/16"
8N-8J-MM-10K	1/2"	3/4"
8N-12J-MM-10K	1/2"	1.1/16"
12N-8J-MM-10K	3/4"	3/4"
12N-12J-MM-10K	3/4"	1.1/16"
12N-16J-MM-10K	3/4"	1.5/16"
16N-12J-MM-10K	1"	1.1/16"
16N-16J-MM-10K	1"	1.5/16"

Tech Sheet 20887



BSPP x NPT

0319	Thread	Thread
2G-2N-MM-10K	1/8"	1/8"
2G-4N-MM-10K	1/8"	1/4"
2G-6N-MM-10K	1/8"	3/8"
2G-8N-MM-10K	1/8"	1/2"
2G-12N-MM-10K	1/8"	3/4"
2G-16N-MM-10K	1/8"	1"
4G-2N-MM-10K	1/4"	1/8"
4G-4N-MM-10K	1/4"	1/4"
4G-6N-MM-10K	1/4"	3/8"
4G-8N-MM-10K	1/4"	1/2"
4G-12N-MM-10K	1/4"	3/4"
4G-16N-MM-10K	1/4"	1"
6G-4N-MM-10K	3/8"	1/4"
6G-6N-MM-10K	3/8"	3/8"
6G-8N-MM-10K	3/8"	1/2"
6G-12N-MM-10K	3/8"	3/4"
6G-16N-MM-10K	3/8"	1"
8G-4N-MM-10K	1/2"	1/4"
8G-6N-MM-10K	1/2"	3/8"
8G-8N-MM-10K	1/2"	1/2"
8G-12N-MM-10K	1/2"	3/4"
8G-16N-MM-10K	1/2"	1"
12G-12N-MM-10K	3/4"	3/4"
12G-16N-MM-10K	3/4"	1"
16G-16N-MM-10K	1"	1"

Tech Sheet 20887



NPT x NPT

0339	Thread	Thread
2N-2N-MM-10K	1/8"	1/8"
2N-4N-MM-10K	1/8"	1/4"
4N-4N-MM-10K	1/4"	1/4"
4N-6N-MM-10K	1/4"	3/8"
4N-8N-MM-10K	1/4"	1/2"
6N-2N-MM-10K	3/8"	1/8"
6N-6N-MM-10K	3/8"	3/8"
6N-8N-MM-10K	3/8"	1/2"
8N-2N-MM-10K	1/2"	1/8"
8N-8N-MM-10K	1/2"	1/2"
12N-2N-MM-10K	3/4"	1/8"
12N-4N-MM-10K	3/4"	1/4"
12N-6N-MM-10K	3/4"	3/8"
12N-8N-MM-10K	3/4"	1/2"
12N-12N-MM-10K	3/4"	3/4"
16N-2N-MM-10K	1"	1/8"
16N-4N-MM-10K	1"	1/4"
16N-6N-MM-10K	1"	3/8"
16N-8N-MM-10K	1"	1/2"
16N-12N-MM-10K	1"	3/4"
16N-16N-MM-10K	1"	1"

Tech Sheet 20887



JIC x JIC

0339	Thread	Thread
4J-4J-MM-10K	7/16"	7/16"
4J-6J-MM-10K	7/16"	9/16"
4J-8J-MM-10K	7/16"	3/4"
6J-6J-MM-10K	9/16"	9/16"
6J-8J-MM-10K	9/16"	3/4"
6J-10J-MM-10K	9/16"	7/8"
8J-8J-MM-10K	3/4"	3/4"
8J-10J-MM-10K	3/4"	7/8"
8J-12J-MM-10K	3/4"	1.1/16"
10J-10J-MM-10K	7/8"	7/8"
10J-12J-MM-10K	7/8"	1.1/16"
10J-16J-MM-10K	7/8"	1.5/16"
12J-16J-MM-10K	1.1/16"	1.5/16"
16J-16J-MM-10K	1.5/16"	1.5/16"

Tech Sheet 20887

10,000 PSI RATED, 316 STAINLESS STEEL ADAPTORS

stainless steel



These fittings within the industry are known as 10K fittings which have a 10,000 psi working pressure rating. All BSPP fittings are 60° coned for connection to hoses.

Maximum Working Pressure:
10,000 psi (690 bar)

Male x Female Straight Adaptors



BSPP x BSPP

0339	Male Thread	Female Thread
2G-2G-MF-A-10K	1/8"	1/8"
2G-4G-MF-A-10K	1/8"	1/4"
2G-6G-MF-A-10K	1/8"	3/8"
2G-8G-MF-A-10K	1/8"	1/2"
2G-12G-MF-A-10K	1/8"	3/4"
4G-4G-MF-A-10K	1/4"	1/4"
4G-6G-MF-A-10K	1/4"	3/8"
4G-8G-MF-A-10K	1/4"	1/2"
4G-12G-MF-A-10K	1/4"	3/4"
6G-6G-MF-A-10K	3/8"	3/8"
6G-8G-MF-A-10K	3/8"	1/2"
6G-12G-MF-A-10K	3/8"	3/4"
8G-8G-MF-A-10K	1/2"	1/2"
8G-12G-MF-A-10K	1/2"	3/4"
8G-16G-MF-A-10K	1/2"	1"
12G-12G-MF-A-10K	3/4"	3/4"
12G-16G-MF-A-10K	3/4"	1"
16G-16G-MF-A-10K	1"	1"

Tech Sheet 20887

JIC x NPT

0339	Male Thread	Female Thread
4J-2N-MF-A-10K	7/16"-20	1/8"
4J-4N-MF-A-10K	7/16"-20	1/4"
6J-4N-MF-A-10K	9/16"-18	1/4"
4J-6N-MF-A-10K	7/16"-20	3/8"
6J-6N-MF-A-10K	9/16"-18	3/8"
8J-6N-MF-A-10K	3/4"-16	3/8"
8J-8N-MF-A-10K	9/16"-18	1/2"
10J-8N-MF-A-10K	3/4"-16	1/2"
12J-8N-MF-A-10K	7/8"-14	1/2"
12J-12N-MF-A-10K	3/4"-16	1/2"
16J-16N-MF-A-10K	7/8"-14	1/2"

Tech Sheet 20887

JIC x JIC, Swivel

0339	Male Thread	Female Thread
4J-4J-MF-10K	7/16"	7/16"
4J-6J-MF-10K	7/16"	9/16"
4J-8J-MF-10K	7/16"	3/4"
6J-4J-MF-10K	9/16"	7/16"
6J-6J-MF-10K	9/16"	9/16"
6J-8J-MF-10K	9/16"	3/4"
8J-4J-MF-10K	3/4"	7/16"
8J-6J-MF-10K	3/4"	9/16"
10J-8J-MF-10K	7/8"	3/4"
12J-8J-MF-10K	1.1/16"	3/4"
12J-12J-MF-10K	1.1/16"	1.1/16"
14J-12J-MF-10K	1.3/16"	1.1/16"
16J-12J-MF-10K	1.5/16"	1.1/16"
16J-16J-MF-10K	1.5/16"	1.5/16"

Tech Sheet 20887

BSPP x JIC, Swivel

0339	Male Thread	Female Thread
4G-4J-MF-10K	1/4"	7/16"
4G-5J-MF-10K	1/4"	1/2"
4G-6J-MF-10K	1/4"	9/16"
6G-6J-MF-10K	3/8"	9/16"
8G-6J-MF-10K	1/2"	9/16"
6G-8J-MF-10K	3/8"	3/4"
8G-8J-MF-10K	1/2"	3/4"
6G-10J-MF-10K	3/8"	7/8"
8G-10J-MF-10K	1/2"	7/8"
12G-10J-MF-10K	3/4"	7/8"
8G-12J-MF-10K	1/2"	1.1/16"
12G-12J-MF-10K	3/4"	1.1/16"
16G-12J-MF-10K	1"	1.1/16"
12G-16J-MF-10K	3/4"	1.5/16"
16G-16J-MF-10K	1"	1.5/16"

Tech Sheet 20887

NPT x NPT

0339	Male Thread	Female Thread
2N-2N-MF-A-10K	1/8"	1/8"
2N-4N-MF-A-10K	1/8"	1/4"
2N-6N-MF-A-10K	1/8"	3/8"
2N-8N-MF-A-10K	1/8"	1/2"
2N-12N-MF-A-10K	1/8"	3/4"
4N-4N-MF-A-10K	1/4"	1/4"
4N-6N-MF-A-10K	1/4"	3/8"
4N-8N-MF-A-10K	1/4"	1/2"
4N-12N-MF-A-10K	1/4"	3/4"
4N-16N-MF-A-10K	1/4"	1"
6N-6N-MF-A-10K	3/8"	3/8"
6N-8N-MF-A-10K	3/8"	1/2"
6N-12N-MF-A-10K	3/8"	3/4"
6N-16N-MF-A-10K	3/8"	1"
8N-8N-MF-A-10K	1/2"	1/2"
8N-12N-MF-A-10K	1/2"	3/4"
8N-16N-MF-A-10K	1/2"	1"
12N-12N-MF-A-10K	3/4"	3/4"
12N-16N-MF-A-10K	3/4"	1"
16N-16N-MF-A-10K	1"	1"

Tech Sheet 20887

NPT x JIC, Swivel

0339	Male Thread	Female Thread
4N-4J-MF-10K	1/4"	7/16"
6N-6J-MF-10K	3/8"	9/16"
6N-8J-MF-10K	3/8"	3/4"
8N-10J-MF-10K	1/2"	7/8"
8N-12J-MF-10K	1/2"	1.1/16"
12N-12J-MF-10K	3/4"	1.1/16"
12N-14J-MF-10K	3/4"	1.3/16"
12N-16J-MF-10K	3/4"	1.5/16"
16N-16J-MF-10K	1"	1.5/16"

Tech Sheet 20887



For Hydraulic Adaptors
see pages 28-30



10,000 PSI RATED, 316 STAINLESS STEEL ADAPTORS

stainless steel



These fittings within the industry are known as 10K fittings which have a 10,000 psi working pressure rating. All BSPP fittings are 60° coned for connection to hoses.

Maximum Working Pressure:
10,000 psi (690 bar)

Male x Female Straight Reducers



BSPP

0339	Male Thread	Female Thread
4G-2G-MF-B-10K	1/4"	1/8"
6G-2G-MF-B-10K	3/8"	1/8"
6G-4G-MF-B-10K	3/8"	1/4"
8G-2G-MF-B-10K	1/2"	1/8"
8G-4G-MF-B-10K	1/2"	1/4"
8G-6G-MF-B-10K	1/2"	3/8"
12G-2G-MF-B-10K	3/4"	1/8"
12G-4G-MF-B-10K	3/4"	1/4"
12G-6G-MF-B-10K	3/4"	3/8"
12G-8G-MF-B-10K	3/4"	1/2"
16G-2G-MF-B-10K	1"	1/8"
16G-4G-MF-B-10K	1"	1/4"
16G-6G-MF-B-10K	1"	3/8"
16G-8G-MF-B-10K	1"	1/2"
16G-12G-MF-B-10K	1"	3/4"

Tech Sheet 20887



NPT

0339	Male Thread	Female Thread
4N-2N-MF-B-10K	1/4"	1/8"
6N-2N-MF-B-10K	3/8"	1/8"
6N-4N-MF-B-10K	3/8"	1/4"
8N-2N-MF-B-10K	1/2"	1/8"
8N-4N-MF-B-10K	1/2"	1/4"
8N-6N-MF-B-10K	1/2"	3/8"
12N-2N-MF-B-10K	3/4"	1/8"
12N-4N-MF-B-10K	3/4"	1/4"
12N-6N-MF-B-10K	3/4"	3/8"
12N-8N-MF-B-10K	3/4"	1/2"
16N-2N-MF-B-10K	1"	1/8"
16N-4N-MF-B-10K	1"	1/4"
16N-6N-MF-B-10K	1"	3/8"
16N-8N-MF-B-10K	1"	1/2"
16N-12N-MF-B-10K	1"	3/4"

Tech Sheet 20887

Female x Female Straight Adaptors



Swivel, BSPP

0339	Thread	Thread
4G-4G-FF-10K	1/4"	1/4"
4G-6G-FF-10K	1/4"	3/8"
4G-8G-FF-10K	1/4"	1/2"
6G-6G-FF-10K	3/8"	3/8"
6G-8G-FF-10K	3/8"	1/2"
8G-8G-FF-10K	1/2"	1/2"
12G-12G-FF-10K	3/4"	3/4"
16G-16G-FF-10K	1"	1"

Tech Sheet 20887



Fixed, NPT

0339	Thread	Thread
2N-2N-FF-10K	1/8"	1/8"
2N-4N-FF-10K	1/8"	1/4"
2N-6N-FF-10K	1/8"	3/8"
2N-8N-FF-10K	1/8"	1/2"
2N-12N-FF-10K	1/8"	3/4"
2N-16N-FF-10K	1/8"	1"
4N-4N-FF-10K	1/4"	1/4"
4N-6N-FF-10K	1/4"	3/8"
4N-8N-FF-10K	1/4"	1/2"
4N-12N-FF-10K	1/4"	3/4"
4N-16N-FF-10K	1/4"	1"
6N-6N-FF-10K	3/8"	3/8"
6N-8N-FF-10K	3/8"	1/2"
6N-12N-FF-10K	3/8"	3/4"
6N-16N-FF-10K	3/8"	1"
8N-8N-FF-10K	1/2"	1/2"
8N-12N-FF-10K	1/2"	3/4"
8N-16N-FF-10K	1/2"	1"
12N-12N-FF-10K	3/4"	3/4"
12N-16N-FF-10K	3/4"	1"
16N-16N-FF-10K	1"	1"

Tech Sheet 20887



Swivel, JIC

0339	Thread	Thread
4J-4J-FF-10K	7/16"	7/16"
4J-6J-FF-10K	7/16"	9/16"
4J-8J-FF-10K	9/16"	3/4"
6J-6J-FF-10K	9/16"	9/16"
6J-8J-FF-10K	9/16"	3/4"
8J-8J-FF-10K	3/4"	3/4"
12J-12J-FF-10K	1.1/16"	1.1/16"
16J-16J-FF-10K	1.5/16"	1.5/16"

Tech Sheet 20887

Male x Male Elbows



BSPP

0339	Thread
2G-E-MM-10K	1/8"
4G-E-MM-10K	1/4"
6G-E-MM-10K	3/8"
8G-E-MM-10K	1/2"
12G-E-MM-10K	3/4"
16G-E-MM-10K	1"

Tech Sheet 20887



NPT

0339	Thread
2N-E-MM-10K	1/8"
4N-E-MM-10K	1/4"
6N-E-MM-10K	3/8"
8N-E-MM-10K	1/2"
12N-E-MM-10K	3/4"
16N-E-MM-10K	1"

Tech Sheet 20887

10,000 PSI RATED, 316 STAINLESS STEEL ADAPTORS

stainless steel



These fittings within the industry are known as 10K fittings which have a 10,000 psi working pressure rating. All BSPP fittings are 60° coned for connection to hoses.



Maximum Working Pressure:
10,000 psi (690 bar)



Male x Female Elbows



Swivel, BSPP

0339	Thread
2G-E-MF-10K	1/8"
4G-E-MF-10K	1/4"
6G-E-MF-10K	3/8"
8G-E-MF-10K	1/2"
12G-E-MF-10K	3/4"
16G-E-MF-10K	1"

Tech Sheet 20887



Fixed, NPT

0339	Thread
2N-E-MF-10K	1/8"
4N-E-MF-10K	1/4"
6N-E-MF-10K	3/8"
8N-E-MF-10K	1/2"
12N-E-MF-10K	3/4"
16N-E-MF-10K	1"

Tech Sheet 20887



Swivel, JIC

0339	Thread
4J-E-MF-10K	7/16"
6J-E-MF-10K	9/16"
8J-E-MF-10K	3/4"
10J-E-MF-10K	7/8"
12J-E-MF-10K	1.1/16"
16J-E-MF-10K	1.5/16"

Tech Sheet 20887



NPT x JIC

0339	Male Thread	Female Thread
4N-4J-E-MF-10K	1/4"	7/16"
6N-6J-E-MF-10K	3/8"	9/16"
8N-8J-E-MF-10K	1/2"	3/4"
12N-12J-E-MF-10K	3/4"	1.1/16"

Tech Sheet 20887

Female x Female Elbows



BSPP

0339	Thread
2G-E-FF-10K	1/8"
4G-E-FF-10K	1/4"
6G-E-FF-10K	3/8"
8G-E-FF-10K	1/2"
12G-E-FF-10K	3/4"
16G-E-FF-10K	1"

Tech Sheet 20887



NPT

0339	Thread
2N-E-10K	1/8"
4N-E-10K	1/4"
6N-E-10K	3/8"
8N-E-10K	1/2"
12N-E-10K	3/4"
16N-E-10K	1"

Tech Sheet 20887



JIC

0339	Thread
2J-E-FF-10K	7/16"
4J-E-FF-10K	9/16"
6J-E-FF-10K	3/4"
8J-E-FF-10K	7/8"
12J-E-FF-10K	1.1/16"
16J-E-FF-10K	1.5/16"

Tech Sheet 20887

Male x Male Tees



BSPP

0339	Thread
2G-T-MM-10K	1/8"
4G-T-MM-10K	1/4"
6G-T-MM-10K	3/8"
8G-T-MM-10K	1/2"
12G-T-MM-10K	3/4"
16G-T-MM-10K	1"

Tech Sheet 20887



NPT

0339	Thread
2N-T-MM-10K	1/8"
4N-T-MM-10K	1/4"
6N-T-MM-10K	3/8"
8N-T-MM-10K	1/2"
12N-T-MM-10K	3/4"
16N-T-MM-10K	1"

Tech Sheet 20887



JIC

0339	Thread
4J-T-MM-10K	7/16"
5J-T-MM-10K	1/2"
6J-T-MM-10K	9/16"
8J-T-MM-10K	3/4"
10J-T-MM-10K	7/8"
12J-T-MM-10K	1.1/16"
14J-T-MM-10K	1.3/16"
16J-T-MM-10K	1.5/16"

Tech Sheet 20887



10,000 PSI RATED, 316 STAINLESS STEEL ADAPTORS

stainless
steel



Maximum Working Pressure:
10,000 psi (690 bar)

These fittings within the industry are known as 10K fittings which have a 10,000 psi working pressure rating. All BSPP fittings are 60° coned for connection to hoses.

Female x Female Tees



BSPP

0339	Thread
2G-T-FF-10K	1/8"
4G-T-FF-10K	1/4"
6G-T-FF-10K	3/8"
8G-T-FF-10K	1/2"
12G-T-FF-10K	3/4"
16G-T-FF-10K	1"

Tech Sheet 20887



NPT

0339	Thread
2N-T-10K	1/8"
4N-T-10K	1/4"
6N-T-10K	3/8"
8N-T-10K	1/2"
12N-T-10K	3/4"

Tech Sheet 20887



JIC

0339	Thread
2J-T-FF-10K	7/16"
4J-T-FF-10K	9/16"
6J-T-FF-10K	3/4"
8J-T-FF-10K	7/8"
12J-T-FF-10K	1.1/16"
16J-T-FF-10K	1.5/16"

Tech Sheet 20887

Female Equal Cross



NPT

0339	Thread
2N-X-10K	1/8"
4N-X-10K	1/4"
6N-X-10K	3/8"
8N-X-10K	1/2"
12N-X-10K	3/4"
16N-X-10K	1"

Tech Sheet 20887

Plugs



BSPP

0339	Thread
2G-P-10K	1/8"
4G-P-10K	1/4"
6G-P-10K	3/8"
8G-P-10K	1/2"
12G-P-10K	3/4"
16G-P-10K	1"

Tech Sheet 20887



NPT

0339	Thread
2N-P-10K	1/8"
4N-P-10K	1/4"
6N-P-10K	3/8"
8N-P-10K	1/2"
12N-P-10K	3/4"
16N-P-10K	1"

Tech Sheet 20887



JIC

0339	Thread
4J-P-10K	7/16"
6J-P-10K	9/16"
8J-P-10K	3/4"
10J-P-10K	7/8"
12J-P-10K	1.1/16"
16J-P-10K	1.5/16"

Tech Sheet 20887

Caps



BSPP

0339	Thread
2G-C-10K	1/8"
4G-C-10K	1/4"
6G-C-10K	3/8"
8G-C-10K	1/2"
12G-C-10K	3/4"
16G-C-10K	1"

Tech Sheet 20887



NPT

0339	Thread
2N-C-10K	1/8"
4N-C-10K	1/4"
6N-C-10K	3/8"
8N-C-10K	1/2"
12N-C-10K	3/4"
16N-C-10K	1"

Tech Sheet 20887



JIC

0339	Thread
4J-C-10K	7/16"
6J-C-10K	9/16"
8J-C-10K	3/4"
10J-C-10K	7/8"
12J-C-10K	1.1/16"
16J-C-10K	1.5/16"

Tech Sheet 20887

37° JIC STAINLESS STEEL FLARE FITTINGS

stainless
steel



Male Stud Couplings



UNF

0215	Thread
205BM6	7/16"-20
205BM8	1/2"-20
205BM10	9/16"-18
205BM12	3/4"-16
205BM16	7/8"-14
205BM20	1.1/16"-12
205BM22	1.3/16"-12
205BM25	1.5/16"-12
205BM32	1.5/8"-12

Tech Sheet 20886



UNF x BSPT

0215	Thread	Thread
210BM6R18	7/16"-20	1/8"
210BM6R14	7/16"-20	1/4"
210BM6R12	7/16"-20	1/2"
210BM8R18	1/2"-20	1/8"
210BM8R14	1/2"-20	1/4"
210BM10R14	9/16"-18	1/4"
210BM10R18	9/16"-18	1/8"
210BM10R38	9/16"-18	3/8"
210BM10R12	9/16"-18	1/2"
210BM12R14	3/4"-16	1/4"
210BM12R38	3/4"-16	3/8"
210BM12R12	3/4"-16	1/2"
210BM16R12	7/8"-14	1/2"
210BM16R34	7/8"-14	3/4"
210BM20R12	1.1/16"-12	1/2"
210BM20R34	1.1/16"-12	3/4"
210BM20R1	1.1/16"-12	1"
210BM22R34	1.3/16"-12	3/4"
210BM25R34	1.5/16"-12	3/4"
210BM25R1	1.5/16"-12	1"
210BM32R1	1.5/8"-12	1"
210BM32R114	1.5/8"-12	1.1/4"
210BM38R112	1.7/8"-12	1.1/2"

Tech Sheet 20886

UNF x BSPP

0215	Thread	Thread
210SM6G18	7/16"-20	1/8"
210SM6G14	7/16"-20	1/4"
210SM6G38	7/16"-20	3/8"
210SM6G12	7/16"-20	1/2"
210SM8G18	1/2"-20	1/8"
210SM8G14	1/2"-20	1/4"
210SM8G38	1/2"-20	3/8"
210SM10G18	9/16"-18	1/8"
210SM10G14	9/16"-18	1/4"
210SM10G38	9/16"-18	3/8"
210SM10G12	9/16"-18	1/2"
210SM12G14	3/4"-16	1/4"
210SM12G38	3/4"-16	3/8"
210SM12G12	3/4"-16	1/2"
210SM12G34	3/4"-16	3/4"
210SM16G38	7/8"-14	3/8"
210SM16G12	7/8"-14	1/2"
210SM16G34	7/8"-14	3/4"
210SM20G12	1.1/16"-12	1/2"
210SM20G34	1.1/16"-12	3/4"
210SM20G1	1.1/16"-12	1"
210SM22G34	1.3/16"-12	3/4"
210SM25G34	1.5/16"-12	3/4"
210SM25G1	1.5/16"-12	1"
210SM25G114	1.5/16"-12	1.1/4"
210SM32G1	1.5/8"-12	1"
210SM32G114	1.5/8"-12	1.1/4"
210SM38G114	1.7/8"-12	1.1/4"
210SM38G112	1.7/8"-12	1.1/2"

Tech Sheet 20886

UNF x NPT

0215	Thread	Thread
214BM6N18	7/16"-20	1/8"
214BM6N14	7/16"-20	1/4"
214BM8N18	1/2"-20	1/8"
214BM8N14	1/2"-20	1/4"
214BM10N18	9/16"-18	1/8"
214BM10N14	9/16"-18	1/4"
214BM10N38	9/16"-18	3/8"
214BM10N12	9/16"-18	1/2"
214BM12N14	3/4"-16	1/4"
214BM12N38	3/4"-16	3/8"
214BM12N12	3/4"-16	1/2"
214BM12N34	3/4"-16	3/4"
214BM16N12	7/8"-14	1/2"
214BM20N12	1.1/16"-12	1/2"
214BM20N34	1.1/16"-12	3/4"
214BM20N1	1.1/16"-12	1"
214BM25N34	1.5/16"-12	3/4"
214BM25N1	1.5/16"-12	1"
214BM32N1	1.5/8"-12	1"
214BM32N114	1.5/8"-12	1.1/4"
214BM38N114	1.7/8"-12	1.1/4"
214BM38N112	1.7/8"-12	1.1/2"

Tech Sheet 20886

stainless
steel



For 316 Stainless Steel Tubing
see page 70



For Flareite Seals see page 161

37° JIC STAINLESS STEEL FLARE FITTINGS

stainless
steel



Female Stud Couplings



Male UNF x Female BSPP

0215	Male Thread	Female Thread
230BM6G18	7/16"-20	1/8"
230BM6G14	7/16"-20	1/4"
230BM6G12	7/16"-20	1/2"
230BM8G14	1/2"-20	1/4"
230BM10G18	9/16"-18	1/8"
230BM10G14	9/16"-18	1/4"
230BM10G38	9/16"-18	3/8"
230BM10G12	9/16"-18	1/2"
230BM12G14	3/4"-16	1/4"
230BM12G38	3/4"-16	3/8"
230BM12G12	3/4"-16	1/2"
230BM12G34	3/4"-16	3/4"
230BM16G38	7/8"-14	3/8"
230BM16G12	7/8"-14	1/2"
230BM16G34	7/8"-14	3/4"
230BM18G1	1.1/16"-12	1"
230BM22G34	1.3/16"-12	3/4"
230BM25G34	1.5/16"-12	3/4"
230BM25G1	1.5/16"-12	1"
230BM32G1	1.5/8"-12	1"
230BM32G114	1.5/8"-12	1.1/4"
230BM38G114	1.7/8"-12	1.1/2"
230BM38G112	1.7/8"-12	1.1/2"

Tech Sheet 20886

Male UNF x Female NPT

0215	Male Thread	Female Thread
232BM6N18	7/16"-20	1/8"
232BM6N14	7/16"-20	1/4"
232BM8N14	1/2"-20	1/4"
232BM10N14	9/16"-18	1/4"
232BM10N38	9/16"-18	3/8"
232BM12N12	3/4"-16	1/2"
232BM20N12	1.1/16"-12	1/2"
232BM20N34	1.1/16"-12	3/4"
232BM25N1	1.5/16"-12	1"
232BM32N114	1.5/8"-12	1.1/4"
232BM38N112	1.7/8"-12	1.1/2"

Tech Sheet 20886

Male UNF x Female BSPT

0215	Male Thread	Female Thread
231M6R18	7/16"-20	1/8"
231M6R14	7/16"-20	1/4"
231M6R12	7/16"-20	1/2"
231M8R18	1/2"-20	1/8"
231M8R14	1/2"-20	1/4"
231M10R18	9/16"-18	1/8"
231M10R14	9/16"-18	1/4"
231M10R38	9/16"-18	3/8"
231M10R12	9/16"-18	1/2"
231M12R14	3/4"-16	1/4"
231M12R38	3/4"-16	3/8"
231M12R12	3/4"-16	1/2"
231M12R34	3/4"-16	3/4"
231M16R38	7/8"-14	3/8"
231M16R12	7/8"-14	1/2"
231M16R34	7/8"-14	3/4"
231M18R34	1.1/16"-12	3/4"
231M18R1	1.1/16"-12	1"
231M22R34	1.3/16"-12	3/4"
231M25R34	1.5/16"-12	3/4"
231M25R1	1.5/16"-12	1"
231M32R1	1.5/8"-12	1"
231M32R114	1.5/8"-12	1.1/4"
231M38R114	1.7/8"-12	1.1/4"
231M38R112	1.7/8"-12	1.1/2"

Tech Sheet 20886

Female Swivel Connectors



Male UNF x Female UNF

0215	Male Thread	Female Thread
273M6U716	7/16"-20	7/16"-20
273M8U716	1/2"-20	7/16"-20
273M8U12	1/2"-20	1/2"-20
273M10U716	9/16"-18	7/16"-20
273M10U916	9/16"-18	9/16"-18
273M12U916	3/4"-16	9/16"-18
273M16U34	7/8"-14	3/4"-16
273M18U34	1.1/16"-12	3/4"-16
273M18U1116	1.1/16"-12	1.1/16"-12
273M22U1116	1.3/16"-12	1.1/16"-12
273M25U1116	1.5/16"-12	1.1/16"-12
273M25U1516	1.5/16"-12	1.5/16"-12

Tech Sheet 20886

Male BSPP x Female UNF

0215	Male Thread	Female Thread
273M6G18	1/8"	7/16"-20
273M8G18	1/8"	1/2"-20
273M8G14	1/4"	1/2"-20
273M10G14	1/4"	9/16"-18
273M10G38	3/8"	9/16"-18
273M12G38	3/8"	3/4"-16
273M16G12	1/2"	7/8"-14
273M20G34	3/4"	1.1/16"-12
273M22G34	3/4"	1.3/16"-12
273M25G1	1"	1.5/16"-12
273M32G114	1.1/4"	1.5/8"-12
273M38G112	1.1/2"	1.7/8"-12

Tech Sheet 20886

Male NPT x Female UNF

0215	Male Thread	Female Thread
276M6N18	1/8"	7/16"-20
276M8N18	1/8"	1/2"-20
276M6N14	1/4"	7/16"-20
276M8N14	1/4"	1/2"-20
276M10N14	1/4"	9/16"-18
276M10N38	3/8"	9/16"-18
276M12N38	3/8"	3/4"-16
276M16N12	1/2"	7/8"-14
276M20N12	1/2"	1.1/16"-12
276M20N34	3/4"	1.1/16"-12
276M22N34	3/4"	1.3/16"-12
276M25N34	3/4"	1.5/16"-12
276M25N1	1"	1.5/16"-12
276M32N114	1.1/4"	1.5/8"-12
276M38N112	1.1/2"	1.7/8"-12

Tech Sheet 20886

Male BSPT x Female UNF

0215	Male Thread	Female Thread
273M6R18	1/8"	7/16"-20
273M8R14	1/4"	1/2"-20
273M10R14	1/4"	9/16"-18
273M12R14	1/4"	3/4"-16
273M12R38	3/8"	3/4"-16
273M16R12	1/2"	7/8"-14
273M20R12	1/2"	1.1/16"-12
273M20R34	3/4"	1.1/16"-12
273M22R34	3/4"	1.3/16"-12
273M25R34	3/4"	1.5/16"-12
273M25R1	1"	1.5/16"-12
273M32R114	1.1/4"	1.5/8"-12
273M38R112	1.1/2"	1.7/8"-12

Tech Sheet 20886



37° JIC STAINLESS STEEL FLARE FITTINGS

stainless steel



Bulkhead Unions



Bulkhead complete with Locknut, UNF

0215	Thread
204M6U716	7/16"-20
204M8U12	1/2"-20
204M10U916	9/16"-18
204M12U34	3/4"-16
204M16U78	7/8"-14
204M18U1116	1.1/16"-12
204M22U1316	1.3/16"-12
204M25U1516	1.5/16"-12
204M32U158	1.5/8"-12
204M38U178	1.7/8"-12

Tech Sheet 20886

Bulkhead Locknuts

0215	Thread
199M6U716	7/16"-20
199M8U12	1/2"-20
199M10U916	9/16"-18
199M12U34	3/4"-16
199M16U78	7/8"-14
199M18U1116	1.1/16"-12
199M22U1316	1.3/16"-12
199M25U1516	1.5/16"-12
199M32U158	1.5/8"-12
199M38U178	1.7/8"-12

Tech Sheet 20886

Fixed Elbows



UNF

0215	Thread
206BM6	7/16"-20
206BM8	1/2"-20
206BM12	3/4"-16
206BM20	1.1/16"-12
206BM22	1.3/16"-12
206BM25	1.5/16"-12
206BM32	1.5/8"-12
206BM38	1.7/8"-12

Tech Sheet 20886

UNF Male x BSPT Male

0215	Thread	Thread
206M6R18	7/16"-20	1/8"
206M6R14	7/16"-20	1/4"
206M6R12	7/16"-20	1/2"
206M8R18	1/2"-20	1/8"
206M8R14	1/2"-20	1/4"
206M10R18	9/16"-18	1/8"
206M10R14	9/16"-18	1/4"
206M10R38	9/16"-18	3/8"
206M10R12	9/16"-18	1/2"
206M12R14	3/4"-16	1/4"
206M12R38	3/4"-16	3/8"
206M12R12	3/4"-16	1/2"
206M12R34	3/4"-16	3/4"
206M16R38	7/8"-14	3/8"
206M16R12	7/8"-14	1/2"
206M16R34	7/8"-14	3/4"
206M18R34	1.1/16"-12	3/4"
206M18R1	1.1/16"-12	1"
206M22R34	1.3/16"-12	3/4"
206M25R34	1.5/16"-12	3/4"
206M25R1	1.5/16"-12	1"
206M32R1	1.5/8"-12	1"
206M32R114	1.5/8"-12	1.1/4"
206M38R114	1.7/8"-12	1.1/4"
206M38R112	1.7/8"-12	1.1/2"

Tech Sheet 20886

UNF Male x 45° NPT Male

0215	Thread	Thread
285M6N18	7/16"-20	1/8"
285M8N14	1/2"-20	1/8"
285M10N12	9/16"-18	1/4"
285M12N18	3/4"-16	3/8"
285M16N14	7/8"-14	1/2"
285M18N18	1.1/16"-12	3/4"
285M22N14	1.3/16"-12	3/4"
285M25N38	1.5/16"-12	1"
285M32N12	1.5/8"-12	1.1/4"
285M38N14	1.7/8"-12	1.1/2"

Tech Sheet 20886

Components



For Hydraulic Oil
see section 6 page 301

37° JIC STAINLESS STEEL FLARE FITTINGS

stainless
steel



Swivel Elbows



Male x Female, UNF

0215	Thread
275M6U716	7/16"-20
275M8U12	1/2"-20
275M10U916	9/16"-18
275M12U34	3/4"-16
275M16U78	7/8"-14
275M18U1116	1.1/16"-12
275M22U1316	1.3/16"-12
275M25U1516	1.5/16"-12
275M32U158	1.5/8"-12
275M38U178	1.7/8"-12

Tech Sheet 20886



Equal Female, UNF

0215	Thread
265M6U716	7/16"-20
265M8U12	1/2"-20
265M10U916	9/16"-18
265M12U34	3/4"-16
265M16U78	7/8"-14
265M18U1116	1.1/16"-12
265M22U1316	1.3/16"-12
265M25U1516	1.5/16"-12
265M32U158	1.5/8"-12
265M38U178	1.7/8"-12

Tech Sheet 20886

Fixed Tees



UNF

0215	Thread
207BM6	7/16"-20
207BM8	1/2"-20
207BM10	9/16"-18
207BM12	3/4"-16
207BM16	7/8"-14
207BM20	1.1/16"-12
207BM22	1.3/16"-12
207BM25	1.5/16"-12
207BM32	1.5/8"-12

Tech Sheet 20886



NPT Male x UNF Female

0215	Thread	Thread
275M6N18	7/16"-20	1/8"
275M6N14	7/16"-20	1/4"
275M6N12	7/16"-20	1/2"
275M8N18	1/2"-20	1/8"
275M8N14	1/2"-20	1/4"
275M10N18	9/16"-18	1/8"
275M10N14	9/16"-18	1/4"
275M10N38	9/16"-18	3/8"
275M10N12	9/16"-18	1/2"
275M12N14	3/4"-16	1/4"
275M12N38	3/4"-16	3/8"
275M12N12	3/4"-16	1/2"
275M12N34	3/4"-16	3/4"
275M16N38	7/8"-14	3/8"
275M16N12	7/8"-14	1/2"
275M16N34	7/8"-14	3/4"
275M18N34	1.1/16"-12	3/4"
275M18N1	1.1/16"-12	1"
275M22N34	1.3/16"-12	3/4"
275M25N34	1.5/16"-12	3/4"
275M25N1	1.5/16"-12	1"
275M32N1	1.5/8"-12	1"
275M32N114	1.5/8"-12	1.1/4"
275M38N114	1.7/8"-12	1.1/4"
275M38N112	1.7/8"-12	1.1/2"

Tech Sheet 20886

90° Position Elbows



UNF x BSPP

0215	Thread	Thread
216SM6G18	7/16"-20	1/8"
216SM6G14	7/16"-20	1/4"
216SM8G18	1/2"-20	1/8"
216SM10G38	9/16"-18	3/8"
216SM12G14	3/4"-16	1/4"
216SM12G38	3/4"-16	3/8"
216SM12G12	3/4"-16	1/2"
216SM12G34	3/4"-16	3/4"
216SM16G14	7/8"-14	1/4"
216SM16G38	7/8"-14	3/8"
216SM16G12	7/8"-14	1/2"
216SM16G34	7/8"-14	3/4"
216SM20G12	1.1/16"-12	1/2"
216SM20G34	1.1/16"-12	3/4"
216SM22G12	1.3/16"-12	1/2"
216SM22G34	1.3/16"-12	3/4"
216SM22G1	1.3/16"-12	1/2"
216SM25G12	1.5/16"-12	1/2"
216SM25G1	1.5/16"-12	1"
216SM32G1	1.5/8"-12	1"
216SM38G112	1.7/8"-12	1.1/2"

Tech Sheet 20886



UNF Male x NPT Male Branch

0215	Thread	Thread
307M6N18	7/16"-20	1/8"
307M6N14	7/16"-20	1/4"
307M6N12	7/16"-20	1/2"
307M8N18	1/2"-20	1/8"
307M8N14	1/2"-20	1/4"
307M10N18	9/16"-18	1/8"
307M10N14	9/16"-18	1/4"
307M10N38	9/16"-18	3/8"
307M10N12	9/16"-18	1/2"
307M12N14	3/4"-16	1/4"
307M12N38	3/4"-16	3/8"
307M12N12	3/4"-16	1/2"
307M12N34	3/4"-16	3/4"
307M16N38	7/8"-14	3/8"
307M16N12	7/8"-14	1/2"
307M16N34	7/8"-14	3/4"
307M18N34	1.1/16"-12	3/4"
307M18N1	1.1/16"-12	1"
307M22N34	1.3/16"-12	3/4"
307M25N34	1.5/16"-12	3/4"
307M25N1	1.5/16"-12	1"
307M32N1	1.5/8"-12	1"
307M32N114	1.5/8"-12	1.1/4"
307M38N114	1.7/8"-12	1.1/4"
307M38N112	1.7/8"-12	1.1/2"

Tech Sheet 20886



37° JIC STAINLESS STEEL FLARE FITTINGS

stainless
steel



Fixed Tees



UNF Male x NPT Male Run

0215	Thread	Thread
309M6N18	7/16"-20	1/8"
309M6N14	7/16"-20	1/4"
309M6N12	7/16"-20	1/2"
309M8N18	1/2"-20	1/8"
309M8N14	1/2"-20	1/4"
309M10N18	9/16"-18	1/8"
309M10N14	9/16"-18	1/4"
309M10N38	9/16"-18	3/8"
309M10N12	9/16"-18	1/2"
309M12N14	3/4"-16	1/4"
309M12N38	3/4"-16	3/8"
309M12N12	3/4"-16	1/2"
309M12N34	3/4"-16	3/4"
309M16N38	7/8"-14	3/8"
309M16N12	7/8"-14	1/2"
309M16N34	7/8"-14	3/4"
309M18N34	1.1/16"-12	3/4"
309M18N1	1.1/16"-12	1"
309M22N34	1.3/16"-12	3/4"
309M25N34	1.5/16"-12	3/4"
309M25N1	1.5/16"-12	1"
309M32N1	1.5/8"-12	1"
309M32N114	1.5/8"-12	1.1/4"
309M38N114	1.7/8"-12	1.1/4"
309M38N112	1.7/8"-12	1.1/2"

Tech Sheet 20886

Swivel Tees



Female Swivel, UNF

0215	Thread
310M6U716	7/16"-20
310M8U12	1/2"-20
310M10U916	9/16"-18
310M12U34	3/4"-16
310M16U78	7/8"-14
310M18U1116	1.1/16"-12
310M22U1316	1.3/16"-12
310M25U1516	1.5/16"-12
310M32U158	1.5/8"-12
310M38U178	1.7/8"-12

Tech Sheet 20886



Female Swivel Branch, UNF

0215	Thread
314M6U716	7/16"-20
314M8U12	1/2"-20
314M10U916	9/16"-18
314M12U34	3/4"-16
314M16U78	7/8"-14
314M18U1116	1.1/16"-12
314M22U1316	1.3/16"-12
314M25U1516	1.5/16"-12
314M32U158	1.5/8"-12
314M38U178	1.7/8"-12

Tech Sheet 20886



Female Swivel Run, UNF

0215	Thread
312M6U716	7/16"-20
312M8U12	1/2"-20
312M10U916	9/16"-18
312M12U34	3/4"-16
312M16U78	7/8"-14
312M18U1116	1.1/16"-12
312M22U1316	1.3/16"-12
312M25U1516	1.5/16"-12
312M32U158	1.5/8"-12
312M38U178	1.7/8"-12

Tech Sheet 20886

Position Tees



UNF Male x BSPP Male

0215	Thread	Thread
308M6G18	7/16"-20	1/8"
308M6G14	7/16"-20	1/4"
308M8G18	1/2"-20	1/8"
308M8G14	1/2"-20	1/4"
308M10G14	9/16"-18	1/4"
308M10G38	9/16"-18	3/8"
308M12G14	3/4"-16	1/4"
308M12G38	3/4"-16	3/8"
308M12G12	3/4"-16	1/2"
308M12G34	3/4"-16	3/4"
308M16G14	7/8"-14	1/4"
308M16G38	7/8"-14	3/8"
308M16G12	7/8"-14	1/2"
308M16G34	7/8"-14	3/4"
308M20G12	1.1/16"-12	1/2"
308M20G34	1.1/16"-12	3/4"
308M22G34	1.3/16"-12	1/2"
308M22G1	1.3/16"-12	3/4"
308M22G12	1.3/16"-12	1"
308M25G34	1.5/16"-12	1/2"
308M25G1	1.5/16"-12	3/4"
308M32G1	1.5/8"-12	1"
308M32G114	1.5/8"-12	1"
308M38G114	1.7/8"-12	1.1/4"
308M38G112	1.7/8"-12	1.1/2"

Tech Sheet 20886

Cross



Male, UNF

0215	Thread
320M6U716	7/16"-20
320M8U12	1/2"-20
320M10U916	9/16"-18
320M12U34	3/4"-16
320M16U78	7/8"-14
320M18U1116	1.1/16"-12
320M22U1316	1.3/16"-12
320M25U1516	1.5/16"-12
320M32U158	1.5/8"-12
320M38U178	1.7/8"-12

Tech Sheet 20886

37° JIC STAINLESS STEEL FLARE FITTINGS

stainless
steel



Swivel Caps



UNF

0215	Thread
289M6U716	7/16"-20
289M8U12	1/2"-20
289M10U916	9/16"-18
289M12U34	3/4"-16
289M16U78	7/8"-14
289M22U1316	1.3/16"-12
289M25U1516	1.5/16"-12
289M32U158	1.5/8"-12
289M38U178	1.7/8"-12

Tech Sheet 20886

Blanking Plugs



UNF

0215	Thread
299M6	7/16"-20
299M8	1/2"-20
299M10	9/16"-18
299M12	3/4"-16
299M16	7/8"-14
299M20	1.1/16"-12
299M22	1.3/16"-12
299M25	1.5/16"-12
299M32	1.5/8"-12
299M38	1.7/8"-12

Tech Sheet 20886

Reducing Adaptors



UNF Tube x UNF Male

0215	OD mm	OD mm	Male Thread
303M6U716	10	6	7/16"-20
303M6U34	12	6	3/4"-16
303M10U34	12	10	3/4"-16
303M6U78	16	6	7/8"-14
303M10U78	16	10	7/8"-14
303M6U1116	18	6	1.1/16"-12
303M10U1116	18	10	1.1/16"-12
303M12U1116	18	12	1.1/16"-12
303M10U1316	22	10	1.3/16"-12
303M16U1316	22	16	1.3/16"-12
303M6U1516	25	6	1.5/16"-12
303M10U1516	25	10	1.5/16"-12
303M12U1516	25	12	1.5/16"-12
303M16U1516	25	16	1.5/16"-12
303M18U1516	25	18	1.5/16"-12
303M18U158	32	18	1.5/8"-12
303M25U158	32	25	1.5/8"-12
303M12U178	38	12	1.7/8"-12
303M18U178	38	18	1.7/8"-12
303M25U178	38	25	1.7/8"-12

Tech Sheet 20886

Tube Nuts



UNF

0215	Thread
201M6U716	7/16"-20
201M8U12	1/2"-20
201M10U916	9/16"-18
201M12U34	3/4"-16
201M16U78	7/8"-14
201M20U1116	1.1/16"-12
201M22U1316	1.3/16"-12
201M25U1516	1.5/16"-12
201M32U158	1.5/8"-12
201M38U178	1.7/8"-12

Tech Sheet 20886

Flare Sleeves



Metric

0215	OD mm
203M6	6
203M8	8
203M10	10
203M12	12
203M14	14
203M15	15
203M16Z58	16
203M18	18
203M20	20
203M25	25
203M30	30
203M32	32
203M38Z112	38

Tech Sheet 20886

Imperial

0215	OD
203Z14	1/4"
203Z516	5/16"
203Z38	3/8"
203Z12	1/2"
203M15Z58	5/8"
203Z34	3/4"
203Z1	1"

Tech Sheet 20886

We make big things move
- worldwide!



HYDRAULICS you can count on!



 **spradow**
german engineering at your service



Piston Valve Type, M16 x 2

Media Application:

Hydraulic and other oils on mineral oil basis.



Metal Cap -30°C to +100°C Sealings Buna N
Metal Cap -20°C to +200°C Sealings Viton

stainless
steel



Test Coupling

0330	Thread	Max Pressure Bar
1-Z06-28-11-600	1/8" BSPP	400
1-Z06-29-11-600	1/4" BSPP	400
1-Z06-30-11-600	3/8" BSPP	400
1-Z06-22-11-600	M10 x 1.0	630
1-Z06-23-11-600	M12 x 1.5	630
1-Z06-24-11-600	M14 x 1.5	630
1-Z06-43-00-600	1/8" NPT	400
1-Z06-44-00-600	1/4" NPT	400
1-Z06-39-30-600	7/16" UNF	630
1-Z06-40-30-600	9/16" UNF	630

Tech Sheet 10292



Bulkhead Coupling

0330	Max Pressure Bar
1-Z80-48-60-040	630

Tech Sheet 10292



In-line Tee, BSPP

0330	Thread	Max Pressure Bar
1-Z10-68-00-600	1/4"	400
1-Z10-69-00-600	3/8"	400
1-Z10-70-00-600	1/2"	630
1-Z10-72-00-600	3/4"	630
1-Z10-73-00-600	1"	630

Tech Sheet 10292

316 Stainless Steel, BSPP

0330	OD mm	Max Pressure Bar
1-912-28-12-660	1/8"	400
1-912-29-12-660	1/4"	630

Tech Sheet 10292



DIN 2353 DKO Light-duty, Metric

0330	OD mm	Burst Pressure Bar
1-Z08-00-10-600	6L	1000
1-Z08-02-10-600	8L	1000
1-Z08-04-10-600	10L	1000
1-Z08-06-10-600	12L	1000

Tech Sheet 10292

DIN 2353 DKO Heavy-duty, Metric

0330	OD mm	Burst Pressure Bar
1-Z08-03-10-600	8S	1890
1-Z08-05-10-600	10S	1890
1-Z08-07-10-600	12S	1890

Tech Sheet 10292

Gauge Adaptors

stainless
steel



316 Stainless Steel, BSPP

0330	Thread	Max Pressure Bar
1-940-31-22-080	1/2"	630

Tech Sheet 10292



Direct, BSPP

0330	Thread	Max Pressure Bar
1-927-29-01-020	1/4"	630
1-927-31-01-020	1/2"	630

Tech Sheet 10292



Hose/Gauge, BSPP

0330	Thread	Max Pressure Bar
1-918-29-01-240	1/4"	630
1-918-31-01-240	1/2"	630

Tech Sheet 10292



TEST POINT COUPLINGS

Ball Valve Type, M16 x 2



Maximum Working Pressure:
630 bar



Test Coupling

0330	Thread	Max Pressure Bar
1-906-22-11-600	M10 x 1.0	630
1-906-23-11-600	M12 x 1.5	630
1-906-24-11-600	M14 x 1.5	630
1-906-28-11-600	G1/8" BSPP	630
1-906-29-11-600	G1/4" BSPP	630
1-906-30-11-600	G3/8" BSPP	630
1-906-43-00-600	1/8" NPT	630
1-906-44-00-600	1/4" NPT	630
1-906-39-30-600	7/16" UNF	630
1-906-40-30-600	9/16" UNF	630

Tech Sheet 10292



Bulkhead Coupling

0330	
1-980-48-60-040	

Tech Sheet 10292



Maximum Working Pressure:
135 bar



DIN 2353 DKO Light-duty, Metric

0330	OD mm	Burst Pressure Bar
1-908-00-20-600	6L	630
1-908-02-20-600	8L	630
1-908-04-20-600	10L	630
1-908-06-20-600	12L	630

Tech Sheet 10292



DIN 2353 DKO Heavy-duty, Metric

0330	OD mm	Burst Pressure Bar
1-908-03-20-600	8S	1890
1-908-05-20-600	10S	1890
1-908-07-20-600	12S	1890

Tech Sheet 10292

316 Stainless Steel Test Points

Sealing by an elastomer captive profiled ring - Viton
Test connection: M16 x 2



Maximum Working Pressure:
630 bar

stainless
steel



Form C, BSPP

0330	Thread
MAS-G1/8-WD	1/8"
MAS-G1/4-WD	1/4"
MAS-G3/8-WD	3/8"
MAS-G1/2-WD	1/2"

Tech Sheet 10292

400 bar Microbore Test Point Hose Assemblies



M16 x 2

0330	Length mm
1-970-04-04-010	200
1-970-04-04-040	400
1-970-04-04-060	630
1-970-04-04-080	800
1-970-04-04-090	1000
1-970-04-04-100	1500
1-970-04-04-110	2000
1-970-04-04-120	2500
1-970-04-04-130	3200
1-970-04-04-140	4000

Tech Sheet 10292



1/4" BSPP

0330	Length mm
1-970-02-04-010	200
1-970-02-04-030	300
1-970-02-04-050	500
1-970-02-04-060	630
1-970-02-04-080	800
1-970-02-04-090	1000
1-970-02-04-100	1500
1-970-02-04-110	2000
1-970-02-04-120	2500
1-970-02-04-140	4000

Tech Sheet 10292



1/2" BSPP

0330	Length mm
1-970-04-25-090	1000
1-970-04-25-100	1500
1-970-04-25-110	2000

Tech Sheet 10292

End Fitting to suit DN2 and DN4 Hose

Bespoke assemblies available on request



Test Female Straight

0330	Thread	Type	DN
2-971-04-02-001	M16 x 2	Knurled	2
2-971-04-04-001	M16 x 2	Knurled	4
2-971-10-02-001	M16 x 1.5	Knurled	2
2-971-10-04-001	M16 x 1.5	Knurled	4
2-971-12-02-001	S12 x 1.5	Knurled	2
2-971-12-04-001	S12 x 1.5	Knurled	4

Tech Sheet 60388



Test Female Straight

0330	Thread	Type	DN
2-971-03-02-001	M16 x 2	Hex	2
2-971-09-02-001	M16 x 1.5	Hex	2

Tech Sheet 60388



Test 90° Elbow

0330	Thread	Type	DN
2-971-50-02-001	M16 x 2	Knurled	2
2-971-50-04-001	M16 x 2	Knurled	4
2-971-57-02-001	S12 x 1.5	Knurled	2
2-971-57-04-001	S12 x 1.5	Knurled	4

Tech Sheet 60388



BSPP Female

0330	Thread	DN
2-971-02-02-004	1/4"	2
2-971-02-04-004	1/4"	4
2-971-25-02-001	1/2"	2
2-971-25-04-001	1/2"	4

Tech Sheet 60388



BSPP 90° Elbow

0330	Thread	DN
2-971-58-02-001	1/4"	2
2-971-58-04-001	1/4"	4
2-971-54-02-001	1/2"	2
2-971-54-04-001	1/2"	4

Tech Sheet 60388

NPT Female

0330	Thread	DN
2-971-26-00-001	1/4"	2
2-971-26-04-001	1/4"	4
2-971-27-00-001	1/2"	2
2-971-27-04-001	1/2"	4

Tech Sheet 60388



Metric Female, DN2353

0330	Thread	Type	DN
2-971-19-02-001	M12 x 1.5	6L	2
2-971-19-04-001	M12 x 1.5	6L	4
2-971-20-02-001	M14 x 1.5	6S	2
2-971-20-04-001	M14 x 1.5	6S	4
2-971-21-02-001	M14 x 1.5	8L	2
2-971-21-04-001	M14 x 1.5	8L	4
2-971-22-02-001	M16 x 1.5	8S	2
2-971-22-04-001	M16 x 1.5	8S	4
2-971-23-02-001	M16 x 1.5	10L	2
2-971-23-04-001	M16 x 1.5	10L	4
2-971-24-02-001	M18 x 1.5	10S	2
2-971-24-04-001	M18 x 1.5	10S	4

Tech Sheet 60388



Metric 90° Elbow, DN2353

0330	Thread	Type	DN
2-971-44-02-001	M12 x 1.5	6L	2
2-971-44-04-001	M12 x 1.5	6L	4
2-971-45-02-001	M14 x 1.5	6S	2
2-971-45-04-001	M14 x 1.5	6S	4
2-971-46-02-001	M14 x 1.5	8L	2
2-971-46-04-001	M14 x 1.5	8L	4
2-971-48-02-001	M16 x 1.5	10L	2
2-971-48-04-001	M16 x 1.5	10L	4

Tech Sheet 60388



Metric Straight Standpipe

0330	OD mm	DN
2-971-13-00-001	6	2
2-971-13-04-001	6	4
2-971-15-00-001	8	2
2-971-15-04-001	8	4

Tech Sheet 60388

BSPP Male, DN3852

0330	Thread	DN
2-971-33-00-001	1/8"	2
2-971-33-04-001	1/8"	4

Tech Sheet 60388



JIC, SAE J541, Female

0330	Thread	DN
2-971-41-02-001	7/16"	2
2-971-41-04-001	7/16"	4

Tech Sheet 60388



Banjo

0330	OD mm	DN
2-971-75-00-001	8	2
2-971-75-04-001	8	4

Tech Sheet 60388



Anti-kink Spring



DN2

0330	To Suit
4-946-00-05-020	DN2 Hose

Ferrule



DN2 & DN4

0330	DN
4-999-03-01-160	2
6-999-03-01-010	4

Test Hose

Bespoke assemblies available on request.
Pin pricked



DN2 & DN4 Pin Pricked, Per Metre

0330	Max Pressure Bar	Type	DN
9-946-02-00-012	400	Pin Pricked	2
9-946-02-01-020	630	Pin Pricked	2
9-946-04-00-010	500	Pin Pricked	4

Tech Sheet 10487

DN2 Per Metre

0330	Max Pressure Bar	DN
9-946-02-00-020	630	2

Tech Sheet 10487



TEST POINT COUPLINGS



Spradow - Innovative Measuring Systems

The Spradow test coupling enables you to connect a pressure gauge or other measuring instruments in seconds - even if the system is still under pressure. The connection can be applied without any further tools.

The non-return valve inside the test coupling opens only after being connected with the measuring instrument to allow a secure and clean pressure measurement.

Pressure is an important parameter for a successful preventing service and maintenance or, if necessary, trouble-shooting.

With Spradow test couplings you can reduce your service and maintenance costs considerably.

The Spradow test box is the perfect tool for hydraulic systems offering service and maintenance engineers an easy mobile pressure test solution.

The complete Spradow test equipment is of course compatible with all other manufactures and fulfils all current important industrial standards.

Furthermore Spradow offers a comprehensive range of measuring systems for pneumatic braking systems.

Pressure Test Kits



Contents:

- 1 x Microbore Hose DN2-400 1620
- Gauge Connection 1/4" BSPP 400 bar
- 1 x Pressure Gauge 0-40 bar 1/4" BSPP
- 1 x Pressure Gauge 0-400 bar 1/4" BSPP
- 1 x Gauge Connection 1620 1/4" BSPP
- 1 x Test Point 1620 1/4" BSPP Metal Cap
- 1 x Test Point 1620 M10 x 1
- 1 x Adaptor 1/4" Female x 3/8" Male
- 1 x Adaptor 1/4" Female x 1/2" Male
- 1 x Cleaning Cloth
- 1 x 1/4" Bonded Seal
- 1 x 3/8" Bonded Seal
- 1 x 1/2" Bonded Seal

400 bar, Pressure Test Kit

0330
HYD-KIT1

Tech Sheet 10292



Contents:

- 1 x SNA 1620 Adaptor 1/4" Male x Female
- 1 x SNA 1620 Adaptor 3/8" Male x Female
- 1 x SNA 1620 Adaptor 1/2" Male x Female
- 1 x Test Point 1620 1/4" BSPP Metal Cap
- 1 x Pressure Gauge 0-40 bar 1/4" BSPP
- 1 x Pressure Gauge 0-400 bar 1/4" BSPP
- 1 x Adaptor 1/4" Female x 1/2" Male
- 1 x Adaptor 1/4" Female x 3/8" Male
- 1 x Microbore Hose DN2-400 1620/
Gauge Connection 1/4" BSPP 400 bar
- 1 x Cleaning Cloth
- 1 x 1/4" Bonded Seal
- 1 x 3/8" Bonded Seal
- 1 x 1/2" Bonded Seal

400 bar, Test Kit BSPP with In-line Tees

0330
HYD-KIT2

Tech Sheet 10292



Contents:

- 1 x SNA 1620 Adaptor 1/4" Male x Female
- 1 x SNA 1620 Adaptor 3/8" Male x Female
- 1 x SNA 1620 Adaptor 1/2" Male x Female
- 1 x Test Point 1620 1/4" BSPP Metal Cap
- 1 x Test Point 1620 1/8" BSPP Metal Cap
- 1 x Test Point 1620 M10 x 1
- 1 x Test Point 1620 M12 x 1.5 Metal Cap
- 1 x Adaptor 1/4" Female x 1/2" Male
- 1 x Adaptor 1/4" Female x 3/8" Male
- 1 x Pressure Gauge 0-400 bar 1/4" BSPP
- 1 x Pressure Gauge 0-40 bar 1/4" BSPP
- 1 x Microbore Hose DN2-400 1620/
Gauge Connection 1/4" BSP 400 bar
- 1 x Cleaning Cloth
- 1 x 1/4" Bonded Seal
- 1 x 3/8" Bonded Seal
- 1 x 1/2" Bonded Seal

400 bar, Test Kit BSPP/ Metric with In-line Tees

0330
HYD-KIT3

Tech Sheet 10292

Deluxe Pressure Test Kits



400 bar, Pressure Test Kit

0330
HYD-KIT4

Tech Sheet 10292

400 bar, Test Kit BSPP with In-line Tees

0330
HYD-KIT5

Tech Sheet 10292

400 bar, Test Kit BSPP/ Metric with In-line Tees

0330
HYD-KIT6

Tech Sheet 10292

hyfitt



You might also need
Glycerine Gauges
see pages 271-275



Closed Flanges

Split Flange Half

90° Threaded Flanges

Threaded Flanges

Threaded Flanges-Companion (Counter)

Socket Weld Flanges

Socket Weld Flanges 90°

Butt Weld Flanges

Butt Weld Flanges 90°

Butt Weld Flanges-Companion (Counter)

Socket Weld Coupling Set

Bolts & Spring Washers

O-Rings

SAE FLANGES



Closed Flanges

Bolts, washers and O-Rings are not included and must be purchased separately
Please see page 157



3000 psi

0300	Flange Size	Bolt Type Metric
AFC080	1/2"	M8 x 30
AFC100	3/4"	M10 x 35
AFC102	1"	M10 x 35
AFC104	1.1/4"	M10 x 40
AFC106	1.1/2"	M12 x 45
AFC108	2"	M12 x 45
AFC110	2.1/2"	M12 x 45
AFC112	3"	M16 x 50
AFC114	3.1/2"	M16 x 50
AFC116	4"	M16 x 50
AFC118	5"	M16 x 50

Tech Sheet 1625

6000 psi

0300	Flange Size	Bolt Type Metric
AFC401	1/2"	M8 x 30
AFC402	3/4"	M10 x 35
AFC403	1"	M12 x 45
AFC404	1.1/4"	M14 x 45
AFC405	1.1/2"	M16 x 50
AFC406	2"	M20 x 65
AFC407	2.1/2"	M24 x 80

Tech Sheet 1625

Split Flange Half

Bolts, washers and O-Rings are not included and must be purchased separately
Please see page 157



3000 psi

0300	Flange Size	Bolt Type Metric	Bolt Type UNC
FH3001	1/2"	M8 x 25	5/16" x 1.1/4"
FH3002	3/4"	M10 x 30	3/8" x 1.1/4"
FH3003	1"	M10 x 30	3/8" x 1.1/4"
FH3004	1.1/4"	M10 x 35	7/16" x 1.1/2"
FH3005	1.1/2"	M12 x 35	1/2" x 1.1/2"
FH3006	2"	M12 x 35	1/2" x 1.1/2"
FH3007	2.1/2"	M12 x 40	1/2" x 1.1/2"
FH3011	5"	M16 x 50	5/8" x 2"

Tech Sheet 1626

6000 psi

0300	Flange Size	Bolt Type Metric	Bolt Type UNC
FH6001	1/2"	M8 x 30	5/16" x 1.1/4"
FH6002	3/4"	M10 x 35	3/8" x 1.1/2"
FH6003	1"	M12 x 45	-
FH6013	1"	-	7/16" x 1.1/4"
FH6004	1.1/4"	M14 x 50	-
FH6044	1.1/4"	-	1/2" x 1.3/4"
FH6005	1.1/2"	M16 x 55	5/8" x 2"
FH6006	2"	M20 x 65	3/4" x 2.1/2"

Tech Sheet 1626

90° Threaded Flanges

Bolts, washers and O-Rings are not included and must be purchased separately
Please see page 157



3000 psi, BSPP

0300	Flange Size	Thread	Bolt Typ Metric	Bolt Type UNC
AFS080/90G-038	1/2"	3/8"	M8 x 30	5/16" x 1.1/4"
AFS100/90G	3/4"	3/4"	M10 x 35	3/8" x 1.1/2"
AFS102/90G	1"	1"	M10 x 35	3/8" x 1.1/2"
AFS104/90G	1.1/4"	1.1/4"	M10 x 35	3/8" x 1.1/2"
AFS106/90G	1.1/2"	1.1/2"	M12 x 45	1/2" x 1.3/4"
AFS/90G	2"	2"	M12 x 45	1/2" x 1.3/4"

Tech Sheet 1628

6000 psi, BSPP

0300	Flange Size	Thread	Bolt Type Metric	Bolt Type UNC
AFS401/90G-038	1/2"	3/8"	M8 x 30	5/16" x 1.1/4"
AFS401/90G-012	1/2"	1/2"	M8 x 30	5/16" x 1.1/4"
AFS402/90G	3/4"	3/4"	M10 x 35	3/8" x 1.1/2"
AFS403/90G	1"	1"	M12 x 45	7/16" x 1.3/4"
AFS405/90G	1.1/2"	1.1/2"	M16 x 50	5/8" x 2"
AFS406/90G	2"	2"	M20 x 110	-

Tech Sheet 1628

**Code Information: AFS = Flange with O-Ring Groove
GF = Flange with Flat Face**





Threaded Flanges

Bolts, washers and O-Rings are not included and must be purchased separately
Please see page 157



3000 psi, BSPP

0300	Flange Size	Thread	Bolt Type Metric	Bolt Type UNC
AFS080G-038	1/2"	3/8"	M8 x 30	5/16" x 1.1/4"
AFS080G	1/2"	1/2"	M8 x 30	5/16" x 1.1/4"
AFS100G-012	3/4"	1/2"	M10 x 35	3/8" x 1.1/2"
AFS100G	3/4"	3/4"	M10 x 35	3/8" x 1.1/2"
AFS102G-012	1"	1/2"	M10 x 35	3/8" x 1.1/2"
AFS102G-034	1"	3/4"	M10 x 35	3/8" x 1.1/2"
AFS102G	1"	1"	M10 x 35	3/8" x 1.1/2"
AFS104G-034	1.1/4"	3/4"	M10 x 40	7/16" x 1.1/2"
AFS104G-100	1.1/4"	1"	M10 x 40	7/16" x 1.3/4"
AFS104G	1.1/4"	1.1/4"	M10 x 40	7/16" x 1.1/2"
AFS106G-034	1.1/2"	3/4"	M12 x 45	1/2" x 1.3/4"
AFS106G-100	1.1/2"	1"	M12 x 45	1/2" x 1.3/4"
AFS106G-114	1.1/2"	1.1/4"	M12 x 45	1/2" x 1.3/4"
AFS106G	1.1/2"	1.1/2"	M12 x 45	1/2" x 1.3/4"
AFS108G-100	2"	1"	M12 x 45	1/2" x 1.3/4"
AFS108G-114	2"	1.1/4"	M12 x 45	1/2" x 1.3/4"
AFS108G-112	2"	1.1/2"	M12 x 45	1/2" x 1.3/4"
AFS108G	2"	2"	M12 x 45	1/2" x 1.3/4"
AFS110G-200	2.1/2"	2"	M12 x 45	1/2" x 1.3/4"
AFS110G	2.1/2"	2.1/2"	M12 x 45	1/2" x 1.3/4"
AFS112G-212	3"	2.1/2"	M16 x 50	5/8" x 2"
AFS112G	3"	3"	M16 x 50	5/8" x 2"
AFS114G-300	3.1/2"	3"	M16 x 50	5/8" x 2"
AFS114G	3.1/2"	3.1/2"	M16 x 50	5/8" x 2"
AFS116G-312	4"	3.1/2"	M16 x 50	5/8" x 2"
AFS116G	4"	4"	M16 x 50	5/8" x 2"

Tech Sheet 1629

6000 psi, BSPP

0300	Flange Size	Thread	Bolt Type Metric	Bolt Type UNC
AFS401G-038	1/2"	3/8"	M8 x 30	5/16" x 1.1/4"
AFS401G-012	1/2"	1/2"	M8 x 30	5/16" x 1.1/4"
AFS402G-012	3/4"	1/2"	M10 x 35	3/8" x 1.1/2"
AFS402G	3/4"	3/4"	M10 x 35	3/8" x 1.1/2"
AFS403G-034	1"	3/4"	M12 x 45	7/16" x 1.3/4"
AFS403G	1"	1"	M12 x 45	7/16" x 1.3/4"
AFS404G-100	1.1/4"	1"	M14 x 45	1/2" x 1.3/4"
AFS404G	1.1/4"	1.1/4"	M14 x 45	1/2" x 1.3/4"
AFS405G-114	1.1/2"	1.1/4"	M16 x 50	5/8" x 2"
AFS405G	1.1/2"	1.1/2"	M16 x 50	5/8" x 2"
AFS406G-112	2"	1.1/2"	M20 x 65	3/4" x 2.1/2"
AFS406G	2"	2"	M20 x 65	3/4" x 2.1/2"

Tech Sheet 1629

3000 psi, NPT

0300	Flange Size	Thread	Bolt Type Metric	Bolt Type UNC
AFS080N-038	1/2"	3/8"	M8 x 30	5/16" x 1.1/4"
AFS080N	1/2"	1/2"	M8 x 30	5/16" x 1.1/4"
AFS100N-012	3/4"	1/2"	M10 x 35	3/8" x 1.1/2"
AFS102N-034	1"	3/4"	M10 x 35	3/8" x 1.1/2"
AFS102N	1"	1"	M10 x 35	3/8" x 1.1/2"
AFS104N-100	1.1/4"	1"	M10 x 40	7/16" x 1.1/2"
AFS104N	1.1/4"	1.1/4"	M10 x 40	7/16" x 1.1/2"
AFS106N-114	1.1/2"	1.1/4"	M12 x 45	1/2" x 1.3/4"
AFS106N	1.1/2"	1.1/2"	M12 x 45	1/2" x 1.3/4"
AFS108N-112	2"	1.1/2"	M12 x 45	1/2" x 1.3/4"
AFS108N	2"	2"	M12 x 45	1/2" x 1.3/4"
AFS110N	2.1/2"	2.1/2"	M12 x 45	1/2" x 1.3/4"
AFS112N	3"	3"	M16 x 50	5/8" x 2"
AFS114N	3.1/2"	3.1/2"	M16 x 50	5/8" x 2"
AFS116N	4"	4"	M16 x 50	5/8" x 2"

Tech Sheet 1629

6000 psi, NPT

0300	Flange Size	Thread	Bolt Type Metric	Bolt Type UNC
AFS401N-038	1/2"	3/8"	M8 x 30	5/16" x 1.1/4"
AFS401N-012	1/2"	1/2"	M8 x 30	5/16" x 1.1/4"
AFS402N-012	3/4"	1/2"	M10 x 35	3/8" x 1.1/2"
AFS402N	3/4"	3/4"	M10 x 35	3/8" x 1.1/2"
AFS403N-034	1"	3/4"	M12 x 45	7/16" x 1.3/4"
AFS403N	1"	1"	M12 x 45	7/16" x 1.3/4"
AFS404N-100	1.1/4"	1"	M14 x 45	1/2" x 1.3/4"
AFS405N-114	1.1/2"	1.1/4"	M16 x 50	5/8" x 2"
AFS405N	1.1/2"	1.1/2"	M16 x 50	5/8" x 2"
AFS406N-112	2"	1.1/2"	M20 x 65	3/4" x 2.1/2"
AFS406N	2"	2"	M20 x 65	3/4" x 2.1/2"

Tech Sheet 1629

Code Information: AFS = Flange with O-Ring Groove GFS = Flange with Flat Face



Threaded Flanges-Companion (Counter)

Bolts, washers and O-Rings are not included and must be purchased separately
Please see page 157



3000 psi, BSPP, Metric Mount

0300	Flange Size	Thread	Bolt Type Metric
GFS080GM-038	1/2"	3/8"	M8
GFS080GM	1/2"	1/2"	M8
GFS100GM-012	3/4"	1/2"	M10
GFS100GM	3/4"	3/4"	M10
GFS102GM-034	1"	3/4"	M10
GFS102GM	1"	1"	M10
GFS104GM-100	1.1/4"	1"	M10
GFS104GM	1.1/4"	1.1/4"	M10
GFS106GM-114	1.1/2"	1.1/4"	M12
GFS106GM	1.1/2"	1.1/2"	M12
GFS108GM-112	2"	1.1/2"	M12
GFS108GM	2"	2"	M12
GFS110GM-200	2.1/2"	2"	M12
GFS110GM	2.1/2"	2.1/2"	M12
GFS112GM-212	3"	2.1/2"	M16
GFS112GM	3"	3"	M16
GFS114GM-300	3.1/2"	3"	M16
GFS114GM	3.1/2"	3.1/2"	M16
GFS116GM-312	4"	3.1/2"	M16
GFS116GM	4"	4"	M16

Tech Sheet 1631

6000 psi, BSPP, Metric Mount

0300	Flange Size	Thread	Bolt Type Metric
GFS401GM-038	1/2"	3/8"	M8
GFS401GM-012	1/2"	1/2"	M8
GFS402GM-012	3/4"	1/2"	M10
GFS402GM	3/4"	3/4"	M10
GFS403GM	1"	1"	M12
GFS404GM-100	1.1/4"	1"	M14
GFS404GM	1.1/4"	1.1/4"	M14
GFS405GM-114	1.1/2"	1.1/4"	M16
GFS405GM	1.1/2"	1.1/2"	M16
GFS406GM-112	2"	1.1/2"	M20
GFS406GM	2"	2"	M20

Tech Sheet 1631

3000 psi, BSPP, UNC Mount

0300	Flange Size	Thread	Bolt Type Metric
GFS080GU-038	1/2"	3/8"	5/16"
GFS100GU-012	3/4"	1/2"	3/8"
GFS100GU	3/4"	3/4"	3/8"
GFS102GU-034	1"	3/4"	3/8"
GFS102GU	1"	1"	3/8"
GFS104GU-100	1.1/4"	1"	7/16"
GFS104GU	1.1/4"	1.1/4"	7/16"
GFS106GU-114	1.1/2"	1.1/4"	1/2"
GFS106GU	1.1/2"	1.1/2"	1/2"
GFS108GU-112	2"	1.1/2"	1/2"
GFS108GU	2"	2"	1/2"
GFS110GU-200	2.1/2"	2"	1/2"
GFS110GU	2.1/2"	2.1/2"	1/2"
GFS112GU-212	3"	2.1/2"	5/8"
GFS112GU	3"	3"	5/8"
GFS114GU-300	3.1/2"	3"	5/8"
GFS114GU	3.1/2"	3.1/2"	5/8"
GFS116GU-312	4"	3.1/2"	5/8"
GFS116GU	4"	4"	5/8"

Tech Sheet 1631

6000 psi, BSPP, UNC Mount

0300	Flange Size	Thread	Bolt Type Metric
GFS401GU-038	1/2"	3/8"	1/2"
GFS401GU-012	1/2"	1/2"	5/16"
GFS402GU-012	3/4"	1/2"	3/8"
GFS402GU	3/4"	3/4"	3/8"
GFS403GU	1"	1"	7/16"
GFS404GU-100	1.1/4"	1"	1/2"
GFS404GU	1.1/4"	1.1/4"	1/2"
GFS405GU-114	1.1/2"	1.1/4"	5/8"
GFS405GU	1.1/2"	1.1/2"	5/8"
GFS406GU-112	2"	1.1/2"	3/4"
GFS406GU	2"	2"	3/4"

Tech Sheet 1631

Socket Weld Flanges

Bolts, washers and O-Rings are not included and must be purchased separately
Please see page 157



3000 psi, Metric Mount

0300	Flange Size	Boss Weld Diameter	Bolt Type Metric
GFS080SM-038	1/2"	17.5	M8
GFS080SM-A20	1/2"	20.3	M8
GFS080SM	1/2"	21.6	M8
GFS100SM-A25	3/4"	25.3	M10
GFS100SM	3/4"	27.2	M10
GFS102SM-A30	1"	30.3	M10
GFS102SM	1"	34	M10
GFS104SM-A38	1.1/4"	38.3	M10
GFS104SM	1.1/4"	42.8	M10
GFS106SM	1.1/2"	48.6	M12
GFS106SM-A50	1.1/2"	50.5	M12
GFS108S	2"	61	M12
GFS110SM	2.1/2"	76.6	M12
GFS112SM	3"	90.5	M16
GFS114SM	3.1/2"	103	M16
GFS116SM	4"	115.5	M16

Tech Sheet 1632

3000 psi, UNC Mount

0300	Flange Size	Boss Weld Diameter	Bolt Type Metric
GFS080SU-038	1/2"	17.5	5/16"
GFS080SU-A20	1/2"	20.3	5/16"
GFS080SU	1/2"	21.6	5/16"
GFS100SU-A25	3/4"	25.3	3/8"
GFS100SU	3/4"	27.2	3/8"
GFS102SU-A30	1"	30.3	3/8"
GFS102SU	1"	34	3/8"
GFS104SU-A38	1.1/4"	38.3	7/16"
GFS104SU	1.1/4"	42.8	7/16"
GFS106SU	1.1/2"	48.6	1/2"
GFS106SU-A50	1.1/2"	50.5	1/2"
GFS108SU	2"	61	1/2"
GFS110SU	2.1/2"	76.6	1/2"
GFS112SU	3"	90.5	5/8"
GFS114SU	3.1/2"	103	5/8"
GFS116SU	4"	115.5	5/8"

Tech Sheet 1632

6000 psi, Metric Mount

0300	Flange Size	Boss Weld Diameter	Bolt Type Metric
GFS401SM-038	1/2"	17.5	M8
GFS401SM-A20	1/2"	20.3	M8
GFS401SM-012	1/2"	21.6	M8
GFS402SM-A25	3/4"	25.3	M10
GFS402SM	3/4"	27.2	M10
GFS403SM-A30	1"	30.3	M12
GFS403SM	1"	34	M12
GFS404SM-A38	1.1/4"	38.3	M14
GFS404SM	1.1/4"	42.8	M14
GFS405SM	1.1/2"	48.6	M16
GFS405SM-A50	1.1/2"	50.5	M16
GFS406SM	1.1/2"	61	M20
GFS407SM	2.1/2"	76.6	M24

Tech Sheet 1632

6000 psi, UNC Mount

0300	Flange Size	Boss Weld Diameter	Bolt Type Metric
GFS401SU-038	1/2"	17.5	5/16"
GFS401SU-A20	1/2"	20.3	5/16"
GFS401SU-012	1/2"	21.6	5/16"
GFS402SU-A25	3/4"	25.3	3/8"
GFS402SU	3/4"	27.2	3/8"
GFS403SU-A30	1"	30.3	7/16"
GFS403SU	1"	34	7/16"
GFS404SU-A38	1.1/4"	38.3	1/2"
GFS404SU	1.1/4"	42.8	1/2"
GFS405SU	1.1/2"	48.6	5/8"
GFS405SU-A50	1.1/2"	50.5	5/8"
GFS406SU	1.1/2"	61	3/4"

Tech Sheet 1632

Socket Weld Flanges

Bolts, washers and O-Rings are not included and must be purchased separately
Please see page 157

3000 psi

0300	Flange Size	Boss Weld Diameter	Bolt Type Metric	Bolt Type UNC
AFS080S-038	1/2"	17.5	M8 x 30	5/16" x 1.1/4"
AFS080S-A20	1/2"	20.3	M8 x 30	5/16" x 1.1/4"
AFS080S	1/2"	21.6	M8 x 30	5/16" x 1.1/4"
AFS100S-A25	3/4"	25.3	M10 x 35	3/8" x 1.1/2"
AFS100S	3/4"	27.2	M10 x 35	3/8" x 1.1/2"
AFS102S-A30	1"	30.3	M10 x 35	3/8" x 1.1/2"
AFS102S	1"	34	M10 x 35	3/8" x 1.1/2"
AFS104S-A38	1.1/4"	38.3	M10 x 40	7/16" x 1.1/2"
AFS106S	1.1/2"	48.6	M12 x 45	1/2" x 1.3/4"
AFS106S-A50	1.1/2"	50.5	M12 x 45	1/2" x 1.3/4"
AFS108S	2"	61	M12 x 45	1/2" x 1.3/4"
AFS110S	2.1/2"	76.6	M12 x 45	1/2" x 1.3/4"
AFS114S	3.1/2"	103	M16 x 50	5/8" x 2"
AFS116S	4"	115.5	M16 x 50	5/8" x 2"

Tech Sheet 1633

6000 psi

0300	Flange Size	Boss Weld Diameter	Bolt Type Metric	Bolt Type UNC
AFS401S-038	1/2"	17.5	M8 x 30	5/16" x 1.1/4"
AFS401S-A20	1/2"	20.3	M8 x 30	5/16" x 1.1/4"
AFS401S-012	1/2"	21.6	M8 x 30	5/16" x 1.1/4"
AFS402S-A25	3/4"	25.3	M10 x 35	3/8" x 1.1/2"
AFS402S	3/4"	27.2	M10 x 35	3/8" x 1.1/2"
AFS403S-A30	1"	30.3	M12 x 45	7/16" x 1.3/4"
AFS403S	1"	34	M12 x 45	7/16" x 1.3/4"
AFS404S-A38	1.1/4"	38.3	M14 x 45	1/2" x 1.3/4"
AFS404S	1.1/4"	42.8	M14 x 45	1/2" x 1.3/4"
AFS405S	1.1/2"	48.6	M16 x 50	5/8" x 2"
AFS405S-A50	1.1/2"	50.5	M16 x 50	5/8" x 2"
AFS406S	2"	61	M20 x 65	3/4" x 2.1/2"

Tech Sheet 1633



SAE FLANGES



Socket Weld Flanges 90°

Bolts, washers and O-Rings are not included and must be purchased separately
Please see page 157



3000 psi, Metric

0300	Flange Size	Boss Weld Diameter	Bolt Type Metric	Bolt Type UNC
AFS080/90S-038	1/2"	17.5	M8 x 30	5/16" x 1.1/4"
AFS080/90S	1/2"	21.6	M8 x 30	5/16" x 1.1/4"
AFS100/90S	3/4"	27.2	M10 x 35	3/8" x 1.1/2"
AFS106/90S	1.1/2"	48.6	M12 x 45	7/16" x 1.3/4"

Tech Sheet 1634

6000 psi, Metric

0300	Flange Size	Boss Weld Diameter	Bolt Type Metric	Bolt Type UNC
AFS401/90S-038	1/2"	17.5	M8 x 30	5/16" x 1.1/4"
AFS401/90S-012	1/2"	21.6	M8 x 30	5/16" x 1.1/4"
AFS402/90S	3/4"	27.2	M10 x 35	3/8" x 1.1/2"
AFS403/90S	1"	34	M12 x 45	7/16" x 1.3/4"
AFS404/90S	1.1/4"	42.8	M14 x 50	1/2" x 1.3/4"
AFS405/90S	1.1/2"	48.6	M16 x 50	5/8" x 2"
AFS406/90S	2"	61	M20 x 110	-

Tech Sheet 1634

Butt Weld Flanges

Bolts, washers and O-Rings are not included and must be purchased separately
Please see page 157



3000 psi

0300	Flange Size	Boss Weld Diameter	Bolt Type Metric	Bolt Type UNC
AFS080ST-038	1/2"	17.5	M8 x 30	5/16" x 1.1/4"
AFS080ST	1/2"	21.5	M8 x 30	5/16" x 1.1/4"
AFS100ST	3/4"	28	M10 x 35	3/8" x 1.1/2"
AFS102ST	1"	34	M10 x 35	3/8" x 1.1/2"
AFS104ST	1.1/4"	42.8	M10 x 40	7/16" x 1.1/2"
AFS106ST	1.1/2"	48.6	M12 x 45	1/2" x 1.3/4"
AFS108ST	2"	61	M12 x 45	1/2" x 1.3/4"
AFS110ST	2.1/2"	77	M12 x 45	1/2" x 1.3/4"
AFS112ST	3"	92	M16 x 50	5/8" x 2"
AFS114ST	3.1/2"	103	M16 x 50	5/8" x 2"
AFS116ST	4"	115.5	M16 x 50	5/8" x 2"

Tech Sheet 1635

6000 psi

0300	Flange Size	Boss Weld Diameter	Bolt Type Metric	Bolt Type UNC
AFS401ST-038	1/2"	17.5	M8 x 30	5/16" x 1.1/4"
AFS401ST-012	1/2"	21.5	M8 x 30	5/16" x 1.1/4"
AFS402ST	3/4"	28	M10 x 35	3/8" x 1.1/2"
AFS403ST	1"	34	M12 x 45	7/16" x 1.3/4"
AFS404ST	1.1/4"	42.8	M14 x 45	1/2" x 1.3/4"
AFS405ST	1.1/2"	48.6	M16 x 50	5/8" x 2"
AFS406ST	2"	61	M20 x 65	3/4" x 2.1/2"

Tech Sheet 1635

Butt Weld Flanges 90°

Bolts, washers and O-Rings are not included and must be purchased separately
Please see page 157



3000 psi

0300	Flange Size	Boss Weld Diameter	Bolt Type Metric	Bore Size mm
AFS200/90ST	3/4"	27	M10 x 40	27
AFS202/90ST	1"	34.5	M10 x 45	34.5
AFS204/90ST	1.1/4"	43	M10 x 45	43
AFS206/90ST	1.1/2"	50	M12 x 50	50
AFS208/90ST	2"	65	M12 x 70	65

Tech Sheet 1636

6000 psi

0300	Flange Size	Boss Weld Diameter	Bolt Type Metric	Bore Size mm
AFS700/90ST	3/4"	28	M10 x 35	28
AFS702/90ST	1"	34	M12 x 45	34
AFS704/90ST	1.1/4"	42	M14 x 50	42
AFS706/90ST	1.1/2"	48	M16 x 50	48
AFS708/90ST	2"	65	M20 x 110	65

Tech Sheet 1636

**Code Information: AFS = Flange with O-Ring Groove
GFS = Flange with Flat Face**



Butt Weld Flanges-Companion (Counter)

Bolts, washers and O-Rings are not included
and must be purchased separately

Please see page 157



3000 psi, Metric Mount

0300	Flange Size	Boss Weld Diameter	Bolt Type Metric
GFS080STM-038	1/2"	17.5	M8
GFS080STM	1/2"	21.5	M8
GFS100STM	3/4"	28	M10
GFS102STM	1"	34	M10
GFS104STM	1.1/4"	42.8	M10
GFS106STM	1.1/2"	48.6	M12
GFS108STM	2"	61	M12
GFS110STM	2.1/2"	77	M12
GFS112STM	3"	92	M16
GFS114STM	3.1/2"	103	M16
GFS116STM	4"	115.5	M16

Tech Sheet 1637

6000 psi, Metric Mount

0300	Flange Size	Boss Weld Diameter	Bolt Type Metric
GFS401STM-038	1/2"	17.5	M8
GFS401STM-012	1/2"	21.5	M8
GFS402STM	3/4"	28	M10
GFS403STM	1"	34	M12
GFS404STM	1.1/4"	42.8	M14
GFS405STM	1.1/2"	48.6	M16
GFS406STM	2"	61	M20

Tech Sheet 1637

3000 psi, UNC Mount

0300	Flange Size	Boss Weld Diameter	Bolt Type UNC
GFS080STU-038	1/2"	17.5	5/16"
GFS080STU	1/2"	21.5	5/16"
GFS100STU	3/4"	28	3/8"
GFS102STU	1"	34	3/8"
GFS104STU	1.1/4"	42.8	7/16"
GFS106STU	1.1/2"	48.6	1/2"
GFS108STU	2"	61	1/2"
GFS110STU	2.1/2"	77	1/2"
GFS112STU	3"	92	5/8"
GFS114STU	3.1/2"	103	5/8"
GFS116STU	4"	115.5	5/8"

Tech Sheet 1637

6000 psi, UNC Mount

0300	Flange Size	Boss Weld Diameter	Bolt Type UNC
GFS401STU-038	1/2"	17.5	5/16"
GFS401STU-012	1/2"	21.5	5/16"
GFS402STU	3/4"	28	3/8"
GFS403STU	1"	34	7/16"
GFS404STU	1.1/4"	42.8	1/2"
GFS405STU	1.1/2"	48.6	5/8"
GFS406STU	2"	61	3/4"

Tech Sheet 1637

Code Information: AFS = Flange with O-Ring Groove GFS = Flange with Flat Face

SAE FLANGES

Socket Weld Coupling Set

Bolts, washers and O-Rings included



3000 psi, Metric Mount

0300	Flange Size	Boss Weld Diameter	Bolt Type Metric
DFS080SM-038	1/2"	17.5	M8
DFS080SM-A20	1/2"	20.3	M8
DFS080SM	1/2"	21.6	M8
DFS100SM-A25	3/4"	25.3	M10
DFS100SM	3/4"	27.2	M10
DFS102SM-A30	1"	30.3	M10
DFS102SM	1"	34	M10
DFS104SM-A38	1.1/4"	38.3	M10
DFS104SM	1.1/4"	42.8	M10
DFS106SM	1.1/2"	48.6	M12
DFS106SM-A50	1.1/2"	50.5	M12
DFS108SM	2"	61	M12
DFS110SM	2.1/2"	76.6	M12
DFS112SM	3"	90.5	M16
DFS114SM	3.1/2"	103	M16
DFS116SM	4"	115.5	M16

Tech Sheet 1638

3000 psi, UNC Mount

0300	Flange Size	Boss Weld Diameter	Bolt Type UNC
DFS080SU-038	1/2"	17.5	5/16"
DFS080SU-A20	1/2"	20.3	5/16"
DFS080SU	1/2"	21.6	5/16"
DFS100SU-A25	3/4"	25.3	3/8"
DFS100SU	3/4"	27.2	3/8"
DFS102SU-A30	1"	30.3	3/8"
DFS102SU	1"	34	3/8"
DFS104SU-A38	1.1/4"	38.3	7/16"
DFS104SU	1.1/4"	42.8	7/16"
DFS106SU	1.1/2"	48.6	1/2"
DFS106SU-A50	1.1/2"	50.5	1/2"
DFS108SU	2"	61	1/2"
DFS110SU	2.1/2"	76.6	1/2"
DFS112SU	3"	90.5	5/8"
DFS114SU	3.1/2"	103	5/8"
DFS116SU	4"	115.5	5/8"

Tech Sheet 1638

6000 psi, Metric Mount

0300	Flange Size	Boss Weld Diameter	Bolt Type Metric
DFS401SM-038	1/2"	17.5	M8
DFS401SM-A20	1/2"	20.3	M8
DFS401SM-012	1/2"	21.6	M8
DFS402SM-A25	3/4"	25.3	M10
DFS402SM	3/4"	27.2	M10
DFS403SM-A30	1"	30.3	M10
DFS403SM	1"	34	M10
DFS404SM-A38	1.1/4"	38.3	M10
DFS404SM	1.1/4"	42.8	M10
DFS405SM	1.1/2"	48.6	M12
DFS405SM-A50	1.1/2"	50.5	M12
DFS406SM	2"	61	M12

Tech Sheet 1638

6000 psi, UNC Mount

0300	Flange Size	Boss Weld Diameter	Bolt Type UNC
DFS401SU-038	1/2"	17.5	5/16"
DFS401SU-A20	1/2"	20.3	5/16"
DFS401SU-012	1/2"	21.6	5/16"
DFS402SU-A25	3/4"	25.3	3/8"
DFS402SU	3/4"	27.2	3/8"
DFS403SU-A30	1"	30.3	3/8"
DFS403SU	1"	34	3/8"
DFS404SU-A38	1.1/4"	38.3	7/16"
DFS404SU	1.1/4"	42.8	7/16"
DFS405SU	1.1/2"	48.6	1/2"
DFS405SU-A50	1.1/2"	50.5	1/2"
DFS406SU	2"	61	1/2"

Tech Sheet 1638

Bolts & Spring Washers

Metric, Set of 4

0300	Thread
M8X25	M8 x 25
M8X30	M8 x 30
M10X30	M10 x 30
M10X35	M10 x 35
M10X40	M10 x 40
M10X45	M10 x 45
M12X35	M12 x 35
M12X45	M12 x 45
M12X50	M12 x 50
M12X70	M12 x 70
M14X45	M14 x 45
M14X50	M14 x 50
M16X55	M16 x 55
M20X60	M20 x 60
M20X65	M20 x 65
M20X70	M20 x 70
M20X110	M20 x 110



UNC, Set of 4

0300	Thread
UNC3/8X11/4	3/8" x 1.1/4"
UNC3/8X11/2	3/8" x 1.1/2"
UNC7/16X11/2	7/16" x 1.1/2"
UNC7/16X13/4	7/16" x 1.3/4"
UNC1/2X13/4	1/2" x 1.3/4"
UNC1/2X11/2	1/2" x 1.1/2"
UNC5/8X2	5/8" x 2"
UNC5/16X11/4	5/16" x 1.1/4"
UNC3/4X21/2	3/4" x 2.1/2"

O-Rings



Buna

0300	Size
1/2-ORING	1/2"
3/4-ORING	3/4"
1-ORING	1"
11/4-ORING	1.1/4"
11/2-ORING	1.1/2"
2-ORING	2"
21/2-ORING	2.1/2"
3-ORING	3"
31/2-ORING	3.1/2"
4-ORING	4"
5-ORING	5"

Tech Sheet 1639



HYDRAULIC SEALS



Self Centering Bonded Seals

Standard Bonded Seals (Not Self Centering)

Fibre Washers

Washers

Bonded Seals

O-Rings

Flaretite

SAE Flange Seals

ORFS Seal Kit

CAT Flange Seals

Splicing Kit

Seal Kits



HYDRAULIC SEALS

Self Centering Bonded Seals



Mild Steel, Nitrile, to suit BSPP Threads

1000	To Suit
BS-18	1/8"
BS-14	1/4"
BS-38	3/8"
BS-12	1/2"
BS-34	3/4"
BS-1	1"
BS-114	1.1/4"
BS-112	1.1/2"
BS-2	2"

Tech Sheet 10513

Mild Steel, Viton, to suit BSPP Threads

1000	To Suit
BSV-18	1/8"
BSV-14	1/4"
BSV-38	3/8"
BSV-12	1/2"
BSV-58	5/8"
BSV-34	3/4"
BSV-1	1"
BSV-114	1.1/4"
BSV-112	1.1/2"
BSV-2	2"

Tech Sheet 10513

316 Stainless Steel, Nitrile

1000	To Suit
BS-18N	1/8"
BS-14N	1/4"
BS-38N	3/8"
BS-12N	1/2"
BS-34N	3/4"
BS-1N	1"
BS-114N	1.1/4"
BS-112N	1.1/2"
BS-2N	2"

Tech Sheet 10513

316 Stainless Steel, Viton

1000	To Suit
BS-14V	1/4"
BS-38V	3/8"
BS-12V	1/2"
BS-34V	3/4"
BS-1V	1"
BS-112V	1.1/2"

Tech Sheet 10513

Mild Steel, Nitrile, to suit Metric Threads

1000	To Suit
BS-M8	M8
BS-M10	M10
BS-M12	M12
BS-M14	M14
BS-M16	M16
BS-M18	M18
BS-M22	M22

Standard Bonded Seals (Not Self Centering)



Mild Steel, Nitrile, to suit JIC/UNF Thread Form

1000	To Suit
BS-14JIC	1/4"
BS-516JIC	5/16"
BS-716JIC	7/16"
BS-12JIC	1/2"
BS-916JIC	9/16"
BS-58JIC	5/8"
BS-1116JIC	11/16"
BS-34JIC	3/4"
BS-1516JIC	15/16"
BS-1-116JIC	1.1/16"
BS-1-18JIC	1.1/8"
BS-1-14JIC	1.1/4"

Tech Sheet 10513

Mild Steel, Nitrile, to suit JIC/UNF Thread Form

1000	To Suit
BS-6BA	6BA
BS-4BA	4BA
BS-2BA	2BA

Fibre Washers



1000	To Suit
FW5M	M5
FW18	1/8"
FW14	1/4"
FW38	3/8"
FW12	1/2"
FW34	3/4"
FW1	1"
FW114	1.1/4"
FW112	1.1/2"
FW2	2"

Tech Sheet 20357

2 HYDRAULIC SEALS



Washers



Flat Copper Washer, Metric

1300	BSPP Male Thread	OD ID x Thickness
CWM8	M8	11 x 8 x 0.9
CWM10	M10	16 x 10 x 1
CWM12	M12	16 x 12 x 1
CWM14	M14	18 x 14 x 1
CWM16	M16	20 x 16 x 1.5
CWM18	M18	24 x 18 x 1.5
CWM22	M22	27 x 22 x 1.75



Copper Washers for BSPP Stud Ends

1300	Male Thread	Female Thread
CW18	1/8"	3/8"
CW14	1/4"	1/2"
CW38	3/8"	3/4"
CW12	1/2"	7/8"
CW34	3/4"	-
CW1	1"	-
CW114	1.1/4"	-
CW112	1.1/2"	-
CW2	2"	-

Tech Sheet 20358



Nylon, Notched

1030	Thread
D11X-5M	M5
D11X-6M	M6
D11X-1/8	1/8"
D11X-1/4	1/4"
D11X-3/8	3/8"
D11X-1/2	1/2"
D11X-3/4	3/4"

Tech Sheet 10705

Bonded Seals



Stainless Steel, Nitrile, to suit Metric Threads

1000	To Suit
SSBSM04N	M4
SSBSM06N	M6
SSBSM08N	M8
SSBSM10N	M10
SSBSM12N	M12
SSBSM14N	M14
SSBSM16N	M16
SSBSM20N	M20



You might also need **Glycerine Gauges**
see pages **271-275**





HYDRAULIC SEALS

O-Rings



Imperial O-Rings, Nitrile 70 Shore, Per Pack of 100

1000	ID	Wall Thickness Imperial
ORING-BS006N	1/8"	0.07
ORING-BS007N	5/32"	0.07
ORING-BS008N	3/16"	0.07
ORING-BS009N	7/32"	0.07
ORING-BS010N	1/4"	0.07
ORING-BS011N	5/16"	0.07
ORING-BS012N	3/8"	0.07
ORING-BS110N	3/8"	0.103
ORING-BS111N	7/16"	0.103
ORING-BS112N	1/2"	0.103
ORING-BS113N	9/16"	0.103
ORING-BS114N	5/8"	0.103
ORING-BS115N	11/16"	0.103
ORING-BS116N	3/4"	0.103
ORING-BS210N	3/4"	0.139
ORING-BS211N	13/16"	0.139
ORING-BS212N	7/8"	0.139
ORING-BS213N	15/16"	0.139
ORING-BS214N	1"	0.139
ORING-BS215N	1.1/16"	0.139
ORING-BS216N	1.1/8"	0.139
ORING-BS217N	1.3/16"	0.139
ORING-BS218N	1.1/4"	0.139
ORING-BS219N	1.5/16"	0.139
ORING-BS220N	1.3/8"	0.139
ORING-BS221N	1.7/16"	0.139
ORING-BS222N	1.1/2"	0.139
ORING-BS325N	1.1/2"	0.21
ORING-BS326N	1.5/8"	0.21
ORING-BS327N	1.3/4"	0.21

Imperial O-Rings, Viton 75 Shore, Per Pack of 100

1000	ID	Wall Thickness Imperial
ORING-BS006V	1/8"	0.07
ORING-BS008V	3/16"	0.07
ORING-BS009V	7/32"	0.07
ORING-BS010V	1/4"	0.07
ORING-BS011V	5/16"	0.07
ORING-BS012V	3/8"	0.07
ORING-BS110V	3/8"	0.103
ORING-BS112V	1/2"	0.103
ORING-BS116V	3/4"	0.103
ORING-BS211V	13/16"	0.139
ORING-BS212V	7/8"	0.139
ORING-BS218V	1.1/4"	0.139
ORING-BS221V	1.7/16"	0.139

Metric O-Rings, Nitrile 70 Shore, Per Pack of 100

1000	ID mm	Wall Thickness mm
M-3X2	3	2
M-4X2	4	2
M-5X2	5	2
M-6X2	6	2
M-7X2	7	2
M-8X2	8	2
M-10X2	10	2
M-10X2.5	10	2.5
M-11X2.5	11	2.5
M-12X2.5	12	2.5
M-14X2.5	14	2.5
M-16X2.5	16	2.5
M-17X2.5	17	2.5
M-19X2.5	19	2.5
M-19X3	19	3
M-20X3	20	3
M-22X3	22	3
M-24X3	24	3
M-25X3	25	3
M-27X3	27	3
M-28X3	28	3
M-30X3	30	3
M-32X3	32	3
M-33X3	33	3
M-35X3	35	3
M-36X3	36	3
M-38X3	38	3
M-38X4	38	4
M-41X4	41	4
M-44X4	44	4

Flaretite



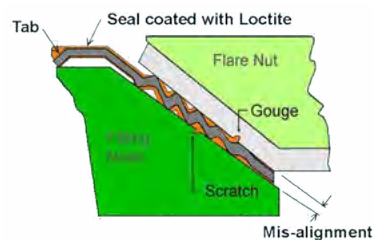
The Flaretite Seal is a metal stamping, designed with multiple, concentric sealing rings.

The entire seal is coated with a **dry-to-the-touch**, baked-on Loctite™ sealant. When inserted into a fitting, the concentric rings form multiple seals down the face of the flare, while the Loctite™ coating fills minor imperfections, dramatically increasing the integrity of the fitting. New ISO and NFPA standards strongly recommend seals for all fittings.

- Fits all standard JIC/SAE/JIS flare fittings, hydraulic and pneumatic
- Has a **user-friendly tab to clip the seal** onto the fitting
- **Protects against weeping** on new and damaged fittings
- Creates a perfect **leak-free clip-on seal, guaranteed**
- Complies with latest international standards

Other seals available on request.

Working Temperature:
-40°C to +150°C



Flaretite Seal Installed

Flaretite 304 Stainless Steel, JIC 37°

0266	JIC Thread
FF13267	7/16"
FF13268	9/16"
FF13269	3/4"
FF13270	7/8"
FF13271	1.1/16"
FF13272	1.5/16"
FF13273	1.5/8"
FF13570	1.7/8"
FF13571	2.1/2"

Tech Sheet 20353

For JIC Adaptors
see page 111

HYDRAULIC SEALS



SAE Flange Seals

Designed to fit the SAE J518 location grooves. Made from high performance grade of polyurethane, the material provides excellent resistance-to-gap extrusion. Covers a wide temperature range from -40°C to +110°C at pressures up to 400 bar.

Contents:

10 x 1/2"
10 x 3/4"
10 x 1"
10 x 1.1/4"
10 x 1.1/2"
10 x 2"



1000	No. of Parts	Type
SAE-KIT01	60	SAE Flange
Tech Sheet 68214		

ORFS Seal Kit

O-Ring face seal kit to suit ORFS male fittings.

Material: Nitrile

Contents:

50 x 9/16"
50 x 11/16"
30 x 13/16"
30 x 1"
30 x 1.3/16
20 x 1.7/16"
20 x 1.11/16"



1000	No. of Parts	Type
ORFS-KIT01	230	ORFS
Tech Sheet 68215		

Seal Kits



Assorted Bonded Seals

1000	No. of Parts	Type
BSK-1	140	Imperial
BSK-2	140	Metric
Tech Sheet 20372		

CAT Flange Seals

CAT D-Rings provide a high pressure seal between flange and port face on CAT hose assemblies. Can be used in conjunction with CAT XT-5 and XT-6 type flanges.

Material: Nitrile

Contents:

10 x 3/4"
10 x 1"
10 x 1.1/4"
10 x 1.1/2"
10 x 2"



1000	No. of Parts	Type
CAT-KIT01	50	CAT Flange
Tech Sheet 68216		

Splicing Kit

Ideal for repairing or replacing damaged O-Ring seals.

Material: Nitrile

Contents:

14 x standard sizes of O-Ring cord
1 x tape measure
1 x cutting block (for butt or scarf joins)
1 x cutting knife
1 x tube glue

Rubber Cord:

2 metres of each size:
1.78, 2, 2.4, 2.62, 3, 3.53, 4, 4.5, 5, 5.33, 5.7, 6, 7 and 8mm.



O-Ring Splicing Kit

1000	No. of Parts	Type
SPLICING-KIT01		
Tech Sheet 68213		



Assorted O-Rings

1000	No. of Parts	Type
IOK-1	382	Imperial
MOK-1	404	Metric
Tech Sheet 20373		





PLASTIC CAPS & PLUGS

SR 1077 Threaded Fitting Plugs

- Knurled head for easy application
- Ideal for sealing 37° flare fittings



Red LDPE, UNF Thread

0307	Thread
110228	5/16"
110177	3/8"
110178	7/16"
110179	1/2"
110180	9/16"
110181	5/8"
110182	3/4"
110183	7/8"
110184	1.1/16"

SR 1002 Threaded Protection Plugs

- Easy to grip head
- Thread ensures secure fit
- Excellent protection from dirt, moisture and corrosion
- Widely used in hydraulic, pneumatic and general engineering industries



Red LDPE, UNF/JIC Thread

0307	Thread
10692	3/8"
10763	7/16"
10696	1/2"
10668	9/16"
10940	5/8"
10575	3/4"
12827	13/16"
10326	7/8"
12785	1"
10460	1.1/16"
11506	1.3/16"
10671	1.5/16"
11752	1.5/8"
11755	1.7/8"

Red LDPE, Metric Thread

0307	Thread
12011	M8 x 1
12012	M10 x 1
12013	M12 x 1
12017	M12 x 1.5
12018	M14 x 1.5
12019	M16 x 1.5
10458	M18 x 1.5
12020	M20 x 1.5
10128	M22 x 1.5
12021	M24 x 1.5
12022	M25 x 1.5
12023	M26 x 1.5

Red LDPE, BSP/Gas

0307	Thread
10651	1/8" x 28
10588	1/4" x 19
10996	3/8" x 19
10590	1/2" x 14
10511	5/8" x 14
10731	3/4" x 14
10810	1" x 11
10459	1.1/4" x 11
11242	1.1/2" x 11

SR 1018 Threaded Protection Caps

- Used throughout the automotive, fluid power and engineering industries
- Protect threaded components from dust, moisture and damage



Red LDPE, UNF/JIC Thread

0307	Thread
10251	3/8"
12652	7/16"
10332	7/16"
10528	1/2"
11041	9/16"
10653	5/18"
12847	3/4"
11089	7/8"
12075	7/8"
12826	1"
10685	1.1/16"
10163	1.3/16"
10151	1.5/16"

Red LDPE, Metric Thread

0307	Thread
12100	M8 x 1
12101	M10 x 1
12102	M12 x 1
12103	M12 x 1.5
12104	M14 x 1.5
12650	M14 x 1.5
12105	M16 x 1.5
12651	M15 x 1.5
12106	M18 x 1.5
12107	M20 x 1.5
12845	M22 x 1.5
12109	M24 x 1.5
12110	M25 x 1.5
12967	M28 x 1.5
12122	M30 x 2
12123	M36 x 2
12124	M42 x 2
12126	M52 x 2

Red LDPE, BSP/Gas

0307	Thread
10392	1/8" x 28
10559	1/4" x 19
10104	3/8" x 19
10198	1/2" x 14
11157	5/8" x 14
10205	3/4" x 14
10204	1" x 11
10167	1.1/4" x 11
10432	1.1/2" x 11
10968	2" x 11



SR 1000 Tapered Caps/Plugs

- Use as cap or plug
- Easy fitting and removal
- Provide excellent protection from damage, dirt, moisture and corrosion during storage and transport



Red LDPE

0307	To Suit Hose ID	To Suit Hose OD
10991	6.1	4.4
10727	7.6	6.2
10549	9.1	7.7
10289	10	8.4
10750	11.8	10
10114	12.3	10.9
10438	15.3	13.6
10342	16	14.2
10424	17	14.7
11139	18.3	16.4
10394	20	17.8
10136	26.4	23.4
10732	27.7	24.7
10272	32.6	30
10181	37.2	33.3
10491	40.6	36.9
10485	42.7	39.6

SR 1125 O-Ring Threaded Plugs

- Can be applied by spanner, screwdriver or socket; manually or with power tool



Yellow HDPE, Metric Thread

0307	Thread
467087	M8 x 1
467088	M10 x 1
467089	M12 x 1
467090	M10 x 1.5
467091	M12 x 1.5
467092	M14 x 1.5
467093	M16 x 1.5
467094	M18 x 1.5
467095	M20 x 1.5
467096	M22 x 1.5

Yellow HDPE, UNF Thread

0307	Thread
467114	3/8" x 24
467115	7/16" x 20
467116	1/2" x 20
467117	9/16" x 18
467118	5/8" x 18
467119	3/4" x 16
467120	7/8" x 14
467121	1" x 14

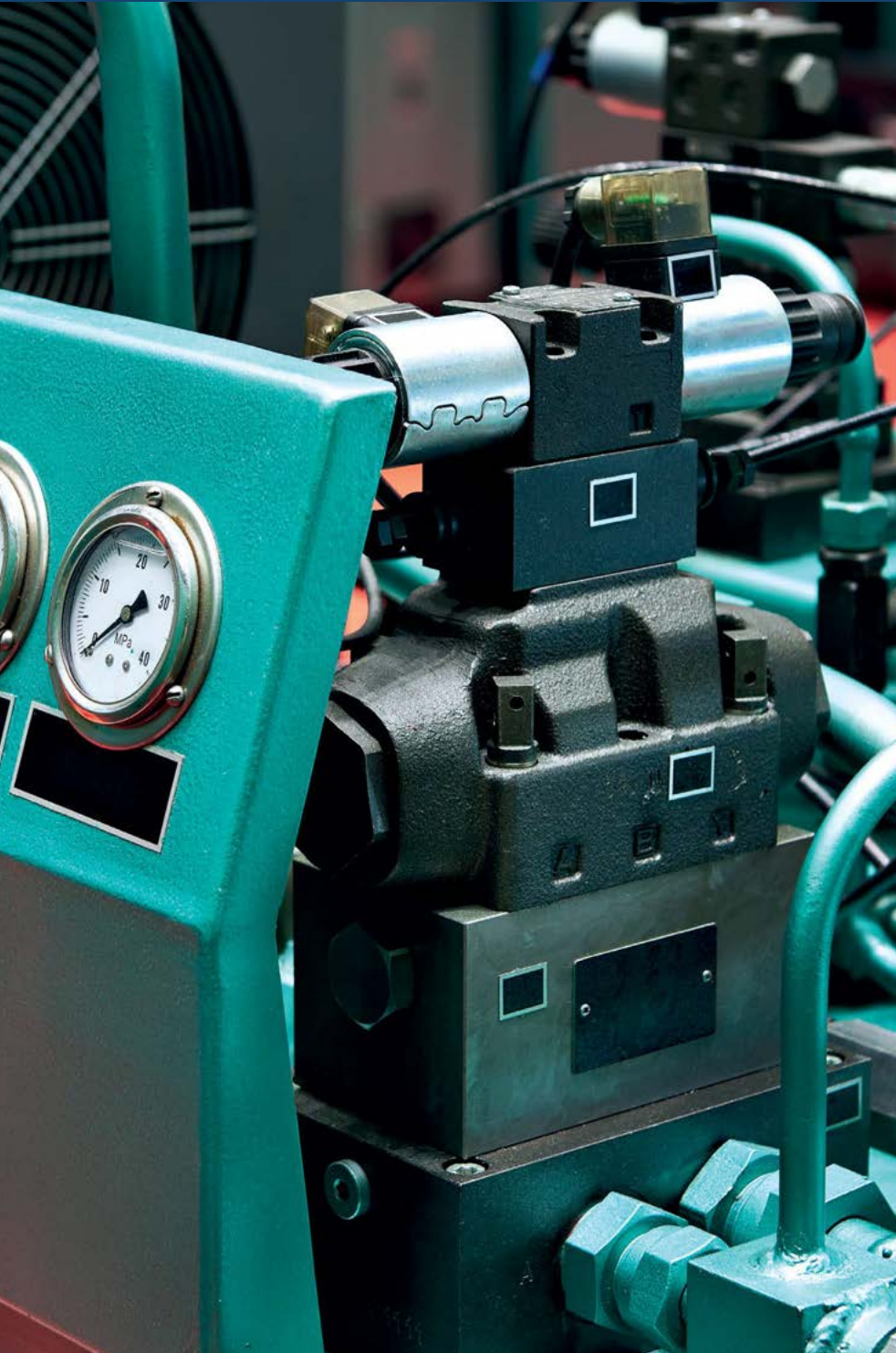
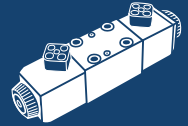
Yellow HDPE, BSP Thread

0307	Thread
467127	1/8" x 28
467128	1/4" x 19
467129	3/8" x 19
467130	1/2" x 14
467131	5/8" x 14
467133	7/8" x 14
467134	1" x 11



SECTION 3

Valves & Pumps



- Hydraulic Piston Pumps
- Hydraulic Vane Pumps
- Solenoid Operated Directional Valves
- Hydraulic Hand Pumps
- Hydraulic Gear Pumps
- Hydraulic Ball Valves
- Hydraulic Control Valves
- Stainless Steel Hydraulic Ball Valves
- Actuation Hydraulic Valves
- Monoblock Hydraulic Valves
- Hydraulic Accumulators & Accessories
- Hydraulic Cooling Equipment
- Anti-vibration Mounts

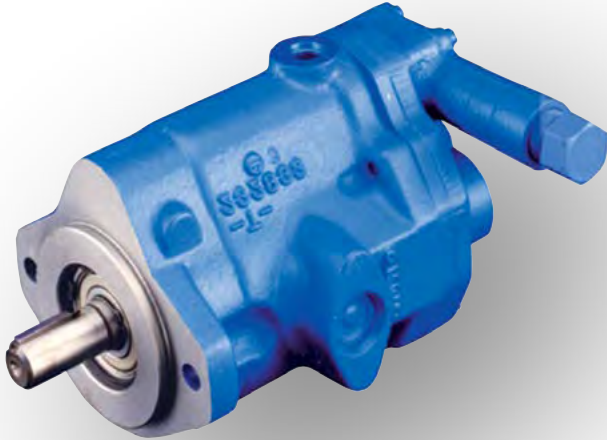
Amera Cetop 3 & 5 Manifold Blocks & Auxiliary Plates	188
Amera Cetop 3 & 5 System Stack Valves	187
Amera Directional Cetop 3 Valves	183-184
Amera Directional Cetop 5 Valves	185-186
Anti-vibration Levelling Feet & Buffers	216
Anti-vibration Mounts & Bobbins	215
Bowman Complete Water Cooler Spares	214
Bowman EC, FC & FG Series Complete Water Coolers	213
Eaton Vickers Cetop 3 System Stack Valves	175
Eaton Vickers Cetop 5 System Stack Valves	180
Eaton Vickers Directional Cetop 3 Valves	172-174
Eaton Vickers Directional Cetop 5 Valves	177-179
Eaton Vickers Piston Pumps	168
Eaton Vickers Replacement Coils & Accessories	181
Eaton Vickers Vane Pumps & Accessories	169-170
Hand Operated Pumps	190-191
Hydraulic Ball Valves	194-197

Hydraulic Diverter Valves & Gauge Isolation Valves	202
Hydraulic Gear Pumps	192
Hydraulic Gear Pump Accessories	193
Hydraulic Needle Valves	198
LHA Needle Valves & Check Valves	201
MHA Ball Valves & Needle Valves	200
Monoblock Valves	206-208
Parker Cetop 3 & 5 Valves & Accessories	189
Parker Olaer Compact Water/Oil Coolers	212
Parker Olaer Hydra-Cushions, Bladder Kits, Thermoswitches & Accessories	210
Parker Olaer Hydraulic Accumulators & Accessories	209
Parker Olaer Hydraulic Oil Coolers	211
Stainless Steel Hydraulic Ball Valves	199
Threaded Hydraulic Valves	203-205
Type P81 & P81RS Log Splitter Valves	208

V10 and PVQ Piston Pumps



EATON



Attributes that Go On and On: Reliable, Quiet, Compact, Long Life, Serviceable...

1. Vane Motors

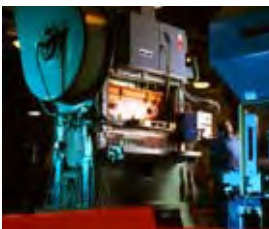
The cartridge kit design makes for uptime and easy serviceability. Additionally, a low break out force smooths out the start-up speed allowing for vane motors to be more forgiving to system pressure spikes. Vane motors offer an efficient and economical means of applying variable speed, rotary hydraulic power and offer variable horsepower (constant torque). They can be stalled under load without damage when protected by a relief valve.

Applications: Plastic injection molding and conveyors.

2. VMQ Pumps

The Vickers VMQ is the world leader in pressure capacity and noise levels and is available in a complete range of singles, doubles, triples and thru-drives. The unique wafer plate design of the VMQ allows for the increase in viscosity and pressure rise during cold start-up-something that competitors do not have.

Applications: Winches, oil field and drilling equipment, earth moving and construction equipment, die casting, molding machines, press machines, trash compactors, balers and primary metals.





Q Series Piston Pump

210 bar, SAE A Flange, Keyed Shaft

3017	Displacement cc/rev	Manufacturer's Code
02-341576	10.5	PVQ10 AZR SE1S 20 C21 12
Tech Sheet 10045		

140 bar, SAE A 2 Bolt Flange, Keyed Shaft

3017	Displacement cc/rev	Manufacturer's Code
02-341644	13.8	PVQ13 AZR SE1S 20 C14 12
Tech Sheet 10045		

210 bar, SAE B 2 Bolt Flange, Keyed Shaft

3017	Displacement cc/rev	Manufacturer's Code
02-341552	21.1	PVQ20 B2R SE1S 21 C21 12
Tech Sheet 10045		

140 bar, SAE B 2 Bolt Flange, Keyed Shaft

3017	Displacement cc/rev	Manufacturer's Code
02-341685	32.9	PVQ32 B2R SE1S 21 C14 12
Tech Sheet 10045		

210 bar, SAE B 2 Bolt Flange, Keyed Shaft

3017	Displacement cc/rev	Manufacturer's Code
02-341949	41.0	PVQ40AR01AB01AB10G2100000100100CDOA
Tech Sheet 10045		

Q Series Piston Pump Compensator

Standard Compensator

3017	To Suit
9900224-003	PVQ10, 13, 20, 32
02-348260	PVQ40
Tech Sheet 10045	

CM Low Pressure Compensator

3017	To Suit
9900224-002	PVQ10,13,20,32
02-348259	PVQ40
Tech Sheet 10045	

CG Hydraulic Remote Compensator

3017	To Suit
02-348243	PVQ10,13,20,32,40
Tech Sheet 10045	

C**V**B Load Sensing Compensator

3017	To Suit
02-466861	PVQ10,13,20,32
Tech Sheet 10045	

Q Series Piston Pump Stroke Adjustment Kit

Maximum Stop/Stroke Limiter

3017	To Suit
5986572-001	PVQ10,13
5986574-001	PVQ20,32
5986576-001	PVQ40
Tech Sheet 10045	

Q Series Piston Pump Seal Kits

Standard Buna Material

3017	To Suit
919191	PVQ10,13
919682	PVQ20,32
920227	PVQ40
Tech Sheet 10045	

Other options available, contact us with your requirements



V10 Series

SAE A 2 Bolt Mounting, Keyed Shaft, BSPP Ports

3017	Displacement cc/rev	Max Pressure Bar	Manufacturer's Code
708371-C	6.60	172	V10 1B2B 1C 20
708784-C	9.80	172	V10 1B3B 1C 20
708785-C	13.10	172	V10 1B4B 1C 20
708219-C	16.40	172	V10 1B5B 1C 20
708786-C	19.50	152	V10 1B6B 1C 20
708787-C	22.80	138	V10 1B7B 1C 20

Tech Sheet 10095

V20 Series

SAE A 2 Bolt Mounting, Keyed Shaft, BSPP Ports

3017	Displacement cc/rev	Max Pressure Bar	Manufacturer's Code
707277-C	19.5	172	V20 1B6B 1C 11 EN1000
708397-C	22.80	172	V20 1B7B 1C 11 EN1000
706996-C	26.5	172	V20 1B8B 1C 11 EN1000
707278-C	29.7	172	V20 1B9B 1C 11 EN1000
706997-C	36.40	172	V20 1B11B 1C 11 EN1000
708398-C	39.0	152	V20 1B12B 1C 11 EN1000
706998-C	42.4	152	V20 1B13B 1C 11 EN1000

Tech Sheet 10095

25V Series

SAE B 2 Bolt Mounting, Keyed Shaft, SAE Flanged Ports

3017	Displacement cc/rev	Max Pressure Bar	Manufacturer's Code
02-137109-CR	39	172	25V 12A 1C 22R
02-137110-CR	45	172	25V 14A 1C 22R
02-137113-CR	55	172	25V 17A 1C 22R
02-137117-CR	67	172	25V 21A 1C 22R

Tech Sheet 10097

35V Series

SAE C 2 Bolt Mounting, Keyed Shaft, SAE Flanged Ports

3017	Displacement cc/rev	Max Pressure Bar	Manufacturer's Code
02-137124-CR	81	172	35V 25A 1C 22R
02-137126-CR	97	172	35V 30A 1C 22R
02-137129-CR	112	172	35V 35A 1C 22R
02-137132-CR	121	172	35V 38A 1C 22R

Tech Sheet 10097

45V Series

SAE C 2 Bolt Mounting, Keyed Shaft, SAE Flanged Ports

3017	Displacement cc/rev	Max Pressure Bar	Manufacturer's Code
02-137140-CR	138	172	45V 42A 1C 22R
02-137144-CR	162	172	45V 50A 1C 22R
02-137146-CR	193	172	45V 60A 1C 22R

Tech Sheet 10097

Other options available, contact us with your requirements

Replacement Parts



V10 Cartridge Kits

3017	Displacement cc/rev	To Suit
923471	3.3	V10 1G Cartridge Kit
923470	6.6	V10 2G Cartridge Kit
923496	9.8	V10 3G Cartridge Kit
923469	13.10	V10 4G Cartridge Kit
923468	16.40	V10 5G Cartridge Kit
923497	19.5	V10 6G Cartridge Kit
923498	22.80	V10 7G Cartridge Kit

V20 Cartridge Kits

3017	Displacement cc/rev	To Suit
02-137560	19.5	V20 6G Cartridge Kit
02-137561	22.80	V20 7G Cartridge Kit
02-137562	26.5	V20 8G Cartridge Kit
02-137563	29.7	V20 9G Cartridge Kit
02-137565	36.40	V20 11G Cartridge Kit
02-137566	39.0	V20 12G Cartridge Kit
02-137567	42.4	V20 13G Cartridge Kit

25V Cartridge Kits

3017	Displacement cc/rev	To Suit
02-102532	39	25V 12G Cartridge Kit
02-102533	45	25V 14G Cartridge Kit
02-102534	55	25V 17G Cartridge Kit
02-102535	67	25V 21G Cartridge Kit

35V Cartridge Kits

3017	Displacement cc/rev	To Suit
02-102552	81	35V 25G Cartridge Kit
02-102553	97	35V 30G Cartridge Kit
02-102554	112	35V 35G Cartridge Kit
02-102555	121	35V 38G Cartridge Kit

45V Cartridge Kits

3017	Displacement cc/rev	To Suit
02-102572	138	45V 42G Cartridge Kit
02-102574	162	45V 50G Cartridge Kit
02-102575	193	45V 60G Cartridge Kit



Shafts

3017	To Suit
238929	25V No. 11 Splined Shaft
242287	35V No. 11 Splined Shaft
242885	45V No. 11 Splined Shaft
392669	35V No. 86 HD Keyed Shaft
361760	45V No. 86 HD Keyed Shaft
393536	Key to suit 392669
239751	Key to suit 361760



Seal Kits

3017	To Suit
923548	V10 Standard Seal Kit
919772	V10 F3 Seal Kit
922733	V20 Standard Seal Kit
919805	V20 F3 Seal Kit
922850	25V Standard Seal Kit
919656	25V F3 Seal Kit
922851	35V Standard Seal Kit
919262	35V F3 Seal Kit
919850	45V Standard Seal Kit
919632	45V F3 Seal Kit

Other options available, contact us with your requirements



Solenoid Operated Directional Valve DG4V-3-60 Design

General Description

Solenoid operated directional control valves are for directing and stopping flow at any point in a hydraulic system.

- Efficient control of greater hydraulic powers without increasing solenoid power consumption.
- Installed cost and space savings from higher power/weight-and-size ratios.
- Installation flexibility resulting from choice of numerous combinations of solenoid connectors and locations.
- Viton seals as standard for multi-fluid capability. Nitrile seals available as a model code option.
- Higher sustained machine productivity and higher uptime because of proven fatigue life and endurance, tested over 20 million cycles.
- Solenoid coils can be changed quickly and easily without leakage from hydraulic system.
- Compact, cost effective system design when used with Eaton® SystemStak™ valves and subplates.

DG4V3-S/R- High Performance and Standard Performance Valves

- Minimum pressure drop 2.5 bar at 30 l/min
- Range of coil connectors including DIN, Deutsch, AMP and terminal box
- Range of coil voltages and power options
- Up to 80 l/min (21 USgpm) and up to 40 l/min (10.5 USgpm) respectively at 350 bar (5000 psi).
- Offers designers the opportunity to select the optimum value package for each application.
- International standard interface. The valve mounting face conforms to ISO 4401, size 03 and is compatible with related international standards.

CETOP 3 Single Solenoid Directional Control Valves

Max flow rates up to 80 L/min.

Mounting interface.

ISO 4401 Size 3.

ANSI/B93.7M Size 3.

CETOP RP6SH Size 3.

DIN 24340 (NG6).

Temperature Limits:

Min -20°C (-4°F)

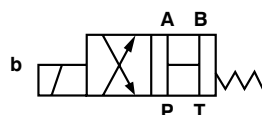
Max +70°C (+150°F)

Working Temperature:

-20°C (-4°F) to +70°C (+150°F)

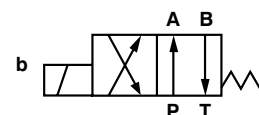
Maximum Working Pressure:

350 bar (5075 psi)



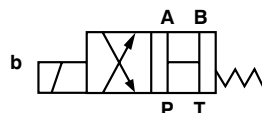
2 Position, All Ports Open, Spring Offset End to Centre

3019	Voltage	Manufacturer's Code
859160	24V DC	DG4V 3 0B M U H7 60
859195	110V AC	DG4V 3 0B M U A6 60
Tech Sheet 3111		



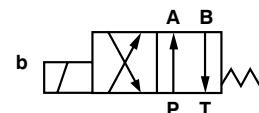
2 Position, Spring Offset End to End

3019	Voltage	Manufacturer's Code
529762	24V DC	DG4V 3 2A M U H7 60
529763	110V AC	DG4V 3 2A M U A6 60
Tech Sheet 3111		



2 Position, All Ports Open, Spring Offset End to Centre, Water Resistant Override

3019	Voltage	Manufacturer's Code
869951	12V DC	DG4V 3 0B H M U G7 60
870804	24V DC	DG4V 3 0B H M U H7 60
Tech Sheet 3111		



2 Position, Spring Offset End to End, Water Resistant Override

3019	Voltage	Manufacturer's Code
869959	12V DC	DG4V 3 2A H M U G7 60
870221	24V DC	DG4V 3 2A H M U H7 60
871358	110/120V 50/60Hz	DG4V 3 2A H M U B6 60
871505	220/240V 50/60Hz	DG4V 3 2A H M U D6 60
Tech Sheet 3111		

Other voltages are available. Please contact our Business Development Team for more details.

HYDRAULIC DIRECTIONAL CONTROL VALVES



3



CETOP 3 Double Solenoid Directional Control Valves

Max flow rates up to 80 L/min.
 Mounting interface.
 ISO 4401 Size 3.
 ANSI/B93.7M Size 3.
 CETOP RP6SH Size 3.
 DIN 24340 (NG6).

Temperature Limits:

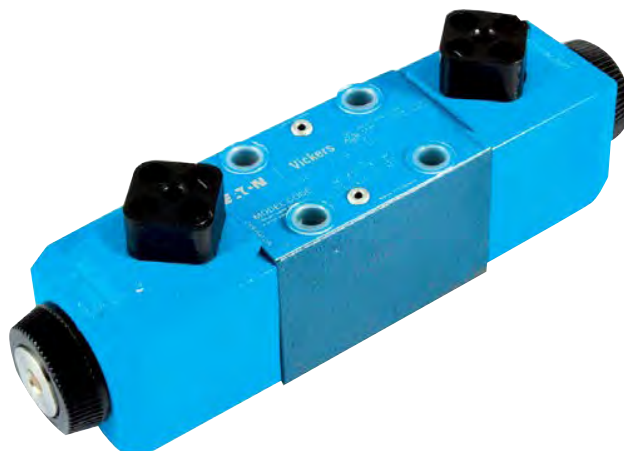
Min -20°C (-4°F)
 Max +70°C (+150°F)

Working Temperature:

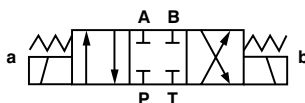
-20°C (-4°F) to +70°C (+150°F)

Maximum Working Pressure:

350 bar (5075 psi)



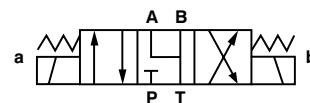
Valves & Pumps



3 Position, All Ports Closed, Spring Centred

3019	Voltage	Manufacturer's Code
529761	110V AC	DG4V 3 2C M U A6 60

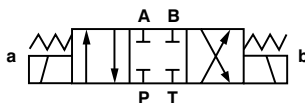
Tech Sheet 3111



3 Position, A, B & T Connected, Spring Centred

3019	Voltage	Manufacturer's Code
565465	24V DC	DG4V 3 6C M U H7 60
859177	110V AC	DG4V 3 6C M U A6 60

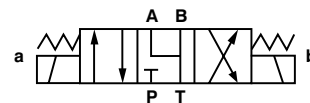
Tech Sheet 3111



3 Position, All Ports Closed, Spring Centred, Water Resistant Override

3019	Voltage	Manufacturer's Code
859172	220/240V	DG4V 3 2C H M U D6 60
870177	24V DC	DG4V 3 2C H M U H7 60
870378	12V DC	DG4V 3 2C H M U G7 60

Tech Sheet 3111



3 Position, A, B & T Connected, Spring Centred, Water Resistant Override

3019	Voltage	Manufacturer's Code
869952	12V DC	DG4V 3 6C H M U G7 60
869953	24V DC	DG4V 3 6C H M U H7 60
02-146111	110/120V 50/60Hz	DG4V 3 6C H M U B6 60

Tech Sheet 3111

Other voltages are available. Please contact our Business Development Team for more details.

CETOP 3 Double Solenoid Directional Control Valves

Max flow rates up to 80 L/min.

Mounting interface.

ISO 4401 Size 3.

ANSI/B93.7M Size 3.

CETOP RP6SH Size 3.

DIN 24340 (NG6).

Temperature Limits:

Min -20°C (-4°F)

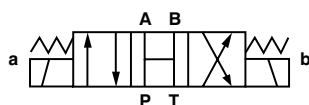
Max +70°C (+150°F)

Working Temperature:

-20°C (-4°F) to +70°C (+150°F)

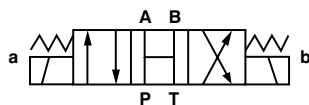
Maximum Working Pressure:

350 bar (5075 psi)



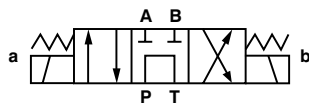
3 Position, All Ports Open, Spring Centred

3019	Voltage	Manufacturer's Code
859197	110V AC	DG4V 3 0C M U A6 60
Tech Sheet 3111		



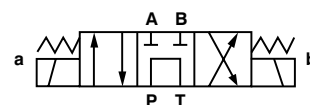
3 Position, All Ports Open, Spring Centred, Water Resistant Override

3019	Voltage	Manufacturer's Code
869960	24V DC	DG4V 3 0C H M U H7 60
870518	12V DC	DG4V 3 0C H M U G7 60
Tech Sheet 3111		



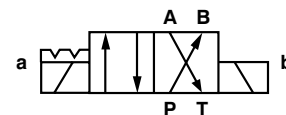
P & T Connected, A & B Blocked, Spring Centred

3019	Voltage	Manufacturer's Code
02-144961	110V AC	DG4V 3 8C VM U A6 61
02-145162	24V DC	DG4V 3 8C VM U H7 61
Tech Sheet 3111		



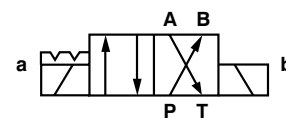
P & T Connected, A & B Blocked, Spring Centred, Water Resistant Override

3019	Voltage	Manufacturer's Code
02-353298	110/120V 50/60Hz	DG4V 3 8C H VM U B6 61
Tech Sheet 3111		



2 Position, Detented

3019	Voltage	Manufacturer's Code
529764	24V DC	DG4V 3 2N M U H7 60
529765	110V AC	DG4V 3 2N M U A6 60
Tech Sheet 3111		



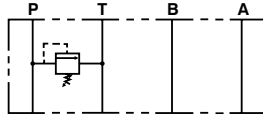
2 Position, Detented, Water Resistant Override

3019	Voltage	Manufacturer's Code
02-139074	24V DC	DG4V 3 2N H M U H7 60
Tech Sheet 3111		

Other voltages are available. Please contact our Business Development Team for more details.

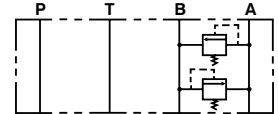


CETOP 3 Modules



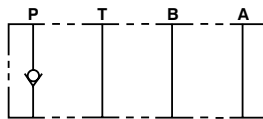
Single Line Relief Valves

3019	Pressure Range Bar	Manufacturer's Code
694419	10-200	DGMC 3 PT CW 41
869641	50-315	DGMC 3 PT GW 41
Tech Sheet 3111		



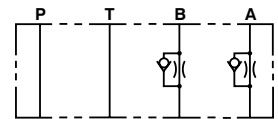
Dual Line Relief Valve

3019	Pressure Range Bar	Manufacturer's Code
869628	10-200	DGMC2 3 AB CW BA CW 41
Tech Sheet 3111		



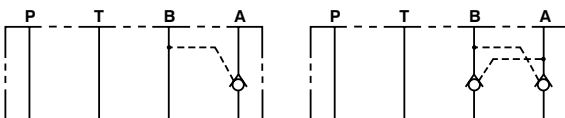
Direct Operated Check Valve

3019	Manufacturer's Code
694415	DGMDC 3 Y PK 41
Tech Sheet 3111	



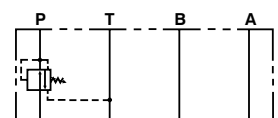
Flow Restrictors

3019	Description	Manufacturer's Code
694414	A & B Meter In	DGMFN 3 X A2W B2W 41
694412	A & B Meter Out	DGMFN 3 Y A2W B2W 41
870043	P Line	DGMFN 3 Z P2W 41
Tech Sheet 3111		



Pilot Operated Check Valves

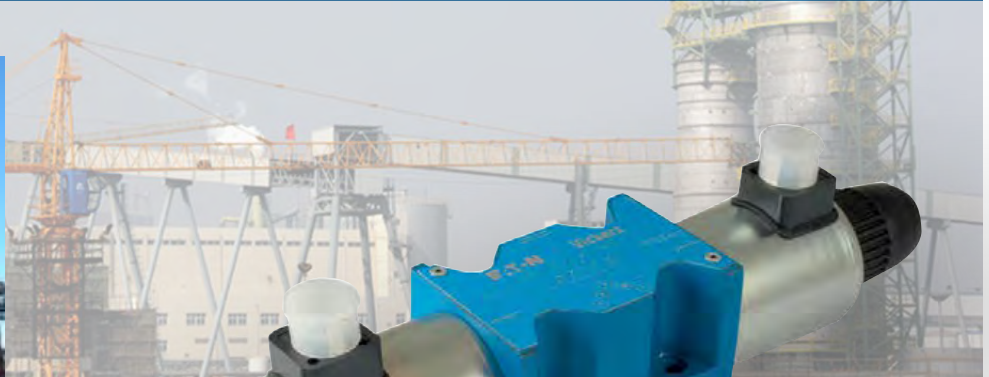
3019	Description	Manufacturer's Code
870024	Single	DGMPC 3 ABK 41
694400	Double	DGMPC 3 ABK BAK 41
Tech Sheet 3111		



Pressure Reducing Valves

3019	Pressure Range Bar	Manufacturer's Code
870036	3.5-70	DGMX2 3 PP BW B 40
870038	20-250	DGMX2 3 PP FW B 40
Tech Sheet 3111		

Cetop 5 Valves



Solenoid Operated Directional Valve DG4V-5-20 Design

General Description

A range of four-port solenoid operated directional control valves with four-land spool design to facilitate provision of smooth, variable valve response speeds.

The range includes:

- AC and DC wet-armature solenoid options with ISO 4400 (DIN 43650) electrical connections and manual overrides.
- Variable speed changeover potential in all DC models; see "Response Times" section.
- Many spool types; in spring-offset, spring centred and detented arrangements.
- Compact, cost effective system design when used with Eaton® SystemStak™ valves and subplates.

HYDRAULIC DIRECTIONAL CONTROL VALVES



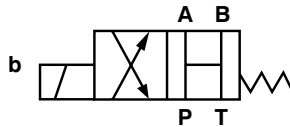
CETOP 5 Single Solenoid Directional Control Valves

Max flow rates up to 120 L/min.
 Mounting interface.
 ISO 4401 Size 5.
 NFPA D02
 DIN 24340 (NG10).

Temperature Limits:
 Min -20°C (-4°F)
 Max +70°C (+150°F)

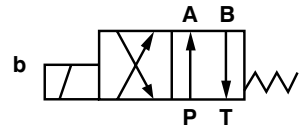
Working Temperature:
 -20°C (-4°F) to +70°C (+150°F)

Maximum Working Pressure:
 350 bar (5075 psi)



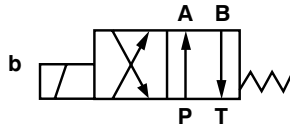
2 Position, All Ports Open, Spring Offset End to Centre

3019	Voltage	Manufacturer's Code
459215	110V AC	DG4V 5 0B M U A6 20
Tech Sheet 3112		



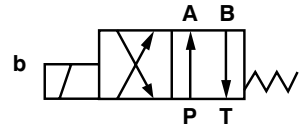
2 Position, Spring Offset End to End, Water Resistant Override

3019	Voltage	Manufacturer's Code
529678	24V DC	DG4V 5 2AJ H M U H6 20
Tech Sheet 3112		



2 Position, Spring Offset End to End, Notched Spool

3019	Voltage	Manufacturer's Code
616768	24V DC	DG4V 5 2AJ M U H6 20
Tech Sheet 3112		

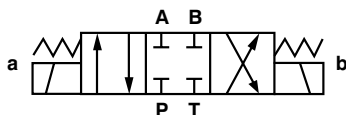
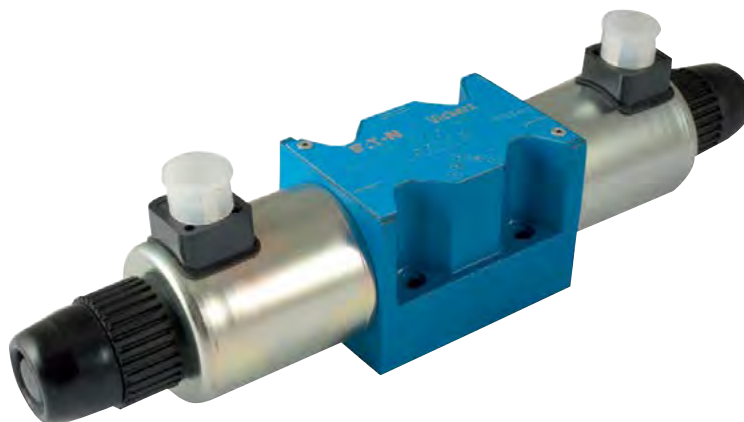


2 Position, Spring Offset End to End

3019	Voltage	Manufacturer's Code
616769	110V AC	DG4V 5 2A M U A6 20
Tech Sheet 3112		

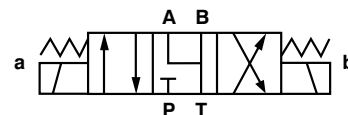
Other voltages are available. Please contact our Business Development Team for more details.

CETOP 5 Double Solenoid Directional Control Valves

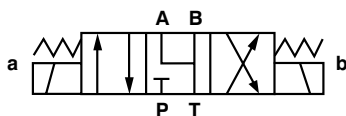


All Ports Closed, Spring Centred

3019	Voltage	Manufacturer's Code
616776	24V DC	DG4V 5 2CJ M U H6 20
616777	110V AC	DG4V 5 2C M U A6 20
Tech Sheet 3112		

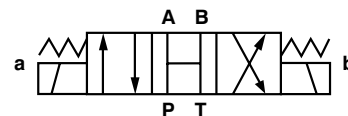
A & B to T, P Blocked, Spring Centred,
Water Resistant Override

3019	Voltage	Manufacturer's Code
529677	24V DC	DG4V 5 6CJ H M U H6 20
Tech Sheet 3112		



A & B to T, P Blocked, Spring Centred

3019	Voltage	Manufacturer's Code
616780	24V DC	DG4V 5 6CJ M U H6 20
616781	110V AC	DG4V 5 6C M U A6 20
Tech Sheet 3112		



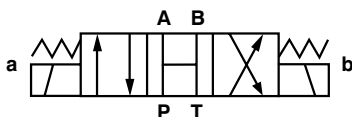
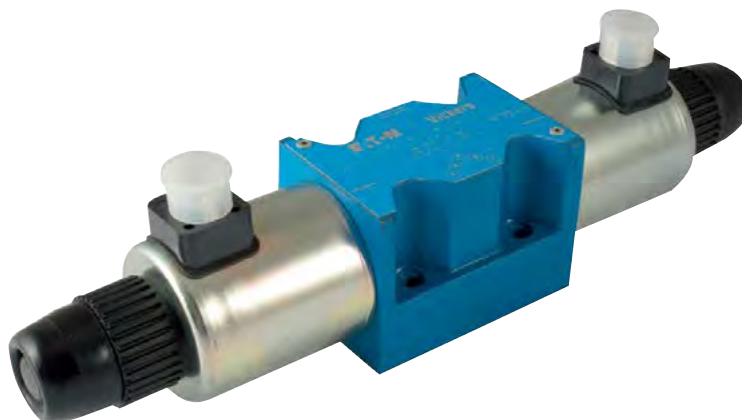
All Ports Open, Spring Centred

3019	Voltage	Manufacturer's Code
616788	24V DC	DG4V 5 0CJ M U H6 20
616789	110V DC	DG4V 5 0C M U A6 20
Tech Sheet 3112		

HYDRAULIC DIRECTIONAL CONTROL VALVES

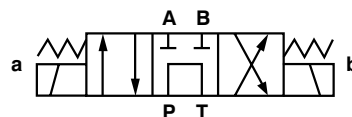


CETOP 5 Double Solenoid Directional Control Valves



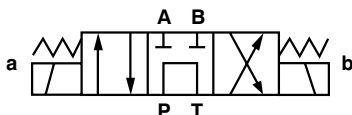
All Ports Open, Spring Centred, Water Resistant Override

3019	Voltage	Manufacturer's Code
02-146793	24V DC	DG4V 5 0CJ H M U H6 20
Tech Sheet 3112		



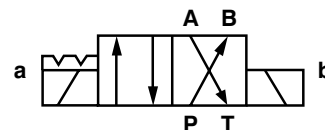
P & T Connected, A & B Blocked, Spring Centred, Water Resistant Override

3019	Voltage	Manufacturer's Code
859108	24V DC	DG4V 5 8CJ H VM U H6 20
Tech Sheet 3112		



P & T Connected, A & B Blocked, Spring Centred

3019	Voltage	Manufacturer's Code
616784	24V DC	DG4V 5 8CJ VM U H6 20
616785	110V AC	DG4V 5 8CJ VM U A6 20
Tech Sheet 3112		

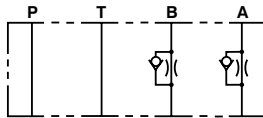


2 Position, Detented

3019	Voltage	Manufacturer's Code
616772	24V DC	DG4V 5 2NJ M U H6 20
616773	110V AC	DG4V 5 2N M U A6 20
Tech Sheet 3112		

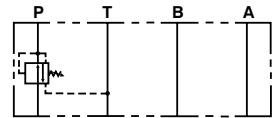
Other voltages are available. Please contact our Business Development Team for more details.

CETOP 5 Modules



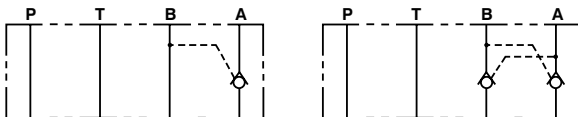
Flow Restrictors

3019	Description	Manufacturer's Code
867332	Meter Out	DGMFN 5 Y A2W B2W 30
867335	Meter In	DGMFN 5 X A2W B2W 30
Tech Sheet 3112		



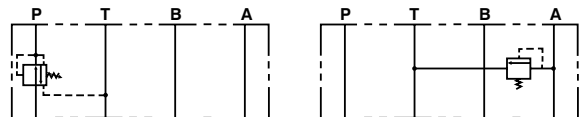
Pressure Reducing Valves

3019	Pressure Range Bar	Manufacturer's Code
868314	8.5-100	DGMX2 5 PP BW B 30
880553	8.5-200	DGMX2 5 PP FW B 30
879046	8.5-315	DGMX2 5 PP GH B 30
Tech Sheet 3112		



Pilot Operated Check Valve, 1 bar Cracking Pressure

3019	Description	Manufacturer's Code
867339	Single A Port	DGMPC 5 ABK 30
867340	Single B Port	DGMPC 5 BAK 30
867364	Double A & B Port	DGMPC 5 ABK BAK 30
Tech Sheet 3112		



Single Line Relief Valves

3019	Pressure Range Bar	Manufacturer's Code
868651	4-100	DGMC 5 AT BW B 30
879342	4-200	DGMC 5 PT FW B 30
868300	4-315	DGMC 5 PT GW B 30
Tech Sheet 3112		



CETOP 3 Coils, 60 Design



DC Coils

3019	Voltage
507847	12V
507848	24V
507855	12V 18W
507852	24V 18W
865882	48V
865637	98V
865884	110V
865638	196V

AC Coils

3019	Voltage
507825	110V 50Hz
507826	220V 50Hz
507833	110V 50Hz / 120V 60Hz
507834	220V 50Hz / 240V 60Hz

CETOP 5 Coils, 20 Design



DC Coils

3019	Voltage
617470	12V
617471	24V
457942	48V
457977	98V
457911	110V
698523	196V

AC Coils

3019	Voltage
617475	110V 50Hz
617476	220V 50Hz
617477	240V 50Hz
617499	115V 60Hz
617500	230V 60Hz



ELECTRICAL CONNECTORS

EN175301-803, DIN43650

PG11

0347	Voltage	Description
GDM2011-G	250V AC/DC	No LED, Grey
GDML2011-GB1-B	250V AC/DC	Bridge-type Rectifier No LED
GDML2011LED-24-B	24V AC/DC	LED No Protection
GDML2011LED-120B	120V AC/DC	LED No Protection
GDML2011LED-230B	230V AC/DC	LED No Protection
GDML2011LED-24HH	24V DC	LED with Diode Protection
GDML2011LED-48HH	48V DC	LED with Diode Protection

Tech Sheet 10132





CETOP Directional Control Valves



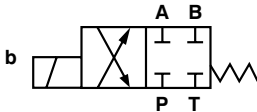


CETOP 3, Single Solenoid

Max Flow Rate: 80 L/min
 Viscosity 2.8-100 mm²/s
 ISO 4401 Size 3
 DIN 24340 Size 6
 IP65

Working Temperature:
 -20°C to +70°C

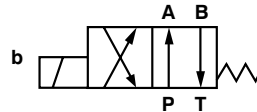
Maximum Working Pressure:
 350 bar



2 Position, All Ports Closed, Spring Offset to Centre

0451	Model	Voltage
1010-1047	ADC 3 2EY/RX14/AC110N9K	110V AC
1010-1046	ADC 3 2EY/RX14/DC24N9K	24V DC

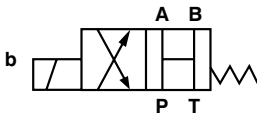
Tech Sheet 10682



2 Position, Spring Offset, Open Transient

0451	Model	Voltage
1010-1045	ADC 3 2CY/RX14/AC110N9K	110V AC
1010-1044	ADC 3 2CY/RX14/DC24N9K	24V DC

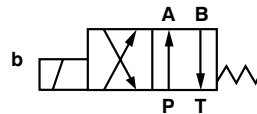
Tech Sheet 10682



2 Position, All Ports Open, Spring Offset to Centre

0451	Model	Voltage
1010-1000	ADC 3 2HY/RX14/AC110N9K	110V AC
1010-1001	ADC 3 2HY/RX14/DC24N9K	24V DC
1010-1059	ADC 3 2HY/RX14/DC12N9K	12V DC

Tech Sheet 10682



2 Position, Spring Offset End to End

0451	Model	Voltage
1010-1002	ADC 3 2DY/RX14/AC110N9K	110V AC
1010-1003	ADC 3 2DY/RX14/DC24N9K	24V DC
1010-1058	ADC 3 2DY/RX14/DC12N9K	12V DC

Tech Sheet 10682



You might also need
CETOP 3 Manifold
 see page **188**




CETOP 3, Double Solenoid

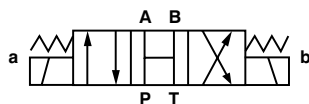
Max Flow Rate: 80 L/minViscosity 2.8-100 mm²/s

ISO 4401 Size 3

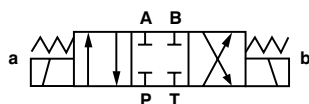
DIN 24340 Size 6

IP65

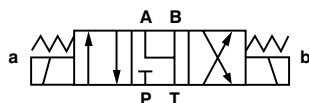
 **Working Temperature:**
-20°C to +70°C

 **Maximum Working Pressure:**
350 bar
**3 Position, All Ports Open, Spring Centred**

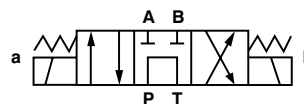
0451	Model	Voltage
1010-1004	ADC 3 3HY/RX14/AC110N9K	110V AC
1010-1006	ADC 3 3HY/RX14/DC24N9K	24V DC
1010-1005	ADC 3 3HY/RX14/DC12N9K	12V DC
Tech Sheet 10682		

**3 Position, All Ports Closed, Spring Centred**

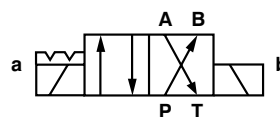
0451	Model	Voltage
1010-1007	ADC 3 3EY/RX14/AC110N9K	110V AC
1010-1008	ADC 3 3EY/RX14/DC24N9K	24V DC
1010-1060	ADC 3 3EY/RX14/DC12N9K	12V DC
Tech Sheet 10682		

**3 Position, A, B & T Connected, Spring Centred**

0451	Model	Voltage
1010-1009	ADC 3 3JY/RX14/AC110N9K	110V AC
1010-1010	ADC 3 3JY/RX14/DC24N9K	24V DC
1010-1062	ADC 3 3JY/RX14/DC12N9K	12V DC
Tech Sheet 10682		

**3 Position, P & T Connected A & B Blocked, Spring Centred**

0451	Model	Voltage
1010-1011	ADC 3 3GY/RX14/AC110N9K	110V AC
1010-1012	ADC 3 3GY/RX14/DC24N9K	24V DC
1010-1061	ADC 3 3GY/RX14/DC12N9K	12V DC
Tech Sheet 10682		

**2 Position, Detent**

0451	Model	Voltage
1010-1013	ADC 3 2DD/RX14/AC110N9K	110V AC
1010-1014	ADC 3 2DD/RX14/DC24N9K	24V DC
Tech Sheet 10682		

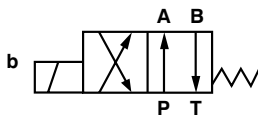


CETOP 5, Single Solenoid

Max Flow Rate: 120 L/min
 Viscosity 2.8-100 mm²/s
 ISO 4401 Size 5
 DIN 24340 Size 10
 IP65

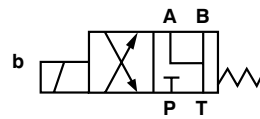
Working Temperature:
 -20°C to +70°C

Maximum Working Pressure:
 315 bar



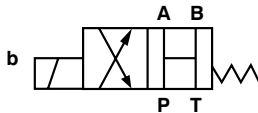
2 Position, Spring Offset End to End

0451	Model	Voltage
1010-1015	ADC 5 2DY/RX14/AC110N9K	110V AC
1010-1016	ADC 5 2DY/RX14/DC24N9K	24V DC
1010-1063	ADC 5 2DY/RX14/DC12N9K	12V DC
Tech Sheet 10683		



2 Position, A, B & T Connected, Spring Return

0451	Model	Voltage
1010-1071	ADC 5 2JY/RX14/DC12N9K	12V DC
1010-1072	ADC 5 2JY/RX14/DC24N9K	12V DC
Tech Sheet 10683		



2 Position, All Ports Open, Spring Offset to Centre

0451	Model	Voltage
1010-1069	ADC 5 2HY/RX14/DC24N9K	24V DC
1010-1064	ADC 5 2HY/RX14/DC12N9K	12V DC
Tech Sheet 10683		

Replacement Coils



CETOP 3

0451	Voltage
1010-1036	110V AC
1010-1037	220V AC
1010-1038	12V DC
1010-1039	24V DC
Tech Sheet 10683	



CETOP 5

0451	Voltage
1010-1040	110V AC
1010-1041	220V AC
1010-1042	12V DC
1010-1043	24V DC
Tech Sheet 10683	

CETOP 5, Double Solenoid

Max Flow Rate: 120 L/min

Viscosity 2.8-100 mm²/s

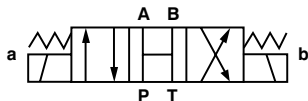
ISO 4401 Size 5

DIN 24340 Size 10

IP65

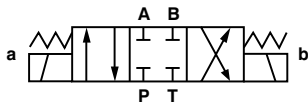
 **Working Temperature:**
-20°C to +70°C

 **Maximum Working Pressure:**
315 bar



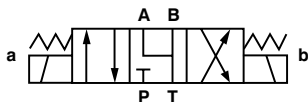
3 Position, All Ports Open, Spring Centred

0451	Model	Voltage
1010-1070	ADC 5 3HY/RX14/DC24N9K	24V DC
1010-1067	ADC 5 3HY/RX14/DC12N9K	12V DC
Tech Sheet 10683		



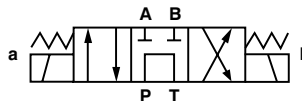
3 Position, All Ports Closed, Spring Centred

0451	Model	Voltage
1010-1017	ADC 5 3EY/RX14/AC110N9K	110V AC
1010-1018	ADC 5 3EY/RX14/DC24N9K	24V DC
1010-1065	ADC 5 3EY/RX14/DC12N9K	12V DC
Tech Sheet 10683		



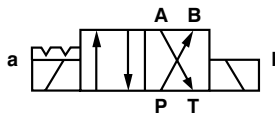
3 Position, A, B & T Connected, Spring Centred

0451	Model	Voltage
1010-1019	ADC 5 3JY/RX14/AC110N9K	110V AC
1010-1020	ADC 5 3JY/RX14/DC24N9K	24V DC
1010-1068	ADC 5 3JY/RX14/DC12N9K	12V DC
Tech Sheet 10683		



3 Position, P & T Connected A & B Blocked, Spring Centred

0451	Model	Voltage
1010-1056	ADC 5 3GY/RX14/AC110N9K	110V AC
1010-1021	ADC 5 3GY/RX14/DC24N9K	24V DC
1010-1066	ADC 5 3GY/RX14/DC12N9K	12V DC
Tech Sheet 10683		



2 Position, Detented

0451	Model	Voltage
1010-1055	ADC 5 2DD/RX14/AC110N9K	110V AC
1010-1054	ADC 5 2DD/RX14/DC24N9K	24V DC
Tech Sheet 10683		

CETOP DIRECTIONAL CONTROL VALVES

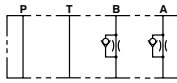


Working Temperature:
-20°C to +70°C

Maximum Working Pressure:
350 bar

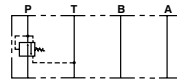
Max Flow Rate: 80 L/min
Viscosity 2.8-100 mm²/s
ISO 4401 Size 3
DIN 24340 Size 6

CETOP 3 Sandwich Valves



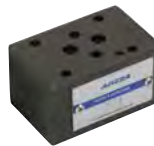
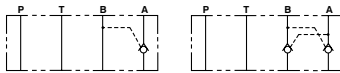
Flow Restrictor

0451	Model	Type
1010-1022	AFR 3 X2/RX14/2Q	A & B Meter In
1010-1023	AFR 3 Y2/RX14/2Q	A & B Meter Out
1010-1053	AFR 3 Z P2/RX14/2Q	P Line
Tech Sheet 10682		



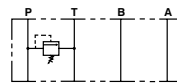
Pressure Reducing

0451	Model	Pressure Range Bar
1010-1026	ARD 3 PP 2/RX14/75	3.5 - 75
1010-1027	ARD 3 PP 2/RX14/150	10 - 150
1010-1028	ARD 3 PP 2/RX14/210	20 - 210
Tech Sheet 10682		



Pilot Operated Check

0451	Model	Type
1010-1024	APOC 3 A1/RX14/N	Single
1010-1025	APOC 3 AB1/RX14/	Double
Tech Sheet 10682		



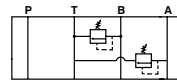
Single Line Pressure Relief

0451	Model	Pressure Range Bar
1010-1050	ASPR 3 PT1/RX14/100	3 - 100
1010-1029	ASPR 3 PT1/RX14/200	10 - 200
1010-1030	ASPR 3 PT1/RX14/315	50 - 315
Tech Sheet 10682		



Direct Operated Check

0451	Model	Cracking Pressure Bar
1010-1052	ADOC 3 PA/RX14/	0.5
Tech Sheet 10682		



Dual Line Pressure Relief

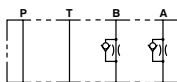
0451	Model	Pressure Range Bar
1010-1051	ADPR 3 AT1 BT1/RX14/200	10 - 200
Tech Sheet 10682		

Working Temperature:
-20°C to +70°C

Maximum Working Pressure:
315 bar

Max Flow Rate: 80 L/min
Viscosity 2.8-100 mm²/s
ISO 4401 Size 5
DIN 24340 Size 10

CETOP 5 Sandwich Valves



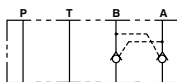
Flow Restrictor

0451	Model	Type
1010-1031	AFR 5 Y2/RX14/2Q	A & B Meter Out
1010-1057	AFR 5 X2/RX14/2Q	A & B Meter In
Tech Sheet 10683		



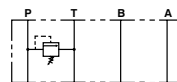
Pressure Reducing

0451	Model	Pressure Range Bar
1010-1033	ARD 5 PP 2/RX14/200	8.5 - 200
1010-1034	ARD 5 PP 2/RX14/315	8.5 - 315
Tech Sheet 10683		



Pilot Operated Check

0451	Model	Type
1010-1032	APOC 5 AB1/RX14	Double
Tech Sheet 10683		




Single Line Pressure Relief

0451	Model	Pressure Range Bar
1010-1035	ASPR 5 PT1/RX14/315	8.5 - 315
Tech Sheet 10683		



CETOP 3, Steel Manifold

 Maximum Working Pressure:
345 bar



Ports: P & T 1/2", A & B 3/8" BSPP

0345	No of Stations
CM3-1G	1
CM3-2G	2
CM3-3G	3
CM3-4G	4
CM3-5G	5
CM3-6G	6

Tech Sheet 10041

CETOP 3, Steel Manifold with Pressure Relief Valve

 Maximum Working Pressure:
345 bar




Ports: P & T 1/2", A & B 3/8" BSPP,
60-250 bar

0345	No of Stations
CM3-1G-ADJ	1
CM3-2G-ADJ	2
CM3-3G-ADJ	3
CM3-4G-ADJ	4
CM3-5G-ADJ	5
CM3-6G-ADJ	6

Tech Sheet 10041

CETOP 3, Aluminium Manifold

 Maximum Working Pressure:
207 bar



Ports: P & T 1/2", A & B 3/8" BSPP

0345	No of Stations
CM3-1G/ALU	1
CM3-2G/ALU	2
CM3-3G/ALU	3
CM3-4G/ALU	4
CM3-5G/ALU	5
CM3-6G/ALU	6

Tech Sheet 10041

CETOP 5, Steel Manifold

 Maximum Working Pressure:
345 bar



Ports: P 3/4" & T 1", A & B 1/2" BSPP

0345	No of Stations
CM5-1G	1
CM5-2G	2
CM5-3G	3
CM5-4G	4
CM5-5G	5
CM5-6G	6

Tech Sheet 10130

CETOP 5, Steel Manifold with Pressure Relief Valve

 Maximum Working Pressure:
345 bar



Ports: P 3/4" & T 1",
A & B 1/2" BSPP, 60-250 bar

0345	No of Stations
CM5-1G-ADJ	1
CM5-2G-ADJ	2
CM5-3G-ADJ	3
CM5-4G-ADJ	4
CM5-5G-ADJ	5
CM5-6G-ADJ	6

Tech Sheet 10130

CETOP 3, Side Entry Subplate

 Maximum Working Pressure:
345 bar



BSPP

0345	Thread
CSP-03	3/8"

Tech Sheet 10041

CETOP 5, Side Entry Subplate



BSPP

0345	Thread
CSP-05	1/2"

Tech Sheet 10130

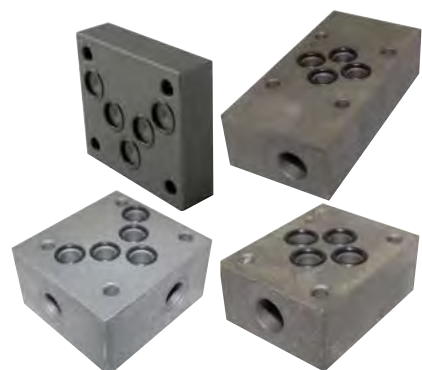
Auxiliary Plates



CETOP 3

0345	Type
CBP-03	Blanking Plate
CCOP-PA-03	Cross Over Plate P-A
CCOP-PB-03	Cross Over Plate P-B
CTP-AB-03	Tapping Plate A & B
CTP-PT-03	Tapping Plate P & T

Tech Sheet 10041



CETOP 5

0345	Type
CBP-05	Blanking Plate
CCOP-PA-05	Cross Over Plate P-A
CCOP-PB-05	Cross Over Plate P-B
CTP-AB-05	Tapping Plate A & B
CTP-PT-05	Tapping Plate P & T

Tech Sheet 10130



Parker Cetop 3 & 5 Valves



Cetop 3 - 4 Port 3 & 2 Position Solenoid Directional Control Valve - 24-110V

0484	Coil Voltage	Control Spool	Description
D1VW001CNJW	24V DC	All Blocked	4 Port 3 Pos



Cetop 5 - 4 Port 3 & 2 Position Solenoid Directional Control Valve - 24-110V

0484	Coil Voltage	Control Spool	Description
D3W008CNJW	24V DC	PT Connected	4 Port 3 Pos



Cetop 3 Modular Flow Control Valve

0484	Metering
FM2DDSV	A & B



Cetop 5 Modular Flow Control Valve

0484	Metering
FM3DDSV	A & B



Cetop 3 Modular Pilot Operated Check Valve, 1 bar Cracking Pressure

0484	Cracking Pressure Bar
CPOM2DDV	1.0



Cetop 5 Modular Pilot Operated Check Valve, 1 bar Cracking Pressure

0484	Cracking Pressure Bar
CPOM3DDV	1.0



3 HYDRAULIC HAND PUMPS



Pumps

Specification:

- Cast iron body
- White zinc-plated support lever
- Lever connection OD: 27mm
- White zinc-plated external parts

 **Maximum Working Pressure:**
350 bar



Double Acting Pump with Release Knob, Side Mount

0462	Displacement cm ³	Thread	Max Pressure Bar	Model	To Suit
HHP-01	20	1/2"	350	Wall Mount	Single Acting Cylinder
Tech Sheet 60145					

Specification:

- Cast iron body
- Piston treated with Niploy
- White zinc-plated support lever
- Lever connection OD: 27mm
- White zinc-plated external parts

 **Maximum Working Pressure:**
280 bar



Double Acting Pump with Release Knob, Bottom Mount

0462	Displacement cm ³	Thread	Max Pressure Bar	Model	To Suit
HHP-02	50	1/2"	280	Wall Mount	Single Acting Cylinder
Tech Sheet 60146					

Double acting hand pump for single acting cylinder.

Specification:

- Cast iron body
- Piston treated with Niploy
- White zinc-plated support lever
- Lever connection OD: 27mm
- White zinc-plated external parts
- Oil tank mounting kit included
- Pressure relief valve (standard setting):
100 bar

 **Maximum Working Pressure:**
350 bar



Double Acting Pump with Release Knob & Pressure Relief Valve

0462	Displacement cm ³	Thread	Max Pressure Bar	Model	To Suit
HHP-03	25	3/8"	350	Tank Mount	Single Acting Cylinder
Tech Sheet 60147					

Double acting hand pump for double acting cylinder.

Specification:

- Cast iron body
- Piston treated with Niploy
- White zinc-plated support lever
- Lever connection OD: 27mm
- White zinc-plated external parts

 **Maximum Working Pressure:**
350 bar



Double Acting Pump with 4/3 Diverter Valve & Pressure Relief Valve

0462	Displacement cm ³	Thread	Max Pressure Bar	Model	To Suit
HHP-04	25	3/8"	350	Tank Mount	Double Acting Cylinder
Tech Sheet 60148					





HYDRAULIC HAND PUMPS

Pumps

Double acting pump for double acting cylinder.

Specification:

- Cast iron body
- Piston treated with Niploy
- White zinc-plated support lever
- Lever connection OD: 27mm
- White zinc-plated external parts
- Oil tank mounting kit included
- Hydraulic brake to operate under 50 bar
- Pressure relief valve (standard setting): 100 bar

 **Maximum Working Pressure:**
350 bar




Double Acting Pump with 4/3 Diverter Valve, PRV & Dual PO Check Valve

0462	Displacement cm ³	Thread	Max Pressure Bar	Model	To Suit
HHP-05	25	3/8"	350	Tank Mount	Double Acting Cylinder
Tech Sheet 60149					

Single acting pump for single acting cylinder.

Specification:

- White zinc-plated steel body
- Piston treated with Niploy
- White zinc-plated external parts
- Release lever

 **Maximum Working Pressure:**
220 bar



Single Acting Foot Pump with 1.5 Litre Reservoir

0462	Displacement cm ³	Thread	Max Pressure Bar	To Suit
HFP-01	15	1/4"	220	Single Acting Cylinder
Tech Sheet 60150				

Accessories

Specification:

- Black hand grip
- White zinc-plated steel lever



Operating Lever

0462	To Suit	Length mm
HHP-0L	HHP Series	900
Tech Sheet 60152		

Closed centre option available.



3 Way Flow Diverter Valves

0462	Thread	Description	Max Pressure Bar	LPM
HHPDV-06	3/8"	Open Centre	350	60
HHPDV-08	1/2"	Open Centre	350	90
HHPDV-12	3/4"	Open Centre	350	120
Tech Sheet 60153				

Normally open, two position with mechanical control for tipping trucks.

Specification:

- Cast iron body
- Piston treated with Niploy
- White zinc plated external parts

 **Maximum Working Pressure:**
250 bar



End Stroke Valves

0462	Thread	LPM
HESV-06	3/8"	60
HESV-08	1/2"	80

Steel Tanks

Specification:

- Suction pipe included
- Breather Cap 1/4" BSPP
- Release Cap 1/4" BSPP
- Standard colour black



Steel Oil Tanks for Hand Pumps

0462	Volume Litres	Thread
HHPT-01	1	1/4"
HHPT-02	2	1/4"
HHPT-03	3	1/4"
HHPT-05	5	1/4"
HHPT-07	7	1/4"
Tech Sheet 60151		



Group 1, Aluminium Gear Pumps



Clockwise Rotation, 1.8 Taper Shaft, BSPP Ported

0345	Displacement cc/rev	Max Pressure Bar	Inlet Thread	Outlet Thread
AGP1-C-1.0	1.00	250	3/8"	3/8"
AGP1-C-1.25	1.25	250	3/8"	3/8"
AGP1-C-1.6	1.60	250	3/8"	3/8"
AGP1-C-2.0	2.00	250	3/8"	3/8"
AGP1-C-2.5	2.50	250	3/8"	3/8"
AGP1-C-3.15	3.15	250	1/2"	3/8"
AGP1-C-3.65	3.65	250	1/2"	3/8"
AGP1-C-4.2	4.20	250	1/2"	3/8"
AGP1-C-5.0	5.00	250	1/2"	3/8"
AGP1-C-6.1	6.10	200	1/2"	3/8"
AGP1-C-7.4	7.40	180	1/2"	3/8"
AGP1-C-8.5	8.50	150	1/2"	3/8"
AGP1-C-9.8	9.80	120	1/2"	3/8"

Tech Sheet 10048

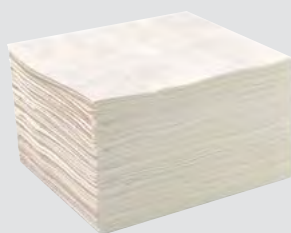
Group 2, Aluminium Gear Pumps



Clockwise Rotation, 1.8 Taper Shaft, BSPP Ported

0345	Displacement cc/rev	Max Pressure Bar	Inlet Thread	Outlet Thread
AGP2-C-4.5	4.5	250	1/2"	1/2"
AGP2-C-6.3	6.30	250	1/2"	1/2"
AGP2-C-8.2	8.20	250	1/2"	1/2"
AGP2-C-10	10	250	3/4"	1/2"
AGP2-C-11	11	250	3/4"	1/2"
AGP2-C-12	12	250	3/4"	1/2"
AGP2-C-14	14	250	3/4"	1/2"
AGP2-C-15	15	250	3/4"	1/2"
AGP2-C-16	16	250	3/4"	1/2"
AGP2-C-19	19	200	3/4"	1/2"
AGP2-C-22	22	180	3/4"	1/2"
AGP2-C-25	25	160	3/4"	1/2"

Tech Sheet 10049



Customers who bought from this page also purchased **Spill Mats** see pages 296-300



Accessories



Bell Housings

0347	Frame Size	Group
BH80/90-1	80/90	1
BH80/90-2	80/90	2
BH100/112-1	100/112	1
BH100/112-2	100/112	2
BH132-2	132	2
BH132-3	132	3
BH160/180-2	160/180	2
BH160/180-3	160/180	3

Tech Sheet 10089



Coupling Motor Half

0347	Frame Size
MC-80-45	80
MC-80-55	80
MC-90-45	90
MC-90-55	90
MC-100/112-55	100
MC-132-74	132
MC-160-104	160
MC-180-104	180

Tech Sheet 10127



Coupling Pump Half

0347	Group
PC-1-45	1
PC-1-55	1
PC-2-45	2
PC-2-55	2
PC-2-74	2
PC-2-104	2
PC-3-74	3
PC-3-104	3

Tech Sheet 10127



Coupling Spider

0347	To Suit mm
S-45	45
S-55	55
S-74	74
S-104	104

Tech Sheet 10127



Electric Motor Foot Mounting

0347	Frame Size
EFM-100/112	100/112
EFM-132	132
EFM-160	160

Tech Sheet 10090



Gear Pump Elbows, BSPP

0347	Group	Thread
GPE1-12	1	1/2"
GPE1-38	1	3/8"
GPE2-12	2	1/2"
GPE2-34	2	3/4"

Tech Sheet 10129



Gear Pump Mounting Gasket


0347	Group
PG-1	1
PG-2	2
PG-3	3



Motor Mounting Gasket

0347	Frame Size
MG-80/90	80/90
MG-100/112	100/112
MG-132	132
MG-160	160

Hydraulic Ball Valves

-  **Working Temperature:**
 - Carbon steel body
 - Zinc-plated C6F
 - Steel ball
 - Excellent sealing properties
 - High pressure
 - Full flow



2 Way, BSPP, NBR Seals

0177	Thread	DN Size	Length mm	Max Pressure Bar
KHB-G1/4	1/4"	6	69	500
KHB-G3/8	3/8"	10	72	500
KHB-G1/2	1/2"	13	83	500
KHB-G3/4	3/4"	20	95	315
KHB-G1	1"	25	113	315
KHB-G11/4	1.1/4"	25	110	315
KHB-G11/2	1.1/2"	25	130	315

Tech Sheet 10171



2 Way, Top Mountable for Actuation, BSPP, Nitrile Seals

0177	Thread	DN Size	Length mm	Max Pressure Bar
KHBTM-G1/4	1/4"	6	69	500
KHBTM-G3/8	3/8"	10	72	500
KHBTM-G1/2	1/2"	13	83	500
KHBTM-G3/4	3/4"	20	95	315
KHBTM-G1	1"	25	113	315
KHBTM-G11/4	1.1/4"	25	110	315
KHBTM-G11/2	1.1/2"	25	130	315

Tech Sheet 10171



2 Way, Side Hole Fixing, BSPP, Nitrile Seals

0177	Thread	DN Size	Length mm	Max Pressure Bar
KHBSM-G1/4	1/4"	6	69	500
KHBSM-G3/8	3/8"	10	72	500
KHBSM-G1/2	1/2"	13	83	500
KHBSM-G3/4	3/4"	20	95	315
KHBSM-G1	1"	25	113	315
KHBSM-G11/4	1.1/4"	25	110	315
KHBSM-G11/2	1.1/2"	25	130	315

Tech Sheet 10171

HYDRAULIC BALL VALVES



Hydraulic Ball Valves

° Working Temperature:
-20°C to +120°C



2 Way, 3000lb, Flanged

0177	ND	DN Size	Length mm	Max Pressure Bar
KHBF3-1/2	1/2"	13	151	210
KHBF3-3/4	3/4"	20	162	210
KHBF3-1	1"	25	178	210
KHBF3-1.1/4	1.1/4"	32	191	210
KHBF3-1.1/2	1.1/2"	40	231	210
KHBF3-2	2"	50	232	210

Tech Sheet 10044



2 Way, Light-duty, DIN 2353

0177	Thread	DN Size	Description	Length mm	Max Pressure Bar
KHB-8L	M14 x 1.5	6	8L	69	500
KHB-10L	M16 x 1.5	10	10L	77	500
KHB-12L	M18 x 1.5	10	12L	77	500
KHB-15L	M22 x 1.5	13	15L	83	500
KHB-22L	M30 x 2	20	22L	101	315
KHB-28L	M36 x 2	25	28L	108	315

Tech Sheet 10171



2 Way, 6000lb, Flanged

0177	ND	DN Size	Length mm	Max Pressure Bar
KHBF6-1/2	1/2"	13	151	420
KHBF6-3/4	3/4"	20	174	420
KHBF6-1	1"	25	198	420
KHBF6-1.1/4	1.1/4"	32	223	420
KHBF6-1.1/2	1.1/2"	40	281	420
KHBF6-2	2"	50	316	420

Tech Sheet 10044



2 Way, Heavy-duty, DIN 2353

0177	Thread	DN Size	Description	Length mm	Max Pressure Bar
KHB-10S	M18 x 1.5	6	10S	73	500
KHB-12S	M20 x 1.5	8	12S	77	500
KHB-16S	M24 x 1.5	13	16S	87	500
KHB-20S	M30 x 2	13	20S	91	500
KHB-25S	M36 x 2	20	25S	111	315
KHB-30S	M42 x 2	25	30S	120	315

Tech Sheet 10171



For **Bonded Seals**
see section 2 pages **158-162**

Lockable Hydraulic Ball Valves

° Working Temperature:
-20°C to +120°C



2 Way, BSPP

0177	Thread	DN Size	Length mm	Max Pressure Bar
KHB-G1/4-LK	1/4"	6	69	500
KHB-G3/8-LK	3/8"	10	72	500
KHB-G1/2-LK	1/2"	13	83	500
KHB-G3/4-LK	3/4"	20	95	315
KHB-G1-LK	1"	25	113	315
KHB-G11/4-LK	1.1/4"	25	110	315
KHB-G11/2-LK	1.1/2"	25	130	315

Tech Sheet 10171



2 Way, Side Hole Fixing, BSPP

0177	Thread	DN Size	Length mm	Max Pressure Bar
KHBSM-G1/4-LK	1/4"	6	69	500
KHBSM-G3/8-LK	3/8"	10	72	500
KHBSM-G1/2-LK	1/2"	13	83	500
KHBSM-G3/4-LK	3/4"	20	95	315
KHBSM-G1-LK	1"	25	113	315
KHBSM-G11/4-LK	1.1/4"	25	110	315
KHBSM-G11/2-LK	1.1/2"	25	130	315

Tech Sheet 10171



2 Way, Light-duty, DIN 2353

0177	Thread	DN Size	Description	Length mm	Max Pressure Bar
KHB-8L-LK	M14 x 1.5	6	8L	69	500
KHB-10L-LK	M16 x 1.5	8	10L	77	500
KHB-12L-LK	M18 x 1.5	13	12L	77	500
KHB-15L-LK	M22 x 1.5	13	15L	83	500
KHB-22L-LK	M30 x 2	20	22L	101	315
KHB-28L-LK	M36 x 2	25	28L	108	315

Tech Sheet 10171



2 Way, Heavy-duty, DIN 2353

0177	Thread	DN Size	Description	Length mm	Max Pressure Bar
KHB-10S-LK	M18 x 1.5	8	10S	73	500
KHB-12S-LK	M20 x 1.5	13	12S	77	500
KHB-16S-LK	M24 x 1.5	13	16S	87	500
KHB-20S-LK	M30 x 2	20	20S	91	500
KHB-25S-LK	M36 x 2	25	25S	111	315
KHB-30S-LK	M42 x 2	25	30S	120	315

Tech Sheet 10171



2 Way, 3000lb, Flanged

0177	ND	DN Size	Length mm	Max Pressure Bar
KHBF3-1/2-LK	1/2"	13	151	210
KHBF3-3/4-LK	3/4"	20	162	210
KHBF3-1-LK	1"	25	178	210
KHBF3-1.1/4-LK	1.1/4"	32	191	210
KHBF3-1.1/2-LK	1.1/2"	40	231	210
KHBF3-2-LK	2"	50	232	210

Tech Sheet 10171



2 Way, 6000lb, Flanged

0177	ND	DN Size	Length mm	Max Pressure Bar
KHBF6-1/2-LK	1/2"	13	151	420
KHBF6-3/4-LK	3/4"	20	174	420
KHBF6-1-LK	1"	25	198	420
KHBF6-1.1/4-LK	1.1/4"	32	223	420
KHBF6-1.1/2-LK	1.1/2"	40	281	420
KHBF6-2-LK	2"	50	316	420

Tech Sheet 10171



HYDRAULIC BALL VALVES

Hydraulic Ball Valves

Working Temperature:
-20°C to +120°C

- Carbon steel body
- Excellent sealing properties
- Zinc-plated C6F
- High pressure
- Steel ball
- Full flow



3 Way, L-Ported, BSPP, Nitrile Seals

0177	Thread	Length mm	Max Pressure Bar
KHB3K-G1/4	1/4"	69	500
KHB3K-G3/8	3/8"	72	500
KHB3K-G1/2	1/2"	83	500
KHB3K-G3/4	3/4"	95	315
KHB3K-G1	1"	113	315
KHB3K-G11/4	1.1/4"	110	315
KHB3K-G11/2	1.1/2"	130	315

Tech Sheet 2129

Working Temperature:
-20°C to +120°C

- Carbon steel body
- Excellent sealing properties
- Zinc-plated C6F
- High pressure
- Steel ball
- Full flow



3 Way, T-Ported, BSPP, Nitrile Seals

0177	Thread	Length mm	Max Pressure Bar
KHB3T-G1/4	1/4"	69	500
KHB3T-G3/8	3/8"	72	500
KHB3T-G1/2	1/2"	83	500
KHB3T-G3/4	3/4"	95	315
KHB3T-G1	1"	113	315
KHB3T-G11/4	1.1/4"	110	315
KHB3T-G11/2	1.1/2"	130	315

Tech Sheet 2129

Spare Handles



KHB Series Cranked Handles

0177	To Suit
KHBHANDLE-14-12	1/4" to 1/2"
KHBHANDLE-34-1	3/4" to 1"
KHBHANDLE-114-2	1.1/4" to 2"

Tech Sheet 2129

Lockable Hydraulic Ball Valves



3 Way, L-Ported, BSPP, Nitrile Seals

0177	Thread	DN Size	Length mm	Max Pressure Bar
KHB3K-G1/4-LK	1/4"	6	69	500
KHB3K-G3/8-LK	3/8"	10	72	500
KHB3K-G1/2-LK	1/2"	13	83	500
KHB3K-G3/4-LK	3/4"	20	95	315
KHB3K-G1-LK	1"	25	113	315
KHB3K-G11/4-LK	1.1/4"	25	110	315
KHB3K-G11/2-LK	1.1/2"	25	130	315

Tech Sheet 2129



3 Way, T-Ported, BSPP, Nitrile Seals

0177	Thread	DN Size	Length mm	Max Pressure Bar
KHB3T-G1/4-LK	1/4"	6	69	500
KHB3T-G3/8-LK	3/8"	10	72	500
KHB3T-G1/2-LK	1/2"	13	83	500
KHB3T-G3/4-LK	3/4"	20	95	315
KHB3T-G1-LK	1"	25	113	315
KHB3T-G11/4-LK	1.1/4"	25	110	315
KHB3T-G11/2-LK	1.1/2"	25	130	315

Tech Sheet 2129

Lock not included



Non-return Valves

Material: Carbon steel
Plating: Zinc-plated chrome free
Interchangeability: Stucchi VU, Holmbury ATR, VPC series
Cracking Pressure: 0.35 bar



High Pressure 0.35 to 0.5 bar Cracking Pressure, BSPP

0177	Thread	Length mm	Hex Size mm	Max Pressure Bar
EHRVG-14	1/4"	60	19	700
EHRVG-38	3/8"	70	24	700
EHRVG-12	1/2"	77	30	500
EHRVG-34	3/4"	90	36	500
EHRVG-1	1"	106	45	500
EHRVG-114	1.1/4"	125	55	400
EHRVG-112	1.1/2"	140	65	320
EHRVG-2	2"	160	75	320

Tech Sheet 10170

Material: Carbon steel
Plating: Zinc-plated chrome free
Interchangeability: Stucchi VU, Holmbury ATR, VPC series
Cracking Pressure: 3 bar

3 bar Cracking Pressure, BSPP

0177	Thread	Length mm	Hex Size mm	Max Pressure Bar
EHRVG-14-3CP	1/4"	62	19	350
EHRVG-38-3CP	3/8"	68	24	350
EHRVG-12-3CP	1/2"	77	30	350
EHRVG-34-3CP	3/4"	88	36	350
EHRVG-1-3CP	1"	105	41	350
EHRVG-114-3CP	1.1/4"	135	55	300
EHRVG-112-3CP	1.1/2"	145	60	300

Tech Sheet 10170

Material: Carbon steel
Plating: Zinc-plated chrome free
Interchangeability: Stucchi VU, Holmbury ATR, VPC series
Cracking Pressure: 5 bar

5 bar Cracking Pressure, BSPP

0177	Thread	Length mm	Hex Size mm	Max Pressure Bar
EHRVG-14-5CP	1/4"	62	19	350
EHRVG-38-5CP	3/8"	68	24	350
EHRVG-12-5CP	1/2"	77	30	350
EHRVG-34-5CP	3/4"	88	36	350
EHRVG-1-5CP	1"	105	41	350
EHRVG-114-5CP	1.1/4"	135	55	300
EHRVG-112-5CP	1.1/2"	145	60	300

Tech Sheet 10170

Flow Control Valves

Body: Carbon steel
Handle: Aluminium
Spring: SS302 or C72
Standard O-Rings: Nitrile
Ring Stem: PTFE

Working Temperature:
 -20°C to +100°C

Maximum Working Pressure:
 350 bar



Uni-directional (Controlled Flow One Direction, Free Flow Reverse), BSPP

0177	Thread	Mounting Thread
EHCVG1/4	1/4"	M20 x 1
EHCVG3/8	3/8"	M25 x 1
EHCVG1/2	1/2"	M30 x 1.5
EHCVG3/4	3/4"	M35 x 1.5
EHCVG1	1"	M35 x 1.5

Tech Sheet 2130



Bi-directional (Controlled Flow Both Directions), BSPP

0177	Thread	Mounting Thread
EHTVG1/4	1/4"	M20 x 1
EHTVG3/8	3/8"	M25 x 1
EHTVG1/2	1/2"	M30 x 1.5
EHTVG3/4	3/4"	M35 x 1.5
EHTVG1	1"	M35 x 1.5

Tech Sheet 2131



High Pressure Stainless Steel Ball Valves

Working Temperature:
-20°C to +120°C

- Viton seals



2 Way, BSPP

0098	Thread	Max Pressure Bar
HBVSS-14	1/4"	500
HBVSS-38	3/8"	500
HBVSS-12	1/2"	500
HBVSS-34	3/4"	315
HBVSS-1	1"	315

Tech Sheet 20888

High Pressure Stainless Steel Block Style Ball Valves



2 Way, BSPP

0098	Thread	DN Size	Length mm	Max Pressure Bar
HBBVSS-14	1/4"	6	69	500
HBBVSS-38	3/8"	10	72	500
HBBVSS-12	1/2"	13	83	500
HBBVSS-34	3/4"	20	95	315
HBBVSS-1	1"	25	113	315

Tech Sheet 10224

Lockable High Pressure Stainless Steel Block Style Ball Valves

Lock not included



2 Way, BSPP

0098	Thread	DN Size	Length mm	Max Pressure Bar
HBBVSS-14-LK	1/4"	6	69	500
HBBVSS-38-LK	3/8"	10	72	500
HBBVSS-12-LK	1/2"	13	83	500
HBBVSS-34-LK	3/4"	20	95	315
HBBVSS-1-LK	1"	25	113	315

Tech Sheet 10224

High Pressure Check Valves

Maximum Working Pressure: 350 bar



BSPP, 0.5 bar Cracking Pressure

0098	Thread
HCVSS-3/8	3/8"
HCVSS-1/2	1/2"
HCVSS-3/4	3/4"
HCVSS-1	1"

Tech Sheet 10043

Locking Device



Stainless Steel


0177	To Suit
HPBVLD-1	DN6, DN8, DN10, DN13
HPBVLD-2	DN20, DN25
HPBVLD-3	DN32, DN38, DN50

Tech Sheet 10171

Due to the change of finishes used by our supplier, the product you receive may look slightly different to that illustrated.



316 Stainless Steel Hydraulic Ball Valves, DIN 2353

 Working Temperature:
-30°C to +100°C

- ANSI 316 - Body, ball and seat
- POM - Ball seats
- Nitrile - O-Rings

stainless steel



Light-duty

0098	OD mm	Max Pressure Bar
KHV06L-SS	6	500
KHV08L-SS	8	500
KHV12L-SS	12	500
KHV15L-SS	15	500
KHV18L-SS	18	500
KHV22L-SS	22	315
KHV28L-SS	28	315
KHV35L-SS	35	315
KHV42L-SS	42	315

Heavy-duty

0098	OD mm	Max Pressure Bar
KHV08S-SS	8	500
KHV10S-SS	10	500
KHV12S-SS	12	500
KHV14S-SS	14	500
KHV16S-SS	16	500
KHV20S-SS	20	400
KHV25S-SS	25	315
KHV30S-SS	30	315
KHV38S-SS	38	315

High Pressure 2 Way Ball Valves

N.B. From 1.1/4" - 1.1/2" are supplied with flat handles.



High Pressure, Carbon Steel Valves, BSPP

0098	Thread	Max Pressure Bar
BKH-14	1/4"	500
BKH-38	3/8"	500
BKH-12	1/2"	500
BKH-34	3/4"	420
BKH-1	1"	315
BKH-114	1.1/4"	315
BKH-112	1.1/2"	315

Tech Sheet 817

3 Way Hydraulic Ball Valves, DIN/ISO 228

All below are reduced bore.

N.B. From 1.1/4" - 1.1/2" are supplied with flat handles.



L Porting, BSPP

0098	Thread	Max Pressure Bar
HBVL-14	1/4"	500
HBVL-38	3/8"	500
HBVL-12	1/2"	315
HBVL-34	3/4"	315
HBVL-1	1"	315
HBVL-114	1.1/4"	350
HBVL-112	1.1/2"	350

Tech Sheet 816

T Porting, BSPP

0098	Thread	Max Pressure Bar
HBVT-14	1/4"	500
HBVT-38	3/8"	500
HBVT-12	1/2"	315
HBVT-34	3/4"	315
HBVT-1	1"	315
HBVT-114	1.1/4"	350
HBVT-112	1.1/2"	350

Tech Sheet 816

4 Way Hydraulic Ball Valves, DIN/ISO 228



X Porting, BSPP

0098	Thread	Max Pressure Bar
H4BVX-14	1/4"	500

Needle Flow Control Valves



Bi-directional (Controlled Flow Both Ways) Flow Control & Shut Off (DIN/ISO 228), BSPP

0098	Thread	Max Pressure Bar
NDV-18	1/8"	350
NDV-14	1/4"	350
NDV-38	3/8"	350
NDV-12	1/2"	350
NDV-34	3/4"	350
NDV-1	1"	350
NDV-112	1.1/2"	350

Tech Sheet 10299

Uni-directional (Controlled Flow One Way) Free Reverse Flow (DIN/ISO 228), BSPP

0098	Thread	Max Pressure Bar
NDRV-18	1/8"	350
NDRV-14	1/4"	350
NDRV-38	3/8"	350
NDRV-12	1/2"	350
NDRV-34	3/4"	350

Tech Sheet 10299

HYDRAULIC VALVES

Needle Valves

° Working Temperature:
-20°C to +100°C

Maximum Working Pressure:
210 bar

Body: Brass, nickel plated
Seal: Nitrile
Stem: 304 Stainless steel



In-line, Bi-directional (Controlled Flow Both Ways) Flow Control & Shut Off, BSPP

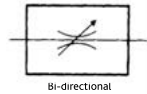
0098	Thread
1251-1010	1/8"
1251-1313	1/4"
1251-1717	3/8"
1251-2121	1/2"

Tech Sheet 10514

° Working Temperature:
-20°C to +100°C

Maximum Working Pressure:
210 bar

Body: Brass, nickel plated
Seal: Nitrile
Stem: 304 Stainless steel



Angled, In-line, Bi-directional (Controlled Flow Both Ways) Flow Control & Shut Off, BSPP

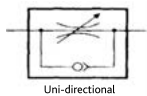
0098	Thread
1252-2010	1/8"
1252-2013	1/4"
1252-2017	3/8"
1252-2021	1/2"

Tech Sheet 10515

° Working Temperature:
-20°C to +100°C

Maximum Working Pressure:
210 bar

Body: Brass, nickel plated
Seal: Nitrile
Stem: 304 Stainless steel



In-line, Uni-directional (Controlled Flow One Way) with Free Reverse Flow, BSPP

0098	Thread
1253-3013	1/4"
1253-3017	3/8"
1253-3021	1/2"

Tech Sheet 10516

Needle Valves - Speed Control

° Working Temperature:
-20°C to +100°C

Maximum Working Pressure:
400 bar: 1/4" to 3/4"
320 bar: 1"

Seal: Nitrile



Female x Female, BSPP

0098	Thread	Length mm	LPM	Return LPM
NCV-14	1/4"	55	50	70
NCV-38	3/8"	65	75	110
NCV-12	1/2"	73	140	150
NCV-34	3/4"	88	175	200
NCV-1	1"	127	350	275

Tech Sheet 10517

Needle Valves - Flow Control

° Working Temperature:
-20°C to +100°C

Maximum Working Pressure:
400 bar: 1/4" to 3/4"
320 bar: 1"

Seal: Nitrile



Female x Female, BSPP

0098	Thread	Length mm	LPM
INV-14	1/4"	48	50
INV-38	3/8"	58	75
INV-12	1/2"	68	140
INV-34	3/4"	78	175
INV-1	1"	108	350

Tech Sheet 10518

Hydraulic Non-return Valves

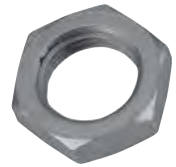


High Pressure, Carbon Steel, BSPP

0098	Thread	Length mm	Max Pressure Bar	Cracking Pressure Bar
HNRV-14	1/4"	62	350	0.5
HNRV-38	3/8"	68	350	0.5
HNRV-12	1/2"	78	350	0.5
HNRV-34	3/4"	88	300	0.5
HNRV-1	1"	112	250	0.5

Tech Sheet 10519

Panel Mounting Nuts



For Series INV & NCV

0098	To Suit
2570-13	1/4"
2570-17	3/8"
2570-21	1/2"
2570-26	3/4"

For Series 1251, 1252 & 1253

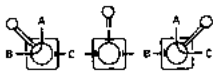
0098	To Suit
1203-1010	1/8"
1203-1313	1/4"
1203-1717	3/8"
1203-2121	1/2"



Diverter Valves

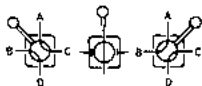


Manufactured from machined steel body with a hardened and ground spool, and a chemically blackened finish.



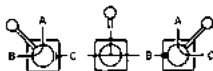
Three Port 2 Way, BSPP

0098	Thread	LPM	Max Pressure Bar
38-3DVL	3/8"	27	207
12-3DVL	1/2"	36	210
34-3DVL	3/4"	100	207
1-3DVL	1"	160	207



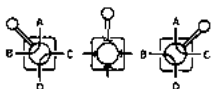
Four Port Open Centre, BSPP

0098	Thread	LPM	Max Pressure Bar
38-4DVO	3/8"	27	207
12-4DVO	1/2"	36	210



Three Port T, BSPP

0098	Thread	LPM	Max Pressure Bar
38-3DVT	3/8"	27	207
12-3DVT	1/2"	36	210



Four Port Closed Centre, BSPP

0098	Thread	LPM	Max Pressure Bar
38-DVCC	3/8"	27	207
12-DVCC	1/2"	36	210

In-line Isolator Needle Valves

° Working Temperature:
-20°C to +100°C

Maximum Working Pressure:
400 bar

Body: Carbon steel
Seal: Nitrile



Male Thread Fixed BSPT x Female Thread Swivel BSPP

0098	Male Thread	Female Thread	Thread
FT290-14	1/4"	1/4"	M15 x 1

Tech Sheet 10520

° Working Temperature:
-20°C to +100°C

Maximum Working Pressure:
400 bar

Body: Carbon steel
Seal: Nitrile



Female Thread Fixed BSPP x Female Thread Swivel BSPP

0098	Thread	Thread
FT290-01	1/4"	M15 x 1

Tech Sheet 10520

° Working Temperature:
-20°C to +100°C

Maximum Working Pressure:
400 bar

Body: Carbon steel
Seal: Nitrile



Female Thread Swivel BSPP x Female Thread Swivel BSPP

0098	Thread	Thread
FT290-05	1/4"	M15 x 1

Tech Sheet 10520



Female Thread Swivel BSPP x Female Thread Compression BSPP

0098	Thread	OD mm	Thread
FT290-04	1/4"	6	M15 x 1

Tech Sheet 10520

Angled Isolator Needle Valves

° Working Temperature:
-20°C to +100°C

Maximum Working Pressure:
400 bar

Body: Carbon steel
Seal: Nitrile



Male Thread Fixed BSPT x Female Thread Swivel BSPP

0098	Male Thread	Female Thread	Thread
FT291-14	1/4"	1/4"	M15 x 1

° Working Temperature:
-20°C to +100°C

Maximum Working Pressure:
400 bar

Body: Carbon steel
Seal: Nitrile



Female Thread Fixed BSPP x Female Thread Swivel BSPP

0098	Thread	Thread
FT291-01	1/4"	M15 x 1

° Working Temperature:
-20°C to +100°C

Maximum Working Pressure:
400 bar

Body: Carbon steel
Seal: Nitrile



Female Thread Swivel BSPP x Female Thread Swivel BSPP

0098	Thread	Thread
FT291-05	1/4"	M15 x 1

Panel Mounting Nut



For Isolator Needle Valves

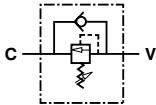
0098	Thread
FT205	M15 x 1



Direct Acting Sequence Valves

Pre-set and other spring ratings available on request.

Maximum Working Pressure:
350 bar



BSPP

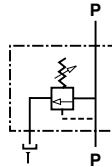
0347	Thread	Pressure Range Bar
DASV06	3/8"	10-180
DASV08	1/2"	10-180
DASV12	3/4"	50-350

Tech Sheet 10098

Pressure Relief Valves

Pre-set and other spring ratings available on request.

Maximum Working Pressure:
300 bar

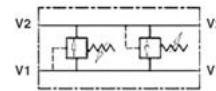


BSPP

0347	Thread	Pressure Range Bar
RV06/180	3/8"	10-180
RV08/180	1/2"	10-180
RV12/180	3/4"	10-180

Tech Sheet 10101

Dual Cross Relief Valve



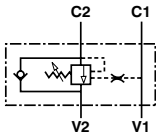
BSPP

0347	Thread	Pressure Range Bar
DCRV04/180	1/4"	10-180
DCRV06/180	3/8"	10-180
DCRV08/180	1/2"	10-180
DCRV012/180	3/4"	10-180

Tech Sheet 10534

Single Overcentre Valves

1:8 pilot ratio available on request.



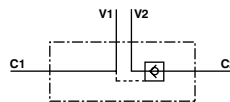
BSPP

0347	Thread	Ratio
SOCV06	3/8"	1:3.1
SOCV08	1/2"	1:3.1
SOCV12	3/4"	1:5.5

Tech Sheet 10099

Single Pilot Operated Check Valves

Other cracking pressures available on request.



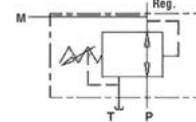
BSPP

0347	Thread	Cracking Pressure Bar	Ratio
POCV04	1/4"	4	1:5.5
POCV06	3/8"	3	1:5.5
POCV08	1/2"	6	1:5

Tech Sheet 10102

Pressure Reducing Valve, Direct Acting

15-55 bar range available on request.

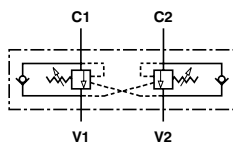


BSPP

0347	Thread	Pressure Range Bar
PREDV06	3/8"	30-165
PREDV08	1/2"	30-165

Tech Sheet 10535

Double Overcentre Valves

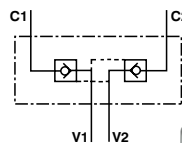


BSPP

0347	Thread	Ratio
DOCV06	3/8"	1:3.1
DOCV08	1/2"	1:3.1
DOCV12	3/4"	1:5.5

Tech Sheet 10100

Double Pilot Operated Check Valves

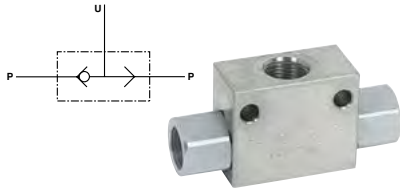


BSPP

0347	Thread	Cracking Pressure Bar	Ratio
DPOCV04	1/4"	4.5	1:5.5
DPOCV06	3/8"	4.5	1:5.5
DPOCV08	1/2"	3	1:4.5

Tech Sheet 10103

Shuttle Valves



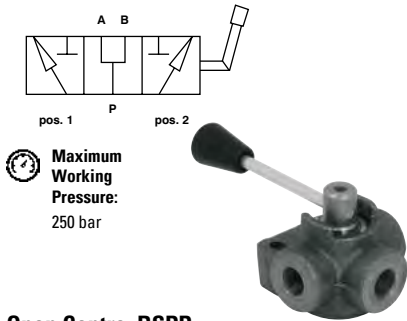
BSPP

0347	Thread	Max Pressure Bar	LPM
SV04	1/4"	450	30
SV06	3/8"	450	45
SV08	1/2"	450	70
SV12	3/4"	350	110

Tech Sheet 10104

3 Way Diverter Valves

Closed centre configuration available on request.



Maximum Working Pressure: 250 bar

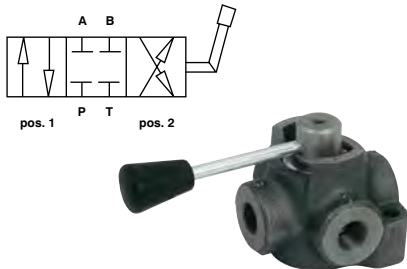
Open Centre, BSPP

0347	Thread	LPM
DV306	3/8"	35
DV308	1/2"	60
DV312	3/4"	100

Tech Sheet 10105

4 Way Diverter Valves

P to T, A and B closed, available on request.

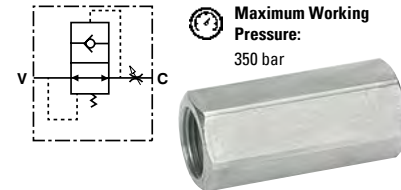


All Ports Closed, BSPP

0347	Thread	LPM
DV406	3/8"	35
DV408	1/2"	60
DV412	3/4"	100

Tech Sheet 10106

Hose Burst Valves

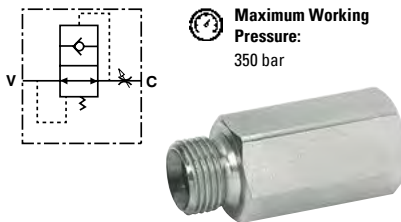


Maximum Working Pressure: 350 bar

Female/Female, BSPP

0347	Thread	LPM
HBVF04	1/4"	25
HBVF06	3/8"	50
HBVF08	1/2"	80
HBVF12	3/4"	140
HBVF16	1"	180

Tech Sheet 10107

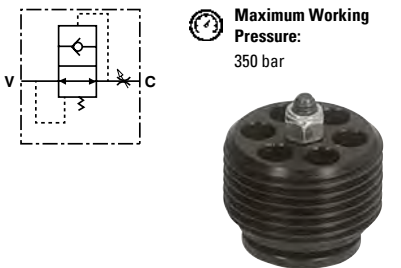


Maximum Working Pressure: 350 bar

Male/Female, BSPP

0347	Thread	LPM
HBVMF04	1/4"	25
HBVMF06	3/8"	50
HBVMF08	1/2"	80
HBVMF12	3/4"	140
HBVMF16	1"	180

Tech Sheet 10107



Maximum Working Pressure: 350 bar

Cartridge

0347	To Suit
HBVC04	1/4"
HBVC06	3/8"
HBVC08	1/2"
HBVC12	3/4"

Tech Sheet 10107

Hydraulic Swivel Joints

- Seal Nitrile
- Mounted between a hose assembly and rigid component in order to allow and compensate occasional rotations, preventing hose damage.



90° Swivel, BSPP

0507	Thread	Max Static Pressure Bar	Max Dynamic Pressure Bar
2019-3660	1/4"	400	200
2019-3678	3/8"	400	200
2019-3686	1/2"	300	150
2019-3694	3/4"	300	150
2019-3702	1"	300	100
2019-3703	1.1/4"	300	100
2019-3704	1.1/2"	300	80
2019-3705	2"	250	50

Tech Sheet 849



Straight Swivel, BSPP

0507	Thread	Max Rotating Pressure Bar	Max Dynamic Pressure Bar
2019-2639	1/4"	400	200
2019-3629	3/8"	400	200
2019-3637	1/2"	300	150
2019-3645	3/4"	300	150
2019-3652	1"	300	100
2019-3653	1.1/4"	300	100
2019-3654	1.1/2"	300	80
2019-3655	2"	250	50

Tech Sheet 848

THREADED HYDRAULIC VALVES

Barrel Flow Control Valve



BSPP

0347	Thread	LPM	Max Pressure Bar
BFCV04	1/4"	20	300
BFCV06	3/8"	45	300
BFCV08	1/2"	70	300
BFCV12	3/4"	110	250
BFCV16	1"	160	250

Tech Sheet 10536

Barrel Flow Control Valve, with Check



BSPP

0347	Thread	LPM	Max Pressure Bar
BFCVC04	1/4"	20	300
BFCVC06	3/8"	45	300
BFCVC08	1/2"	70	300
BFCVC12	3/4"	110	250
BFCVC16	1"	160	250

Tech Sheet 10537

Compensated Flow Control Valve



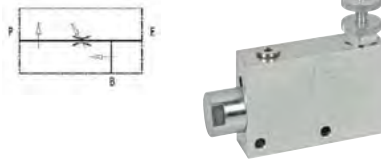
Maximum Working Pressure:
250 bar

BSPP

0347	Thread	LPM
CFVC04	1/4"	25
CFVC06	3/8"	30
CFVC08	1/2"	45

Tech Sheet 10538

3 Port Flow Control Valve, Ongoing to Pressure

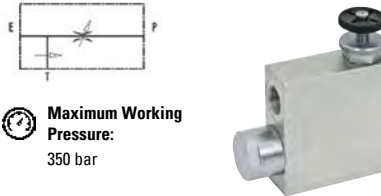


BSPP

0347	Thread	LPM
3FCVP06	3/8"	60
3FCVP08	1/2"	80
3FCVP12	3/4"	120
3FCVP16	1"	200

Tech Sheet 10539

3 Port Flow Control Valve, Excess to Tank



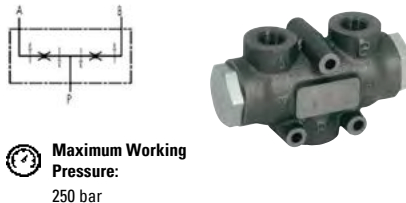
Maximum Working Pressure:
350 bar

BSPP

0347	Thread	LPM
3FCVT06	3/8"	60
3FCVT08	1/2"	80
3FCVT12	3/4"	120

Tech Sheet 10540

2 Way Flow Divider, Cast Iron



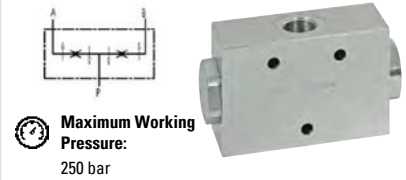
Maximum Working Pressure:
250 bar

BSPP

0347	Inlet Thread	Outlet Thread	LPM
CFD063	3/8"	3/8"	3
CFD066	3/8"	3/8"	6
CFD0610	3/8"	3/8"	10
CFD0620	3/8"	3/8"	20
CFD0632	3/8"	3/8"	32
CFD0840	1/2"	3/8"	40
CFD0860	1/2"	3/8"	60
CFD0880	1/2"	3/8"	80

Tech Sheet 10541

2 Way Flow Divider, Steel



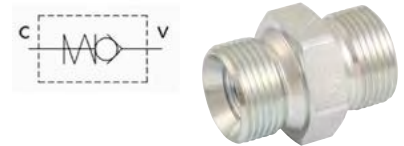
Maximum Working Pressure:
250 bar

BSPP

0347	Inlet Thread	Outlet Thread	LPM
SFD0610	3/8"	3/8"	10
SFD0620	3/8"	3/8"	20
SFD0840	1/2"	3/8"	40
SFD0860	1/2"	3/8"	60

Tech Sheet 10542

Male Check Valve



BSPP, 1 bar Cracking Pressure

0347	Thread	Max Pressure Bar
MVC04	1/4"	350
MVC06	3/8"	350
MVC08	1/2"	350
MVC12	3/4"	350
MVC16	1"	320
MVC20	1.1/4"	320
MVC24	1.1/2"	320
MVC32	2"	320

Tech Sheet 10543



3 HYDRAULIC CONTROL VALVES



Monoblock Valves

Description

Manually or mechanically controlled hydraulic directional control valves. Designed for distribution and control of work flow between generator (pump) and executive mechanisms (cylinder, hydro-motor, etc). Manufactured with up to seven plungers, with parallel or serial action, with common or individual back valve for each plunger, with or without safety valve.

Construction

Body is cast iron (EN-GJL300). Plungers are carburised steel with hard chrome plating.

Mounting

Distributor is fixed with two bolts, M8.

Port Thread Sizes:

P, T, N: 1/2" BSPP

A, B: 3/8" BSPP

Interchangeable with Walvoil SD5.

All valves come as standard with adjustable main relief valve set at 250 bar, adjustable from 20 to 250 bar.

Includes standard lever.

Description

Hydraulic distributors used for switching on/off and directing the working fluid between head flow generators (hydraulic pumps), head flow consumers (hydraulic cylinders, motors, etc) and the tank. Manufactured with up to six plungers with parallel or serial distribution.

Construction

Body is cast iron (EN-GJL300). Plungers are carburised steel with hard chrome plating.

Mounting

Distributor is fixed with two bolts, M8.

Port Thread Sizes:

T, N: 3/4" BSPP

P, A, B: 1/2" BSPP

Interchangeable with Walvoil SD11.

All valves come as standard with adjustable main relief valve set at 250 bar, adjustable from 20 to 250 bar.

Includes standard lever.

Ambient Temperature	-40°C to +60°C
Media	Mineral oil based hydraulic oil
Viscosity	12 to 800mm ² /s
Filtration Level	10 to NAS 1638
Leakage (A, B, T)	15cm ³ /min at 120 bar
Nominal Flow	40 L/min
Spool Stroke	+/- 6mm
Actuating Force	< 200 N
Modification/Spools	With 1 to 7

Working Temperature:
-15°C to +80°C

Maximum Working Pressure:
A and B Ports: 300 bar, P Port: 250 bar,
T Port: 50 bar



Type P40, 4 Way, 3 Position, Spring Return, 40 L/min, BSPP

0479	Thread	Thread	No of Stations	Manufacturer's Code
1021-0001	3/8"	1/2"	1	P40 A1 GKZ1
1021-0002	3/8"	1/2"	2	02P40 1A1 GKZ1
1021-0003	3/8"	1/2"	3	03P40 1A1 GKZ1
1021-0004	3/8"	1/2"	4	04P40 1A1 GKZ1
1021-0005	3/8"	1/2"	5	05P40 1A1 GKZ1
1021-0006	3/8"	1/2"	6	06P40 1A1 GKZ1
1021-0007	3/8"	1/2"	7	07P40 1A1 GKZ1

Tech Sheet 60381

Ambient Temperature	-40°C to +60°C
Media	Mineral oil based hydraulic oil
Viscosity	12 to 800mm ² /s
Filtration Level	10 to NAS 1638
Leakage (A, B, T)	18cm ³ /min at 120 bar
Nominal Flow	80 L/min
Spool Stroke	+/- 7mm
Actuating Force	< 220 N
Modification/Spools	With 1 to 6

Working Temperature:
-15°C to +80°C

Maximum Working Pressure:
A and B Ports: 300 bar, P Port: 250 bar,
T Port: 50 bar



Type P80, 4 Way, 3 Position, Spring Return, 80 L/min, BSPP

0479	Thread	Thread	No of Stations	Manufacturer's Code
1021-0008	1/2"	3/4"	1	P80 A1GKZ1
1021-0009	1/2"	3/4"	2	2P80 1A1GKZ1
1021-0010	1/2"	3/4"	3	3P80 1A1GKZ1
1021-0011	1/2"	3/4"	4	4P80 1A1GKZ1
1021-0012	1/2"	3/4"	5	5P80 1A1GKZ1
1021-0013	1/2"	3/4"	6	6P80 1A1GKZ1

Tech Sheet 60382



HYDRAULIC CONTROL VALVES

Monoblock Valves

Description

Hydraulic distributor used for switching on/off and control of the working fluid between head flow generators (hydraulic pumps), head flow consumers (hydraulic cylinders, motors, etc) and the tanks of hydraulic systems of mobile machines (electrical and diesel forklifts, excavators, auto-cranes, etc).

Construction

Body is cast iron (EN-GJL300). Plungers are carburised steel with hard chrome plating.

Mounting

Distributor is fixed with two bolts, M10.

Port Thread Sizes:

P, T, A, B: 1" BSPP

Interchangeable with Walvoil SD18,

All valves come as standard with adjustable main relief valve set at 250 bar, adjustable from 20 to 250 bar.

Includes standard lever.

Description

Valve monoblock available with up to six spool models. Valve has two built-in load check valves in the inlet section, one check for construction. Valves have parallel circuits, allowing operation of several combinations. Direct operation main relief differential valve is standard. Used with air cylinders for lorries, trucks and cranes.

Construction

Valve housing is chrome alloy cast iron. Spools are hardened steel and chrome-plated to secure maximum protection against corrosion and wear.

Mounting

Distributor is fixed with two bolts, M10.

Built-in port relief valves and/or anti-cavitation check valves on request.

Port Thread Sizes:

P1, P2: 3/4" BSPP

T2, A, B: 3/4" BSPP

T1, N: 1" BSPP


Interchangeable with Nimco CV300.

All valves come as standard with adjustable main relief valve set at 250 bar, adjustable from 20 to 250 bar.

Includes standard lever.

Ambient Temperature	-40°C to +60°C
Media	Mineral oil based hydraulic oil
Viscosity	12 to 800mm ² /s
Filtration Level	10 to NAS 1638
Leakage (A, B, T)	30cm ³ /min at 120 bar
Nominal Flow	120 L/min
Spool Stroke	10mm, L12 +/- 10/6
Actuating Force	< 300 N
Modification/Spools	With 1 to 4

 **Working Temperature:**
-15°C to +80°C

 **Maximum Working Pressure:**
A and B Ports: 300 bar, P Port: 250 bar,
T Port: 50 bar




Type P120, 4 Way, 3 Position, Spring Return, 120 L/min, BSPP

0479	Thread	Thread	No of Stations	Manufacturer's Code
1021-0014	1"	1"	1	P120 A1GKZ1
1021-0015	1"	1"	2	02P120 A1GKZ1
1021-0016	1"	1"	3	03P120 A1GKZ1
1021-0017	1"	1"	4	04P120 A1GKZ1

Tech Sheet 60383

Ambient Temperature	-40°C to +60°C
Media	Mineral oil based hydraulic oil
Viscosity	12 to 800mm ² /s
Filtration Level	10 to NAS 1638
Leakage (A, B, T)	30cm ³ /min at 120 bar
Nominal Flow	110 L/min
Spool Stroke	10mm, L12 +/- 10/6
Actuating Force	< 300 N
Modification/Spools	From 1-6/without 5

 **Working Temperature:**
-15°C to +80°C

 **Maximum Working Pressure:**
A and B Ports: 300 bar, P Port: 250 bar,
T Port: 50 bar



Type S290, 4 Way, 3 Position, Spring Return, 110 L/min, BSPP

0479	Thread	Thread	No of Stations	Manufacturer's Code
1021-0018	3/4"	1"	1	S291/AS

Tech Sheet 60384

3 HYDRAULIC CONTROL VALVES



Monoblock Valves

Description

Hydraulic distributor used for switching on/off and directing the working fluid between head flow generators (hydraulic pumps), head flow consumers (hydraulic cylinders, motors, etc) and the tank.

It has a setting from 70 to 140 bar for automatic switch-off. It is designed as a 'log splitter' valve.

Construction

Monoblock distributor with manual control. Body is cast iron (EN-GJL300) and spool is carburised steel with hard chrome plating.

Mounting

Distributor is fixed with three bolts, P8.

Port Thread Sizes:

P, T, A, B: 1/2" BSPP

Comes as standard with adjustable main relief valve set at 250 bar, adjustable from 20 to 250 bar.

Includes standard lever.

Ambient Temperature	-40°C to +60°C
Media	Mineral oil based hydraulic oil
Viscosity	12 to 800mm ² /s
Filtration Level	10 to NAS 1638
Pressure for Auto-release of Spool	70-140 bar
Leakage (A, B, T)	20cm ³ /min at 120 bar
Nominal Flow	80 L/min
Spool Stroke	+/- 7.9mm
Actuating Force	< 220 N

Working Temperature:
-15°C to +80°C

Maximum Working Pressure:
A and B Ports: 300 bar, P Port: 250 bar,
T Port: 50 bar



Type P81 Log Splitter Valve

0479	Thread	Manufacturer's Code
1021-0023	1/2"	P81 A2 G
Tech Sheet 60387		

Description

Log splitter valve featuring an extremely fast 'rapid extend' high speed mode. It has been designed to reduce system costs by allowing a single-stage pump to be used in systems currently using two-stage (hi-low) pumps. When extra force is required the valve allows the user to manually shift from high speed mode to high force mode. A 'soft stop' differentiates between high force and high speed modes.

Construction

- Hydraulically balanced, hard chrome-plated spool
- Handle can be installed in up or down position
- Pressure release detent on retract
- 16 L/min nominal flow extends the flow up to 80 L/min
- Manual shift from high speed mode to high force mode
- Spring centre four position spool with soft stop

Working Temperature:
-15°C to +80°C

Maximum Working Pressure:
A and B Ports: 300 bar, P Port: 250 bar,
T Port: 10 bar

Mounting

Distributor is fixed with three bolts, P8. In exposed environments do NOT mount with spool in vertical position.

Port Thread Sizes:

A, B: 1/2" BSPP

P, T: 3/4" BSPP

Comes as standard with adjustable main relief valve set at 250 bar, adjustable from 20 to 250 bar.

Includes standard lever.



Type P81RS Rapid Log Splitter Valve

0479	Thread	Thread	Manufacturer's Code
1021-0038	1/2"	3/4"	P81 RS G
Tech Sheet 60428			

HYDRAULIC ACCUMULATORS & ACCESSORIES



Diaphragm Accumulators

- Low cost non-repairable accumulators
- High reliability gas sealing system, ensures no leakage
- Electron beam welded steel shell
- Parallel threads with bonded seal recess ensures easy connection with no leaks
- **Material:** steel shell electron beam welded. Non repairable
- Nitrile membrane for mineral oil or non aggressive fluid



BSPP

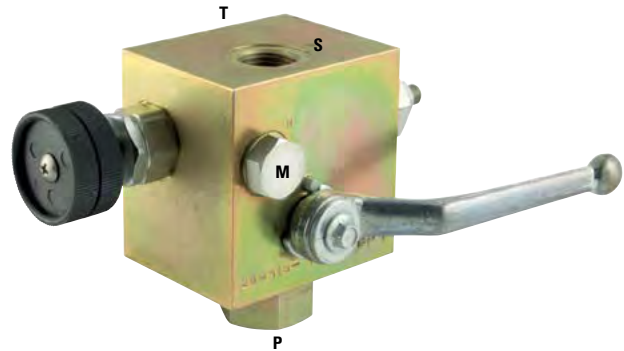
0197	Manufacturer's Code	Thread	Capacity Litres	Temp Range °C	Max Pressure Bar
E007-1515-013611	108492-01125	1/2"	0.075	-10/+80	250
E016-1515-013611	108493-01125	1/2"	0.16	-10/+80	250
E032-1515-013611	109866-01125	1/2"	0.32	-10/+80	210
E050-1515-023611	108495-01125	1/2"	0.50	-20/+80	210
E075-1515-093611	108497-01125	1/2"	0.75	-20/+80	210
E100-1515-123611	109847-01125	1/2"	1.0	-20/+80	210
E140-1515-113511	108502-01125	1/2"	1.4	-20/+80	140
E200-1515-063411	108504-01125	1/2"	2.0	-10/+80	100
E200-1515-063611	110134-01125	3/4"	2.0	-10/+80	250
E280-1515-032611	108879-01125	3/4"	2.8	-10/+80	250
E350-1515-092611	108505-01125	3/4"	3.5	-10/+80	250

Tech Sheet 10553

Safety Blocks

- Carbon steel
- All blocks fully tested
- Nitrile seals as standard, Viton available on request
- Contact technical department
- Pressure relief valve for the protection of accumulator
- Manual dump to tank as standard

Maximum Working Pressure:
360 bar



Carbon Steel

0197	BSPP S	BSPP P	BSPP T	BSPP M	Max Pressure Bar
ECA12-01-L-N	1/2"	1/2"	1/4"	1/4"	360
ECA20-01-L-N	3/4"	3/4"	3/8"	1/4"	360
ECA32-01-L-N	1/4"	1/4"	3/8"	1/4"	360

Tech Sheet 2153



HYDRAULIC ACCUMULATORS & ACCESSORIES

Hydra-Cushions

Hydracushions are a robust non repairable accumulator. They have been specifically designed for high volume, low cost applications, where it is more economical to replace a unit than to refurbish it after a long service life.

- Steel construction
- Nitrile bladder
- 1/4" gas valve

 **Maximum Working Pressure:**
172 bar



BSPP

0197	Thread	Litres
HC0E00A-00-17	1/2"	0.5
HC0100A-00-17	3/4"	1.0
HC0200A-00-17	1"	2.0
HC0400A-00-17	1.1/4"	4.0

Tech Sheet 10797

Accumulator Bladder Kits

The kit comprises of a bladder assembly, protective cap, anti extrusion ring, O-Ring for the fluid port, back up ring and seal for the bleed plug.



Oil Service

0197	Litres	Description
0B00A-00	0.16	-
0F00A-00	0.6	-
01100A-00	1	-
01C00A-00	1.15	-
0300A-00	3	5/8" Stem
03C00A-00	3	7/8" Stem
0400A-00	4	-
1000A-00	10	-
2000A-00	20	-
2800A-00	28	-
3700A-00	37	-
5400A-00	54	-

Tech Sheet 10797

Thermoswitches

For use with the LAC series of air blast coolers.



1/2" BSPP

0197	Temp °C
598262	40
598261	50
598263	60
598264	70
598265	80

Accumulator Charging Kits

For safe pre-charging of accumulators, Fawcett Christie Hydraulics offer a comprehensive range of equipment.



Universal Pre-charged

0197	Description
10597-01	0-25 & 0-250 bar Gauge
10597-02	0-60 & 0-400 bar Gauge
10597-03	0-10 & 0-160 bar Gauge

Accumulator Accessories

Designed to allow quick, easy and safe installation of accumulators. They are fabricated from steel and come complete with rubber cushion mouldings and mounting bolts.



Saddle & Clamps

0197	Bore mm
10958	112-114
10959	165-168
10960	220-230



Support Brackets

0197	To Suit
10961	4-9 Litre FCH Accumulators
10962	10-54 Litre FCH Accumulators



Cushioning Rings

0197	To Suit
48473-A00	10-54 Litre Support Brackets



Gas Valves

0197	Thread
10031-S03	1/4" x 1/4" BSPP
10053-S03	0.32" x 32 TPI
43030	0.302 x 1/2" UNF



AC Range Air Blast Oil Coolers

The LAC air oil cooler, with single-phase or three-phase AC motor, is optimised for use in the industrial sector. The maximum cooling capacity is 300kW at ETD +40°C.

See Tech Sheet for full specification on this model.

Maximum Working Temperature:
+120°C

Maximum Static Working Pressure:
21 bar
Maximum Dynamic Working Pressure:
14 bar



BSPP

0488	Thread	Voltage	KW/°C
LAC-1	1/2"	230/1/50	0.05
LAC-2	1"	230/3/50-275/3/60	0.23
LAC-3	1"	230/3/50-275/3/60	0.36
LAC-4	1"	230/3/50-275/3/60	0.59
LAC-5	1"	230/3/50-275/3/60	0.78
LAC-6	1.1/4"	230/3/50	1.75
LAC-7	1.1/4"	230/3/50	2.1

Tech Sheet 60442

DC Range Air Blast Oil Coolers

The LDC air oil cooler with 24V DC motor is optimised for use in the mobile industry. Together with a wide range of accessories, the LDC cooler is suitable for installation in most applications and environments.

The maximum cooling capacity is 30kW at +ETD 40°C.

Also available with a 12V DC motor.

See Tech Sheet for full specification on this model.

Maximum Working Temperature:
+120°C

Maximum Static Working Pressure:
21 bar
Maximum Dynamic Working Pressure:
14 bar



BSPP

0488	Thread	Voltage	KW/°C
LDC-1	1"	24V	0.12
LDC-2	1"	24V	0.19
LDC-3	1"	24V	0.3
LDC-4	1"	24V	0.38
LDC-5	1"	24V	0.6
LDC-6	1.1/4"	24V	0.72

Tech Sheet 60443

Offline Air Blast Oil Coolers

The LOC cooling system with three-phase AC motor is optimised for use in the industrial sector.

The system is supplied ready for installation. An integrated circulation pump makes it possible to cool and treat the oil in a separate circuit (offline cooling).

See Tech Sheet for full specification on this model.

Maximum Working Temperature:
+100°C

Maximum Static Working Pressure:
21 bar
Maximum Dynamic Working Pressure:
14 bar



BSPP

0488	Thread	Voltage	KW/°C
LOC-1	1"	230/3/50-275/3/60	0.07
LOC-2	1"	230/3/50-275/3/60	0.2
LOC-3	1"	230/3/50-275/3/60	0.26
LOC-4	1"	230/3/50-275/3/60	0.45
LOC-5	1"	230/3/50-275/3/60	0.61
LOC-6	1.1/4"	230/3/50	1

Tech Sheet 60444

Hydraulic Motor In-line Coolers

The LHC air oil cooler with hydraulic motor is optimised for use in the mobile and industrial sectors.

The maximum cooling capacity is 300kW at ETD +40°C.

See Tech Sheet for full specification on this model.

Maximum Working Temperature:
+120°C

Maximum Static Working Pressure:
21 bar
Maximum Dynamic Working Pressure:
14 bar



BSPP

0488	Thread	Motor Option	KW/°C
LHC-1	1"	8.4cc	0.22
LHC-2	1"	14.4cc	0.38
LHC-3	1"	10.8cc	0.58
LHC-4	1"	10.8cc	0.76
LHC-5	1.1/4"	10.8cc	1.1
LHC-6	1.1/4"	8.4cc	1.3

Tech Sheet 60445



Compact Water/Oil Coolers

The Parker PWO is a compact and lightweight water/oil cooler with a high cooling capacity for its size.

Features:

- Light and compact
- Suitable for many applications
- Easy installation
- Cost-efficient and environmentally friendly

Material:

- Plates: EN 10028/7-1.4401 (AISI 316)
- Brazing: pure copper
- Connections: EN 10272-1.4401 (AISI 316)

For full specification on this item see Tech Sheet.

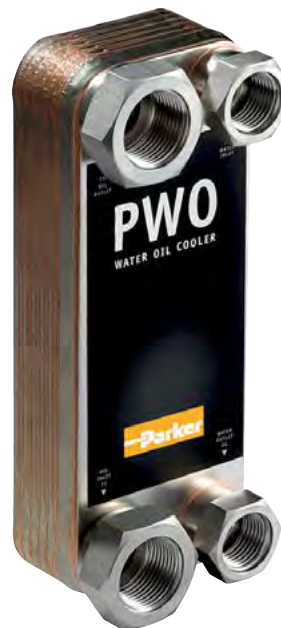
Working Temperature:
-196°C to +225°C

Maximum Working Pressure:
31 bar at 155°C

BSPP

0488	Thread	Thread	KW/°C	Type
PWO-1	3/4"	1/2"	1.5-5	B5TH
PWO-2	3/4"	1/2"	4-7	B8TH
PWO-3	3/4"	1/2"	5-17	B8TH
PWO-4	3/4"	1/2"	7-27	B8TH
PWO-5	1"	3/4"	5-27	B10TH
PWO-6	1"	3/4"	10-50	B10TH
PWO-7	1"	3/4"	10-65	B10TH
PWO-8	1.1/4"	1"	10-60	B25TH
PWO-9	1.1/4"	1"	10-80	B25TH
PWO-10	1.1/4"	1"	20-95	B25TH
PWO-11	1.1/4"	1"	20-105	B25TH

Tech Sheet 60460





Complete Water Cooler

Hydraulic oil coolers are suitable for heat transfer fluids, lubricating and quenching oils. They are high quality products incorporating the best materials and latest technical features.

The tube stack is fully floating so the thermal stresses are minimised and it can be easily removed should cleaning be necessary.

Dissipation shown in kW based on an oil outlet temperature of 50°C and a water inlet temperature 25°C at maximum oil flow rate

Maximum Working Oil Temperature:
120°C
Maximum Working Water Temperature:
110°C

Maximum Working Oil Pressure:
20 bar
Maximum Working Water Pressure:
20 bar

Higher temperature versions are available up to 200°C on request.



EC-14 Series, Fresh Water, BSPP

0379	Thread	LPM	KW
EC080-1425-1	1/2"	80	4
EC100-1425-2	3/4"	92	9
EC120-1425-3	3/4"	77	13
EC140-1425-4	3/4"	68	17
EC160-1425-5	3/4"	64	22

Tech Sheet 10199

EC-38 Series, Sea Water, BSPP

0379	Thread	LPM	KW
EC080-3875-1	1/2"	80	4
EC100-3875-2	3/4"	92	9
EC120-3875-3	3/4"	77	13
EC140-3875-4	3/4"	68	17
EC160-3875-5	3/4"	64	22

Tech Sheet 10199

FC-14 Series, Fresh Water, BSPP

0379	Thread	LPM	KW
FC080-1426-1	1"	140	13
FC100-1426-2	1"	145	19
FC120-1426-3	1"	116	26
FC140-1426-4	1"	105	35
FC160-1426-5	1"	96	45

Tech Sheet 10199

FC-38 Series, Sea Water, BSPP

0379	Thread	LPM	KW
FC080-3876-1	1"	140	13
FC100-3876-2	1"	145	19
FC120-3876-3	1"	116	26
FC140-3876-4	1"	105	35
FC160-3876-5	1"	96	45

Tech Sheet 10199

FG-14 Series, Fresh Water, BSPP

0379	Thread	LPM	KW
FG080-1427-1	1.1/4"	192	28
FG100-1427-2	1.1/4"	190	37
FG120-1427-3	1.1/4"	160	50
FG140-1427-4	1.1/4"	160	62
FG160-1427-5	1.1/4"	145	79
FG200-1427-7	1.1/4"	130	123

Tech Sheet 10199

FG-38 Series, Sea Water, BSPP

0379	Thread	LPM	KW
FG080-3877-1	1.1/4"	192	28
FG100-3877-2	1.1/4"	190	37
FG120-3877-3	1.1/4"	160	50
FG140-3877-4	1.1/4"	160	62
FG160-3877-5	1.1/4"	145	79
FG200-3877-7	1.1/4"	130	123

Tech Sheet 10199



Replacement Parts

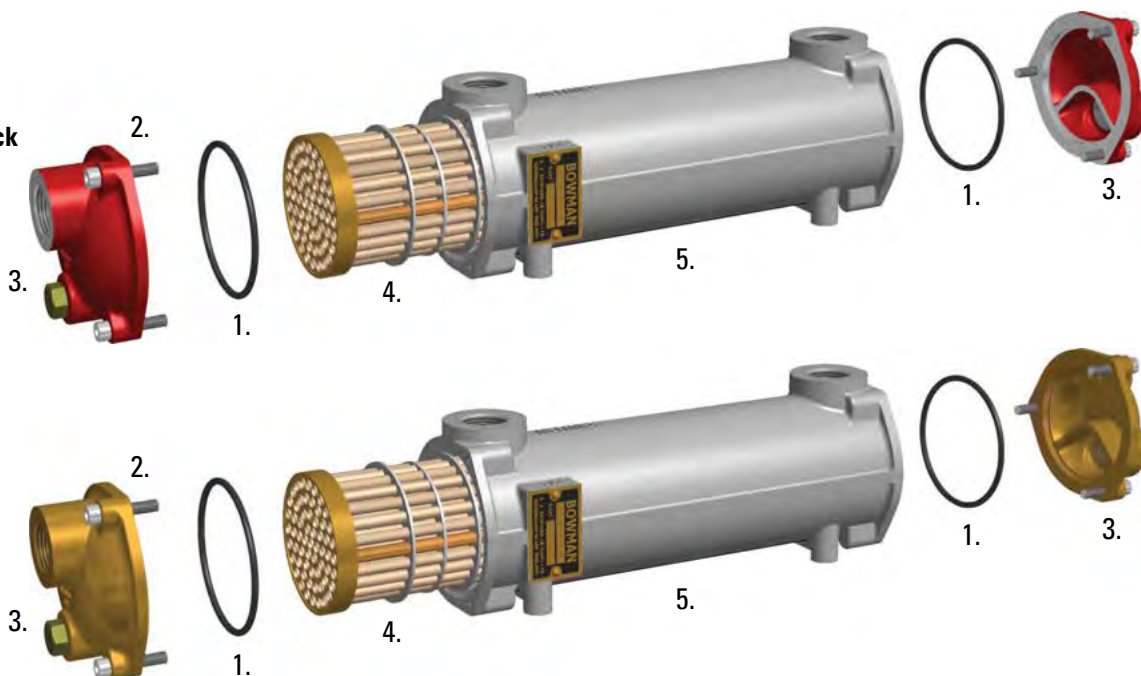
1. O-Ring

2. Screws

3. End Cap

4. Tube Stack

5. Body



EC Series, Spares

0379	Description
AN12NT	O-Ring
HS06X30	Screw
EC003-1040CI	End Cover Fresh Water
EC003-1040NB	End Cap Sea Water
785-1TN1B	EC080 Tube Stack
EC021-978AL	EC080 Body
785-2TN1B	EC100 Tube Stack
EC010-783-2AL	EC100 Body
785-3TN1B	EC120 Tube Stack
EC012-783-3AL	EC120 Body
785-4TN1B	EC140 Tube Stack
EC014-783-4AL	EC140 Body
785-5TN1B	EC160 Tube Stack
EC016-783-5AL	EC160 Body

FC Series, Spares

0379	Description
OS46NT	O-Ring
HS08X35	Screw
FC003-1281CI	End Cover Fresh Water
FC003-1281NB	End Cap Sea Water
1530-1TN1B	FC080 Tube Stack
FC008-1200-1AL	FC080 Body
1530-2TN1B	FC100 Tube Stack
FC010-1200-2AL	FC100 Body
1530-3TN1B	FC120 Tube Stack
FC012-1200-3AL	FC120 Body
1530-4TN1B	FC140 Tube Stack
FC014-1200-4AL	FC140 Body
1530-5TN1B	FC160 Tube Stack
FC016-1200-5AL	FC160 Body

FG Series, Spares

0379	Description
OS52NT	O-Ring
HS08X35-FG	Screw
FG003-1583CI	End Cover Fresh Water
FG003-1583NB	End Cap Sea Water
1959-1TN1B	FG080 Tube Stack
FG008-1650-1AL	FG080 Body
1959-2TN1B	FG100 Tube Stack
FG010-1650-2AL	FG100 Body
1959-3TN1B	FG120 Tube Stack
FG012-1650-3AL	FG120 Body
1959-4TN1B	FG140 Tube Stack
FG014-1650-4AL	FG140 Body
1959-5TN1B	FG160 Tube Stack
FG016-1650-5AL	FG160 Body
1959-7TN1B	FG200 Tube Stack
FG020-1650-7AL	FG200 Body

GL Series, Spares

0379	Description
OS63NT	O-Ring
HS10X40	Screw
GL003-3141CI	End Cover Fresh Water
GL003-3141NB	End Cap Sea Water

GK Series, Spares

0379	Description
OS69NT	O-Ring
HS12X50	Screw

JK Series, Spares

0379	Description
OS74NT	O-Ring
HS16X70	Screw

PK Series, Spares

0379	Description
OS81NT	O-Ring
HS16X70-PK	Screw



Drain Plugs

0379	To Suit
915	EC, GL & GK Series
916	JK, PK & GK Series



ANTI-VIBRATION MOUNTS

Anti-vibration Mounts

Easy-to-install design with an integral fail-safe device to provide shock and failure protection for mobile, marine or seismic stationary applications. These mounts can accommodate loads between 9kg and 826kg per mount.

- Bell and flange: DD13 or DC04 steel (UNI EN10111 ALT UNI EN10130)
- Natural rubber, zinc plated in accordance with CE standards, chrome VI free, white
- Stiffness tolerance: +/- 15%

Applications: genset, marine power engines, diesel engines, pumps and HVAC.



Engine Mounts

0500	Thread	Hardness (IRHD)	Diameter mm	Height mm	Max Working Load Kg
AVM80-45	M12	45	100	38	36.7
AVM80-60	M12	60	100	38	65.3
AVM80-70	M12	70	100	38	97.9
AVM104-45	M16	45	140	49	122.4
AVM104-60	M16	60	140	49	193.7
AVM104-70	M16	70	140	49	305.9
AVM130-45	M20	45	182	71	336.5
AVM130-60	M20	60	182	71	550.6
AVM130-70	M20	70	182	71	826.0

Tech Sheet 67984

Bobbins

Mounts can be fixed in numerous ways with either internal, external or combination threads. These can be used in compression or shear.

This range can accommodate loads from 8kg to 650kg, although we can offer from 2kg to 1,020kg on request.

- Natural rubber, zinc plated in accordance with CE standards, chrome VI free, white
- Stiffness tolerance: +/- 20%

Applications: measurement equipment, instruments, small machinery, engines, pumps and radiators.



Male x Male Bobbins

0500	Thread	Hardness (IRHD)	Diameter mm	Height mm	Max Working Load Kg
MMB-161510	M4 x 10	60	16	15	25.1
MMB-202018	M6 x 18	60	20	20	33.0
MMB-302020	M8 x 20	60	30	20	97.1
MMB-303020	M8 x 20	60	30	30	66.1
MMB-404025	M10 x 25	60	40	40	122.4
MMB-504025	M10 x 25	60	50	40	212.1
MMB-505025	M10 x 25	60	50	50	137.9
MMB-755037	M12 x 37	60	75	50	621.0

Tech Sheet 67985



Male x Female Bobbins

0500	Thread	Hardness (IRHD)	Diameter mm	Height mm	Max Working Load Kg
FMB-161510	M4 x 10	60	16	15	26.0
FMB-202018	M6 x 18	60	20	20	34.3
FMB-252518	M6 x 18	60	25	25	58.1
FMB-302020	M8 x 20	60	30	20	91.4
FMB-303020	M8 x 20	60	30	30	68.5
FMB-403023	M8 x 23	60	40	30	150.5
FMB-404025	M10 x 25	60	40	40	124.8
FMB-504025	M10 x 25	60	50	40	219.4
FMB-505025	M10 x 25	60	50	50	141.1

Tech Sheet 67986



Female x Female Bobbins

0500	Thread	Hardness (IRHD)	Diameter mm	Height mm	Max Working Load Kg
FFB-1615	M4	60	16	15	26.3
FFB-2020	M6	60	20	20	35.1
FFB-2525	M6	60	25	25	60.7
FFB-3020	M8	60	30	20	97.9
FFB-3030	M8	60	30	30	70.4
FFB-4030	M8	60	40	30	153.0
FFB-4040	M10	60	40	40	128.9
FFB-5040	M10	60	50	40	221.1
FFB-5050	M10	60	50	50	145.2
FFB-7550	M12	60	75	50	648.5

Tech Sheet 67987

3 ANTI-VIBRATION MOUNTS



Levelling Feet

These mounts are utilised as supports for various plant and machinery applications. Sizes range from 80mm up to 200mm, with loads applied from 510kg up to 4,079kg.

Plates: steel DC04 (UNI EN 10130)

Washers: steel DD12 (UNI EN 10111)

Nuts: resistance class 4

Bolts: resistance class 4.8

Other metal components: 11SMnPb 37 (UNI EN 10087)

- Natural rubber
- Zinc plated in accordance with CE standards, chrome VI free
- Stiffness tolerance: +/- 20%

Application: engines, tooling machinery, pumps, HVAC and genset.



Heavy-duty

0500	Thread	Hardness (IRHD)	Diameter mm	Min Height mm	Max Height mm	Max Working Load Kg
LFEET-8035	M12 x 1.25	80	80	122	144	510
LFEET-12040	M16 x 1.5	80	120	133	155	1020
LFEET-16050	M20 x 1.5	80	160	175	201	2039
LFEET-20060	M20 x 1.5	80	200	185	211	4079

Tech Sheet 68220

Buffers

These mounts are designed to prevent shocks and overloading thanks to their progressive absorption. This range can accommodate weights from 2kg up to 1,400kg.

- Natural rubber, zinc plated in accordance with CE standards, chrome VI free, white
- Stiffness tolerance: +/- 20%

Applications: engines, tooling machinery, pumps, special equipment, HVAC and genset.



Male Conical Buffers

0500	Thread	Hardness (IRHD)	Diameter mm	Height mm	Max Working Load Kg
MCONBUF-2425	M6 x 18	60	24	25	41.8
MCONBUF-5050	M10 x 25	60	50	50	72.4

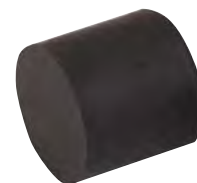
Tech Sheet 67988



Male Cylindrical Buffers

0500	Thread	Hardness (IRHD)	Diameter mm	Height mm	Max Working Load Kg
MCB-100810	M4 x 10	45	10	8	5.9
MCB-161010	M4 x 12	45	16	10	16.7
MCB-251218	M6 x 18	60	20	12	46.3
MCB-251518	M6 x 18	60	25	15	80.8
MCB-302020	M8 x 20	60	30	20	88.1
MCB-403023	M8 x 23	45	40	30	72.2
MCB-503025	M10 x 25	60	50	30	282.7
MCB-755037	M12 x 37	60	75	50	573.1

Tech Sheet 67989



Female Cylindrical Buffers

0500	Thread	Hardness (IRHD)	Diameter mm	Height mm	Max Working Load Kg
FCB-161004	M4	45	16	10	16.5
FCB-162005	M5	45	16	20	17.9
FCB-201506	M6	60	20	15	40.7
FCB-202506	M6	60	20	25	28.0
FCB-301708	M8	60	30	17	100.5
FCB-302008	M8	60	30	20	80.8
FCB-303008	M8	60	30	30	61.2
FCB-502110	M10	60	50	21	428.3
FCB-754012	M12	60	75	40	761.1

Tech Sheet 67990

SECTION 4

Quick Release Couplings



- **Hy-fitt Hydraulic Quick Release Couplings & Probes**
- **DNP Hydraulic Quick Release Couplings & Probes**
- **Parker Hydraulic Quick Release Couplings & Probes**



Anti-vibration Levelling Feet & Buffers	216	Hy-fitt High Pressure ISO 16028 Flat Face & T Series Couplings & Plugs	225
Anti-vibration Mounts & Bobbins	215	Hy-fitt ISO 5676 Trailer Brake & ISO 16028 Flat Face Couplings & Plugs	224
Bowman Complete Water Cooler Spares	214	Hy-fitt ISO A Interchange Couplings & Plugs	222
DNP Colour Safe System Coupling Rings	234	Hy-fitt ISO B Interchange Couplings & Plugs	223
DNP Colour Safe System Plug Rings	235	Parker 60 Series Couplings & Plugs	242
DNP PAV1 & PAVX Series Interchange Couplings & Plugs	228	Parker 6600 & 2000 Series Couplings & Plugs	241
DNP PAVX, PBVX & PTV1 Series Interchange Couplings & Plugs	229	Parker 70KB ULTRA-FLO Series Couplings & Plugs	249
DNP PBV1 & PBVM Series Interchange Couplings & Plugs	232	Parker QHPA, 3000 & FF2500 Series Couplings & Plugs	243
DNP PCJ5 & PCJ6 Series Ultra High Pressure Couplings & Plugs	237	Parker T15000, THP1000 & THP1500 Series Couplings & Plugs	248
DNP PLT1, PLT4, PLT5 & PLK4 Series Interchange Couplings & Plugs	233	Parker T3800 & T5000 Series Couplings & Plugs	246
DNP PLTX, PLSX & PLS1 Series Interchange Couplings & Plugs	231	Parker T7500 & T10000 Series Couplings & Plugs	247
DNP PPV3 Push/Pull Breakaway Couplings & Plugs	230	Parker TDG, TFF5000, TFF7500 & TFF10000 Series Couplings & Plugs	244
DNP PST4, PVV3 & VVS Series Couplings & Plugs	236	Parker TIF2500, TIF3800, TIF5000, T2300 & T2500 Series Couplings & Plugs	245
DNP PVS & PFT1 Series Couplings & Plugs	238	Snap-Tite 70KB, H & 71 Series Stainless Steel Couplings & Plugs	252
DNP VFF1, VFH1 & PVE1 Series Screw Couplings & Plugs	239	Snap-Tite 71 & 75 Series Couplings & Plugs	251
Hy-fitt 98 Series Screw-on, 88 Series Spin-on Couplings & Plugs	226	Snap-Tite H Series Couplings & Plugs	250



ISO A Interchange Plugs



HKPA16CS, Hy-fitt, ISO A Plugs Page 222



HKPA12CS, Hy-fitt, ISO A Plugs Page 222



HKPA08CS, Hy-fitt, ISO A Plugs Page 222



HKPA06CS, Hy-fitt, ISO A Plugs Page 222



HKPA06CS, Hy-fitt, ISO A Plugs Page 222

ISO B Interchange Plugs



HKP16B, Hy-fitt, ISO B Plugs Page 223



HKP12B, Hy-fitt, ISO B Plugs Page 223



HKP08B, Hy-fitt, ISO B Plugs Page 223



HKP06B, Hy-fitt, ISO B Plugs Page 223



HKP04B, Hy-fitt, ISO B Plugs Page 223



HKP02B, Hy-fitt, ISO B Plugs Page 223



ISO 16028 Interchange, Flat Face



HKPFF16CS, Hy-fitt, ISO 16028 Flat Face Plug Page 224



HKPFF12CS, Hy-fitt, ISO 16028 Flat Face Plug Page 224



HKPFF08CS, Hy-fitt, ISO 16028 Flat Face Plug Page 224



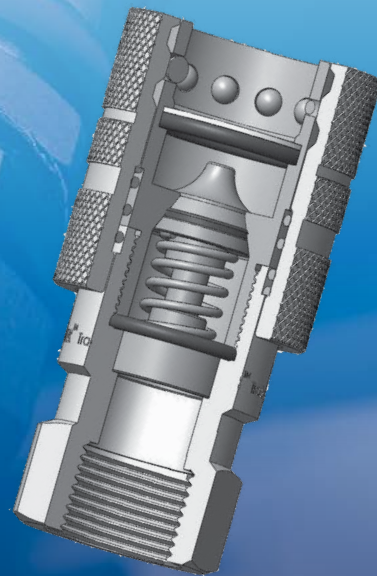
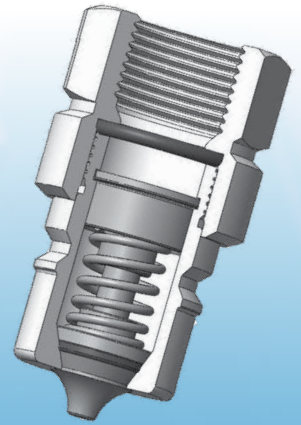
HKPFF06CS, Hy-fitt, ISO 16028 Flat Face Plug Page 224



HKPFF04CS, Hy-fitt, ISO 16028 Flat Face Plug Page 224

Note: Due to the change in finished used by our suppliers. the product you receive may differ from that illustrated.

hyfitt has a quality range of hydraulic quick release couplings which have been manufactured to the highest specification using quality materials.



The range consists of interchange couplings designed to meet or exceed ISO A, ISO B, Flat Faced ISO 16028, Trailer Break ISO 5676, Spin on High Pressure 88, 97 and 98 Series, in a variation of coated steel, stainless steel and brass.

Hy-fitt quick release couplings are tried, tested and used extensively throughout the world's manufacturing facilities and in the mobile plant industry.

Applications:

- Hydraulics
- Offshore
- Construction
- Marine
- Agriculture
- High pressure water applications
- Mining
- OEM machine building

NOW INCLUDES VITON SEALING OPTIONS FOR MORE AGGRESSIVE MEDIA

ISO A Interchange

° Working Temperature:
-25°C to +120°C Nitrile
-25°C to +175°C Viton



Carbon Steel ISO A Coupling with Nitrile Seals, BSPP

8111	Thread	Max Pressure Bar
HKSA04CS	1/4"	350
HKSA06CS	3/8"	315
HKSA08CS	1/2"	250
HKSA12CS	3/4"	250
HKSA16CS	1"	230
HKSA20CS	1.1/4"	230
HKSA24CS	1.1/2"	180
HKSA32CS	2"	130

Tech Sheet 10002



Carbon Steel ISO A Plug with Nitrile Seals, BSPP

8111	Thread	Max Pressure Bar
HKPA04CS	1/4"	350
HKPA06CS	3/8"	315
HKPA08CS	1/2"	250
HKPA12CS	3/4"	250
HKPA16CS	1"	230
HKPA20CS	1.1/4"	230
HKPA24CS	1.1/2"	180
HKPA32CS	2"	130

Tech Sheet 10002

stainless steel



316 Stainless Steel ISO A Coupling with Viton Seals, BSPP

8111	Thread	Max Pressure Bar
HFSSFC7314-V	1/4"	250
HFSSFC7338-V	3/8"	200
HFSSFC7312-V	1/2"	200
HFSSFC7334-V	3/4"	160
HFSSFC7310-V	1"	125

Tech Sheet 10002

316 Stainless Steel ISO A Coupling with Nitrile Seals, NPT

8111	Thread	Max Pressure Bar
HKSA04SS-NPT	1/4"	250
HKSA06SS-NPT	3/8"	200
HKSA08SS-NPT	1/2"	200
HKSA12SS-NPT	3/4"	160
HKSA16SS-NPT	1"	125

Tech Sheet 10002

stainless steel



316 Stainless Steel ISO A Plug with Viton Seals, BSPP

8111	Thread	Max Pressure Bar
HFSSFP7314-V	1/4"	250
HFSSFP7338-V	3/8"	200
HFSSFP7312-V	1/2"	200
HFSSFP7334-V	3/4"	160
HFSSFP7310-V	1"	125

Tech Sheet 10002

316 Stainless Steel ISO A Plug with Nitrile Seals, NPT

8111	Thread	Max Pressure Bar
HKPA04SS-NPT	1/4"	250
HKPA06SS-NPT	3/8"	200
HKPA08SS-NPT	1/2"	200
HKPA12SS-NPT	3/4"	160
HKPA16SS-NPT	1"	125

Tech Sheet 10002

Carbon Steel ISO A Coupling with Nitrile Seals, NPT

8111	Thread	Max Pressure Bar
HKSA04CS-NPT	1/4"	350
HKSA06CS-NPT	3/8"	315
HKSA08CS-NPT	1/2"	250
HKSA12CS-NPT	3/4"	250
HKSA16CS-NPT	1"	230
HKSA24CS-NPT	1.1/2"	180
HKSA32CS-NPT	2"	130

Tech Sheet 10002

Carbon Steel ISO A Plug with Nitrile Seals, NPT

8111	Thread	Max Pressure Bar
HKPA04CS-NPT	1/4"	350
HKPA06CS-NPT	3/8"	315
HKPA08CS-NPT	1/2"	250
HKPA12CS-NPT	3/4"	250
HKPA16CS-NPT	1"	230
HKPA20CS-NPT	1.1/4"	230
HKPA24CS-NPT	1.1/2"	180
HKPA32CS-NPT	2"	130

Tech Sheet 10002

Carbon Steel ISO A Coupling with Viton Seals, BSPP

8111	Thread	Max Pressure Bar
HKSA04CS-V	1/4"	350
HKSA06CS-V	3/8"	315
HKSA08CS-V	1/2"	250
HKSA12CS-V	3/4"	250
HKSA16CS-V	1"	230
HKSA20CS-V	1.1/4"	230
HKSA24CS-V	1.1/2"	180
HKSA32CS-V	2"	130

Tech Sheet 10002

Carbon Steel ISO A Plug with Viton Seals, BSPP

8111	Thread	Max Pressure Bar
HKPA04CS-V	1/4"	350
HKPA06CS-V	3/8"	315
HKPA08CS-V	1/2"	250
HKPA12CS-V	3/4"	250
HKPA16CS-V	1"	230
HKPA20CS-V	1.1/4"	230
HKPA24CS-V	1.1/2"	180
HKPA32CS-V	2"	130

Tech Sheet 10002



ISO A Coupling Dust Protection Plug

8111	To Suit
ISOADC-4	1/4"
ISOADC-6	3/8"
ISOADC-8	1/2"
ISOADC-12	3/4"
ISOADC-16	1"

Tech Sheet 10002



ISO A Plug Dust Protection Cap

8111	To Suit
ISOADP-4	1/4"
ISOADP-6	3/8"
ISOADP-8	1/2"
ISOADP-12	3/4"
ISOADP-16	1"

Tech Sheet 10002



ISO B INTERCHANGE COUPLINGS & PLUGS



ISO B Interchange

° Working Temperature:
 -25°C to +120°C Nitrile
 -25°C to +175°C Viton



Carbon Steel ISO B Coupling with Nitrile Seal, BSPP

0249	Thread	Max Pressure Bar
HKS04CS	1/4"	350
HKS06CS	3/8"	315
HKS08CS	1/2"	250
HKS12CS	3/4"	230
HKS16CS	1"	200

Tech Sheet 10003

Carbon Steel ISO B Coupling with Nitrile Seal, NPT

8111	Thread	Max Pressure Bar
HKS02CS-NPT	1/8"	350
HKS04CS-NPT	1/4"	350
HKS06CS-NPT	3/8"	315
HKS08CS-NPT	1/2"	250
HKS12CS-NPT	3/4"	250
HKS16CS-NPT	1"	230

Tech Sheet 10003



Carbon Steel ISO B Plug with Nitrile Seal, BSPP

0249	Thread	Max Pressure Bar
HKP04CS	1/4"	350
HKP06CS	3/8"	315
HKP08CS	1/2"	250
HKP12CS	3/4"	230
HKP16CS	1"	200

Tech Sheet 10003

Carbon Steel ISO B Plug with Nitrile Seal, NPT

8111	Thread	Max Pressure Bar
HKP04CS-NPT	1/4"	350
HKP06CS-NPT	3/8"	315
HKP08CS-NPT	1/2"	250
HKP12CS-NPT	3/4"	250
HKP16CS-NPT	1"	230

Tech Sheet 10003



ISO B Plug & Coupling Dust Protection Cap

8111	To Suit
ISOBDP-4	1/4"
ISOBDP-6	3/8"
ISOBDP-8	1/2"
ISOBDP-12	3/4"
ISOBDP-16	1"

Tech Sheet 10003

stainless steel



316 Stainless Steel ISO B Coupling with Nitrile Seal, BSPP

0249	Thread	Max Pressure Bar
HKS02SS	1/8"	250
HKS04SS	1/4"	250
HKS06SS	3/8"	200
HKS08SS	1/2"	200
HKS12SS	3/4"	160
HKS16SS	1"	125

Tech Sheet 10003

316 Stainless Steel ISO B Coupling with Nitrile Seal, NPT

8111	Thread	Max Pressure Bar
HKS04SS-NPT	1/4"	250
HKS06SS-NPT	3/8"	200
HKS08SS-NPT	1/2"	200
HKS12SS-NPT	3/4"	160
HKS16SS-NPT	1"	125

Tech Sheet 10003

316 Stainless Steel ISO B Coupling with Viton Seal, BSPP

0249	Thread	Max Pressure Bar
HKS02SS-V	1/8"	250
HKS04SS-V	1/4"	250
HKS06SS-V	3/8"	200
HKS08SS-V	1/2"	200
HKS12SS-V	3/4"	160
HKS16SS-V	1"	125

Tech Sheet 10003



Brass ISO B Coupling with Nitrile Seal, BSPP

0249	Thread	Max Pressure Bar
HKS02B	1/8"	200
HKS04B	1/4"	180
HKS06B	3/8"	180
HKS08B	1/2"	160
HKS12B	3/4"	120
HKS16B	1"	120

Tech Sheet 10003

Brass ISO B Coupling with Viton Seals, BSPP

0249	Thread	Max Pressure Bar
HKS02B-V	1/8"	200
HKS04B-V	1/4"	180
HKS06B-V	3/8"	180
HKS08B-V	1/2"	160
HKS12B-V	3/4"	120
HKS16B-V	1"	120

Tech Sheet 10003

Other seals available on request

stainless steel



316 Stainless Steel ISO B Plug with Nitrile Seal, BSPP

0249	Thread	Max Pressure Bar
HKP02SS	1/8"	250
HKP04SS	1/4"	250
HKP06SS	3/8"	200
HKP08SS	1/2"	200
HKP12SS	3/4"	160
HKP16SS	1"	125

Tech Sheet 10003

316 Stainless Steel ISO B Plug with Nitrile Seal, NPT

8111	Thread	Max Pressure Bar
HKP04SS-NPT	1/4"	250
HKP06SS-NPT	3/8"	200
HKP08SS-NPT	1/2"	200
HKP12SS-NPT	3/4"	160
HKP16SS-NPT	1"	125

Tech Sheet 10003

316 Stainless Steel ISO B Plug with Viton Seal, BSPP

0249	Thread	Max Pressure Bar
HKP02SS-V	1/8"	250
HKP04SS-V	1/4"	250
HKP06SS-V	3/8"	200
HKP08SS-V	1/2"	200
HKP12SS-V	3/4"	160
HKP16SS-V	1"	125

Tech Sheet 10003



Brass ISO B Plug with Nitrile Seal, BSPP

0249	Thread	Max Pressure Bar
HKP02B	1/8"	200
HKP04B	1/4"	180
HKP06B	3/8"	180
HKP08B	1/2"	160
HKP12B	3/4"	120
HKP16B	1"	120

Tech Sheet 10003

Brass ISO B Plug with Viton Seals, BSPP

0249	Thread	Max Pressure Bar
HKP02B-V	1/8"	200
HKP04B-V	1/4"	180
HKP06B-V	3/8"	180
HKP08B-V	1/2"	160
HKP12B-V	3/4"	120
HKP16B-V	1"	120

Tech Sheet 10003

Quick Release Couplings



ISO 5676 TRAILER BRAKE, INTERCHANGE COUPLINGS & PLUGS

High Pressure Screw-on Coupling (Carbon Steel), 65 Series, ISO 5676

Working Temperature:
-25°C to +120°C Nitrile

Maximum Working Pressure:
220 bar

Used to connect the hydraulic braking system of tractors to their trailers.

Socket with Nitrile Seals, BSPP & Metric

8111	Thread
HFSFC6538	3/8"
HFSFC6512	1/2"
HFSFC6518	M18 x 1.5
HFSFC6522	M22 x 1.5

Tech Sheet 2126



Plug with Nitrile Seals, BSPP & Metric

8111	Thread
HFSFP6538	3/8"
HFSFP6512	1/2"
HFSFP6518	M18 x 1.5
HFSFP6522	M22 x 1.5

Tech Sheet 2126



ISO 16028 INTERCHANGE, FLAT FACE COUPLINGS

ISO 16028 Interchange

Working Temperature:
-25°C to +120°C Nitrile

Designed to meet or exceed the requirements of ISO 16028. Flush face and dry break design facilitates easy cleaning prior to connection. Manufactured from high strength steel construction.

Other seals available on request

Steel Flat Face Coupling with Nitrile Seals, BSPP

8111	Thread	Body	Max Pressure Bar
HKSFF04CS	1/4"	1/4"	315
HKSFF06CS	3/8"	3/8"	250
HKSFF0608CS	1/2"	3/8"	250
HKSFF08CS	1/2"	1/2"	250
HKSFF12CS	3/4"	1/2"	250
HKSFF1212CS	3/4"	3/4"	250
HKSFF16CS	1"	3/4"	250
HKSFF1616CS	1"	1"	200
HKSFF2016CS	1.1/4"	1"	200

Tech Sheet 10233



Steel Flat Face Plug with Nitrile Seals, BSPP

8111	Thread	Body	Max Pressure Bar
HKPFF04CS	1/4"	1/4"	315
HKPFF06CS	3/8"	3/8"	250
HKPFF0608CS	1/2"	3/8"	250
HKPFF08CS	1/2"	1/2"	250
HKPFF12CS	3/4"	1/2"	250
HKPFF1212CS	3/4"	3/4"	250
HKPFF16CS	1"	3/4"	250
HKPFF1616CS	1"	1"	200
HKPFF2016CS	1.1/4"	1"	200

Tech Sheet 10233



Dust Protection Cap, Plug

8111	To Suit
FFDP-04	1/4"
FFDP-06	3/8"
FFDP-08	1/2"
FFDP-12	3/4"
FFDP-16	1"

Tech Sheet 10233



Dust Protection Cap, Coupling

8111	To Suit
FFDC-04	1/4"
FFDC-06	3/8"
FFDC-08	1/2"
FFDC-12	3/4"
FFDC-16	1"

Tech Sheet 10233



ISO 16028 FLAT FACE COUPLINGS



ISO 16028, High Pressure Series

Working Temperature:
-25°C to +120°C Nitrile

HP Series offers higher pressure ratings, superior flow ratings and lower pressure drops compared to our standard series. The change in the design increases the male bearing points and decreases the brinelling effect. The couplings are ideal for applications involving high pressure impulses on agriculture, mobile construction and plant equipment.

Other seals available on request.

Steel Flat Face Couplings with Nitrile Seals, BSPP



8111	Thread	Body	Max Pressure Bar
HPSFF04CS	1/4"	1/4"	420
HPSFF06CS	3/8"	3/8"	350
HPSFF0608CS	1/2"	3/8"	350
HPSFF08CS	1/2"	1/2"	330
HPSFF12CS	3/4"	1/2"	330
HPSFF01212CS	3/4"	3/4"	330
HPSFF16CS	1"	3/4"	330
HPSFF1616CS	1"	1"	300
HPSFF2016CS	1.1/4"	1"	300
Tech Sheet 10277			

Steel Flat Face Plug with Nitrile Seals, BSPP



8111	Thread	Body	Max Pressure Bar
HPPFF04CS	1/4"	1/4"	420
HPPFF06CS	3/8"	3/8"	350
HPPFF0608CS	1/2"	3/8"	350
HPPFF08CS	1/2"	1/2"	330
HPPFF12CS	3/4"	1/2"	330
HPPFF01212CS	3/4"	3/4"	330
HPPFF16CS	1"	3/4"	330
HPPFF1616CS	1"	1"	300
HPPFF2016CS	1.1/4"	1"	300
Tech Sheet 10277			

Quick Release Couplings



T SERIES HYDRAULIC QUICK RELEASE COUPLING

Manual Locking Coupling with Pressure Eliminator

Working Temperature:
-25°C to +120°C Nitrile
-25°C to +175°C Viton

The T Series coupling is designed for high pressure systems. A manually operated locking ring provides extra security against unintentional disconnection. All come complete with poppet valves and pressure eliminator.

Other seals available on request.

Interchangeability: Parker Tema

Steel Coupling, Nitrile Seals, BSPP



0385	Thread	Max Pressure Bar
TSC06CS	3/8"	350
TSC08CS	1/2"	300
TSC12CS	3/4"	280
TSC16CS	1"	250
Tech Sheet 10278		

Steel Coupling, Viton Seals, BSPP

0385	Thread	Max Pressure Bar
TSC06CS-V	3/8"	350
TSC08CS-V	1/2"	300
TSC12CS-V	3/4"	280
TSC16CS-V	1"	250
Tech Sheet 10278		

Steel Plug, Nitrile Seals, BSPP



0385	Thread	Max Pressure Bar
TSP06CS	3/8"	350
TSP08CS	1/2"	300
TSP12CS	3/4"	280
TSP16CS	1"	250
Tech Sheet 10278		

Steel Plug, Viton Seals, BSPP

0385	Thread	Max Pressure Bar
TSP06CS-V	3/8"	350
TSP08CS-V	1/2"	300
TSP12CS-V	3/4"	280
TSP16CS-V	1"	250
Tech Sheet 10278		



Screw-on Couplings, 98 Series

° Working Temperature:
-25°C to +120°C

Ideal for hydraulic dump trucks, oil field equipment, spreading equipment and applications requiring the ability to connect or disconnect under pressure.
With Standard Seals: Nitrile

Only plug and socket with same thread fit together.



Brass Body/Zinc Plated Steel Wing Nut.



Coupling, NPTF

8111	Thread	Max Pressure Bar
HFBFP9834	3/4"	210
HFBFP9810	1"	210
HFBFP98114	1.1/4"	190
HFBFP98112	1.1/2"	175

Tech Sheet 2128

Plug, NPTF

8111	Thread	Max Pressure Bar
HBFBC9834	3/4"	210
HBFBC9810	1"	210
HBFBC98114	1.1/4"	190
HBFBC98112	1.1/2"	175

Tech Sheet 2128



HIGH PRESSURE SPIN-ON COUPLINGS (CARBON STEEL) hyfitt

88 Series

° Working Temperature:
-25°C to +120°C

Maximum Working Pressure:
700 bar

This series of couplings with their threaded union locking system and precision ball-type check valves, are designed for extreme high pressure applications such as found on portable hydraulic rams.

Interchangeability:
Hansen HP3 Series
Parker 3000 Series
Faster PVVM Series

DNP PVS Series
Stucchi IVHP Series
Safeway S30 Series



Coupling with Nitrile Seals, NPTF

8111	Thread
HFSFC8814	1/4"
HFSFC8838	3/8"

Tech Sheet 10005



88 Series Aluminium Dust Covers

8111	To Suit
HFSFC-14-DP	1/4"
HFSFC-38-DP	3/8"
HFSFP-14-DC	1/4"
HFSFP-38-DC	3/8"

Tech Sheet 10005



Plug with Nitrile Seals, NPTF

8111	Thread
HFSFP8814	1/4"
HFSFP8838	3/8"

Tech Sheet 10005

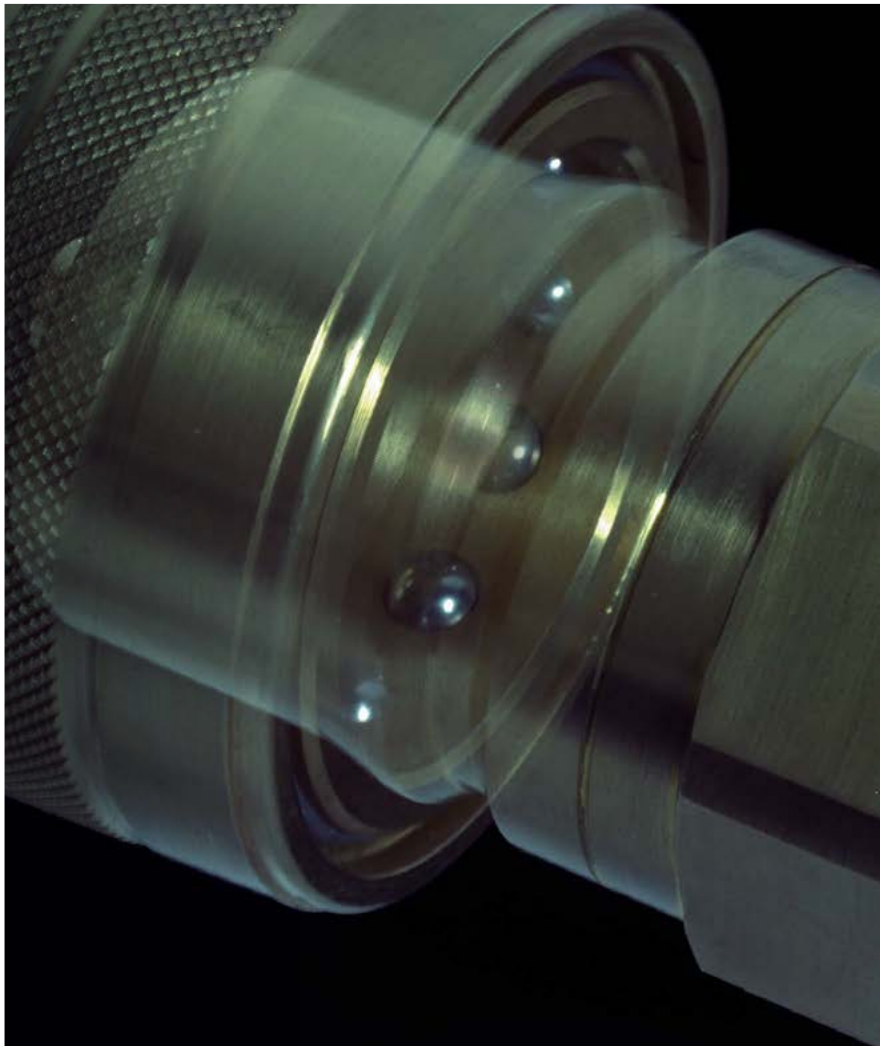


The leader in coupling innovation

- DNP combine sophisticated complex technology, highly skilled and experienced operators, tight production and assembly controls, and systematic vigorous testing in order to produce a vast range of superior couplings.
- Quality assurance ISO 9002.
- Interchangeable couplings with other major manufacturers.
- The range consists of over 60 varieties of couplings, including ISO A, ISO B, flat face, screw/ISO 14541 and push-pull, with working pressures up to 1500 bar.
- The range also includes multi-coupling plates which allow simultaneous coupling and uncoupling of a certain number of hydraulic and/or electrical lines.



- Selected ranges (flat face – PVT4 BOP, PVTX BOP, PST4 BOP and ISO B – PBV1 BOP) come with Lloyds registered approval. The range is specially designed for blow-out preventer accumulator systems in the oil and gas market.



FULL RANGE
AVAILABLE

Tech Sheet 20574

To see the latest certification consult Tech Sheet 71604

HYDRAULIC QUICK RELEASE COUPLINGS



PAV1 Series, ISO A Steel Couplings

Standard: ISO 7241-1 A

Occlusion: Poppet

Locking: Radial balls

Material: Steel

Finishing: Zn-Fe (Cr III)

Available Threads: BSP, NPT, RC, SAE

Standard Seals: Nitrile

Optional Seals: Viton, EPDM

Connection Under Pressure: Not allowed

Working Temperature:
-25°C to +100°C Nitrile
-25°C to +200°C Viton

Maximum Working Pressure:
350 bar



Coupling with Nitrile Seal, BSPP

0457	Thread	ISO	Max Pressure Bar
PAV1.0606.002	1/4"	6.3	350
PAV1.1010.002	3/8"	10	350
PAV1.1313.002	1/2"	12.5	250
PAV1.2019.002	3/4"	20	250
PAV1.2525.002	1"	25	200
PAV1.3031.002	1.1/4"	31.5	200
PAV1.3939.002	1.1/2"	40	190
PAV1.5051.002	2"	50	160

Tech Sheet 20473

Plug with Nitrile Seal, BSPP

0457	Thread	ISO	Max Pressure Bar
PAV1.0606.003	1/4"	6.3	350
PAV1.1010.003	3/8"	10	350
PAV1.1313.003	1/2"	12.5	250
PAV1.2019.003	3/4"	20	250
PAV1.2525.003	1"	25	200
PAV1.3031.003	1.1/4"	31.5	200
PAV1.3939.003	1.1/2"	40	190
PAV1.5051.003	2"	50	160

Tech Sheet 20473

Coupling with Nitrile Seal, NPT

0457	Thread	ISO	Max Pressure Bar
PAV1.0606.012	1/4"	6.3	350
PAV1.1010.012	3/8"	10	350
PAV1.1313.012	1/2"	12.5	250
PAV1.2019.012	3/4"	20	250
PAV1.2525.012	1"	25	200
PAV1.3031.012	1.1/4"	31.5	200
PAV1.3939.012	1.1/2"	40	190
PAV1.5051.012	2"	50	160

Tech Sheet 20473

Plug with Nitrile Seal, NPT

0457	Thread	ISO	Max Pressure Bar
PAV1.0606.013	1/4"	6.3	350
PAV1.1010.013	3/8"	10	350
PAV1.1313.013	1/2"	12.5	250
PAV1.2019.013	3/4"	20	250
PAV1.2525.013	1"	25	200
PAV1.3031.013	1.1/4"	31.5	200
PAV1.3939.013	1.1/2"	40	190
PAV1.5051.013	2"	50	160

Tech Sheet 20473

Coupling with Viton Seal, BSPP

0457	Thread	ISO	Max Pressure Bar
PAV1.0606.002 V	1/4"	6.3	350
PAV1.1010.002 V	3/8"	10	350
PAV1.1313.002 V	1/2"	12.5	250
PAV1.2019.002 V	3/4"	20	250
PAV1.2525.002 V	1"	25	200
PAV1.3031.002 V	1.1/4"	31.5	200
PAV1.3939.002 V	1.1/2"	40	190
PAV1.5051.002 V	2"	50	160

Tech Sheet 20473

Plug with Viton Seal, BSPP

0457	Thread	ISO	Max Pressure Bar
PAV1.0606.003 V	1/4"	6.3	350
PAV1.1010.003 V	3/8"	10	350
PAV1.1313.003 V	1/2"	12.5	250
PAV1.2019.003 V	3/4"	20	250
PAV1.2525.003 V	1"	25	200
PAV1.3031.003 V	1.1/4"	31.5	200
PAV1.3939.003 V	1.1/2"	40	190
PAV1.5051.003 V	2"	50	160

Tech Sheet 20473

PAVX Series, ISO A Stainless Steel Couplings

Standard: ISO 7241-1 A

Occlusion: Poppet

Locking: Radial balls

Material:

Stainless steel AISI 316

Available Threads:

BSP, NPT

Standard Seals: Viton

Optional Seals: FFKM, EPDM

Connection Under Pressure: Not allowed

Working Temperature:
-25°C to +200°C Viton

Maximum Working Pressure:
450 bar



Coupling, BSPP

0457	Thread	ISO	Max Pressure Bar
PAVX.0606.002	1/4"	6.3	450
PAVX.1010.002	3/8"	10	300
PAVX.1313.002	1/2"	12.5	300
PAVX.2019.002	3/4"	20	250
PAVX.2525.002	1"	25	200
PAVX.3031.002	1.1/4"	31.5	100
PAVX.3939.002	1.1/2"	40	80
PAVX.5051.002	2"	50	60

Tech Sheet 20474



Plug, BSPP

0457	Thread	ISO	Max Pressure Bar
PAVX.0606.003	1/4"	6.3	450
PAVX.1010.003	3/8"	10	300
PAVX.1313.003	1/2"	12.5	300
PAVX.2019.003	3/4"	19	250
PAVX.2525.003	1"	25	200
PAVX.3031.003	1.1/4"	31.5	100
PAVX.3939.003	1.1/2"	40	80
PAVX.5051.003	2"	50	60

Tech Sheet 20474

ISO A Protection Caps & Plugs



Plug for Coupling

0457	To Suit	Material
SPAV.06002	ISO 6.3	Plastic
SPAV.10002	ISO 10	Plastic
SPAV.13002	ISO 12.5	Plastic
SPAV.20002	ISO 20	Plastic
SPAV.25002	ISO 25	Plastic

Tech Sheet 20475



Cap for Plug


0457	To Suit	Material
SPAV.06003	ISO 6.3	Plastic
SPAV.10003	ISO 10	Plastic
SPAV.13003	ISO 12.5	Plastic
SPAV.20003	ISO 20	Plastic
SPAV.25003	ISO 25	Plastic

Tech Sheet 20475

HYDRAULIC QUICK RELEASE COUPLINGS



PAVX Series, ISO A Stainless Steel Couplings

 Working Temperature:
-25°C to +200°C Viton

 Maximum Working Pressure:
450 bar

Standard: ISO 7241-1 A
Occlusion: Poppet
Locking: Radial balls
Material: Stainless steel AISI 316

Available Threads: BSP, NPT
Standard Seals: Viton
Optional Seals: FFKM, EPDM
Connection Under Pressure: Not allowed

Coupling, BSPP

0457	Thread	ISO	Max Pressure Bar
PAVX.0606.002	1/4"	6.3	450
PAVX.1010.002	3/8"	10	300
PAVX.1313.002	1/2"	12.5	300
PAVX.2019.002	3/4"	20	250
PAVX.2525.002	1"	25	200
PAVX.3031.002	1.1/4"	31.5	100
PAVX.3939.002	1.1/2"	40	80
PAVX.5051.002	2"	50	60

Tech Sheet 20474




Plug, BSPP

0457	Thread	ISO	Max Pressure Bar
PAVX.0606.003	1/4"	6.3	450
PAVX.1010.003	3/8"	10	300
PAVX.1313.003	1/2"	12.5	300
PAVX.2019.003	3/4"	19	250
PAVX.2525.003	1"	25	200
PAVX.3031.003	1.1/4"	31.5	100
PAVX.3939.003	1.1/2"	40	80
PAVX.5051.003	2"	50	60

Tech Sheet 20474



PBVX Series, ISO B Stainless Steel Couplings

 Working Temperature:
-25°C to +200°C

 Maximum Working Pressure:
400 bar

Standard: ISO 7241-1 B
Occlusion: Poppet
Locking: Radial balls
Material: Stainless steel AISI 316

Available Threads: BSP, NPT
Standard Seals: Viton
Optional Seals: FFKM, EPDM
Connection Under Pressure: Not allowed

Coupling, BSPP

0457	Thread	ISO	Max Pressure Bar
PBVX.0404.002	1/8"	5	400
PBVX.0606.002	1/4"	6.3	350
PBVX.1010.002	3/8"	10	300
PBVX.1313.002	1/2"	12.5	300
PBVX.2019.002	3/4"	20	220
PBVX.2525.002	1"	25	200
PBVX.3931.002	1.1/4"	40	80
PBVX.3939.002	1.1/2"	40	80
PBVX.5051.002	2"	50	60

Tech Sheet 20478




Plug, BSPP


0457	Thread	ISO	Max Pressure Bar
PBVX.0404.003	1/8"	5	400
PBVX.0606.003	1/4"	6.3	350
PBVX.1010.003	3/8"	10	300
PBVX.1313.003	1/2"	12.5	300
PBVX.2019.003	3/4"	20	220
PBVX.2525.003	1"	25	200
PBVX.3931.003	1.1/4"	40	80
PBVX.3939.003	1.1/2"	40	80
PBVX.5051.003	2"	50	60

Tech Sheet 20478



PTV1 Series, Nordic Interchange Steel Couplings

 Working Temperature:
-25°C to +100°C

 Maximum Working Pressure:
300 to 370 bar

Interchange: Tema T Series
Occlusion: Poppet
Locking: Radial balls
Material: Steel
Finishing: Zn-Fe (Cr III)

Available Threads: BSP, NPT
Standard Seals: Nitrile
Optional Seals: Viton, EPDM
Connection Under Pressure: Not allowed

Coupling, BSPP

0457	Thread	ISO	Max Pressure Bar
PTV1.1010.002	3/8"	10	370
PTV1.1313.002	1/2"	12.5	350
PTV1.2019.002	3/4"	19	300
PTV1.2525.002	1"	25	300

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Plug, BSPP

0457	Thread	ISO	Max Pressure Bar
PTV1.1010.003	3/8"	10	370
PTV1.1313.003	1/2"	12.5	350
PTV1.2019.003	3/4"	19	300
PTV1.2525.003	1"	25	300

Tech Sheet 68086



HYDRAULIC QUICK RELEASE COUPLINGS



PPV3 Series, ISO A Push/Pull Breakaway Steel Couplings

° Working Temperature:
-25°C to +100°C

Maximum Working Pressure:
350 bar

Push/pull design, ideal for mobile applications using hydraulic attachments, PPV series is designed to break away in case of accidental pulls, one hand to connect and disconnect.

Standard: ISO 7241-1 A
Sleeve: Double acting
Occlusion: Poppet
Locking: Radial balls

Material: steel
Finishing: Zn-Fe (Cr III)
Available Threads: BSP, NPT, SAE, metric
Standard Seals: Nitrile
Optional Seals: Viton, EPDM
Connection Under Pressure: Not allowed



Coupling, BSPP

0457	Thread	ISO	Max Pressure Bar
PPV3.0606.112	1/4"	6.3	350
PPV3.1010.112	3/8"	10	300
PPV3.1313.112	1/2"	12.5	250
PPV3.2019.112	3/4"	19	250
PPV3.2525.112	1"	25	225

Tech Sheet 20475



Plug, BSPP

0457	Thread	ISO	Max Pressure Bar
PPV3.0606.113	1/4"	6.3	350
PPV3.1010.113	3/8"	10	300
PPV3.1313.113	1/2"	12.5	250
PPV3.2019.113	3/4"	19	250
PPV3.2525.113	1"	25	225

Tech Sheet 20475



Coupling, DIN 2353, Male Thread

0457	Thread	Size	ISO	Max Pressure Bar
PPV3.1012.302	M12 x 1.5	6L	10	300
PPV3.1014.302	M14 x 1.5	8L	10	300
PPV3.1016.302	M16 x 1.5	10L	10	300
PPV3.1018.302	M18 x 1.5	12L	10	300
PPV3.1016.402	M16 x 1.5	8S	10	300
PPV3.1018.402	M18 x 1.5	10S	10	300
PPV3.1020.402	M20 x 1.5	12S	10	300
PPV3.1314.302	M14 x 1.5	8L	12.5	250
PPV3.1316.302	M16 x 1.5	10L	12.5	250
PPV3.1318.302	M18 x 1.5	12L	12.5	250
PPV3.1322.302	M22 x 1.5	15L	12.5	250
PPV3.1326.302	M26 x 1.5	18L	12.5	250
PPV3.1318.402	M18 x 1.5	10S	12.5	250
PPV3.1320.402	M20 x 1.5	12S	12.5	250
PPV3.1322.402	M22 x 1.5	14S	12.5	250
PPV3.1324.402	M24 x 1.5	16S	12.5	250
PPV3.1330.402	M30 x 2	20S	12.5	250

Tech Sheet 20475



Plug, DIN 2353, Male Thread

0457	Thread	Size	ISO	Max Pressure Bar
PPV3.1012.303	M12 x 1.5	6L	10	300
PPV3.1014.303	M14 x 1.5	8L	10	300
PPV3.1016.303	M16 x 1.5	10L	10	300
PPV3.1018.303	M18 x 1.5	12L	10	300
PPV3.1016.403	M16 x 1.5	8S	10	300
PPV3.1018.403	M18 x 1.5	10S	10	300
PPV3.1020.403	M20 x 1.5	12S	10	300
PPV3.1314.303	M14 x 1.5	8L	12.5	250
PPV3.1316.303	M16 x 1.5	10L	12.5	250
PPV3.1318.303	M18 x 1.5	12L	12.5	250
PPV3.1322.303	M22 x 1.5	15L	12.5	250
PPV3.1326.303	M26 x 1.5	18L	12.5	250
PPV3.1318.403	M18 x 1.5	10S	12.5	250
PPV3.1320.403	M20 x 1.5	12S	12.5	250
PPV3.1322.403	M22 x 1.5	14S	12.5	250
PPV3.1324.403	M24 x 1.5	16S	12.5	250
PPV3.1330.403	M30 x 2	20S	12.5	250

Tech Sheet 20475



Coupling, DIN 2353, Male Bulkhead Thread

0457	Thread	Size	ISO	Max Pressure Bar
PPV3.1012.502	M12 x 1.5	6L	10	300
PPV3.1014.502	M14 x 1.5	8L	10	300
PPV3.1016.502	M16 x 1.5	10L	10	300
PPV3.1018.502	M18 x 1.5	12L	10	300

Tech Sheet 20475



Plug, DIN 2353, Male Bulkhead Thread

0457	Thread	Size	ISO	Max Pressure Bar
PPV3.1012.503	M12 x 1.5	6L	10	300
PPV3.1014.503	M14 x 1.5	8L	10	300
PPV3.1016.503	M16 x 1.5	10L	10	300
PPV3.1018.503	M18 x 1.5	12L	10	300
PPV3.1016.603	M16 x 1.5	8S	10	300
PPV3.1018.603	M18 x 1.5	10S	10	300
PPV3.1020.603	M20 x 1.5	12S	10	300
PPV3.1314.503	M14 x 1.5	8L	12.5	250
PPV3.1316.503	M16 x 1.5	10L	12.5	250
PPV3.1318.503	M18 x 1.5	12L	12.5	250
PPV3.1322.503	M22 x 1.5	15L	12.5	250
PPV3.1326.503	M26 x 1.5	18L	12.5	250
PPV3.1318.603	M18 x 1.5	10S	12.5	250
PPV3.1320.603	M20 x 1.5	12S	12.5	250
PPV3.1322.603	M22 x 1.5	14S	12.5	250
PPV3.1324.603	M24 x 1.5	16S	12.5	250
PPV3.1330.603	M30 x 2	20S	12.5	250

Tech Sheet 20475



The DNP range also includes multi-coupling plates which allow simultaneous coupling and uncoupling of a certain number of hydraulic and/or electrical lines.



HYDRAULIC QUICK RELEASE COUPLINGS

stainless steel



PLTX Series, ISO 16028 Flat Face Couplings, Stainless Steel

Standard: ISO 16028
Occlusion: Flat face
Locking: Radial balls
Material: Stainless steel AISI 316

Available Threads: BSP, NPT, SAE
Standard Seals: Viton
Optional Seals: EPDM, FFKM
Connection Under Pressure: Not allowed

Working Temperature:
 -25°C to +100°C
Maximum Working Pressure: 350 bar



Coupling, BSPP

0457	Thread	ISO	Max Pressure Bar
PLTX.0606.112	1/4"	6.3	400
PLTX.1310.112	3/8"	10	250
PLTX.1313.112	1/2"	10	250
PLTX.2013.112	1/2"	12.5	250
PLTX.2019.112	3/4"	12.5	250
PLTX.2519.112	3/4"	19	250
PLTX.2525.112	1"	19	250
PLTX.3031.112	1.1/4"	25	250
PLTX.3939.112	1.1/2"	40	150
PLTX.5051.112	2"	50	100

Tech Sheet 20483



Plug, BSPP

0457	Thread	ISO	Max Pressure Bar
PLTX.0606.113	1/4"	6.3	400
PLTX.1310.113	3/8"	10	250
PLTX.1313.113	1/2"	10	250
PLTX.2013.113	1/2"	12.5	250
PLTX.2019.113	3/4"	12.5	250
PLTX.2519.113	3/4"	19	250
PLTX.2525.113	1"	19	250
PLTX.3031.113	1.1/4"	25	250
PLTX.3939.113	1.1/2"	40	150
PLTX.5051.113	2"	50	100

Tech Sheet 20483

PLSX Series, Flat Face, Stainless Steel

Interchange: Snap-Tite 71
Occlusion: Flat face
Locking: Radial balls
Material: Stainless steel AISI 316

Available Threads: BSP, NPT
Standard Seals: Viton
Optional Seals: FFKM, EPDM
Connection Under Pressure: Not allowed

Working Temperature:
 -25°C to +100°C
Maximum Working Pressure: 350 bar



Coupling, BSPP

0457	Thread	ISO	Max Pressure Bar
PLSX.0606.112	1/4"	6.3	350
PLSX.1010.112	3/8"	10	350
PLSX.1013.112	1/2"	10	350
PLSX.1313.112	1/2"	12.5	350
PLSX.2019.112	3/4"	19	350
PLSX.2525.112	1"	25	350
PLSX.2531.112	1.1/4"	25	350

Tech Sheet 20485



Plug, BSPP

0457	Thread	ISO	Max Pressure Bar
PLSX.0606.113	1/4"	6.3	350
PLSX.1010.113	3/8"	10	350
PLSX.1013.113	1/2"	10	350
PLSX.1313.113	1/2"	12.5	350
PLSX.2019.113	3/4"	19	350
PLSX.2525.113	1"	25	350
PLSX.2531.113	1.1/4"	25	350

Tech Sheet 20485

PLS1 Series, Flat Face

Material: Steel
Finishing: Zn-Fe (Cr III)
Available Threads: BSP, NPT, SAE

Standard Seals: Nitrile
Optional Seals: Viton, EPDM
Connection Under Pressure: Not allowed



Coupling, BSPP

0457	Thread	ISO	Max Pressure Bar
PLS1.0606.112	1/4"	6.3	350
PLS1.1010.112	3/8"	10	350
PLS1.1013.112	1/2"	10	350
PLS1.1313.112	1/2"	12.5	350
PLS1.2019.112	3/4"	19	350
PLS1.2525.112	1"	25	350
PLS1.2531.112	1.1/4"	25	350

Tech Sheet 20484



Plug, BSPP

0457	Thread	ISO	Max Pressure Bar
PLS1.0606.113	1/4"	6.3	350
PLS1.1010.113	3/8"	10	350
PLS1.1013.113	1/2"	10	350
PLS1.1313.113	1/2"	12.5	350
PLS1.2019.113	3/4"	19	350
PLS1.2525.113	1"	25	350
PLS1.2531.113	1.1/4"	25	350

Tech Sheet 20484

ISO 16028 Flat Face Protection Caps & Plugs

Plug for Coupling

Cap for Plug



Plug for Coupling

0457	To Suit	Material
SPLT.06002	ISO 6.3	Plastic
SPLT.13002	ISO 10	Plastic
SPLT.20002	ISO 12.5	Plastic
SPLT.25002	ISO 19	Plastic
SPLT.30002	ISO 25	Plastic
SPLT.39202	ISO 40	Aluminium

Cap for Plug

0457	To Suit	Material
SPLT.06003	ISO 6.3	Plastic
SPLT.13003	ISO 10	Plastic
SPLT.20003	ISO 12.5	Plastic
SPLT.25003	ISO 19	Plastic
SPLT.30003	ISO 25	Plastic
SPLT.39203	ISO 40	Aluminium

ISO 16028 Automatic Caps



Cap for Coupling

0457	To Suit	Colour
SPLT.13302	ISO 10	Red
SPLT.13342	ISO 10	Black
SPPV.13302	ISO 12.5	Black
SPPV.13312	ISO 12.5	Black
SPPV.13322	ISO 12.5	Yellow
SPPV.13332	ISO 12.5	Green
SPPV.13342	ISO 12.5	Red

Tech Sheet 20483





PBV1 Series, ISO B Steel Couplings

Standard: ISO 7241-1 B

Occlusion: Poppet

Locking: Radial balls

Material: Steel

Finishing: Zn-Fe (Cr III)

Available Threads: BSP, NPT

Standard Seals: Nitrile

Optional Seals: Viton, EPDM

Connection Under Pressure: Not allowed

Working Temperature:
-25°C to +100°C

Maximum Working
Pressure:
500 bar



Coupling, BSPP

0457	Thread	ISO	Max Pressure Bar
PBV1.0404.002	1/8"	5	500
PBV1.0606.002	1/4"	6.3	250
PBV1.1010.002	3/8"	10	250
PBV1.1313.002	1/2"	12.5	250
PBV1.2019.002	3/4"	20	250
PBV1.2525.002	1"	25	250
PBV1.3931.002	1.1/4"	40	200
PBV1.3939.002	1.1/2"	40	200
PBV1.5051.002	2"	50	100

Tech Sheet 20476



Plug, BSPP

0457	Thread	ISO	Max Pressure Bar
PBV1.0404.003	1/8"	5	500
PBV1.0606.003	1/4"	6.3	250
PBV1.1010.003	3/8"	10	250
PBV1.1313.003	1/2"	12.5	250
PBV1.2019.003	3/4"	20	250
PBV1.2525.003	1"	25	250
PBV1.3931.003	1.1/4"	40	200
PBV1.3939.003	1.1/2"	40	200
PBV1.5051.003	2"	50	100

Tech Sheet 20476

PBVM Series, ISO B Brass Couplings

Standard: ISO 7241-1 B

Occlusion: Poppet

Locking: Radial balls

Material: Brass

Finishing: Nickel plating on request

Available Threads: BSP, NPT

Standard Seals: Viton

Optional Seals: FFKM, EPDM

Connection Under Pressure: Not allowed

Working Temperature:
-25°C to +200°C

Maximum Working
Pressure:
300 bar



Coupling, BSPP

0457	Thread	ISO	Max Pressure Bar
PBVM.0404.002	1/8"	5	300
PBVM.0606.002	1/4"	6.3	200
PBVM.1010.002	3/8"	10	200
PBVM.1313.002	1/2"	12.5	180
PBVM.2019.002	3/4"	20	130
PBVM.2525.002	1"	25	130
PBVM.3931.002	1.1/4"	40	60
PBVM.3939.002	1.1/2"	40	60
PBVM.5051.002	2"	50	50

Tech Sheet 20477



Plug, BSPP

0457	Thread	ISO	Max Pressure Bar
PBVM.0404.003	1/8"	5	300
PBVM.0606.003	1/4"	6.3	200
PBVM.1010.003	3/8"	10	200
PBVM.1313.003	1/2"	12.5	180
PBVM.2019.003	3/4"	20	130
PBVM.2525.003	1"	25	130
PBVM.3931.003	1.1/4"	40	60
PBVM.3939.003	1.1/2"	40	60
PBVM.5051.003	2"	50	50

Tech Sheet 20477

ISO B Protection Caps & Plugs



Cap for Plug

Plug for Coupling

Plug for Coupling

0457	To Suit	Material
SPBV.06002	ISO 6.3	Plastic
SPBV.10002	ISO 10	Plastic
SPBV.13002	ISO 12.5	Plastic
SPBV.20002	ISO 20	Plastic
SPBV.25002	ISO 25	Plastic
SPBV.06202	ISO 6.3	Aluminium
SPBV.10202	ISO 10	Aluminium
SPBV.13202	ISO 12.5	Aluminium
SPBV.20202	ISO 20	Aluminium
SPBV.25202	ISO 25	Aluminium

Cap for Plug

0457	To Suit	Material
SPBV.06003	ISO 6.3	Plastic
SPBV.10003	ISO 10	Plastic
SPBV.13003	ISO 12.5	Plastic
SPBV.20003	ISO 20	Plastic
SPBV.25003	ISO 25	Plastic
SPBV.06203	ISO 6.3	Aluminium
SPBV.10203	ISO 10	Aluminium
SPBV.13203	ISO 12.5	Aluminium
SPBV.20203	ISO 20	Aluminium
SPBV.25203	ISO 25	Aluminium

HYDRAULIC QUICK RELEASE COUPLINGS



PLT1 Series, ISO 16028 Flat Face Couplings

Standard: ISO16028
Occlusion: Flat face
Locking: Radial balls
Material: Steel
Finishing: Zn-Fe (Cr III)
Available Threads: BSP, NPT, SAE
Standard Seals: Nitrile
Optional Seals: Viton, EPDM
Connection Under Pressure: Not allowed

Working Temperature: -25°C to +100°C
Maximum Working Pressure: 300 bar



Coupling, BSPP

0457	Thread	ISO	Max Pressure Bar
PLT1.0606.002	1/4"	6.3	300
PLT1.1310.002	3/8"	10	250
PLT1.1313.002	1/2"	10	250
PLT1.2013.002	1/2"	12.5	250
PLT1.2019.002	3/4"	12.5	250
PLT1.2519.002	3/4"	19	250
PLT1.2525.002	1"	19	250
PLT1.3031.002	1.1/4"	25	250
PLT1.3939.002	1.1/2"	40	250
PLT1.5051.112	2"	50	250

Tech Sheet 20479



Plug, BSPP

0457	Thread	ISO	Max Pressure Bar
PLT1.0606.003	1/4"	6.3	300
PLT1.1310.003	3/8"	10	250
PLT1.1313.003	1/2"	10	250
PLT1.2013.003	1/2"	12.5	250
PLT1.2019.003	3/4"	12.5	250
PLT1.2519.003	3/4"	19	250
PLT1.2525.003	1"	19	250
PLT1.3031.003	1.1/4"	25	250
PLT1.3939.003	1.1/2"	40	250
PLK4.5051.113	2"	50	250

Tech Sheet 20479

PLT4 Series, ISO 16028 Flat Face Couplings

High working pressures to 7.350 psi/500 bar, sleeve lock device, locking radial balls. PLT 4 series is ideal for non-spill high pressure and high impulse applications.

Working Temperature: -25°C to +100°C
Maximum Working Pressure: 500 bar

Standard: ISO16028
Occlusion: Flat face
Locking: Radial balls
Material: Steel
Finishing: Zn-Fe (Cr III) and Zn-Ni
Available Threads: BSP, NPT, SAE, metric
Standard Seals: Nitrile and PU
Optional Seals: Viton, EPDM
Connection Under Pressure: Not allowed



Coupling, BSPP

0457	Thread	ISO	Max Pressure Bar
PLT4.0606.112	1/4"	6.3	500
PLT4.1310.112	3/8"	10	400
PLT4.1313.112	1/2"	10	350
PLT4.2013.112	1/2"	12.5	350
PLT4.2019.112	3/4"	12.5	350
PLT4.2519.112	3/4"	19	350
PLT4.2525.112	1"	19	350
PLT4.3025.112	1"	25	350
PLT4.3031.112	1.1/4"	25	350

Tech Sheet 20480

Coupling, SAE

0457	Thread	ISO	Max Pressure Bar
PLT4.1319.032	3/4"	10	350
PLT4.2027.032	1.1/16"	12.5	350

Tech Sheet 20480



Plug, BSPP

0457	Thread	ISO	Max Pressure Bar
PLT4.0606.113	1/4"	6.3	500
PLT4.1310.113	3/8"	10	400
PLT4.1313.113	1/2"	10	350
PLT4.2013.113	1/2"	12.5	350
PLT4.2019.113	3/4"	12.5	350
PLT4.2519.113	3/4"	19	350
PLT4.2525.113	1"	19	350
PLT4.3025.113	1"	25	350
PLT4.3031.113	1.1/4"	25	350

Tech Sheet 20480

Plug, SAE

0457	Thread	ISO	Max Pressure Bar
PLT4.1319.033	3/4"	10	350
PLT4.2027.033	1.1/16"	12.5	350

Tech Sheet 20480

PLT5 Series, ISO 16028 Flat Face Plug for Hydraulic Hammer

Standard: ISO16028
Occlusion: Flat face
Locking: Radial balls
Material: High resistance steel
Finishing: Zn-Fe (Cr III) and Zn-Ni
Available Threads: BSP, NPT, SAE
Standard Seals: Nitrile and PU
Optional Seals: Viton, EPDM
Connection Under Pressure: Not allowed

Working Temperature: -25°C to +100°C
Maximum Working Pressure: 350 bar



Plug, BSPP

0457	Thread	ISO	Max Pressure Bar
PLT5.2519.113	3/4"	19	350
PLT5.2525.113	1"	19	350
PLT5.3025.113	1"	25	350
PLT5.3031.113	1.1/4"	25	350

Tech Sheet 20481

PLK4 Series, ISO 16028 Flat Face Plug, Connect Under Pressure

Interchanges with any ISO16028 quick disconnect, connect under pressure to 3,675 psi/250 bar, high pressure up to 5,800 psi/400 bar, flat face, non-spill design, high resistance steel. PLK4 series is ideal for systems that need to be connected under residual pressure, high pressure applications, attachments that may have trapped pressure in the system.

Standard: ISO16028
Occlusion: Flat face
Locking: Radial balls
Material: High resistance steel
Finishing: Zn-Fe (Cr III) and Zn-Ni
Available Threads: BSP, NPT, SAE, metric
Standard Seals: Nitrile and PU
Optional Seals: Viton, EPDM
Connection Under Pressure: Allowed (male side only)
Maximum Residual Pressure: 250 bar



Plug, BSPP

0457	Thread	ISO	Max Pressure Bar
PLK4.0606.113	1/4"	6.3	400
PLK4.1310.113	3/8"	10	350
PLK4.1313.113	1/2"	10	350
PLK4.2013.113	1/2"	12.5	350
PLK4.2019.113	3/4"	12.5	350
PLK4.2519.113	3/4"	19	300
PLK4.2525.113	1"	19	300
PLK4.3025.113	1"	25	300
PLK4.3031.113	1.1/4"	25	300
PLK4.3939.113	1.1/2"	40	250
PLK4.5051.113	2"	50	250

Tech Sheet 20482

PLT Colour Safe System

- For use with PLT1, PLT4, PLT5 and PLTX series couplings
- Helps keep workers safe
- Helps to prevent equipment damage
- Easy to use and implement



Coupling Colour Ring, ISO 6.3

0457	Colour
PLT.006.802	Red
PLT.006.812	Yellow
PLT.006.822	Green
PLT.006.832	Blue
PLT.006.852	White
PLT.006.862	Grey
PLT.006.872	Orange
PLT.006.882	Violet
PLT.006.892	Brown
Tech Sheet 68088	

Coupling Colour Ring, ISO 10

0457	Colour
PLT.013.802	Red
PLT.013.812	Yellow
PLT.013.822	Green
PLT.013.832	Blue
PLT.013.852	White
PLT.013.862	Grey
PLT.013.872	Orange
PLT.013.882	Violet
PLT.013.892	Brown
Tech Sheet 68088	

Coupling Colour Ring, ISO 12.5

0457	Colour
PLT.019.802	Red
PLT.019.812	Yellow
PLT.019.822	Green
PLT.019.832	Blue
PLT.019.852	White
PLT.019.862	Grey
PLT.019.872	Orange
PLT.019.882	Violet
PLT.019.892	Brown
Tech Sheet 68088	

Coupling Colour Ring, ISO 16

0457	Colour
PLT.022.802	Red
PLT.022.812	Yellow
PLT.022.822	Green
PLT.022.832	Blue
PLT.022.872	Orange
Tech Sheet 68088	

Coupling Colour Ring, ISO 19

0457	Colour
PLT.025.802	Red
PLT.025.812	Yellow
PLT.025.822	Green
PLT.025.832	Blue
PLT.025.842	Black
PLT.025.872	Orange
Tech Sheet 68088	

Coupling Colour Ring, ISO 25

0457	Colour
PLT.030.802	Red
PLT.030.812	Yellow
PLT.030.822	Green
PLT.030.832	Blue
PLT.030.842	Black
PLT.030.872	Orange
Tech Sheet 68088	

HYDRAULIC QUICK RELEASE COUPLINGS



PLT Colour Safe System

- Helps keep workers safe
- Helps to prevent equipment damage
- Easy to use and implement



Plug Colour Ring, ISO 6.3 for use with PLT1, PLT4 & PLTX

0457	Colour
PLT.006.803	Red
PLT.006.813	Yellow
PLT.006.833	Blue
PLT.006.853	White
PLT.006.863	Grey
PLT.006.873	Orange
PLT.006.883	Violet
PLT.006.893	Brown

Tech Sheet 68088

Plug Colour Ring, ISO 10 for use with PLT4 & PLTX

0457	Colour
PLT.013.803	Red
PLT.013.813	Yellow
PLT.013.823	Green
PLT.013.833	Blue
PLT.013.853	White
PLT.013.863	Grey
PLT.013.873	Orange
PLT.013.883	Violet
PLT.013.893	Brown

Tech Sheet 68088

Plug Colour Ring, ISO 10 for use with PLT1

0457	Colour
PLT.613.803	Red
PLT.613.813	Yellow
PLT.613.823	Green
PLT.613.833	Blue
PLT.613.843	Black
PLT.613.853	White
PLT.613.873	Orange
PLT.613.893	Brown

Tech Sheet 68088

Plug Colour Ring, ISO 12.5 for use with PLT1, PLT4 & PLTX

0457	Colour
PLT.019.803	Red
PLT.019.813	Yellow
PLT.019.823	Green
PLT.019.833	Blue
PLT.019.853	White
PLT.019.863	Grey
PLT.019.873	Orange
PLT.019.883	Violet
PLT.019.893	Brown

Tech Sheet 68088

Plug Colour Ring, ISO 16 for use with PLT1, PLT4 & PLTX

0457	Colour
PLT.022.803	Red
PLT.022.813	Yellow
PLT.022.823	Green
PLT.022.833	Blue
PLT.022.873	Orange

Tech Sheet 68088

Plug Colour Ring, ISO 19 for use with PLT1, PLT4, PLT5 & PLTX

0457	Colour
PLT.025.803	Red
PLT.025.813	Yellow
PLT.025.823	Green
PLT.025.833	Blue
PLT.025.843	Black
PLT.025.873	Orange

Tech Sheet 68088

Plug Colour Ring, ISO 25 for use with PLT4.3031.113, PLT4.3031.013 & PLT4.3041.033

0457	Colour
PLT.030.803	Red
PLT.030.813	Yellow
PLT.030.823	Green
PLT.030.833	Blue
PLT.030.843	Black
PLT.030.873	Orange

Tech Sheet 68088



HYDRAULIC QUICK RELEASE COUPLINGS



PST4 Series, Screw to Connect Flat Face Couplings

Interchanges with Stucchi VEP, high-tech anti-corrosion plating salt spray tested for 700 hours before any appearance of surface red rust, high working pressures, connects and disconnects by hand up to 4,400 psi/300 bar, seal is blowout resistant to 4,400 psi/300 bar when connecting or disconnecting with residual pressure. Exceeds 1,000,000 impulse cycles, flat face design eliminates spillage upon disconnection, thread to connect style coupling eliminates brinelling issues, heavy-duty hex nut.

Interchangeability: Stucchi VEP
Occlusion: Flat face
Locking: Screw
Material: Steel
Finishing: Zn-Fe (Cr III) and Zn-Ni

Available Threads: BSP, NPT, SAE
Standard Seals: Nitrile and PU
Optional Seals: Viton, EPDM
Connection Under Pressure: Allowed (both male or female side)

Maximum Residual Pressure: 300 bar
Working Temperature: -25°C to +100°C

Maximum Working Pressure: 450 bar



Coupling, BSPP

0457	Thread	ISO	Max Pressure Bar
PST4.0606.112	1/4"	6.3	450
PST4.1310.112	3/8"	10	350
PST4.1313.112	1/2"	10	350
PST4.2013.112	1/2"	12.5	350
PST4.2019.112	3/4"	12.5	350
PST4.2519.112	3/4"	19	350
PST4.2525.112	1"	19	350
PST4.3025.112	1"	25	350
PST4.3031.112	1.1/4"	25	350
PST4.3939.112	1.1/2"	40	300

Tech Sheet 20486

Plug, BSPP

0457	Thread	ISO	Max Pressure Bar
PST4.0606.113	1/4"	6.3	450
PST4.1310.113	3/8"	10	350
PST4.1313.113	1/2"	10	350
PST4.2013.113	1/2"	12.5	350
PST4.2019.113	3/4"	12.5	350
PST4.2519.113	3/4"	19	350
PST4.2525.113	1"	19	350
PST4.3025.113	1"	25	350
PST4.3031.113	1.1/4"	25	350
PST4.3939.113	1.1/2"	40	300

Tech Sheet 20486



PVV3 Series, ISO 14541 Screw Couplings

Standard: ISO 14541
Occlusion: Poppet
Locking: Screw
Material: Steel

Finishing: Zn-Fe (Cr III)
Available Threads: BSP, NPT, SAE, metric
Standard Seals: Nitrile
Optional Seals: Viton, EPDM

Connection Under Pressure: Allowed (both male or female side)
Maximum Residual Pressure: working pressure

Working Temperature: -25°C to +100°C

Maximum Working Pressure: 450 bar



Coupling, BSPP

0457	Thread	ISO	Max Pressure Bar
PVV3.0606.112	1/4"	6.3	450
PVV3.1010.112	3/8"	10	400
PVV3.1313.112	1/2"	12.5	400
PVV3.2019.112	3/4"	19	300
PVV3.2525.112	1"	25	300
PVV3.3031.112	1.1/4"	31.5	300
PVV3.3039.112	1.1/2"	31.5	300

Tech Sheet 20487

Plug, BSPP

0457	Thread	ISO	Max Pressure Bar
PVV3.0606.113	1/4"	6.3	450
PVV3.1010.113	3/8"	10	400
PVV3.1313.113	1/2"	12.5	400
PVV3.2019.113	3/4"	19	300
PVV3.2525.113 T	1"	25	300
PVV3.3031.113 T	1.1/4"	31.5	300
PVV3.3039.113 T	1.1/2"	31.5	300

Tech Sheet 20487



VVS High Pressure Screw Couplings & Plugs

Interchange: VVS faster
Occlusion: Poppet
Locking: Screw
Material: Steel

Finishing: Zn-Fe (Cr III)
Available Threads: BSP, NPT
Standard Seals: Nitrile

Optional Seals: Viton, EPDM
Connection Under Pressure: Allowed (both male or female side)

Working Temperature: -25°C to +100°C

Working Pressure: 210 to 650 bar



Coupling, BSPP

0457	Thread	ISO	Max Pressure Bar
VVV1.1010.002	3/8"	10	650
VVV1.1313.002	1/2"	12.5	600
VVV1.2019.002	3/4"	19	500
VVV1.2525.002	1"	25	460
VVV1.3031.002	1.1/4"	31.5	360
VVV1.3939.002	1.1/2"	40	360
VVV1.5051.002	2"	50	210

Tech Sheet 68087

Plug, BSPP

0457	Thread	ISO	Max Pressure Bar
VVV1.1010.003	3/8"	10	650
VVV1.1313.003	1/2"	12.5	600
VVV1.2019.003	3/4"	19	500
VVV1.2525.003	1"	25	460
VVV1.3031.003	1.1/4"	31.5	360
VVV1.3939.003	1.1/2"	40	360
VVV1.5051.003	2"	50	210

Tech Sheet 68087



PST4 Series, Protection Caps & Plugs

Plug for Coupling



Cap for Plug



Plug for Coupling

0457	To Suit	Material
SPST.06202	ISO 6.3	Aluminium
SPST.13202	ISO 10	Aluminium
SPST.20202	ISO 12.5	Aluminium
SPST.25202	ISO 19	Aluminium
SPST.30202	ISO 25	Aluminium
SPST.39202	ISO 40	Aluminium

Cap for Plug

0457	To Suit	Material
SPST.06203	ISO 6.3	Aluminium
SPST.13203	ISO 10	Aluminium
SPST.20203	ISO 12.5	Aluminium
SPST.25203	ISO 19	Aluminium
SPST.30203	ISO 25	Aluminium
SPST.39203	ISO 40	Aluminium

ISO 14541 Protection Caps & Plugs

Cap for Plug



Plug for Coupling



Plug for Coupling

0457	To Suit	Material
SPVV.06002	ISO 6.3	Polypropylene
SPVV.10002	ISO 10	Polypropylene
SPVV.13002	ISO 12.5	Polypropylene
SPVV.20002	ISO 20	Polypropylene
SPVV.25002	ISO 25	Polypropylene
SPVV.30002	ISO 31.5	Polypropylene
SPVV.10202	ISO 10	Aluminium
SPVV.13202	ISO 12.5	Aluminium
SPVV.20202	ISO 20	Aluminium
SPVV.25202	ISO 25	Aluminium
SPVV.30202	ISO 31.5	Aluminium

Cap for Plug

0457	To Suit	Material
SPVV.06003	ISO 6.3	Polypropylene
SPVV.10003	ISO 10	Polypropylene
SPVV.13003	ISO 12.5	Polypropylene
SPVV.20003	ISO 20	Polypropylene
SPVV.25003	ISO 25	Polypropylene
SPVV.30003	ISO 31.5	Polypropylene
SPVV.10203	ISO 10	Aluminium
SPVV.13203	ISO 12.5	Aluminium
SPVV.20203	ISO 20	Aluminium
SPVV.25203	ISO 25	Aluminium
SPVV.30203	ISO 31.5	Aluminium



HYDRAULIC QUICK RELEASE COUPLINGS

PCJ5 Series, Ultra High Pressure Couplings

DNP standard, interchange with CEJN 115 series, 15,000 psi/1,000 bar working pressure, high resistance steel, locking radial balls. Tested 100% with helium at low and high pressure. PCJ5 series is ideal for high pressure tools and torque equipment.

Interchangeability: Cejn 115

Occlusion: Poppet

Locking: Radial balls

Material: High resistance steel

Finishing: Zn-Fe (Cr III)

Available Threads: BSP, NPT

Standard Seals: Special compound

Safety Factor: 1:2,5

Test: with helium, 100% at low and high pressure

Connection Under Pressure: Not allowed

Working Temperature:
-35°C to +130°C

Maximum Working Pressure:
1000 bar



Coupling, BSPP

0457	Thread	ISO	Max Pressure Bar
PCJ5.0604.002	1/8"	6.3	1000
PCJ5.0606.002	1/4"	6.3	1000
PCJ5.0610.002	3/8"	6.3	1000

Tech Sheet 20488

Coupling, NPT

0457	Thread	ISO	Max Pressure Bar
PCJ5.0606.012	1/4"	6.3	1000
PCJ5.0610.012	3/8"	6.3	1000

Tech Sheet 20488



Plug, BSPP

0457	Thread	ISO	Max Pressure Bar
PCJ5.0604.003	1/8"	6.3	1000
PCJ5.0606.003	1/4"	6.3	1000
PCJ5.0610.003	3/8"	6.3	1000

Tech Sheet 20488

Plug, NPT

0457	Thread	ISO	Max Pressure Bar
PCJ5.0606.013	1/4"	6.3	1000
PCJ5.0610.013	3/8"	6.3	1000

Tech Sheet 20488

PCJ6 Series, Ultra High Pressure Couplings

DNP standard, interchange with CEJN 116 series, 21,780 psi/1,500 bar working pressure, high resistance steel, locking radial balls. Tested 100% with helium at low and high pressure. PCJ6 series is ideal for high pressure tools and torque equipment.

Interchangeability: Cejn 116

Occlusion: Poppet

Locking: Radial balls

Material: High resistance steel

Finishing: Zn-Fe (Cr III)

Available Threads: BSP, NPT

Standard Seals: Special compound

Safety Factor: 1:2,5

Test: with helium, 100% at low and high pressure

Connection Under Pressure: Not allowed

Working Temperature:
-35°C to +130°C

Maximum Working Pressure:
1500 bar



Coupling, BSPP

0457	Thread	ISO	Max Pressure Bar
PCJ6.0606.002	1/4"	6.3	1500

Tech Sheet 20489

Coupling, NPT

0457	Thread	ISO	Max Pressure Bar
PCJ6.0606.012	1/4"	6.3	1500

Tech Sheet 20489



Plug, BSPP

0457	Thread	ISO	Max Pressure Bar
PCJ6.0606.003	1/4"	6.3	1500

Tech Sheet 20489

Plug, NPT

0457	Thread	ISO	Max Pressure Bar
PCJ6.0606.013	1/4"	6.3	1500

Tech Sheet 20489

PCJ5 Protection Caps & Plugs



Plug for Coupling

0457	To Suit	Material
SPCJ.06002	ISO 6.3	PVC



Cap For Plug

0457	To Suit	Material
SPCJ.06003	ISO 6.3	PVC

PCJ6 Protection Caps & Plugs



Plug for Coupling

0457	To Suit	Material
SPCJ.06042	ISO 6.3	PVC



Cap For Plug

0457	To Suit	Material
SPCJ.06043	ISO 6.3	PVC



PVS Series, ISO 14540 Screw Couplings

Standard: ISO 14540

Occlusion: Ball

Locking: Screw

Material: Steel

Finishing: Zn-Fe (Cr III)

Threads: BSP, NPT

Standard Seals: Nitrile

Optional Seals: Viton, EPDM

Connection Under Pressure:

Allowed (both male or female side)

Maximum Residual Pressure: 100 bar

Working Temperature:
-25°C to +100°C

Maximum Working Pressure:
700 bar



Coupling, NPT

0457	Thread	ISO	Max Pressure Bar
PVS3.0606.022	1/4"	6.3	700
PVS3.1006.022	1/4"	10	700
PVS3.1010.022	3/8"	10	700

Tech Sheet 20490



Plug, NPT

0457	Thread	ISO	Max Pressure Bar
PVS1.0606.013	1/4"	6.3	700
PVS1.1006.013	1/4"	10	700
PVS1.1010.013	3/8"	10	700

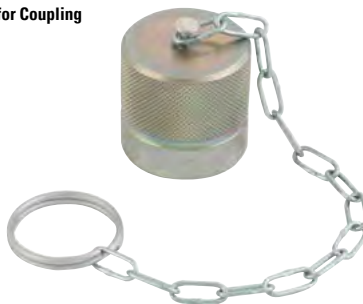
Tech Sheet 20490

ISO 14540 Protection Caps & Plugs

Cap for Plug



Plug for Coupling



Plug for Coupling

0457	To Suit	Material
SPVS.06100	ISO 6.3	Steel
SPVS.10100 C	ISO 10	Steel

Cap for Plug

0457	To Suit	Material
SPVS.06101	ISO 6.3	Steel
SPVS.10103 C	ISO 10	Steel

PFT1 Series, ISO 5676 Brake Couplings

Standard: ISO 5676

Occlusion: Flat face

Locking: Radial balls

Material: Steel

Finishing: Zn-Fe (Cr III)

Threads: BSP, SAE, metric

Standard Seals: Nitrile

Optional Seals: Viton, EPDM

Connection Under Pressure: not allowed

Working Temperature:
-25°C to +100°C

Maximum Working Pressure:
150 bar



Coupling, Female Thread

0457	Thread	ISO	Max Pressure Bar
PFT1.1310.002	3/8"	12.5	150
PFT1.1313.002	1/2"	12.5	150
PFT1.1318.102	M18 x 1.5	12.5	150

Tech Sheet 20491



Plug, Male Thread

0457	Thread	ISO	Max Pressure Bar
PFT3.1313.213	1/2"	12.5	150

Tech Sheet 20491

Plug, Male Thread Bulkhead

0457	Thread	ISO	Max Pressure Bar
PFT3.1318.503	M18 x 1.5	12.5	150
PFT3.1322.503	M22 x 1.5	12.5	150

Tech Sheet 20491





HYDRAULIC QUICK RELEASE COUPLINGS

VFF1 Series, Wing Nut Screw Couplings

Interchangeability: Snap-Tite 78
Threads: NPT
Standard Seals: Nitrile
Occlusion: Flat face
Optional Seals: Viton, EPDM
Locking: Screw
Material: Brass and steel
Connection Under Pressure: Not suggested
Steel Finishing: Zn-Fe (Cr III)

Working Temperature:
 -25°C to +100°C

Maximum Working Pressure:
 210 bar



Coupling, NPT

0457	Thread	ISO	Max Pressure Bar
VFF1.2013.012	1/2"	19	210
VFF1.2019.012	3/4"	19	210
VFF1.2525.012	1"	25	210
VFF1.3031.012	1.1/4"	31.5	190
VFF1.3939.012	1.1/2"	40	170

Tech Sheet 20492



Plug, NPT

0457	Thread	ISO	Max Pressure Bar
VFF1.2013.013	1/2"	19	210
VFF1.2019.013	3/4"	19	210
VFF1.2525.013	1"	25	210
VFF1.3031.013	1.1/4"	31.5	190
VFF1.3939.013	1.1/2"	40	170

Tech Sheet 20492

VFH1 Series, Wing Nut Screw Couplings

Wing style screw to connect, 5,000 psi/350 bar working pressure, heavy-duty design, high flow rate, heavy-duty acme threads. VFH1 series has a universal design that can be used in any industry, used frequently in oil field applications, applications needing high working pressures and high flow rates, oil field services such as coiled tubing units, snubbing units, power swivels and much more.

Interchangeability: Snap-Tite 75
Occlusion: Poppet
Locking: Screw
Material: Steel
Steel Finishing: Zn-Fe (Cr III)
Available Threads: NPT
Standard Seals: Nitrile

Optional Seals: Viton, EPDM
Connection Under Pressure: Allowed (both male or female side)
Maximum Residual Pressure: 100 bar

Working Temperature:
 -25°C to +100°C

Maximum Working Pressure:
 350 bar



Coupling, NPT

0457	Thread	ISO	Max Pressure Bar
VFH1.2019.012	3/4"	19	350
VFH1.2525.012	1"	25	350
VFH1.3031.012	1.1/4"	31.5	350
VFH1.3939.012	1.1/2"	40	350
VFH1.5051.012	2"	50	350

Tech Sheet 20493



Plug, NPT

0457	Thread	ISO	Max Pressure Bar
VFH1.2019.013	3/4"	19	350
VFH1.2525.013	1"	25	350
VFH1.3031.013	1.1/4"	31.5	350
VFH1.3939.013	1.1/2"	40	350
VFH1.5051.013	2"	50	350

Tech Sheet 20493

PVE1 Series, Screw Couplings

Interchange: Faster CVE
Occlusion: Poppet
Locking: Screw
Material: Steel
Finishing: Zn-Fe (Cr III)
Threads: BSP

Standard Seals: Nitrile
Optional Seals: Viton, EPDM and more
Connection Under Pressure: Not suggested

Working Temperature:
 -25°C to +100°C

Maximum Working Pressure:
 350 bar



Coupling, BSPP

0457	Thread	ISO	Max Pressure Bar
PVE1.2019.002	3/4"	19	350
PVE1.2525.002	1"	25	350

Tech Sheet 68223



Plug, BSPP

0457	Thread	ISO	Max Pressure Bar
PVE1.2019.003	3/4"	19	350
PVE1.2525.003	1"	25	350

Tech Sheet 68223

ISO 19 Protection Caps & Plugs



Female Dust Plug

0457	To Suit	Material
SPVE.20202	ISO 19	Steel
SPVE.25202	ISO 25	Steel



Male Dust Cap

0457	To Suit	Material
SPVE.20203	ISO 19	Steel
SPVE.25203	ISO 25	Steel

QUICK RELEASE COUPLINGS



6600 Series, ISO A Profile

2000 Series, ISO A Profile

60 Series, ISO B Profile

QHPA Series

3000 Series

FF2500 Series

TDG Swivel Joints

TFF5000/TFF7500/TFF10000 Series

TIF2500/TIF3800/TIF5000 Series

T2300 Series

T2500 Series

T3800 Series

T5000 Series

T7500 Series

T10000 Series

T15000 Series

High Pressure Series

Dust Protection Plugs

Dust Protection Caps

Seal Kits

Series 70KB Couplings

Series 70KB Plugs

HYDRAULIC COUPLINGS



6600 Series, ISO A Profile

° Working Temperature:
-40°C to +110°C

- Nitrile Seals as Standard

Other seals available on request.



Female Coupling, BSPP

0398	Thread	Max Pressure Bar
6603-4-4	1/4"	350
6603-6-6	3/8"	280
6603-8-10	1/2"	280
6603-12-12	3/4"	280
6603-16-16	1"	280
Tech Sheet 10676		

Female Plug, BSPP

0398	Thread	Max Pressure Bar
6605-4-4	1/4"	350
6605-6-6	3/8"	280
6605-8-10	1/2"	280
6605-12-12	3/4"	280
6605-16-16	1"	280
Tech Sheet 10676		



Colour may vary

Plug for Coupling

0398	To Suit
6659-6PL	3/8"
6659-8PL	1/2"
6659-12PL	3/4"
6659-16PL	1"
Tech Sheet 10676	



Colour may vary

Cap for Plug

0398	To Suit
6657-6PL	3/8"
6657-8PL	1/2"
6657-12PL	3/4"
6657-16PL	1"
Tech Sheet 10676	

2000 Series, ISO A Profile

° Working Temperature:
-25°C to +110°C

Male Coupling, DIN 2353 Thread

0398	Thread	Size	Max Pressure Bar	Body
4V53D6X2-C	M14 x 1.5	8L	315	3/8"
4V53D6X3-C	M16 x 1.5	10L	315	3/8"
4V53D7X3-C	M18 x 1.5	10S	315	3/8"
4V54D6X2-C	M14 x 1.5	8L	250	1/2"
4V54D6X3-C	M16 x 1.5	10L	250	1/2"
4V54D6X4-C	M18 x 1.5	12L	250	1/2"
4V54D6X5-C	M22 x 1.5	15L	250	1/2"
4V54D6X6-C	M26 x 1.5	18L	250	1/2"
4V54D7X3-C	M18 x 1.5	10S	250	1/2"
4V54D7X6-C	M24 x 1.5	16S	250	1/2"
Tech Sheet 10677				

Male Coupling, DIN 2353 Bulkhead Thread

0398	Thread	Size	Max Pressure Bar	Body
4V54E6X3-C	M16 x 1.5	10L	250	1/2"
4V54E6X4-C	M18 x 1.5	12L	250	1/2"
4V54E6X5-C	M22 x 1.5	15L	250	1/2"
4V54E6X6-C	M26 x 1.5	18L	250	1/2"
4V54E7X3-C	M18 x 1.5	10S	250	1/2"
4V54E7X4-C	M20 x 1.5	12S	250	1/2"
4V54E7X6-C	M24 x 1.5	16S	250	1/2"
Tech Sheet 10677				

Male Coupling, DIN 3852, BSPP

0398	Thread	Max Pressure Bar	Body
4V53F4B3-C	3/8"	315	3/8"
4V54F4B3-C	3/8"	250	1/2"
4V54F4B4-C	1/2"	250	1/2"
Tech Sheet 10677			

Female Coupling, DIN 3852, Form Y

0398	Thread	Max Pressure Bar	Body
4V53G4X3-C	3/8"	315	3/8"
4V54G4X3-C	3/8"	250	1/2"
4V54G4X4-C	1/2"	250	1/2"
4V54G4X6-C	3/4"	250	1/2"
4V54G8X6-C	M22 x 1.5	250	1/2"
Tech Sheet 10677			

Male Plug, DIN 2353 Thread

0398	Thread	Size	Max Pressure Bar	Body
4V13D6X3-C	M16 x 1.5	10L	315	3/8"
4V14D6X2-C	M14 x 1.5	8L	250	1/2"
4V14D6X3-C	M16 x 1.5	10L	250	1/2"
4V14D6X4-C	M18 x 1.5	12L	250	1/2"
4V14D6X5-C	M22 x 1.5	15L	250	1/2"
4V14D6X6-C	M26 x 1.5	18L	250	1/2"
4V14D7X3-C	M18 x 1.5	10S	250	1/2"
4V14D7X6-C	M24 x 1.5	16S	250	1/2"
Tech Sheet 10677				

Male Plug, DIN 2353 Bulkhead Thread

0398	Thread	Size	Max Pressure Bar	Body
4V14E6X3-C	M16 x 1.5	10L	250	1/2"
4V14E6X4-C	M18 x 1.5	12L	250	1/2"
4V14E6X5-C	M22 x 1.5	15L	250	1/2"
4V14E7X4-C	M20 x 1.5	12S	250	1/2"
4V14E7X6-C	M24 x 1.5	16S	250	1/2"
Tech Sheet 10677				

Male Plug, DIN 3852, BSPP

0398	Thread	Max Pressure Bar	Body
4V13F4B3-C	3/8"	315	3/8"
4V14F4B3-C	3/8"	250	1/2"
4V14F4B4-C	1/2"	250	1/2"
Tech Sheet 10677			

° Working Temperature:
-25°C to +110°C

Colour may vary



Dust Protection

0398	Body	To Suit
5025-3PR	3/8"	Coupling
5029-3PR	3/8"	Plug
5205-4M	1/2"	Coupling
5209-4M	1/2"	Plug
Tech Sheet 10677		



60 Series, ISO B Profile

° Working Temperature:
-40°C to +110°C

- Nitrile Seals as Standard

Other seals available on request.



Female Coupling, Steel, BSPP

0398	Thread	Max Pressure Bar
H1-62-BSPP	1/8"	350
H2-62-BSPP	1/4"	350
H3-62-BSPP	3/8"	280
H4-62-BSPP	1/2"	280
H6-62-BSPP	3/4"	175
H8-62-BSPP	1"	140

Tech Sheet 10678

Female Coupling, Brass, BSPP

0398	Thread	Max Pressure Bar
BH1-60-BSPP	1/8"	210
BH2-60-BSPP	1/4"	255
BH3-60-BSPP	3/8"	185
BH4-60-BSPP	1/2"	240
BH6-60-BSPP	3/4"	150
BH8-60-BSPP	1"	105

Tech Sheet 10678

Female Coupling, 303 Stainless Steel, BSPP

0398	Thread	Max Pressure Bar
SH2-62-BSPP	1/4"	350
SH3-62-BSPP	3/8"	350
SH4-62-BSPP	1/2"	350
SH6-62-BSPP	3/4"	210
SH8-62-BSPP	1"	210

Tech Sheet 10678

Female Coupling, Brass, NPT

0398	Thread	Max Pressure Bar
BH1-60	1/8"	210
BH2-60	1/4"	255
BH3-60	3/8"	185
BH4-60	1/2"	240
BH6-60	3/4"	150
BH8-60	1"	105

Tech Sheet 10678

Female Coupling, 303 Stainless Steel, NPT

0398	Thread	Max Pressure Bar
SH2-62	1/4"	350
SH3-62	3/8"	350
SH4-62	1/2"	350
SH6-62	3/4"	210
SH8-62	1"	210

Tech Sheet 10678

Female Plug, Steel, BSPP

0398	Thread	Max Pressure Bar
H1-63-BSPP	1/8"	350
H2-63-BSPP	1/4"	350
H3-63-BSPP	3/8"	280
H4-63-BSPP	1/2"	280
H6-63-BSPP	3/4"	175
H8-63-BSPP	1"	140

Tech Sheet 10678

Female Plug, Brass, BSPP

0398	Thread	Max Pressure Bar
BH1-61-BSPP	1/8"	210
BH2-61-BSPP	1/4"	255
BH3-61-BSPP	3/8"	185
BH4-61-BSPP	1/2"	240
BH6-61-BSPP	3/4"	150
BH8-61-BSPP	1"	105

Tech Sheet 10678

Female Plug, 303 Stainless Steel, BSPP

0398	Thread	Max Pressure Bar
SH2-63-BSPP	1/4"	350
SH3-63-BSPP	3/8"	350
SH4-63-BSPP	1/2"	350
SH6-63-BSPP	3/4"	210
SH8-63-BSPP	1"	210

Tech Sheet 10678

Female Plug, Brass, NPT

0398	Thread	Max Pressure Bar
BH1-61	1/8"	210
BH2-61	1/4"	255
BH3-61	3/8"	185
BH4-61	1/2"	240
BH6-61	3/4"	150
BH8-61	1"	105

Tech Sheet 10678

Female Plug, 303 Stainless Steel, NPT

0398	Thread	Max Pressure Bar
SH2-63	1/4"	350
SH3-63	3/8"	350
SH4-63	1/2"	350
SH6-63	3/4"	210
SH8-63	1"	210

Tech Sheet 10678



Colour may vary



Plug for Coupling

0398	To Suit	Material
H1-65	1/8"	Aluminium
H1-65M	1/8"	Rubber
H2-65	1/4"	Aluminium
H2-65M	1/4"	Rubber
H3-65	3/8"	Aluminium
H3-65M	3/8"	Rubber
H4-65	1/2"	Aluminium
H4-65M	1/2"	Rubber
H6-65	3/4"	Aluminium
H6-65M	3/4"	Rubber
H8-65	1"	Aluminium
H8-65M	1"	Rubber

Tech Sheet 10678

Colour may vary



Cap for Plug

0398	To Suit	Material
H1-66	1/8"	Aluminium
H1-66M	1/8"	Rubber
H2-66	1/4"	Aluminium
H2-66M	1/4"	Rubber
H3-66	3/8"	Aluminium
H3-66M	3/8"	Rubber
H4-66	1/2"	Aluminium
H4-66M	1/2"	Rubber
H6-66	3/4"	Aluminium
H6-66M	3/4"	Rubber
H8-66	1"	Aluminium
H8-66M	1"	Rubber

Tech Sheet 10678

HYDRAULIC COUPLINGS



QHPA Series

° Working Temperature:
-25°C to +110°C

- Nitrile Seals as Standard

Other seals available on request.



Male Coupling, DIN 2353 Thread

0398	Thread	Size	Max Pressure Bar	Body
QHPA53-D6X2-C	M14 x 1.5	8L	450	3/8"
QHPA53-D6X3-C	M14 x 1.5	10L	450	3/8"
QHPA53-D7X3-C	M14 x 1.5	10S	450	3/8"
QHPA53-D7X4-C	M14 x 1.5	12S	450	3/8"
QHPA54-D6X4-C	M14 x 1.5	12L	400	1/2"
QHPA54-D6X5-C	M14 x 1.5	15L	400	1/2"
QHPA54-D7X5-C	M14 x 1.5	14S	400	1/2"
QHPA54-D7X6-C	M14 x 1.5	16S	400	1/2"
QHPA56-D6X6-C	M14 x 1.5	18L	370	3/4"
QHPA56-D6X7-C	M14 x 1.5	22L	370	3/4"
QHPA56-D7X7-C	M14 x 1.5	20S	370	3/4"

Tech Sheet 10679

Male Coupling, DIN 3852, BSPP

0398	Thread	Max Pressure Bar	Body
QHPA53-F4B3-C	3/8"	450	3/8"
QHPA54-F4B4-C	1/2"	400	1/2"

Tech Sheet 10679

Male Plug, DIN 2353 Thread

0398	Thread	Size	Max Pressure Bar	Body
QHPA13-D6X2-C	M14 x 1.5	8L	450	3/8"
QHPA13-D6X3-C	M14 x 1.5	10L	450	3/8"
QHPA13-D7X3-C	M14 x 1.5	10S	450	3/8"
QHPA13-D7X4-C	M14 x 1.5	12S	450	3/8"
QHPA14-D6X4-C	M14 x 1.5	12L	400	1/2"
QHPA14-D7X5-C	M14 x 1.5	14S	400	1/2"
QHPA14-D7X6-C	M14 x 1.5	16S	400	1/2"
QHPA16-D6X6-C	M14 x 1.5	18L	370	3/4"
QHPA16-D6X7-C	M14 x 1.5	22L	370	3/4"
QHPA16-D7X7-C	M14 x 1.5	20S	370	3/4"

Tech Sheet 10679

Male Plug, DIN 3852, BSPP

0398	Thread	Max Pressure Bar	Body
QHPA13-F4B3-C	3/8"	450	3/8"
QHPA14-F4B4-C	1/2"	400	1/2"

Tech Sheet 10679

3000 Series

° Working Temperature:
-25°C to +110°C

Maximum Working Pressure:
700 bar



Male Coupling, NPT

0398	Thread
3050-2	1/4"
3050-3	3/8"

Tech Sheet 10680

Female Plug, NPT

0398	Thread
3010-2	1/4"
3010-3	3/8"

Tech Sheet 10680



Dust Protection

0398	Body	To Suit
3005-2	1/4"	Coupling
3009-2	1/4"	Plug
3005-3	3/8"	Coupling
3009-3	3/8"	Plug

Tech Sheet 10680

FF2500 Series

° Working Temperature:
-30°C to +100°C

Maximum Working Pressure:
800 bar



Female Coupling, BSPP

0398	Thread
FF2510	1/4"

Tech Sheet 10681

Female Plug, BSPP

0398	Thread
FF2520	1/4"

Tech Sheet 10681

Colour may vary



Dust Protection

0398	Body	To Suit
FF2516	1/4"	Coupling
FF2526	1/4"	Plug

Tech Sheet 10681



TDG Swivel Joints

Description: TDG swivel joints can be used in hydraulic systems where a rotating connection is required, for example in add-on units with rotational movements of up to 360°. TDG Swivel joints minimise the extreme wear occurring in the hoses of the hydraulic system.

A patented Pressure Relief Unit guarantees a long service life and smooth running even in the event of pressure hammers.



DN6 Female Thread, BSPP

0071	Thread	Thread	Hex Size mm	Max Pressure Bar
TE-250	1/4"	3/8"	22	250
Tech Sheet 10009				



DN11 Female Thread, BSPP

0071	Thread	Thread	Hex Size mm	Max Pressure Bar
TE-500	1/2"	3/4"	32	250
Tech Sheet 10009				



DN11 Male/Female Thread, BSPP

0071	Thread	Thread	Hex Size mm	Max Pressure Bar
TE-500 B	1/2"	1/2"	32	250
Tech Sheet 10009				

Standard Version: Body: Brass, Nitrile Seal.

Advantages: The housing is made of brass the rotating shaft is made so surface-treated steel or stainless steel. Sturdy construction with two needle roller bearings and an axis sliding bearing, adapted for combination with standardised hydraulic components. Has a maximum rotating speed 60 RPM.

Applications: Elevating mechanism, building machinery, materials handling technology and industrial plants.



DN11 Male Thread, Metric & BSPP

0071	Thread	Thread	Hex Size mm	Max Pressure Bar
TE-500 W3	M18 x 1.5	M22 x 1.5	32	250
TE-500 W6	M24 x 1.5	1/2"	32	250
Tech Sheet 10009				



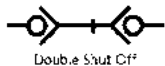
DN17 Female Thread, BSPP

0071	Thread	Thread	Hex Size mm	Max Pressure Bar
TE-750	3/4"	1"	40	250
TE-750 RF	3/4"	1"	40	250
TE-1000	1"	1.1/4"	50	200
TE-1000 RF	1"	1.1/4"	50	200
Tech Sheet 10009				

TFF5000/TFF7500/TFF10000 Series

Working Temperature:
-40°C up to +100°C (Nitrile)
-25°C up to +200°C (Viton)

Maximum Static Working Pressure:
Safety Factor 4:1



TFF5000 Series Couplings, BSPP

0071	Thread	Max Pressure Bar	Seal	Operation
TE-TFF5010	1/2"	400	Nitrile	With valve
TE-TFF5010 V	1/2"	400	Viton	With valve
Tech Sheet 2000				

TFF5000 Series Plugs, BSPP

0071	Thread	Max Pressure Bar	Seal	Operation
TE-TFF5020	1/2"	400	Nitrile	With valve
TE-TFF5020 V	1/2"	400	Viton	With valve
Tech Sheet 2000				

TFF7500 Series Couplings, BSPP

0071	Thread	Max Pressure Bar	Seal	Operation
TE-TFF7510	3/4"	400	Nitrile	With valve
Tech Sheet 2000				

TFF7500 Series Plugs, BSPP

0071	Thread	Max Pressure Bar	Seal	Operation
TE-TFF7520	3/4"	400	Nitrile	With valve
Tech Sheet 2000				

TFF7500 Plugs with Pressure Eliminator, BSPP

0071	Thread	Max Pressure Bar	Seal	Operation
TE-TFF7521	3/4"	400	Nitrile	With valve
Tech Sheet 2000				

TFF10000 Plugs with Pressure Eliminator, BSPP

0071	Thread	Max Pressure Bar	Seal	Operation
TE-TFF10021	1"	300	Nitrile	With valve
Tech Sheet 2000				



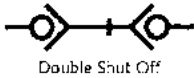
HYDRAULIC COUPLINGS



TIF2500/TIF3800/TIF5000 Series

° Working Temperature:
-40°C to +100°C (Nitrile)

Maximum Static Working Pressure:
Safety Factor 4:1



TIF2500 Series Couplings, BSPP

0071	Thread	Body	Max Pressure Bar	Seal
TE-TIF2510	1/4"	1/4"	315	Nitrile
Tech Sheet 2001				

TIF2500 Series Plug, BSPP

0071	Thread	Body	Max Pressure Bar	Seal
TE-TIF2520	1/4"	1/4"	315	Nitrile
Tech Sheet 2001				

TIF2500 Series Plug with Pressure Eliminator, BSPP

0071	Thread	Body	Max Pressure Bar	Seal
TE-TIF2521	1/4"	1/4"	315	Nitrile
Tech Sheet 2001				

TIF3800 Series Couplings, BSPP

0071	Thread	Body	Max Pressure Bar	Seal
TE-TIF3810	3/8"	3/8"	250	Nitrile
TE-TIF3810-50	1/2"	3/8"	250	Nitrile
Tech Sheet 2001				

TIF3800 Series Couplings with Pressure Eliminator, BSPP

0071	Thread	Body	Max Pressure Bar	Seal
TE-TIF3811	3/8"	3/8"	250	Nitrile
Tech Sheet 2001				

TIF3800 Series Plugs, BSPP

0071	Thread	Body	Max Pressure Bar	Seal
TE-TIF3820	3/8"	3/8"	250	Nitrile
TE-TIF3820-50	1/2"	3/8"	250	Nitrile
Tech Sheet 2001				

Dust Protection



Plug for Coupling

0071	To Suit
TE-TIF3816	Series TIF3800
TE-TIF10016	Series TIF10000



Cap for Plug

0071	To Suit
TE-TIF3826	Series TIF3800
TE-TIF10026	Series TIF10000

TIF3800 Series Plugs with Pressure Eliminator, BSPP

0071	Thread	Body	Max Pressure Bar	Seal
TE-TIF3821	3/8"	3/8"	250	Nitrile
Tech Sheet 2001				

TIF5000 Series Couplings, BSPP

0071	Thread	Body	Max Pressure Bar	Seal
TE-TIF5010	1/2"	1/2"	250	Nitrile
TE-TIF5010 75	3/4"	1/2"	250	Nitrile
Tech Sheet 2001				

TIF5000 Series Couplings with Pressure Eliminator, BSPP

0071	Thread	Body	Max Pressure Bar	Seal
TE-TIF5011	1/2"	1/2"	250	Nitrile
Tech Sheet 2001				

TIF5000 Series Plugs, BSPP

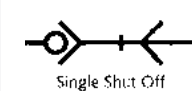
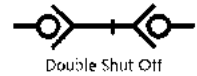
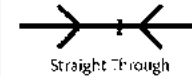
0071	Thread	Body	Max Pressure Bar	Seal
TE-TIF5020	1/2"	1/2"	250	Nitrile
TE-TIF5020 75	3/4"	1/2"	250	Nitrile
Tech Sheet 2001				

TIF5000 Series Plugs with Pressure Eliminator, BSPP

0071	Thread	Body	Max Pressure Bar	Seal
TE-TIF5021	1/2"	1/2"	250	Nitrile
Tech Sheet 2001				

T2300 Series

° Temperature Range:
-40°C up to +100°C (Nitrile)
-25°C up to +200°C (Viton)
Depending on the medium



Couplings, BSPP

0071	Thread	Max Pressure Bar	Seal	Operation
TE-2310	1/8"	200	Nitrile	With valve
TE-2310 UV	1/8"	200	Nitrile	No valve
TE-2310 V	1/8"	200	Viton	With valve
Tech Sheet 2003				

Plugs, BSPP

0071	Thread	Max Pressure Bar	Seal	Operation
TE-2320	1/8"	200	Nitrile	With valve
TE-2320 UV	1/8"	200	-	No valve
TE-2320 V	1/8"	200	Viton	With valve
Tech Sheet 2003				

T2500 Series

Maximum Working Pressure:
Maximum static working pressure with safety factor 4:1



Couplings, BSPP

0071	Thread	Max Pressure Bar	Seal	Operation
TE-2510	1/4"	450	Nitrile	With valve
TE-2510 UV	1/4"	450	Nitrile	No valve
TE-2510 V	1/4"	450	Viton	With valve
TE-2510 RV	1/4"	250	Viton	With valve
Tech Sheet 2004				

Plugs, BSPP

0071	Thread	Max Pressure Bar	Seal	Operation
TE-2520	1/4"	450	Nitrile	With valve
TE-2520 UV	1/4"	450	-	No valve
TE-2520 V	1/4"	450	Viton	With valve
TE-2520 RV	1/4"	250	Viton	With valve
Tech Sheet 2004				

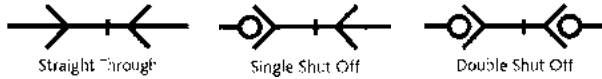




T3800 Series

Working Temperature:
-40°C up to +100°C (Nitrile)
-25°C up to +200°C (Viton)

Maximum Working Pressure:
Maximum static working pressure
with safety factor 4:1



Couplings, BSPP

0071	Thread	Max Pressure Bar	Seal	Operation
TE-3810	3/8"	350	Nitrile	With valve
TE-3810 H	3/8"	350	Nitrile	No valve
TE-3810 UV	3/8"	350	Nitrile	No valve
TE-3810 HV	3/8"	350	Viton	No valve
TE-3810 V	3/8"	350	Viton	With valve
TE-3810 RV	3/8"	300	Viton	With valve

Tech Sheet 2005

Couplings with Pressure Eliminator, BSPP

0071	Thread	Max Pressure Bar	Seal	Operation
TE-3811	3/8"	350	Nitrile	With valve
TE-3811 V	3/8"	350	Viton	With valve

Tech Sheet 2005

Plugs, BSPP

0071	Thread	Max Pressure Bar	Seal	Operation
TE-3820	3/8"	350	Nitrile	With valve
TE-3820 UV	3/8"	350	-	No valve
TE-3820 V	3/8"	350	Viton	With valve
TE-3820 RV	3/8"	300	Viton	With valve
TE-3820 RUV	3/8"	300	-	No valve

Tech Sheet 2005

Plugs with Pressure Eliminator, BSPP

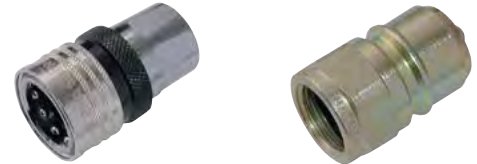
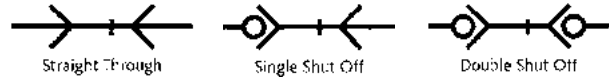
0071	Thread	Max Pressure Bar	Seal	Operation
TE-3821	3/8"	350	Nitrile	With valve
TE-3821 V	3/8"	350	Viton	With valve
TE-3821 RV	3/8"	300	Viton	With valve

Tech Sheet 2005

T5000 Series

Working Temperature:
-40°C up to +100°C (Nitrile)
-25°C up to +200°C (Viton)

Maximum Working Pressure:
Maximum static working pressure
with safety factor 4:1



Couplings, BSPP

0071	Thread	Max Pressure Bar	Seal	Operation
TE-5010	1/2"	300	Nitrile	With valve
TE-5010 UV	1/2"	300	Nitrile	No valve
TE-5010 V	1/2"	300	Viton	With valve
TE-5010 RV	1/2"	300	Viton	With valve

Tech Sheet 2005

Couplings with Pressure Eliminator, BSPP

0071	Thread	Max Pressure Bar	Seal	Operation
TE-5011	1/2"	300	Nitrile	With valve
TE-5011 V	1/2"	300	Viton	With valve
TE-5011 RV	1/2"	300	Viton	With valve

Tech Sheet 2005

Plugs, BSPP

0071	Thread	Max Pressure Bar	Seal	Operation
TE-5020	1/2"	320	Nitrile	With valve
TE-5020 UV	1/2"	320	-	No valve
TE-5020 V	1/2"	320	Viton	With valve
TE-5020 RV	1/2"	300	Viton	With valve

Tech Sheet 2005

Plugs with Pressure Eliminator, BSPP

0071	Thread	Max Pressure Bar	Seal	Operation
TE-5021	1/2"	320	Nitrile	With valve
TE-5021 V	1/2"	320	Viton	With valve
TE-5021 RV	1/2"	300	Viton	With valve

Tech Sheet 2005

TEMA Coupling Letter Key

NO Letter = Standard, Nitrile seals with valve
H = No valve and no locking sleeve, Nitrile seals
UV = Standard Nitrile seals, unvalved
HV = No valve and no locking sleeve, viton seals
V = With valve and viton seals

RV = Stainless steel body with valve and viton seals
RUV = Stainless steel body, unvalved with viton seals
VUV = Unvalved with viton seals
S = Super nipple, special steel alloy construction, high durability

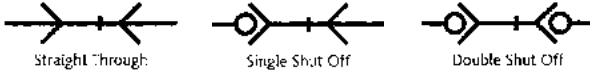


HYDRAULIC COUPLINGS



T7500 Series

- Working Temperature:**
-40°C up to +100°C (Nitrile)
-25°C up to +200°C (Viton)
- Maximum Working Pressure:**
Maximum static working pressure
with safety factor 4:1



Couplings, BSPP

0071	Thread	Max Pressure Bar	Seal	Operation
TE-7510	3/4"	280	Nitrile	With valve
TE-7510 UV	3/4"	280	Nitrile	No valve
TE-7510 V	3/4"	280	Viton	With valve
TE-7510 RV	3/4"	250	Viton	With valve
TE-7510 VUV	3/4"	280	Viton	No valve

Tech Sheet 2006

Couplings with Pressure Eliminator, BSPP

0071	Thread	Max Pressure Bar	Seal	Operation
TE-7511	3/4"	280	Nitrile	With valve
TE-7511 V	3/4"	280	Viton	With valve

Tech Sheet 2006

Plugs, BSPP

0071	Thread	Max Pressure Bar	Seal	Operation
TE-7520	3/4"	300	Nitrile	With valve
TE-7520 UV	3/4"	300	-	No valve
TE-7520 V	3/4"	300	Viton	With valve

Tech Sheet 2006

Plugs with Pressure Eliminator, BSPP

0071	Thread	Max Pressure Bar	Seal	Operation
TE-7521	3/4"	300	Nitrile	With valve
TE-7521 V	3/4"	300	Viton	With valve

Tech Sheet 2006

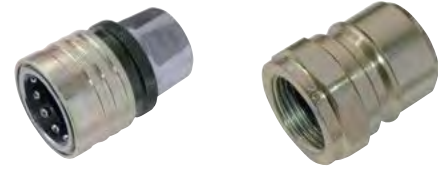
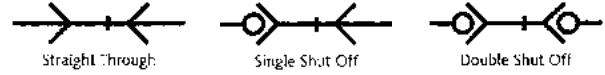
Super Plug to be Used for Very High Loads, BSPP

0071	Thread	Max Pressure Bar	Seal	Operation
TE-7520 S	3/4"	300	Nitrile	With valve

Tech Sheet 2006

T10000 Series

- Working Temperature:**
-40°C up to +100°C (Nitrile)
-25°C up to +200°C (Viton)
- Maximum Working Pressure:**
Maximum static working
pressure with safety factor 4:1



Couplings, BSPP

0071	Thread	Max Pressure Bar	Seal	Operation
TE-10010	1"	250	Nitrile	With valve
TE-10010 V	1"	250	Viton	With valve

Tech Sheet 2006

Couplings with Pressure Eliminator, BSPP

0071	Thread	Max Pressure Bar	Seal	Operation
TE-10011	1"	250	Nitrile	With valve

Tech Sheet 2006

Plugs, BSPP

0071	Thread	Max Pressure Bar	Seal	Operation
TE-10020	1"	280	Nitrile	With valve
TE-10020 UV	1"	280	-	No valve
TE-10020 V	1"	280	Viton	With valve
TE-10020 RV	1"	250	Viton	With valve

Tech Sheet 2006

Plugs with Pressure Eliminator, BSPP

0071	Thread	Max Pressure Bar	Seal	Operation
TE-10021	1"	280	Nitrile	With valve

Tech Sheet 2006



Customers who bought from this page also purchased
Glycerine Gauges
see section 5 pages 271-275

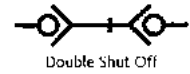
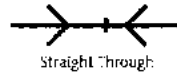




T15000 Series

Working Temperature:
-40°C up to +100°C (Nitrile)
-25°C up to +200°C (Viton)

Maximum Working Pressure:
Maximum static working pressure
with safety factor 4:1



Couplings, BSPP

0071	Thread	Max Pressure Bar	Seal	Operation
TE-15010	1.1/2"	200	Nitrile	With valve
TE-15010 UV	1.1/2"	200	Nitrile	No valve
TE-15010 V	1.1/2"	200	Viton	With valve
TE-15010 VUV	1.1/2"	200	Viton	No valve

Tech Sheet 2007

Plugs, BSPP

0071	Thread	Max Pressure Bar	Seal	Operation
TE-15020	1.1/2"	200	Nitrile	With valve
TE-15020 UV	1.1/2"	200	-	No valve
TE-15020 V	1.1/2"	200	Viton	With valve

Tech Sheet 2007

High Pressure Series

The TEMA High Pressure 1000 couplings were specially developed for use in industrial machinery, salvage devices and testing equipment. The Series is galvanised and produced in steel. They are provided with safety locking and dust caps inclusive.



The TEMA High Pressure 1500 couplings were specially developed for use in bolt tensioning equipment. This series is produced in steel with the coupling body QPQ treated and black galvanised. They are provided with safety locking and dust caps inclusive.



THP1000 Series Couplings, BSPP

0071	Thread	Hex Size mm	Max Pressure Bar	Length mm
THP10104132	1/4"	24	1000	59
THP10104172	3/8"	24	1000	59

Tech Sheet 10010

THP1500 Series Couplings, BSPP

0071	Thread	Hex Size mm	Max Pressure Bar	Length mm
THP15104132	1/4"	24	1500	59
THP15104172	3/8"	24	1500	59

Tech Sheet 10010

THP1000 Series Plugs, BSPP

0071	Thread	Hex Size mm	Max Pressure Bar	Length mm
THP1020413	1/4"	22	1000	37
THP1020417	3/8"	24	1000	37

Tech Sheet 10010

THP1500 Series Plugs, BSPP

0071	Thread	Hex Size mm	Max Pressure Bar	Length mm
THP1520413	1/4"	22	1500	38

Tech Sheet 10010

Dust Protection Plugs



Plug

0071	To Suit	Type
TE-2516	Series T2500	B
TE-3816	Series T3800	B
TE-5016	Series T5000	B
TE-7516	Series T7500	B
TE-10016	Series T10000	B
THP16	High Pressure Series	C

Dust Protection Caps



Cap

0071	To Suit	Type
TE-125	Series T2300	C
TE-2526	Series T2500	B
TE-3826	Series T3800	B
TE-5026	Series T5000	B
TE-7526	Series T7500	B
TE-10026	Series T10000	B
THP26	High Pressure Series	A

Seal Kits



Nitrile & Viton

0071	To Suit	Material
TE-2500-PSN	Series T2500	Nitrile
TE-3800-PSN	Series T3800	Nitrile
TE-3800-PSV	Series T3800	Viton
TE-5000-PSN	Series T5000	Nitrile
TE-5000-PSV	Series T5000	Viton
TE-7500-PSN	Series T7500	Nitrile
TE-7500-PSV	Series T7500	Viton
TE-10000-PSN	Series T10000	Nitrile
TE-10000-PSV	Series T10000	Viton

SERIES 70KB




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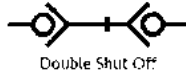
Description: The quick-connect-couplings series 71-76 are robust and simple models having best proven their quality for many years in many applications. Only couplings and plugs with the same size internal threads will match. These couplings are designed for manual operation, i.e. to couple the sleeve must be first pushed back.

Advantages: The simple and robust design guarantees a maximum of safety.

Ideal for Applications: With liquids and in laboratory and food areas.

Technical Data: Only couplings and plugs of the same series will match.

 **Interchangeability:**
Industrial interchange ISO 7241-1 Series B,
BS 7198. Hansen 'HK'.



	RectuPom		Brass
Working Temperature	-20°C to +90°C		-20°C to +200°C
Working Pressures:	50°C (bar)	90°C (bar)	-20°C to +200°C (bar)
	Series 71 1/8"	15 7.5	
Series 72 1/4"	15	7.5	250
Series 73 3/8"	15	7.5	200
Series 74 1/2"	10	5	150
Series 75 3/4"	10	5	100
Series 76 1"	10	5	100

Couplings



RectuPom, BSPP

4605	Thread	Length mm
71KBIW10DPX	1/8"	49
72KBIW13DPX	1/4"	58
73KBIW17DPX	3/8"	64
74KBIW21DPX	1/2"	74
75KBIW26DPX	3/4"	96
76KBIW33DPX	1"	106

Tech Sheet 10011



Brass, Viton Seals, BSPP

4605	Thread	Length mm
71KBIW10MVX	1/8"	49
72KBIW13MVX	1/4"	58
73KBIW17MVX	3/8"	64
74KBIW21MVX	1/2"	74
75KBIW26MVX	3/4"	96
76KBIW33MVX	1"	106

Tech Sheet 10011

Plugs



RectuPom, BSPP

4605	Thread	Length mm
71SBIW10DPX	1/8"	30
72SBIW13DPX	1/4"	35
73SBIW17DPX	3/8"	39
74SBIW21DPX	1/2"	46
75SBIW26DPX	3/4"	60

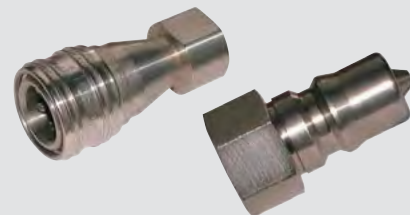
Tech Sheet 10011



Brass, Viton Seals, BSPP

4605	Thread	Length mm
71SBIW10MVX	1/8"	30
72SBIW13MVX	1/4"	35
73SBIW17MVX	3/8"	39
74SBIW21MVX	1/2"	46
75SBIW26MVX	3/4"	60
76SBIW33MVX	1"	65

Tech Sheet 10011



For **Stainless Steel 303, Viton Seals, BSPP**
see page 252





Steel Plated Couplings



BSPP, Valved

0067	Thread	Max Pressure Bar
VHC4-4RP	1/4"	450
VHC6-6RP	3/8"	310
VHC8-8RP	1/2"	280
VHC12-12RP	3/4"	245
VHC16-16RP	1"	140
VHC20-20RP	1.1/4"	125
Tech Sheet 1336		

BSPP, Unvalved

0067	Thread	Max Pressure Bar
PHC4-4RP	1/4"	760
PHC6-6RP	3/8"	760
PHC8-8RP	1/2"	760
PHC12-12RP	3/4"	625
PHC16-16RP	1"	415
PHC20-20RP	1.1/4"	345
Tech Sheet 1336		

Steel Plated Plugs



BSPP, Valved

0067	Thread
VHN4-4RP	1/4"
VHN6-6RP	3/8"
VHN8-8RP	1/2"
VHN12-12RP	3/4"
VHN16-16RP	1"
VHN20-20RP	1.1/4"
VHN24-24RP	1.1/2"
Tech Sheet 1336	

BSPP, Unvalved

0067	Thread
PHN4-4RP	1/4"
PHN6-6RP	3/8"
PHN8-8RP	1/2"
PHN12-12RP	3/4"
PHN16-16RP	1"
PHN32-32RP	2"
Tech Sheet 1336	

Brass Couplings



BSPP, Valved

0067	Thread	Max Pressure Bar
BVHC4-4RP	1/4"	155
BVHC6-6RP	3/8"	155
BVHC8-8RP	1/2"	140
BVHC12-12RP	3/4"	140
BVHC16-16RP	1"	125
BVHC20-20RP	1.1/4"	25
BVHC24-24RP	1.1/2"	25
BVHC32-32RP	2"	30
Tech Sheet 1336		

BSPP, Unvalved

0067	Thread	Max Pressure Bar
BPHC4-4RP	1/4"	280
BPHC6-6RP	3/8"	280
BPHC8-8RP	1/2"	280
BPHC12-12RP	3/4"	245
BPHC16-16RP	1"	210
BPHC24-24RP	1.1/2"	70
Tech Sheet 1336		

Brass Plugs



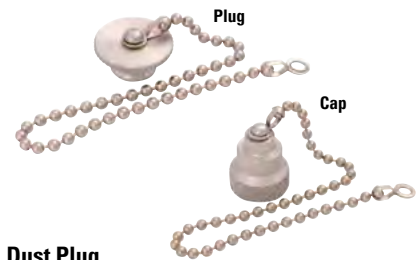
BSPP, Valved

0067	Thread
BVHN4-4RP	1/4"
BVHN6-6RP	3/8"
BVHN8-8RP	1/2"
BVHN12-12RP	3/4"
BVHN16-16RP	1"
BVHN20-20RP	1.1/4"
BVHN24-24RP	1.1/2"
BVHN32-32RP	2"
Tech Sheet 1336	

BSPP, Unvalved

0067	Thread
BPHN4-4RP	1/4"
BPHN6-6RP	3/8"
BPHN8-8RP	1/2"
BPHN12-12RP	3/4"
BPHN16-16RP	1"
BPHN32-32RP	2"
Tech Sheet 1336	

H Series Aluminium Dust Protection



Dust Plug

0067	To Suit
AMPH-8	1/2"
AMPH-16	1"
AMPH-20	1.1/4"
AMPH-24	1.1/2"
AMPH-32	2"
Tech Sheet 1336	

Dust Cap

0067	To Suit
ADCH-4	1/4"
ADCH-6	3/8"
ADCH-16	1"
ADCH-20	1.1/4"
ADCH-32	2"
Tech Sheet 1336	

H Series Plastic Dust Protection



Cap & Plug

0067	To Suit
PDCP-4	1/4"
PDCP-6	3/8"
PDCP-8	1/2"
PDCP-12	3/4"
PDCP-16	1"
Tech Sheet 1336	



For H Series,
316 Stainless Steel
Couplings and Plugs
see page 252



SERIES 71



The Series 71 has been designed to eliminate fluid loss and air inclusion. The dirt tolerant, heavy-duty construction withstands abusive treatment.

Couplings

Flush Face/Dry Break Steel Valved, BSPP



0067	Thread	Max Pressure Bar
71-3C4-4RP	1/4"	690
71-3C6-6RP	3/8"	690
71-3C8-8RP	1/2"	690
71-3C12-12RP	3/4"	520
71-3C16-16RP	1"	520

Tech Sheet 612

Plugs

Flush Face/Dry Break Steel Valved, BSPP



0067	Thread
71-3N4-4RP	1/4"
71-3N6-6RP	3/8"
71-3N8-8RP	1/2"
71-3N12-12RP	3/4"
71-3N16-16RP	1"

Tech Sheet 612



For Series 71, Flush Face/Dry Break 316 Valved, BSPP see page 252



SERIES 75



Series 75 is designed and constructed for high pressure hydraulic service. Although these couplings are used in a broad variety of heavy-duty applications.

A primary usage is in oil fields and offshore drilling, cranes, power tongs and swivels, diving etc.

Thread to Connect Couplings



Steel Valved, BSPP

0067	Thread	Max Pressure Bar
75C12-12RP	3/4"	345
75C16-16RP	1"	345
75C20-20RP	1.1/4"	345
75C24-24RP	1.1/2"	345

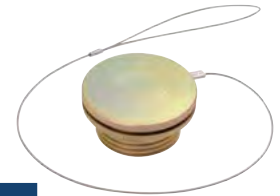
Tech Sheet 615

Metal Dust Plug & Dust Cap

Dust Plug

0067	To Suit
75MDP-12	3/4"
75MDP-16	1"
75MDP-20	1.1/4"
75MDP-24	1.1/2"
75MDP-32	2"

Tech Sheet 615



Thread to Connect Plugs



Steel Valved, BSPP

0067	Thread
75N12-12RP	3/4"
75N16-16RP	1"
75N20-20RP	1.1/4"
75N24-24RP	1.1/2"

Tech Sheet 615

Dust Cap

0067	To Suit
75MDC-12	3/4"
75MDC-16	1"
75MDC-20	1.1/4"
75MDC-24	1.1/2"
75MDC-32	2"

Tech Sheet 615



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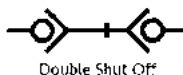
Description: The quick-connect-couplings Series 71-76 are robust and simple models having best proven their quality for many years in many applications. Only couplings and plugs with the same size internal threads will match. These couplings are designed for manual operation, i.e. to couple the sleeve must be first pushed back.

Advantages: The simple and robust design guarantees a maximum of safety.

Ideal for Applications: With liquids and in laboratory and food areas.

Technical Data: Only couplings and plugs of the same series will match.

Interchangeability:
Industrial interchange ISO 7241-1 Series B,
BS 7198. Hansen 'HK'.



Double Shut Off



Working Temperature	Stainless Steel 303	
	-20°C to +200°C	
Working Pressures:	50°C (bar)	200°C (bar)
	Series 71 1/8"	250
Series 72 1/4"	250	190
Series 73 3/8"	250	190
Series 74 1/2"	250	190
Series 75 3/4"	160	120
Series 76 1"	100	75

Stainless Steel 303, Viton Seals, BSPP

4605	Thread	Length mm
71KBIW10RVX	1/8"	49
72KBIW13RVX	1/4"	58
Tech Sheet 10011		



Stainless Steel 303, Viton Seals, BSPP

4605	Thread	Length mm
71SBIW10RVX	1/8"	30
72SBIW13RVX	1/4"	35
Tech Sheet 10011		



H SERIES

316 Stainless Steel Couplings

BSPP, Valved

0067	Thread	Max Pressure Bar
SVHC4-4RP	1/4"	345
SVHC6-6RP	3/8"	280
SVHC8-8RP	1/2"	260
SVHC12-12RP	3/4"	140
SVHC16-16RP	1"	140
SVHC24-24RP	1.1/2"	105
SVHC32-32RP	2"	35
Tech Sheet 1336		



BSPP, Unvalved

0067	Thread	Max Pressure Bar
SPHC4-4RP	1/4"	690
SPHC6-6RP	3/8"	555
SPHC8-8RP	1/2"	555
SPHC12-12RP	3/4"	485
Tech Sheet 1336		

SERIES 71

The Series 71 has been designed to eliminate fluid loss and air inclusion. The dirt tolerant, heavy-duty construction withstands abusive treatment.

Flush Face/Dry Break 316 Valved, BSPP

0067	Thread	Max Pressure Bar
S71-3C4-4RP	1/4"	345
S71-3C6-6RP	3/8"	345
S71-3C8-8RP	1/2"	345
S71-3C12-12RP	3/4"	345
S71-3C16-16RP	1"	280
Tech Sheet 612		



316 Stainless Steel Plugs

BSPP, Valved

0067	Thread
SVHN4-4RP	1/4"
SVHN6-6RP	3/8"
SVHN8-8RP	1/2"
SVHN12-12RP	3/4"
SVHN16-16RP	1"
SVHN20-20RP	1.1/4"
SVHN24-24RP	1.1/2"
SVHN32-32RP	2"
Tech Sheet 1336	



BSPP, Unvalved

0067	Thread
SPHN4-4RP	1/4"
SPHN6-6RP	3/8"
SPHN8-8RP	1/2"
SPHN12-12RP	3/4"
SPHN16-16RP	1"
SPHN24-24RP	1.1/2"
SPHN32-32RP	2"
Tech Sheet 1336	

SECTION 5

Filtration & Gauges



- Parker Hydraulic Filtration
- Parker Flow Meters & Testing Equipment
- LHA Hydraulic Filtration
- UFI Hydraulic Filtration
- LHA Hydraulic Accessories
- Hydraulic Pressure Gauges
- Digital Pressure Gauges & Calibration Equipment

Air-Pro All Stainless Steel Dry Gauges	276	Parker Gauge Isolator Valves, Filler Breathers & Suction Strainers	257
Air-Pro Temperature Gauges	277	Parker GMF Series Filters, Elements & Accessories	256
Hy-fitt All Stainless Steel Glycerine Gauges	275	Parker Maxiflow, Mini Pressure, In-line Spin-on Filters & Diffusers	258
Hy-fitt Glycerine Gauges & Accessories	272	Parker Tank Top & Non-corrodible Filters	259
LHA Fluid Level Gauges, Breathers & Oil Level Indicators	269	SIKA Digital Pressure Gauges	279
LHA Plugs & Vents Screws	270	SIKA Pressure Test Pumps & Kits	280
LHA Spin-on Filters & Visual Indicators	264	UFI PB Series Filters, Indicators & Elements	265
LHA Tank Cleaners and Sight Glasses	268	UFI PM & PG Series Filters & Elements	266
LHA Tank Top Filters, Suction Strainers & Elements	263	UFI RA & PE Series Filters, Indicators & Elements	267
Parker Compressed Air, Oil & Water Flowmeters	262	WIKA Glycerine & Vacuum Gauges	274
Parker Dataflow, Loflow & Flowline Flowmeters	261	WIKA Temperature Gauges	273
Parker Easiflow, Dataflow & Level/Temp Gauge Flow Metering & Test Units	260		
Parker EPF Series Filters, Elements & Accessories	255		

High Pressure In-line Filters

Features:

- Filter element remains in filter bowl
- Environmentally-friendly design
- Bypass valve integral part of filter bowl

Benefits:

- Avoid use of non-genuine parts
- Less space needed to change/service filter
- Reduces environmental waste by over 50%
- No handling of loose reusable parts
- Easy to integrate in manifold systems
- Lower pressure lost across filter

Typical Applications:

- Mobile working hydraulics
- Mobile drive system
- Pilot line filtration
- Servo controls
- Reverse flow valve applications
- Industrial working hydraulics
- Control systems

Also available with various connections:

- SAE flanged
- SAE threaded
- ISO metric
- Manifold mounted



iprotect® glass fibre element as standard.

Working Temperature:
-40°C to +100°C

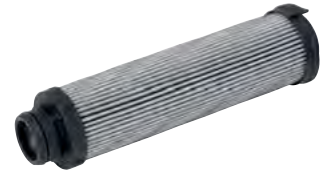
Maximum Working Pressure:
450 bar

EPF Series, 7 bar Bypass

0045	Thread	LPM	Micron
EPF1105QIBPMG081	1/2"	40	5
EPF1110QIBPMG081	1/2"	40	10
EPF2205QIBPMG121	3/4"	140	5
EPF2210QIBPMG121	3/4"	140	10
EPF3205QIBPMG161	1"	250	5
EPF3210QIBPMG161	1"	250	10
EPF4205QIBPMG201	1.1/4"	450	5
EPF4210QIBPMG201	1.1/4"	450	10
EPF5105QIBPMG241	1.1/2"	500	5
EPF5110QIBPMG241	1.1/2"	500	10

Tech Sheet 67979

High Pressure Replacement Elements



2 Micron Element

0045	Manufacturer's Code	To Suit
EPF1-12-2	944418Q	EPF1
EPF2-34-2	944430Q	EPF2
EPF3-1-2	944438Q	EPF3
EPF5-112-2	944450Q	EPF5

Tech Sheet 67980

5 Micron Element

0045	Manufacturer's Code	To Suit
EPF1-12-5	944419Q	EPF1
EPF2-34-5	944431Q	EPF2
EPF3-1-5	944439Q	EPF3
EPF4-114-5	944447Q	EPF4
EPF5-112-5	944451Q	EPF5

Tech Sheet 67980

10 Micron Element

0045	Manufacturer's Code	To Suit
EPF1-12-10	944420Q	EPF1
EPF2-34-10	944432Q	EPF2
EPF3-1-10	944440Q	EPF3
EPF4-114-10	944448Q	EPF4
EPF5-112-10	944452Q	EPF5

Tech Sheet 67980

20 Micron Element

0045	Manufacturer's Code	To Suit
EPF1-12-20	944421Q	EPF1
EPF2-34-20	944433Q	EPF2
EPF3-1-20	944441Q	EPF3
EPF4-114-20	944449Q	EPF4
EPF5-112-20	944453Q	EPF5

Tech Sheet 67980

High Pressure In-line Filter Accessories



Visual Clogging Indicators

0045	Port Size
FMUM3MVMS08	S08 Cavity

Tech Sheet 67979

- Enclosure class IP65
- Electrical connector DIN 43650
- Overvoltage category II (EN61010-1)

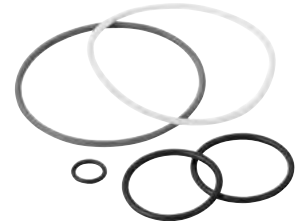


Electrical Clogging Indicators

0045	Port Size
FMUT1MVMS08	S08 Cavity

Tech Sheet 67979

Fluoroelastomer also available



Nitrile Seal Kits

0045	To Suit
EPFSK001	EPF1
EPFSK002	EPF2
EPFSK003	EPF3
EPFSK004	EPF4 & 5

Tech Sheet 67979

Medium Pressure Filters

Features:

- More compact solutions are possible
- Filter element remains in filter bowl during filter service
- Reduces waste over 50% thanks to reusable element core
- No risk of installation mistake due to a 'foolproof' design
- Easy to integrate into hydraulic manifold solutions

Benefits:

- Avoid use of non-genuine parts
- Less space needed to change/service filter
- No handling of loose reusable parts
- Lower pressure lost across filter

Typical Applications:

- Compressor lube oil
- Off-line filter loops
- Machine tools (automotive standard)
- Hydrostatic drive charge pumps
- Mobile equipment
- Pilot lines for servo controls
- Oil patch drilling equipment

Working Temperature:

-20°C to +100°C

Maximum Working Pressure:

70 bar



GMF Series

0045	Thread	LPM	Micron
GMF2110QIVPKG164	1"	55	10
GMF2210QIVPKG164	1"	90	10
GMF3110QIVPKG244	1.1/2"	120	10
GMF3210QIVPKG244	1.1/2"	230	10
GMF4110QIVPKG324	2"	350	10
GMF4210QIVPKG324	2"	530	10

Tech Sheet 67980

Medium Pressure In-line Filter Accessories



Visual Clogging Indicators

0045	Port Size
FMUM3KVMS08	S08 Cavity

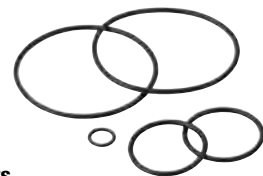
Tech Sheet 67980



Electrical Clogging Indicators

0045	Port Size
FMUT1KVMS08	S08 Cavity

Tech Sheet 67980



Nitrile Seal Kits

0045	To Suit
930000140	GMF21 & 22
930000141	GMF31 & 32
930000142	GMF41 & 42

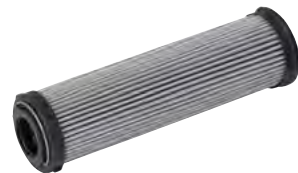
Tech Sheet 67980

Viton Seal Kits

0045	To Suit
930000149	GMF21 & 22
930000150	GMF31 & 32
930000151	GMF41 & 42

Tech Sheet 67980

Medium Pressure Replacement Elements



5 Micron Element

0045	Manufacturer's Code	To Suit
GMF211-1-5	938896Q	GMF211
GMF221-1-5	938900Q	GMF221
GMF321-112-5	938908Q	GMF321
GMF411-2-5	938912Q	GMF411
GMF421-2-5	938916Q	GMF421

Tech Sheet 67980

10 Micron Element

0045	Manufacturer's Code	To Suit
GMF211-1-10	938897Q	GMF211
GMF221-1-10	938901Q	GMF221
GMF321-112-10	938909Q	GMF321
GMF411-2-10	938913Q	GMF411
GMF421-2-10	938917Q	GMF421

Tech Sheet 67980

Gauge Isolator Valves

Designed to prevent pressure gauge damage and extend gauge life. The gauge isolator valve when installed between gauge and pressure line protects the pressure gauge from continuous hydraulic pressure, surges or shock loads.

Single Station:

Cast iron and steel. Knurled aluminium knob twist to lock or push to read type.

Maximum W/P:
350 bar

Port Size:
Single station = G1/4

Weight:
Single station = 0.90kg



Single Station

0045	Description	Port Size
G11414	Push to Read	1/4"

Modular Filler Breathers

Construction:

Moulded in non-corrodible glass-filled nylon combining strength with lightweight design.

Options:

- Single 63mm diameter hole filler breather installation that eliminates drilled and tapped holes using self-locking clamps
- 6 hole filler breather installation that uses 6 x No. 10 thread forming screws
- 3 hole filler breather installation that uses 3 x No. 10 thread forming screws



Filtration: Expanded polyurethane foam, 10 micron.

Seals: Nitrile.

Un-pressurised, 10 Micron

0045	Description
AB98210011UC	Single Hole
AB98810011UC	6 Hole
AB68118	3 Hole

Tech Sheet 636

Screw-on Type Air Breather (IP65)

Manufactured from non-corrodible glass filled nylon.



Un-pressurised 10 Micron, BSPP, 101mm Diameter

0045	Thread
AB98410101UC	3/4"

Tech Sheet 636

Manufactured from in glass filled nylon and glass-coupled polypropylene.

Un-pressurised 10 Micron, BSPP, 70mm Diameter

0045	Thread
SAB6101	G1/2
SAB7101	G3/4

Suction Strainers

Construction:

- Stainless steel media 30% glass-filled nylon head
- Zintec centre tube and end cap
- Epoxy adhesives

Filter Media: 125 micron.

Flow Range: 15-500 L/min.

Mounting Threads: G1/2 up to G3

Maximum Working Temperature:
+90°C



BSPP, Without Bypass

0045	Old Ref	Thread	LPM
SE1319	SS1A1S1AP	1/2"	15
SE1320	SS1B2A1AP	3/4"	25
SE1457	SS1B3A1AP	1"	50
SE1323	SS1C4A1AP	1.1/2"	95
SE1324	SS1C5A1AP	1.1/2"	130
SE1326	SS1C6A1AP	2"	180
SE1219	SS1D7A1AP	2"	225
SE1220	SS1D8A1AP	2.1/2"	350
SE1221	SS1D9A1AP	3"	500

Tech Sheet 60433

BSPP, With Bypass

0045	Thread	LPM
SE5100	1/2"	15
SE5101	3/4"	25
SE5102	1"	50
SE5103	1.1/2"	95
SE5104	1.1/2"	130
SE5105	2"	180
SE5106	2"	225
SE5107	2.1/2"	350
SE5108	3"	500

Tech Sheet 60433

Maxiflow

Working Temperature: -30°C to +90°C

Maximum Working Pressure: 7 bar

Seal: Nitrile

Filter Bowl Material: Steel

Fluids: Mineral oils

Filter Head Material: Aluminium LM24



BSPP

0045	Thread	LPM	Material
MXA9551424	1.1/4"	160	Microglass
MXA9511424	1.1/4"	160	Paper



Replacement Elements

0045	Model	Quantity
MXR8550	MXA8551424	1
MX1518410X4	MXA8551223, MX8551023 & 12PS10CTV1R2B	4
MXR9560	MXA9561424	1
MXR9550	MXA9551424	1
MX1591.4.10X4	MXA9511424 & MXA9511223	4

Mini Pressure Filter

Working Temperature: -30°C to +90°C

Maximum Working Pressure: 280 bar

- Compact, robust and easy to install
- Manufactured in high quality brass
- 10µ, 25µ, and 125µ elements
- No indicator filter
- G1/4 ports
- For use in lubrication, high pressure water and oil burner systems
- Reliable protection of low flow pilot valves
- Suitable for use with mineral and petroleum based fluids
- Nitrile seal



Filtration Media:

10 micron (nominal) Nitrile phenolic resin impregnated cellulose.
25µ, 40µ and 125µ (nominal) stainless steel.

Please note: HPR1719 and HPR1819 elements are not stainless steel, they are paper with tin end caps.

Filters

0045	Old Ref	Micron	LPM
HPA1619100	HP122910	10	6
HPA1719100	HP122925	25	17
HPA1819100	HP122940	40	18

Replacement Elements

0045	Old Ref	To Suit
HPR1619	R122910	HPA1619100
HPR1719	R122925	HPA1719100
HPR1819	R122940	HP1819100

In-line Spin-on Filters

Working Temperature: -30°C to +100°C

Maximum Working Pressure: 7 bar

- Paper and glass fibre element media
- Spin-on disposable canisters
- Suitable for suction and return line applications
- Flow rates to 350 L/min.
- Bypass
- Visual indicator

Seals: Buna Nitrile.

Filter Head Material: Aluminium alloy.

Fluids: Compatible with hydraulic oils, coolant fluids and petroleum based fluids.

Filter Bowl Material: Steel.

Element Media:

10CT = 10 micrometer nominal filtration (resin impregnated cellulose).

10BT = 10 micrometer absolute filtration (glass fibre composite material).

Indication:

42mm dia gauge: (0-12 bar. Return line). 0-76cm. Hg Suction line.



10CT, BSPP

0045	Thread	LPM Suction & Return
12PS10CTV1R2B	3/4"	75

10BT, BSPP

0045	Thread	LPM Suction & Return
12PS10BTV1R2B	3/4"	65

Replacement Elements

0045	To Suit
926501	12PS10BTV1R2B

Diffusers

Construction:

- Zintec body, 30% glass-filled nylon head
- Zintec end cap
- Epoxy adhesives

Flow Range:

50 L/min up to 454 L/min.

Mounting Threads:

3/4" up to 2".

Designed to reduce fluid aeration, foaming and reservoir noise in fluid systems, extends pump life by reducing cavitation to pump inlet, ranging from 50-454 L/min and port sizes G3/4 up to G2. Suitable for all mineral base fluids.



BSPP

0045	Thread	LPM
2210	3/4"	50
2201	1"	114
2202	1.1/2"	227
2203	2"	454



Tank Top Filters

Working Temperature:
-30°C to +90°C

Maximum Working Pressure:
280 bar



1" BSPP

0045	Description	LPM	Bypass PSIG	Micron
FTB1A100V25G16X	-	120	25	10
Tech Sheet 1338				

1" BSPP

0045	Description	LPM	Bypass PSIG	Micron
FTBE2A20Q	Replacement Element	-	-	20

Tanktopper offers a total filtration solution with integrated air breather. Patented LEIF elements safeguard filtration quality.

Working Temperature:
-40°C to +80°C

Maximum Working Pressure:
10 bar



Tanktopper Series

0045	Thread	LPM
TPR110QLBP2EG12E	3/4"	40
TPR510QLBP2E2G20	1.1/4"	120
TPR710QLBP2E2G24	1.1/2"	250
Tech Sheet 60430		

TTF features pre-filtration by means of a magnet column. Flow from inside to out.

Working Temperature:
-40°C to +100°C

Maximum Working Pressure:
10 bar



TTF Series

0045	Thread	LPM
TF310QLBP2EG121	3/4"	90
TF610QLBP2EG203	1.1/2"	170
TF810QLBP2EG243	1.1/2"	300
TF1010QLBP2HG24A	1.1/2"	500
Tech Sheet 60431		

Compact tank top mounted return line filter. Filter element can be used for direct screw-in mounting with co-polymer reservoirs. Inside to out flow avoids re-contamination of the system.

Working Temperature:
-20°C to +100°C

Maximum Working Pressure:
10 bar



PT Tank Top Mounted Filter Series

0045	Thread	LPM
PT2110QBPGG124	3/4"	25
PT2210QBPGG124	3/4"	50
PT4110QBPGG164	1"	110
PT4210QBPGG164	1"	175
Tech Sheet 60432		

Non-corrodible In-line Filter



Working Temperature:
-30°C to +80°C

Maximum Working Pressure:
7 bar

Oil, BSPP

0045	Thread
IL1151	1"
Tech Sheet 1340	

Replacement Element for Oil

0045	
R76115	
Tech Sheet 1340	

Water, BSPP

0045	Thread
IL1251	1"
Tech Sheet 1340	

Replacement Element for Water

0045	
R76125	
Tech Sheet 1340	

Easiflow Meters

Working Temperature:
+5°C to +80°C
+60°C with water

Maximum Working Pressure:
10 bar

- Oil and water calibrated
- Works in any plane
- Pressures up to 10 bar
- Flows 1-150 L/min.
- Accuracy ±5% FSD
- Repeatability ±1% FSD
- Switches – Fully adjustable flow rate signalling
- Plant and equipment protection
- Switches – Colour coded by application and AC/DC options

Construction:

Cone: Acetal
Viewing Glass: Borosilicate glass
Calibrated Spring: Stainless steel
Seal: Nitrile
Body: Glass filled nylon

Flow Range: 1-150 L/min

Viscosity Range: 10-200 centistokes

Accuracy: ±5% FSD

Repeatability: ±1% FSD

Connections: 1" BSPP

Weight: 0.4kg



Oil

0045	LPM
EFL0301	2-30
EFL0501	4-50
EFL1001	5-100
EFL1501	10-150



Water

0045	LPM
EFW0152	1-15
EFW0302	2-30
EFW0502	4-50
EFW1002	5-100
EFW1502	10-150

Fluid Level & Temperature Gauges

Working Temperature:
-30°C to +90°C

Maximum Working Pressure:
1 bar

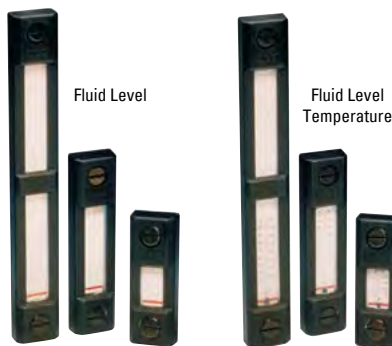
Construction:

- Lens transparent polyamide
- Lens base nylon 66
- No aluminium content
- Shroud high impact polystyrene

Seals: Nitrile.

Fluid Compatibility:

Mineral and petroleum based fluids.



Fluid Level

0045	Centres mm	Thread
FL111	76	M10
FL211	127	M10
FL311	254	M10
FL112	76	M12
FL212	127	M12
FL312	254	M12

Tech Sheet 10301

Fluid Level Temperature

0045	Centres mm	Thread
FLT121	76	M10
FLT221	127	M10
FLT321	254	M10
FLT112	76	M12
FLT212	127	M12
FLT312	254	M12

Tech Sheet 10301

Dataflow In-line Flow Indication

Working Temperature:
+5°C to +80°C Oil
+5°C to +60°C Water

Maximum Working Pressure:
10 bar Oil/water

- Indicator gives flow visibility
- Works in any plane
- Accepts reverse flow
- Indicates flow from 2-150 L/min



Indicator

0045	Description
DFI900	Dataflow Indicator

Tech Sheet 1341

Hydraulic Test Unit

Hydraulic test units are designed specifically for the speedy diagnosis of hydraulic circuit faults in mobile, marine and industrial systems using normal range of mineral oils, their rugged construction based mainly on mild steel, manganese bronze and acrylic materials makes them ideally suited for arduous use in the field.



Each unit is supplied in a convenient carrying case providing full protection and additional storage space for fittings. Because they need no power source such as batteries etc, they are always ready for instant use.

The scale on the flow meter can be rotated to ensure visibility in any situation and the installed attitude is not critical, though whenever possible the unit should be monitored with pressure gauge vertical and gauge case relief valve uppermost. **The unit is designed for flow to be in the direction of the arrow on the flow meter scale and must not be installed with the flow reversed.**

Safety

An axial flow restrictor valve is fitted which can be adjusted under full load from open to fully closed, and to complete the specification, a safety blow out disc, set to operate at 455 bar is fitted to the manifold in a position facing away from the operator when reading the gauges normally. Two spare blow out discs are supplied which are easily replaced by removing the hexagonal plug on the gauge manifold.

- Speedy diagnosis of hydraulic circuit faults
- Flows ranging from 2-360 L/min
- Measuring flow, pressure and temperature
- Portable. No power source required
- Hydrotrac unit for flows from 2-110 L/min available

Working Temperature:
0°C to +100°C
Flow Range:
10-110 L/min

Maximum Working Pressure:
350 bar

BSPP

0045	Thread
4121	3/4"

Dataflow 4-20mA & Pulse Output Flow Transmitters



Working Temperature:
 +5°C to +80°C Oil
 +5°C to +60°C Water

Maximum Working Pressure:
 10 bar oil/water

- 4-20mA output. CE
- Pulse output available for totalising/batching
- Works in any plane
- Accepts reverse flow
- Maximum flow 150 L/min
- Negligible pressure drop
- Pressures up to 10 bar
- Low cost. Simple to install
- For use with most liquids
- Factory calibrated. Accuracy ±2%
- DIN connection

Construction:

Borosilicate glass tube, Nitrile seals.

Body: Glass filled nylon.
Rotor and Locator: Acetal.
Washers and shaft: Stainless steel.
Rotor Tips: Stainless steel.

Minimum Flow:
 2 L/min (Max 150 L/min). Accepts reverse flow.

Accuracy: ±2%.

Connection: 1" BSPP.

Weight: 0.7kg.

Calibration 4-20mA:
 4-20mA = 0-100 L/min on water.
 4mA = 0 L/min, 20mA = 100 L/min.

Pulse Output: K factors CE.
 Oil: 51.14 pulses per litre.
 Water: 44.25 pulses per litre.

Electrical Details:
4-20mA:
 Supply = 24V DC. Output = 4-20mA.

Pulse Output:
 Supply = 24V DC-pulse output.
 (open collector transistor).

Dataflow Transmitters

0045	Description
DFT980	Dataflow Pulse Output Transmitter

Loflow Oil, Water & Air Flowmeters



- Flow measurement from 7.0 ml/min to 22 L/min
- Easy to read, permanent printed scales
- Large scale definition for precise measurement
- Easy panel mounting assembly
- Negligible pressure drop characteristics
- 10 bar pressure rating

Construction:

Body: Grillon TR55.
Back Body: ABS7020.
Ball Retainer: ABS7020.
Back Panel: PVC.

Accuracy: ±2% FSD.

Repeatability: ±1%.

Connections:

Inlet 1/4" or 3/4" tapered threads.
 Outlet 3/4" tapered threads.

Typical Applications:

- Monitoring inert gases for the welding industry
- Pollution monitoring
- Pharmaceutical industry
- Filtration systems
- Hospital equipment for water applications
- Water treatment
- Swimming pools

Water BSPT, Inlet

0045	Media	Thread	LPM	Float Material
LF2020	Water	3/4"	0.2-2.0	Acetal
LF2100	Water	3/4"	1.5-10.0	S/S
LF2220	Water	3/4"	2.0-22.0	S/S

Tech Sheet 10321

Air BSPT, Inlet

0045	Media	Thread	LPM	Float Material
LF3007E	Air	1/4"	1-7.0	Acetal
LF3050E	Air	3/4"	10-50.0	Acetal
LF3135E	Air	3/4"	20-135.0	Acetal
LF3330E	Air	3/4"	1.5-5.5 l/sec	S/S
LF3720E	Air	3/4"	1-12.0 l/sec	S/S

Tech Sheet 10321

Oil BSPT, Inlet

0045	Media	Thread	LPM	Float Material
LF1002	Oil	3/4"	0.010-0.20	S/S
LF1009	Oil	3/4"	0.1-0.9	Acetal
LF1090	Oil	3/4"	1.0-9.0	S/S

Tech Sheet 10321

Flowline Oil & Water Calibrated Flowmeters, Stainless Steel



Working Temperature:
 -20°C to +105°C

Maximum Working Pressure:
 350 bar

- For flow measurement of corrosive or chemical media
- Manufactured in stainless steel 316
- Works in any position
- Pressure up to 350 bar (5000psi)
- Flows up to 360 L/min
- Accuracy ±5% FSD
- Repeatability ±1% FSD
- Direct reading

Construction:

Stainless steel to BS970 316S

Calibration:

Oil = Specific gravity 0.856 at 20°C
 Water = Specific gravity 1.0 at 20°C

Viscosity Range: 10-200 centistokes

Accuracy: ±5% FSD

Repeatability: ±1% FSD

Minimum Scale: ±1% FSD 10% FSD.

Connections: BSPP

Seal: Viton

Wetted Parts:

Body, Thread, Adaptor, Piston etc:
Cone Locknut Stainless steel BS 970316S 16

Magnet Encapsulation:

Stainless steel BS970/1:1991:316S31

Spring: Stainless steel to BS2056 EN58J

Stainless Steel, BSPP, Red - Oil

0045	Thread	LPM	Max Pressure Bar
FM26332112	3/4"	5-55	350
FM26332212	3/4"	10-110	350

Stainless Steel, BSPP, Yellow - Water

0045	Thread	LPM	Max Pressure Bar
FM26332122	3/4"	5-55	350
FM26332222	3/4"	10-110	350



Compressed Air Flowmeters, Brass

Working Temperature:
-20°C to +90°C

Maximum Working Pressure:
350 bar

- Calibrated for direct reading of compressed air at 7 bar
- Works in any plane
- Calibrated at 7 bar and 20°C
- Flow ranges from 2-600 SCFM
- Maximum working pressure 41 bar

Construction:
Brass Body to BS2874 CZ114

Calibration:
Oil = Specific gravity 0.856 at 20°C
Water = Specific gravity 1.0 at 20°C

Viscosity Range: 10-200 centistokes

Accuracy: ±5% FSD

Repeatability: ±1% FSD

Minimum Scale: 10% FSD

Connections: BSPP

- Works in any position
- Pressure up to 350 bar (5000psi)
- Flows up to 1100 L/min
- Accuracy ±5% FSD
- Repeatability ±1% FSD
- Direct reading
- Relatively insensitive to viscosity changes
- Oil or water calibrated



Brass, Blue - Air, BSPP

0045	Thread	SCFM	LPS
FM26223132	1/2"	5-50	2-25
FM26223232	1/2"	10-110	5-50
FM26323132	3/4"	15-125	6-60

Flowline Oil & Water Calibrated Flowmeters, Brass

Working Temperature:
-20°C to +90°C

Maximum Working Pressure:
350 bar

Construction:
Brass body to BS2874 CZ114

Calibration:
Oil = Specific gravity 0.856 at 20°C

Viscosity Range: 10-200 centistokes

Accuracy: ±5% FSD

Repeatability: ±1% FSD

Minimum Scale: 10% FSD

Connections: BSPP

- Works in any position
- Pressure up to 350 bar (5000psi)
- Flows up to 360 L/min
- Accuracy ±5% FSD
- Repeatability ±1% FSD
- Direct reading
- Relatively insensitive to viscosity changes



Brass, Red - Oil, BSPP

0045	Thread	LPM	Max Pressure Bar
FM26122212	1/4"	0.5-4.5	350
FM26222112	1/2"	2-20	350
FM26322112	3/4"	5-55	350
FM26322212	3/4"	10-110	350



Customers who bought from this page also purchased
Hydraulic Test Points
 see pages 145-149





Tank Top Return Filter



**1 bar By-pass,
7 bar Working Pressure, BSPP**

0347	Thread	Micron
TTF-08B-10	1/2"	10
TTF-08B-25	1/2"	25
TTF-12B-10	3/4"	10
TTF-12B-25	3/4"	25
TTF-16B-10	1"	10
TTF-16B-25	1"	25
TTF-20B-10	1.1/4"	10
TTF-20B-25	1.1/4"	25

Tech Sheet 10051



**Replacement Element
to suit TTF Housing**

0347	To Suit	Micron
TTE-08-10	1/2"	10
TTE-08-10-A	1/2"	10ABS
TTE-08-25	1/2"	25
TTE-12-10	3/4"	10
TTE-12-10-A	3/4"	10ABS
TTE-12-25	3/4"	25
TTE-16-10	1"	10
TTE-16-10-A	1"	10ABS
TTE-16-25	1"	25
TTE-20-10	1.1/4"	10
TTE-20-10-A	1.1/4"	10ABS
TTE-20-25	1.1/4"	25

Tech Sheet 10051

Suction Strainers



**149 Micron,
Nylon, BSPP**

0347	To Suit	LPM
SS020-08	1/2"	20
SS030-12	3/4"	30
SS040-16	1"	40
SS080-20	1.1/4"	80
SS120-24	1.1/2"	120
SS200-24	1.1/2"	200
SS200-32	2"	200
SS300-40	2.1/2"	300
SS400-48	3"	400

Tech Sheet 10052

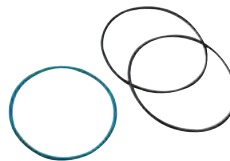


**149 Micron,
Aluminium, BSPP**

0347	To Suit	LPM
SSA020-08	1/2"	20
SSA028-12	3/4"	28
SSA040-16	1"	40
SSA060-20	1.1/4"	60
SSA080-24	1.1/2"	80
SSA120-24	1.1/2"	120
SSA160-32	2"	160
SSA200-32	2"	200
SSA300-40	2.1/2"	300
SSA400-40	3"	400

Tech Sheet 20010

TTF Seal Kit



Seal Kit to suit TTF Housing

0347	To Suit
TTF-SK-08	1/2"
TTF-SK-12	3/4"
TTF-SK-16	1"
TTF-SK-20	1.1/4"

Return Line Diffuser



BSPP

0347	Thread	LPM
RLD-12	3/4"	50
RLD-16	1"	100
RLD-20	1.1/4"	200
RLD-24	1.1/2"	300
RLD-32	2"	400
RLD-40	2.1/2"	500
RLD-48	3"	600

Tech Sheet 10053

Aluminium In-line Heavy-duty Return Filter

Suction and no by-pass models available on request

**Maximum Working
Temperature:**
+80°C

**Maximum Working
Pressure:**
20 bar



1 bar By-pass, BSPP

0347	Thread	Micron
ILRF1-08-10	1/2"	10
ILRF1-08-25	1/2"	25
ILRF2-12-10	3/4"	10
ILRF2-12-25	3/4"	25
ILRF2-16-10	1"	10
ILRF2-16-25	1"	25
ILRF3-20-10	1.1/4"	10
ILRF3-20-25	1.1/4"	25
ILRF3-24-10	1.1/2"	10
ILRF3-24-25	1.1/2"	25

Tech Sheet 10215

Absolute and stainless steel mesh
elements available on request



**Replacement Element
to suit ILFR***

0347	To Suit	Micron
ILFE-1-10	ILFR1	10
ILFE-1-25	ILFR1	25
ILFE-2-10	ILFR2	10
ILFE-2-25	ILFR2	25
ILFE-3-10	ILFR3	10
ILFE-3-25	ILFR3	25

Tech Sheet 10215

Spin-on Filter Assemblies

- Disposable spin-on element
- Die-cast aluminium head
- 5 sizes, flows to 200 L/min
- 2232 Bypass standard 1 bar (suction 0.2 bar)
- For use with mineral/petroleum based oils

Maximum Working Temperature:
+80°C

Maximum Working Pressure:
10 bar



In-line Return, BSPP

0347	Thread	Micron	LPM
SPR08-10-35	1/2"	10	35
SPR08-10-70	1/2"	10	70
SPR08-10-100	1/2"	10	100
SPR08-25-35	1/2"	25	35
SPR08-25-70	1/2"	25	70
SPR08-25-100	1/2"	25	100
SPR12-10-35	3/4"	10	35
SPR12-10-70	3/4"	10	70
SPR12-10-100	3/4"	10	100
SPR12-25-35	3/4"	25	35
SPR12-25-70	3/4"	25	70
SPR12-25-100	3/4"	25	100
SPR16-10-35	1"	10	35
SPR16-10-70	1"	10	70
SPR16-10-100	1"	10	100
SPR16-25-35	1"	25	35
SPR16-25-70	1"	25	70
SPR16-25-100	1"	25	100
SPR20-10-150	1.1/4"	10	150
SPR20-10-200	1.1/4"	10	200
SPR20-25-150	1.1/4"	25	150
SPR20-25-200	1.1/4"	25	200

Tech Sheet 10054

In-line Suction, BSPP

0347	Thread	Micron	LPM
SPS08-10-35	1/2"	10	35
SPS08-10-70	1/2"	10	70
SPS08-10-100	1/2"	10	100
SPS08-25-35	1/2"	25	35
SPS08-25-70	1/2"	25	70
SPS08-25-100	1/2"	25	100
SPS12-10-35	3/4"	10	35
SPS12-10-70	3/4"	10	70
SPS12-10-100	3/4"	10	100
SPS12-25-35	3/4"	25	35
SPS12-25-70	3/4"	25	70
SPS12-25-100	3/4"	25	100
SPS16-10-35	1"	10	35
SPS16-10-70	1"	10	70
SPS16-10-100	1"	10	100
SPS16-25-35	1"	25	35
SPS16-25-70	1"	25	70
SPS16-25-100	1"	25	100
SPS20-10-150	1.1/4"	10	150
SPS20-10-200	1.1/4"	10	200
SPS20-25-150	1.1/4"	25	150
SPS20-25-200	1.1/4"	25	200

Tech Sheet 10054

Visual Indicator



Return, NPT

0347	Thread
VRG	1/8"

Tech Sheet 10054



Suction, NPT

0347	Thread
VSG	1/8"

Tech Sheet 10054

Return/Suction In-line Spin-on Filter Heads



Working Pressure 10 bar, BSPP Post, BSPP Ports

0347	Thread	Description
SRFH-08	1/2"	Return
SSFH-08	1/2"	Suction
SRFH-12	3/4"	Return
SSFH-12	3/4"	Suction
SRFH-16	1"	Return
SSFH-16	1"	Suction
SRFH-20	1.1/4"	Return
SSFH-20	1.1/4"	Suction

Tech Sheet 10054

Spin-on Element to suit S*FH



BSPP

0347	To Suit	Micron	LPM
SE-035-10-12	1/2", 3/4", 1"	10	35
SE-035-10A-12	1/2", 3/4", 1"	10ABS	35
SE-035-25-12	1/2", 3/4", 1"	25	35
SE-070-10-12	1/2", 3/4", 1"	10	70
SE-070-10A-12	1/2", 3/4", 1"	10ABS	70
SE-070-25-12	1/2", 3/4", 1"	25	70
SE-100-10-12	1/2", 3/4", 1"	10	100
SE-100-10A-12	1/2", 3/4", 1"	10ABS	100
SE-100-25-12	1/2", 3/4", 1"	25	100
SE-150-10-20	1.1/4"	10	150
SE-150-25-20	1.1/4"	25	150
SE-200-10-20	1.1/4"	10	200
SE-200-25-20	1.1/4"	25	200

Tech Sheet 10054

HIGH PRESSURE HYDRAULIC FILTRATION

Pressure line filters are an essential part in most hydraulic systems. When the hydraulic components are sophisticated, with close tolerances and a regulation function (not simply that of control), the use of filters in the pressure lines is a must.

The UFI Hydraulic Division pressure filters are named 'COMPO CARE' because they take care of system components, ensuring the recommended cleanliness levels. Filter elements are manufactured from glass fibre and cellulose media.

Materials:

- Cast iron head
- Steel bowl
- Steel bypass valve
- NBR nitrile seals (FKM fluoroelastomer on request)
- Brass indicator housing

Pressures: (ISO 10771-1:2002)

- Maximum working: 42 MPa (420 bar)
- Test: 62 MPa (620 bar)
- Bursting: 126 MPa (1.260 bar)
- Collapse differential for the filter element (ISO 2941):
 - Series standard 2 MPa (20 bar)
 - Series H+ 21 MPa (210 bar)

PB Series Filters, 420 bar

Working Temperature: -25°C to +110°C Maximum Working Pressure: 420 bar

BSPP Ported, No Indicator, Bypass 6 bar, 5 Micron

0526	Thread	Filter Element Size
FPB12B04CNFA03EX	1/2"	12
FPB13B06CNFA03EX	3/4"	13
FPB21B08CNFA03EX	1"	21
FPB31B10CNFA03EX	1.1/4"	31
FPB33B12CNFA03EX	1.1/2"	33
FPB34B12CNFA03EX	1.1/2"	34

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BSPP Ported, No Indicator, Bypass 6 bar, 12 Micron

0526	Thread	Filter Element Size
FPB12B04CNFC03EX	1/2"	12
FPB13B06CNFC03EX	3/4"	13
FPB21B08CNFC03EX	1"	21
FPB31B10CNFC03EX	1.1/4"	31
FPB33B12CNFC03EX	1.1/2"	33
FPB34B12CNFC03EX	1.1/2"	34

Tech Sheet 68074

BSPP Ported, No Indicator, Bypass 6 bar, 7 Micron

0526	Thread	Filter Element Size
FPB12B04CNFB03EX	1/2"	12
FPB13B06CNFB03EX	3/4"	13
FPB21B08CNFB03EX	1"	21
FPB31B10CNFB03EX	1.1/4"	31
FPB33B12CNFB03EX	1.1/2"	33
FPB34B12CNFB03EX	1.1/2"	34

Tech Sheet 68074

BSPP Ported, No Indicator, Bypass 6 bar, 21 Micron

0526	Thread	Filter Element Size
FPB12B04CNFD03EX	1/2"	12
FPB13B06CNFD03EX	3/4"	13
FPB21B08CNFD03EX	1"	21
FPB31B10CNFD03EX	1.1/4"	31
FPB33B12CNFD03EX	1.1/2"	33
FPB34B12CNFD03EX	1.1/2"	34

Tech Sheet 68074



The UFI Hydraulic Division clogging indicators give an exact indication of the proper time to replace the filter element.

Clogging Indicators, Visual

0526	Cracking Pressure Bar
5E-PBIND	5
5F-PBIND	8

Tech Sheet 68074

Clogging Indicators, Electrical

0526	Cracking Pressure Bar
6E-PBIND	5
6F-PBIND	8

Tech Sheet 68074

Clogging Indicators, LED Electrical, 24V

0526	Cracking Pressure Bar
7E-PBIND	5
7F-PBIND	8

Tech Sheet 68074

Replacement Fibre Elements

0526	Filter Element Size	Micron
EPB12NFA	12	5
EPB12NFB	12	7
EPB12NFC	12	12
EPB12NFD	12	21
EPB13NFA	13	5
EPB13NFB	13	7
EPB13NFC	13	12
EPB13NFD	13	21

0526	Filter Element Size	Micron
EPB21NFA	21	5
EPB21NFB	21	7
EPB21NFC	21	12
EPB21NFD	21	21
EPB31NFA	31	5
EPB31NFB	31	7
EPB31NFC	31	12
EPB31NFD	31	21

0526	Filter Element Size	Micron
EPB33NFA	33	5
EPB33NFB	33	7
EPB33NFC	33	12
EPB33NFD	33	21
EPB34NFA	34	5
EPB34NFB	34	7
EPB34NFC	34	12
EPB34NFD	34	21



HIGH PRESSURE HYDRAULIC FILTRATION



The UFI Hydraulic Division pressure filters are named 'COMPO CARE' because they take care of system components, ensuring the recommended cleanliness levels.

Filter elements are manufactured from glass fibre and cellulose media.

Materials:

- Anodized aluminium alloy housing
- Steel bypass valve
- NBR nitrile seals (FKM fluoroelastomer on request)
- Brass indicator housing

Pressures: (ISO 10771-1:2002)

- Maximum working: 21 MPa (210 bar)
- Test: 33 MPa (330 bar)
- Bursting: 66 MPa (660 bar)
- Collapse differential for the filter element (ISO 2941): 2,1 MPa (21 bar)

Compatibility: (ISO 2943:1999)

- Full with fluids: HH-HL-HM-HV-HTG (according to ISO 6743/4)

Materials:

- Aluminium alloy head
- Steel bowl
- NBR nitrile bypass valve (FKM fluoroelastomer on request)
- NBR nitrile seals (FKM fluoroelastomer on request)
- Brass indicator housing

Pressures:

- (ISO 10771-1:2002)
- Maximum working: 5 MPa (50 bar)
 - Fatigue test: 0-5 MPa (0-50 bar) 1 million cycles
 - Collapse differential for the filter element (ISO 2941): 1 MPa (10 bar)

Compatibility: (ISO 2943:1999)

- Full with fluids: HH-HL-HM-HV-HTG (according to ISO 6743/4)

PM Series Filters, 210 bar

Working Temperature:
-25°C to +110°C

Maximum Working Pressure: 210 bar



BSPP Ported, No Indicator, Bypass 6 bar, 5 Micron

0526	Thread	Filter Element Size
FPM21B04CNFA03XX	1/2"	21
FPM22B06CNFA03XX	3/4"	22
FPM22B08CNFA03XX	1"	22

Tech Sheet 68075

BSPP Ported, No Indicator, Bypass 6 bar, 12 Micron

0526	Thread	Filter Element Size
FPM21B04CNFC03XX	1/2"	21
FPM22B06CNFC03XX	3/4"	22
FPM22B08CNFC03XX	1"	22

Tech Sheet 68075

BSPP Ported, No Indicator, Bypass 6 bar, 7 Micron

0526	Thread	Filter Element Size
FPM21B04CNFB03XX	1/2"	21
FPM22B06CNFB03XX	3/4"	22
FPM22B08CNFB03XX	1"	22

Tech Sheet 68075

BSPP Ported, No Indicator, Bypass 6 bar, 21 Micron

0526	Thread	Filter Element Size
FPM21B04CNFD03XX	1/2"	21
FPM22B06CNFD03XX	3/4"	22
FPM22B08CNFD03XX	1"	22

Tech Sheet 68075

PG Series Filters, 50 bar

Working Temperature:
-25°C to +110°C

Maximum Working Pressure: 50 bar



BSPP Ported, No Indicator, Bypass 3.5 bar, 12 Micron

0526	Thread	Filter Element Size
FPG20B06DNFC03CX	3/4"	20
FPG21B06DNFC03CX	3/4"	21
FPG22B08DNFC03CX	1"	22
FPG31B10DNFC03CX	1.1/4"	31

Tech Sheet 68076

BSPP Ported, No Indicator, Bypass 6 bar, 21 Micron

0526	Thread	Filter Element Size
FPG20B06DNFD03CX	3/4"	20
FPG21B06DNFD03CX	3/4"	21
FPG22B08DNFD03CX	1"	22
FPG31B10DNFD03CX	1.1/4"	31

Tech Sheet 68076



Replacement Fibre Elements

0526	Filter Element Size	Micron
EPB22NFA	22	5
EPB22NFB	22	7
EPB22NFC	22	12
EPB22NFD	22	21

Tech Sheet 68075



For Clogging Indicators
see page 265

Replacement Fibre Elements

0526	Filter Element Size	Micron
EPG20NFA	20	5
EPG20NFB	20	7
EPG20NFC	20	12
EPG20NFD	20	21
EPG21NFA	21	5
EPG21NFB	21	7
EPG21NFC	21	12
EPG21NFD	21	21
EPG22NFA	22	5
EPG22NFB	22	7
EPG22NFC	22	12
EPG22NFD	22	21
EPG31NFA	31	5
EPG31NFB	31	7
EPG31NFC	31	12
EPG31NFD	31	21

Tech Sheet 68076

HYDRAULIC FILTRATION



The UFI Hydraulic Division return filters are named 'TANK CARE' because they take care of the oil returning into the tank, ensuring the fluid cleanliness level to be within the required values. Nominal flow rates up to 2.400 L/min (635 GPM). Degree of filtration is from 5µm(c) to 90µm. Filter elements are glass fibre, cellulose and metal wire mesh media.

Materials:

- Aluminium alloy head and cover
- Polyamide bowl for FRA21-31-32-33-41
- Zinc-plated steel bowl for FRA41-42-51-52-53-5D
- Polyamide bypass valve
- NBR nitrile seals (FKM fluoroelastomer on request)
- Brass indicator housing

Compatibility: (ISO 2943:1999)

- Full with fluids: HH-HL-HM-HV-HTG (according to ISO 6743/4)

RA Series Filters, Tank Return

Working Temperature: -25°C to +110°C

Maximum Working Pressure: 3 bar



BSPP Ported, Visual Indicator, Bypass 1.7 bar, 12 Micron

0526	Thread	Filter Element Size
FRA21B04BNFC32WX	1/2"	21
FRA31B06BNFC32WX	3/4"	31
FRA32B08BNFC32WX	1"	32
FRA41B10BNFC32WX	1.1/4"	41
FRA51B12BNFC32WX	1.1/2"	51
FRA53B16BNFC32WX	2"	53

Tech Sheet 68077

BSPP Ported, Visual Indicator, Bypass 1.7 bar, 21 Micron

0526	Thread	Filter Element Size
FRA21B04BNFD32WX	1/2"	21
FRA31B06BNFD32WX	3/4"	31
FRA32B08BNFD32WX	1"	32
FRA41B10BNFD32WX	1.1/4"	41
FRA51B12BNFD32WX	1.1/2"	51
FRA53B16BNFD32WX	2"	53

Replacement Fibre Elements



0526	Filter Element Size	Micron
ERA21NFC	21	12
ERA31NFC	31	12
ERA32NFC	32	12
ERA41NFC	41	12
ERA51NFC	51	12
ERA53NFC	53	12
ERA21NFD	21	21
ERA31NFD	31	21
ERA32NFD	32	21
ERA41NFD	41	21
ERA51NFD	51	21
ERA53NFD	53	21

Materials:

- Aluminium alloy head
- Steel spin-on cartridge
- Polyamide bypass valve
- NBR nitrile seals (FKM fluoroelastomer on request)
- Brass indicator housing

Pressures: (ISO 10771-1:2002)

- Maximum working: 1,2 MPa (12 bar)
- Test: 1,5 MPa (15 bar)
- Bursting: 2,5 MPa (25 bar)
- Collapse differential for the filter element (ISO 2941): 400 kPa (4 bar)

Compatibility: (ISO 2943:1999)

- Full with fluids: HH-HL-HM-HR-HV-HG (according to ISO 6743/4)

PE Series Filters, Spin-on

Maximum Working Pressure: 12 bar



Single, BSPP Ported, Visual Indicator, Bypass 1.7 bar, 12 Micron

0526	Thread	Filter Element Size
FPE11B06BNFC31XX	3/4"	11
FPE12B06BNFC31XX	3/4"	12
FPE21B10BNFC31XX	1.1/4"	21
FPE22B10BNFC31XX	1.1/4"	22

Working Temperature: -25°C to +110°C



Replacement Fibre Elements

0526	Filter Element Size	Micron
ESE11NFA	11	5
ESE11NFB	11	7
ESE11NFC	11	12
ESE11NFD	11	21
ESE12NFA	12	5
ESE12NFB	12	7
ESE12NFC	12	12
ESE12NFD	12	21
ESE21NFA	21	5
ESE21NFB	21	7
ESE21NFC	21	12
ESE21NFD	21	21
ESE22NFA	22	5
ESE22NFB	22	7
ESE22NFC	22	12
ESE22NFD	22	21

Tech Sheet 68078

Twin, BSPP Ported, Visual Indicator, Bypass 1.7 bar, 12 Micron



0526	Thread	Filter Element Size
FPE31B12BNFC31XX	1.1/2"	31
FPE32B12BNFC31XX	1.1/2"	32

Dual, BSPP Ported, Visual Indicator, Bypass 1.7 bar, 12 Micron



0526	Thread	Filter Element Size
FPE41B12BNFC31XX	1.1/2"	41
FPE42B12BNFC31XX	1.1/2"	42

The UFI Hydraulic Division clogging indicator gives an exact indication of the proper time to replace the filter element.



Clogging Indicators, Visual

0526	Thread
31-PEIND	1/8"



Magnetic Tank Cleaner



M12 Thread, 57mm OD

0347	Length mm
MTC-300	300
MTC-450	450
MTC-525	525
MTC-600	600

Tech Sheet 10055

Fluid Sight Glass



BSPP

0347	Thread
SG-12	3/4"
SG-16	1"
SG-20	1.1/4"
SG-24	1.1/2"

Tech Sheet 10060

Weldable Flange to suit SG-**



BSPP

0347	Thread
WF-12	3/4"
WF-16	1"
WF-20	1.1/4"
WF-24	1.1/2"

Tech Sheet 10060

Sight Glasses

- Housing and reflector in aluminium, sight glass in polyamide, transparent, high mechanical stability, non-ageing
- Fluid Compatibility: Mineral based oils and solvents

Maximum Working Temperature:
+100°C

Maximum Working Pressure:
3 bar



Aluminium Oil Level Sight Glasses, BSPP

0027	Thread	Hex Size mm
K561020014	1/4"	18
K561024038	3/8"	22
K561029012	1/2"	27

Tech Sheet 10473

- Housing in polyamide, transparent, high mechanical stability, non-ageing
- Fluid Compatibility: Mineral based oils and solvents

Maximum Working Temperature:
+100°C

Maximum Working Pressure:
3 bar



Plastic Oil Sight Glasses, BSPP

0027	Thread	Hex Size mm
K5604120014	1/4"	17
K5604122038	3/8"	18
K5604128012	1/2"	24
K5604135034	3/4"	30
K5604143100	1"	35
K5604151114	1.1/4"	42
K5604158112	1.1/2"	50
K5604174200	2"	64
K56041201415	M14 x 1.5	17
K56041221615	M16 x 1.5	18
K56041251815	M18 x 1.5	21
K56041282015	M20 x 1.5	24

Tech Sheet 10472

Plastic Oil Sight Glasses with Reflector, BSPP

0027	Thread	Hex Size mm
K5604222038	3/8"	18
K5604228012	1/2"	24
K5604235034	3/4"	30
K5604243100	1"	35
K5604251114	1.1/4"	42
K5604258112	1.1/2"	50
K5604274200	2"	64
K56042221615	M16 x 1.5	18
K56042251815	M18 x 1.5	21
K56042282015	M20 x 1.5	24

Tech Sheet 10472

- Housing in polyamide, transparent, high mechanical stability, non-ageing
 - Fluid Compatibility: Mineral based oils and solvents
- NOTE:** For use with a tank with a minimum wall thickness of 5mm. Not suitable for pressurised tanks

Maximum Working Temperature:
+100°C



Push-in Plastic Oil Sight Glasses with Reflector

0027	OD mm
K56062420	20
K56063026	26
K56063632	32
K56064238	38
K56064440	40

Tech Sheet 10471

- Shock resistant
- Transparent polyamid reflector
- Anodised aluminium reflector
- Buna-n seal
- For use with mineral, petroleum and water-based fluid
- Any contact with alcohol or solvents must be avoided

Maximum Working Temperature:
+100°C

Maximum Working Pressure:
3 bar



Dome Oil Level Sight Glasses, BSPP

0027	Thread	Hex Size mm
K560822038	3/8"	19
K560828012	1/2"	24
K560835034	3/4"	30
K560842100	1"	36

Tech Sheet 10470

Fluid Level Gauge



Without Thermometer

0347	Bolt Thread	Hole Centres mm
FLGS-76	12	76
FLGS-76-10	10	76
FLGS-127	12	127
FLGS-127-10	10	127
FLGS-254	12	254
FLGS-254-10	10	254

Tech Sheet 10060



With Thermometer

0347	Bolt Thread	Hole Centres mm
FLTGS-76	12	76
FLTGS-76-10	10	76
FLTGS-127	12	127
FLTGS-127-10	10	127
FLTGS-254	12	254
FLTGS-254-10	10	254

Tech Sheet 10060

Oil Level Indicators

- Housing in polyamide, transparent, high mechanical stability, non-ageing
- Fluid Compatibility: Mineral based oils and petroleum based fluids
- Plastic mount and frame allowing for side reading

🌡️ Working Temperature: -30°C to +100°C

🔧 Maximum Working Pressure: 1 bar



Without Thermometer

0027	Bolt Thread	Hole Centres mm	Length mm
K56001076	M10 x 1.5	76	103
K56001127	M12 x 1.75	127	154

Tech Sheet 10483

With Thermometer

0027	Bolt Thread	Hole Centres mm	Length mm
K56002076	76	M10 x 1.5	103
K56002127	127	M12 x 1.75	154

Tech Sheet 10483

Filler Breathers



Chrome Plated Steel, 40 Micron

0347	OD mm	Description
SFB-3-40	28	3 Bolt Mount
SFB-6-40	48	6 Bolt Mount
SFB-6-40-HN	48	6 Bolt Mount High Neck
SFB-6-40-SM	101.6	Side Mount

Tech Sheet 10056

- Material Body: Thermoplastic polyamide 66
- Strainer: Thermoplastic polypropylene
- Filter: Polyurethane foam 50µm
- Fluid Compatibility: Mineral based oils and solvents

🌡️ Maximum Working Temperature: +90°C



Plastic, Push-in

0027	OD mm	Length mm
K5670706020	55	88

Tech Sheet 10484

Desiccant Breather



10 Micron, 2" NPT

0347	LPM
DB-1000	1000
DB-1500	1500
DB-2400	2400

Tech Sheet 10059

Breather



Chrome Plated Steel, 40 Micron, BSPP

0347	Thread
SB-04B	1/4"
SB-08B	1/2"
SB-12B	3/4"



ABS, 40 Micron, BSPP

0347	Thread
ABSB-06B	3/8"
ABSB-08B	1/2"
ABSB-12B	3/4"
ABSB-16B	1"

Tech Sheet 10057



Giant Breather, BSPP

0347	Thread	Micron
GTB-12-10	3/4"	10
GTB-12-25	3/4"	25
GTB-20-10	1.1/4"	10
GTB-20-25	1.1/4"	25

Tech Sheet 10058

5 PSI Pressurised Breather



Chrome Plated Steel, 40 Micron, BSPP

0347	Thread
SPB-08B	1/2"
SPB-12B	3/4"

Plugs

- Material: Elastomer, soft polyurethane
- Ideal for keeping threads clean when spraying tanks

Maximum Working Temperature:

+100°C

Working Pressure:

2 to 3 bar



Screw-in Protection Plugs, BSPP

0027	Thread
K5618018	1/8"
K5618014	1/4"
K5618038	3/8"
K5618012	1/2"
K5618034	3/4"
K5618100	1"

Tech Sheet 10474

Press-in Plugs

- Material: Thermoplastic polyamide 66
- Air Filter: Polyurethane foam
- Filter Fineness 50µm

NOTE: Not suitable for pressurised tanks



With Ventilation with Rubber O-Ring

0027	OD mm	Band Width mm
K562223018	18	8
K562323020	20	8
K562423026	26	9.5

Tech Sheet 10475

Without Ventilation with Rubber O-Ring

0027	OD mm	Band Width mm
K562213020	20	8
K562213030	30	9.5

Tech Sheet 10475

Plugs with Magnets

- Material: Aluminium

NOTE: Mounted on the bottom of tanks to attract metal parts



Aluminium, BSPP

0027	OD mm	Hex Size mm
K562621014	1/4"	19
K562624038	3/8"	22
K562630012	1/2"	27
K562636034	3/4"	34
K562642100	1"	40

Tech Sheet 10476

Vent Screws

- Material: Thermoplastic polyamide 66
- Air Filter: Polyurethane foam
- Fluid Compatibility: Mineral based oils and solvents

Maximum Working Temperature:

+100°C



With Oil Fill Symbol

0027	Thread
K5634136038	3/8"
K5634141012	1/2"
K5634147034	3/4"
K5634152100	1"
K5634163114	1.1/4"
K5634163112	1.1/2"
K56341361615	M16 x 1.5
K56341411815	M18 x 1.5
K56341412015	M20 x 1.5
K56341412215	M22 x 1.5

Tech Sheet 10477

With Oil Fill Symbol & Filter

0027	Thread
K5634236038	3/8"
K5634241012	1/2"
K5634247034	3/4"
K5634252100	1"
K5634263114	1.1/4"
K5634263112	1.1/2"
K56342361615	M16 x 1.5
K56342411815	M18 x 1.5
K56342412215	M22 x 1.5

Tech Sheet 10477



With Splash Guard, Filter & Oil Symbol, BSPP

0027	Thread
K563630014	1/4"
K563630038	3/8"
K563630012	1/2"

Tech Sheet 10478

Vent Screws with Dipstick

- Material: Black thermoplastic polyamide 66
- Filter: Polyurethane foam 50µm
- Dipstick: Galvanized steel
- Fluid Compatibility: Mineral based oils and solvents
- Dipstick Length: 200mm except non-return and splash back 195mm



With Vent, Filter & Fill Symbol

0027	Thread
K5654236038	3/8"
K5654241012	1/2"
K5654247034	3/4"
K5654252100	1"
K56542412015	M20 x 1.5

Tech Sheet 10479



With Non-return Valve & Non-return Symbol, BSPP

0027	Thread
K563830014	1/4"
K563830038	3/8"
K563830012	1/2"

Tech Sheet 10480

Brass Vent Screws

- Material: Housing and cap in brass filter in galvanized steel wire 50-60µm



Filter & Vent, BSPP

0027	Thread
K564020014	1/4"
K564024038	3/8"
K564030012	1/2"

Tech Sheet 10481



Non-return Valve & Vent, BSPP

0027	Thread
K564220014	1/4"
K564224038	3/8"
K564230012	1/2"

Tech Sheet 10482



Hydraulic Pressure Gauges

Applications:

- Hydraulics
- Construction
- Agriculture
- Mining
- OEM machine building
- Offshore
- Marine
- High pressure water applications
- Service kits

This quality range of hydraulic glycerine-filled pressure gauges have been manufactured to the highest specification using quality materials.

The range includes stainless steel cased to complete stainless steel units with 40mm, 63mm and 100mm dials. Pressures range from 0-1 bar to 0-600 bar, with rear and bottom connections of 1/4" and 1/2" in BSPP and BSPT.

Hy-fitt gauges are tried, tested and used extensively throughout the world's manufacturing facilities and in the mobile plant industry.

For your peace of mind all gauges can be supplied with a calibration certificate at a nominal charge.

Stainless Steel Case, Bottom Connection



1/4" BSPT

0021	Gauge Diameter mm	Pressure Range PSI	Pressure Range Bar
G63-001BG	63	0-15	0-1
G63-002BG	63	0-30	0-2
G63-004BG	63	0-60	0-4
G63-006BG	63	0-100	0-6
G63-012BG	63	0-200	0-12
G63-020BG	63	0-300	0-20
G63-025BG	63	0-400	0-25
G63-040BG	63	0-600	0-40
G63-060BG	63	0-1000	0-60
G63-120BG	63	0-2000	0-120
G63-200BG	63	0-3000	0-200
G63-250BG	63	0-4000	0-250
G63-400BG	63	0-6000	0-400
G63-600BG	63	0-9000	0-600
VG63-01BG	63	-30" Hg	-1 bar

Tech Sheet 20593



1/4" BSPP

0021	Gauge Diameter mm	Pressure Range PSI	Pressure Range Bar
PG63-001BG	63	0-15	0-1
PG63-002BG	63	0-30	0-2
PG63-004BG	63	0-60	0-4
PG63-006BG	63	0-100	0-6
PG63-012BG	63	0-200	0-12
PG63-020BG	63	0-300	0-20
PG63-025BG	63	0-400	0-25
PG63-040BG	63	0-600	0-40
PG63-060BG	63	0-1000	0-60
PG63-120BG	63	0-2000	0-120
PG63-200BG	63	0-3000	0-200
PG63-250BG	63	0-4000	0-250
PG63-400BG	63	0-6000	0-400
PG63-600BG	63	0-9000	0-600

Tech Sheet 20594

Stainless Steel Case, Centre Back Connection



1/4" BSPT

0021	Gauge Diameter mm	Pressure Range PSI	Pressure Range Bar
G63-001RG	63	0-15	0-1
G63-002RG	63	0-30	0-2
G63-004RG	63	0-60	0-4
G63-006RG	63	0-100	0-6
G63-012RG	63	0-200	0-12
G63-020RG	63	0-300	0-20
G63-025RG	63	0-400	0-25
G63-040RG	63	0-600	0-40
G63-060RG	63	0-1000	0-60
G63-120RG	63	0-2000	0-120
G63-200RG	63	0-3000	0-200
G63-250RG	63	0-4000	0-250
G63-400RG	63	0-6000	0-400
G63-600RG	63	0-9000	0-600
VG63-01RG	63	-30" Hg	-1 bar

Tech Sheet 20595

- For panel mounting bracket use G63-PM



1/4" BSPP

0021	Gauge Diameter mm	Pressure Range PSI	Pressure Range Bar
PG63-001RG	63	0-15	0-1
PG63-002RG	63	0-30	0-2
PG63-004RG	63	0-60	0-4
PG63-006RG	63	0-100	0-6
PG63-012RG	63	0-200	0-12
PG63-020RG	63	0-300	0-20
PG63-025RG	63	0-400	0-25
PG63-040RG	63	0-600	0-40
PG63-060RG	63	0-1000	0-60
PG63-120RG	63	0-2000	0-120
PG63-200RG	63	0-3000	0-200
PG63-250RG	63	0-4000	0-250
PG63-400RG	63	0-6000	0-400
PG63-600RG	63	0-9000	0-600

Tech Sheet 20596


Panel Mounting Bracket



For PG63 Rear Gauge only

0021
G63-PM

Gauge Snubbers

 Working Pressure:
20 to 300 bar




High Pressure

0021	Male Thread	Female Thread
130.4	1/4"	1/4"
130.3	3/8"	3/8"
130.2	1/2"	1/2"

Tech Sheet 28

Gauge snubbers are a great way of protecting gauges from damage, with sudden impact pressure i.e. when full line pressure is introduced to the gauge damage can occur. With the use of the snubber the gauge will be protected.

 Working Pressure:
0 to 20 bar



Low Pressure

0021	Male Thread	Female Thread
131.8	1/8"	1/8"
131.4	1/4"	1/4"
131.3	3/8"	3/8"
131.2	1/2"	1/2"

Tech Sheet 28


Back Rubber Gauge Protectors



0021	Description
G63-0B	Open
G63-CB	Closed

TEMPERATURE GAUGES

Bi-metallic Thermometers, Centre Back Connection

 Pressure Rating of Thermowell: 6 bar max



63mm & 100mm Diameter, Aluminium Case, 1/2" BSPP

0056	Gauge Diameter mm	Temperature Range °C
WTG63-60	63	0-60
WTG63-120	63	0-120
WTG63-200	63	0-200
WTG100-60	100	0-60
WTG100-120	100	0-120
WTG100-200	100	0-200

Tech Sheet 10526

Refrigeration Gauges, Plastic Case, Bottom Connection



63mm Diameter, 7/16" UNF, 1/4" Flare

0056	Temperature Range °C
WG63-716B-1/9	-1/+9

All pressure gauges can be supplied with a calibration certificate at a nominal charge. Please call our Business Development Team for price and delivery.



Customers who bought from this page also purchased **Hydraulic Test Points** see pages **145-149**



GLYCERINE GAUGES



Heavy-duty, Bottom Connection

Accuracy:

63mm diameter: +/- 1.6%

100mm diameter: +/- 1.0%



63mm & 100mm Diameter, BSPP

0056	Thread	Gauge Diameter mm	Max Pressure Bar	Max Pressure PSI
WG63-14B-1G	1/4"	63	1	15
WG63-14B-1.6G	1/4"	63	1.6	25
WG63-14B-2.5G	1/4"	63	2.5	40
WG63-14B-4G	1/4"	63	4	60
WG63-14B-6G	1/4"	63	6	90
WG63-14B-10G	1/4"	63	10	160
WG63-14B-16G	1/4"	63	16	230
WG63-14B-25G	1/4"	63	25	400
WG63-14B-40G	1/4"	63	40	600
WG63-14B-60G	1/4"	63	60	900
WG63-14B-100G	1/4"	63	100	1600
WG63-14B-160G	1/4"	63	160	2300
WG63-14B-250G	1/4"	63	250	4000
WG63-14B-400G	1/4"	63	400	6000
WG63-14B-600G	1/4"	63	600	9000
WG100-38B-2.5G	3/8"	100	2.5	40
WG100-38B-4G	3/8"	100	4	60
WG100-38B-6G	3/8"	100	6	90
WG100-38B-10G	3/8"	100	10	160
WG100-38B-16G	3/8"	100	16	230
WG100-38B-40G	3/8"	100	40	600
WG100-12B-100G	1/2"	100	100	1600
WG100-12B-160G	1/2"	100	160	2300
WG100-12B-250G	1/2"	100	250	4000
WG100-12B-400G	1/2"	100	400	6000
WG100-12B-600G	1/2"	100	600	9000

Tech Sheet 10525

Heavy-duty, Centre Back Connection



63mm & 100mm Diameter, BSPP

0056	Thread	Gauge Diameter mm	Max Pressure Bar	Max Pressure PSI
WG63-14R-1G	1/4"	63	1	15
WG63-14R-1.6G	1/4"	63	1.6	25
WG63-14R-2.5G	1/4"	63	2.5	40
WG63-14R-4G	1/4"	63	4	60
WG63-14R-6G	1/4"	63	6	90
WG63-14R-10G	1/4"	63	10	160
WG63-14R-16G	1/4"	63	16	230
WG63-14R-25G	1/4"	63	25	400
WG63-14R-40G	1/4"	63	40	600
WG63-14R-60G	1/4"	63	60	900
WG63-14R-100G	1/4"	63	100	1600
WG63-14R-160G	1/4"	63	160	2300
WG63-14R-250G	1/4"	63	250	3600
WG63-14R-400G	1/4"	63	400	6000
WG63-14R-600G	1/4"	63	600	9000
WG100-38R-2.5G	3/8"	100	2.5	40
WG100-38R-4G	3/8"	100	4	60
WG100-38R-6G	3/8"	100	6	90
WG100-38R-10G	3/8"	100	10	160
WG100-38R-16G	3/8"	100	16	230
WG100-38R-40G	3/8"	100	40	600
WG100-12R-100G	1/2"	100	100	1600
WG100-12R-160G	1/2"	100	160	2300
WG100-12R-250G	1/2"	100	250	4000
WG100-12R-400G	1/2"	100	400	6000
WG100-12R-600G	1/2"	100	600	9000

Tech Sheet 10525

Vacuum Gauges, Bottom Connection

Accuracy:

63mm diameter: +/- 1.6%



63mm Diameter, 1/4" BSPP

0056	Max Pressure Hg	Max Pressure Bar
WG63-14B/-30HG	-30	-1

Tech Sheet 10525

Vacuum Gauges, Centre Back Connection



63mm Diameter, 1/4" BSPP

0056	Max Pressure Hg	Max Pressure Bar
WG63-14R/-30HG	-30	-1

Tech Sheet 10525

GLYCERINE GAUGES

All Stainless Steel Gauges, 1/4" Bottom Connection



1/4" BSPP

0021	Gauge Diameter mm	Pressure Range PSI	Pressure Range Bar
SSG63-001BG	63	0-15	0-1
SSG63-004BG	63	0-60	0-4
SSG63-012BG	63	0-200	0-12
SSG63-025BG	63	0-400	0-25
SSG63-060BG	63	0-1000	0-60
SSG63-200BG	63	0-3000	0-200
SSG63-400BG	63	0-6000	0-400

Tech Sheet 20598

All Stainless Steel Gauges, 1/4" Centre Back Connection



1/4" BSPP

0021	Gauge Diameter mm	Pressure Range PSI	Pressure Range Bar
2020-0340	50	0-200	0-12
2020-0341	50	0-300	0-20
2020-0342	50	0-600	0-40
2020-0343	50	0-900	0-60
2020-0344	50	0-4000	0-250
2038-8534	63	0-200	0-12
2038-8567	63	0-900	0-60
2038-8575	63	0-4000	0-250

Tech Sheet 20600

All Stainless Steel Gauges, 1/2" Bottom Connection



1/2" BSPP

0021	Gauge Diameter mm	Pressure Range PSI	Pressure Range Bar
SHG100-002BG	100	0-30	0-2
SHG100-006BG	100	0-100	0-6
SHG100-016BG	100	0-250	0-16
SHG100-040BG	100	0-600	0-40
SHG100-100BG	100	0-1500	0-100
SHG100-250BG	100	0-4000	0-250
SHG100-600BG	100	0-9000	0-600

Tech Sheet 20599

All Stainless Steel Gauges, 1/2" Centre Back Connection



1/2" BSPP

0021	Gauge Diameter mm	Pressure Range PSI	Pressure Range Bar
2038-8435	100	0-200	0-12
2038-8443	100	0-300	0-20
2038-8450	100	0-600	0-40
2038-8476	100	0-4000	0-250

Tech Sheet 20601

Stainless Steel Case, Heavy-duty, Bottom Connection



1/2" BSPP

0021	Gauge Diameter mm	Pressure Range PSI	Pressure Range Bar
HG100-002G	100	0-36	0-2.5
HG100-004G	100	0-58	0-4
HG100-006G	100	0-87	0-6
HG100-010G	100	0-145	0-10
HG100-016G	100	0-232	0-16
HG100-040G	100	0-580	0-40
HG100-100G	100	0-1450	0-100
HG100-160G	100	0-2320	0-160
HG100-250G	100	0-3625	0-250
HG100-400G	100	0-5800	0-400

1/2" BSPT

0021	Gauge Diameter mm	Pressure Range PSI	Pressure Range Bar
HG100-002B	100	0-36	0-2.5
HG100-004B	100	0-58	0-4
HG100-006B	100	0-87	0-6
HG100-010B	100	0-145	0-10
HG100-016B	100	0-232	0-16
HG100-040B	100	0-580	0-40
HG100-100B	100	0-1450	0-100
HG100-160B	100	0-2320	0-160
HG100-250B	100	0-3625	0-250
HG100-400B	100	0-5800	0-400

Tech Sheet 20597

All Stainless Steel Dry Gauges, Bottom Connection



63mm Diameter, 1/4" BSPP

0021	Pressure Range PSI	Pressure Range Bar
SSG63-001B	0-15	0-1
SSG63-004B	0-60	0-4
SSG63-012B	0-200	0-12
SSG63-025B	0-400	0-25
SSG63-060B	0-1000	0-60
SSG63-200B	0-3000	0-200
SSG63-400B	0-6000	0-400
Tech Sheet 20589		

All Stainless Steel Dry Gauges, Centre Back Connection



63mm Diameter, 1/4" BSPP

0021	Pressure Range PSI	Pressure Range Bar
2038-8484	0-200	0-12
2038-8492	0-300	0-20
2038-8526	0-4000	0-250
Tech Sheet 20591		

For **Clogging Indicators**
see page **265**



TEMPERATURE GAUGES

stainless steel



Bi-metallic Thermometers

Stainless steel case and stainless steel stem, 100mm insertion.

Applications:

- Machine and plant engineering, piping, industrial heating
- BSPP Male



Stainless Steel Case, Back Entry, BSPP

0021	Thread	Gauge Diameter mm	Temperature Range °C
2052-8774	1/4"	63	0-60
2052-8782	1/4"	63	0-120
2052-8790	1/4"	63	0-200
2052-8808	1/4"	63	0-300
2052-8816	1/2"	100	0-60
2052-8824	1/2"	100	0-120
2052-8840	1/2"	100	0-200

Stainless steel case and stainless steel stem, 100mm insertion.

Applications:

- Machine and plant engineering, piping, industrial heating
- BSPP Male



Stainless Steel Case, Bottom Entry, BSPP

0021	Thread	Gauge Diameter mm	Temperature Range °C
2052-8865	1/4"	63	0-60
2052-8873	1/4"	63	0-120
2052-8881	1/4"	63	0-200
2052-8907	1/2"	100	0-60
2052-8915	1/2"	100	0-120
2052-8923	1/2"	100	0-200

TEMPERATURE GAUGES



Bi-metallic Thermometers, Centre Back Connection

Pressure Rating of Thermowell:
25 bar max



63mm & 100mm Diameter, Stainless Steel Case, 1/2" BSPP

0056	Temperature Range °C
WTG63160-60	0-60
WTG63160-120	0-120
WTG160-60	0-60
WTG160-120	0-120

Tech Sheet 10527

Bi-metallic Thermometers

Other temperatures are available. Please call our Technical Department for details.

Pressure Rating of Thermowell:
25 bar max



High Precision Pressure Pumps and Digital Pressure Gauges

SIKA®



Robust and compact design

High pressure generation with minimum effort

Testing, adjustment and calibration of all types of pressure gauges, transducers and pressure switches

Ready for use at any time

The compact SIKA pressure calibrators, a combination of a handy pressure pump with mbar accurate fine adjustment and a highly accurate digital reference pressure gauge, enable reliable on-site testing of sensors and indicators. With our many years of experience, we offer you a complete range of pressure calibrators for a wide variety of applications. This way you will find the right equipment for almost every testing task.

Well-equipped for mobile use - with SIKA pressure calibrators "Made in Germany"

Digital Pressure Gauges

- Battery powered digital pressure gauge
- Robust and compact design with rubber boot
- IP67 ingress protection/80mm diameter
- 1/4" BSPP male connection with built-in seal
- Integral swivel
- Easy selection between units: bar, mbar, kPa, MPa, psi, kg/cm², mH₂O, inH₂O
- Temporary backlight

Media Temperature:
-20°C to +80°C



D2, 1/4" BSPP, 0.1% Accuracy, Full Scale

0675	Gauge Diameter mm	Pressure Range Bar
EME8REF-D2-0003	80	-1-3
EME8REF-D2-0010	80	-1-10
EME8REF-D2-0020	80	-1-20
EME8REF-D2-0040	80	-1-40
EME8REF-D2-0060	80	-1-60
EME8REF-D2-0100	80	0-100
EME8REF-D2-0250	80	0-250
EME8REF-D2-0400	80	0-400
EME8REF-D2-0700	80	0-700
Tech Sheet 68744		

E2, 1/4" BSPP, 0.5% Accuracy, Full Scale

0675	Gauge Diameter mm	Pressure Range Bar
EME8REF-E2-0003	80	-1-3
EME8REF-E2-0010	80	-1-10
EME8REF-E2-0020	80	-1-20
EME8REF-E2-0040	80	-1-40
EME8REF-E2-0060	80	-1-60
EME8REF-E2-0100	80	0-100
EME8REF-E2-0250	80	0-250
EME8REF-E2-0400	80	0-400
EME8REF-E2-0700	80	0-700
Tech Sheet 68744		

C2, 1/4" BSPP, 0.05% Accuracy, Full Scale

0675	Gauge Diameter mm	Pressure Range Bar
EME8REF-C2-0020	80	-1-10
EME8REF-C2-0040	80	-1-20
EME8REF-C2-0060	80	-1-40
EME8REF-C2-0100	80	-1-60
EME8REF-C2-0160	80	0-100
EME8REF-C2-0250	80	0-250
EME8REF-C2-0400	80	0-400
EME8REF-C2-0700	80	0-700
Tech Sheet 68744		



Pressure Test Pumps

- Pneumatic test pump
- -0.3 to 4 bar pressure generation
- Fine adjust both up and down in pressure
- Aluminium anodised body for harsh environments
- Hose length: 1 metre
- High quality, manufactured in Germany



P4 Pump with Hose

0675	Pressure Range Bar
EPPM004EBL0000	-1-4
Tech Sheet 68745	

- Pneumatic test pump
- -0.95 to 40 bar pressure generation
- Fine adjust both up and down in pressure
- Aluminium anodised body for harsh environments
- Hose length: 1 metre
- High quality, manufactured in Germany



P40.2 Pump with Hose

0675	Pressure Range Bar
EPPM040EBL0000	-0.95-40
Tech Sheet 68746	

- Pneumatic test pump
- -0.95 to 60 bar pressure generation
- Fine adjust both up and down in pressure
- Aluminium anodised body for harsh environments
- Hose length: 1 metre
- High quality, manufactured in Germany



P60 Pump with Hose

0675	Pressure Range Bar
EPPM060EBL0000	-0.95-60
Tech Sheet 68746	

- Hydraulic test pump
- 700 bar maximum pressure generation
- Can be used with both deionised water or hydraulic oil
- Fine adjust both up and down in pressure
- Aluminium anodised body for harsh environments
- Hose length: 1 metre
- Stainless steel fittings
- High quality, manufactured in Germany



P700.3 Pump with Hose

0675	Max Pressure Bar
EPPM700EBL0003	700
Tech Sheet 68747	

Pressure Test Pump Kits

P4 Kit:

- Transportation case
- Pneumatic test pump
- Adaptor set: G1/8" A, G1/4" A, M12 x 1.5, M20 x 1.5, NPT 1/8", NPT 1/4", NPT 1/2", G1/8", G1/4", G3/8", G1/2"
- Seal kit



P4

0675	Pressure Range Bar
EPPM0040BL0000	-1-4
Tech Sheet 68746	

P40.2 Kit:

- Transportation case
- Pneumatic test pump
- Adaptor set: G1/8" A, G1/4" A, M12 x 1.5, M20 x 1.5, NPT 1/8", NPT 1/4", NPT 1/2", G1/8", G1/4", G3/8", G1/2"
- Seal kit



P40.2

0675	Pressure Range Bar
EPPM0400BL0000	-0.95-40
Tech Sheet 68746	

P60 Kit:

- Transportation case
- Pneumatic test pump
- Adaptor set: G1/8" A, G1/4" A, M12 x 1.5, M20 x 1.5, NPT 1/8", NPT 1/4", NPT 1/2", G1/8", G1/4", G3/8", G1/2"
- Seal kit



P60

0675	Pressure Range Bar
EPPM0600BL0000	-0.95-60
Tech Sheet 68746	

P700.3 Kit:

- Transportation case
- Hydraulic test pump
- Adaptor set: G1/8" A, G1/4" A, M12 x 1.5, M20 x 1.5, NPT 1/8", NPT 1/4", NPT 1/2", G1/8", G1/4", G3/8", G1/2"
- Minimes adaptor
- Filling bottle

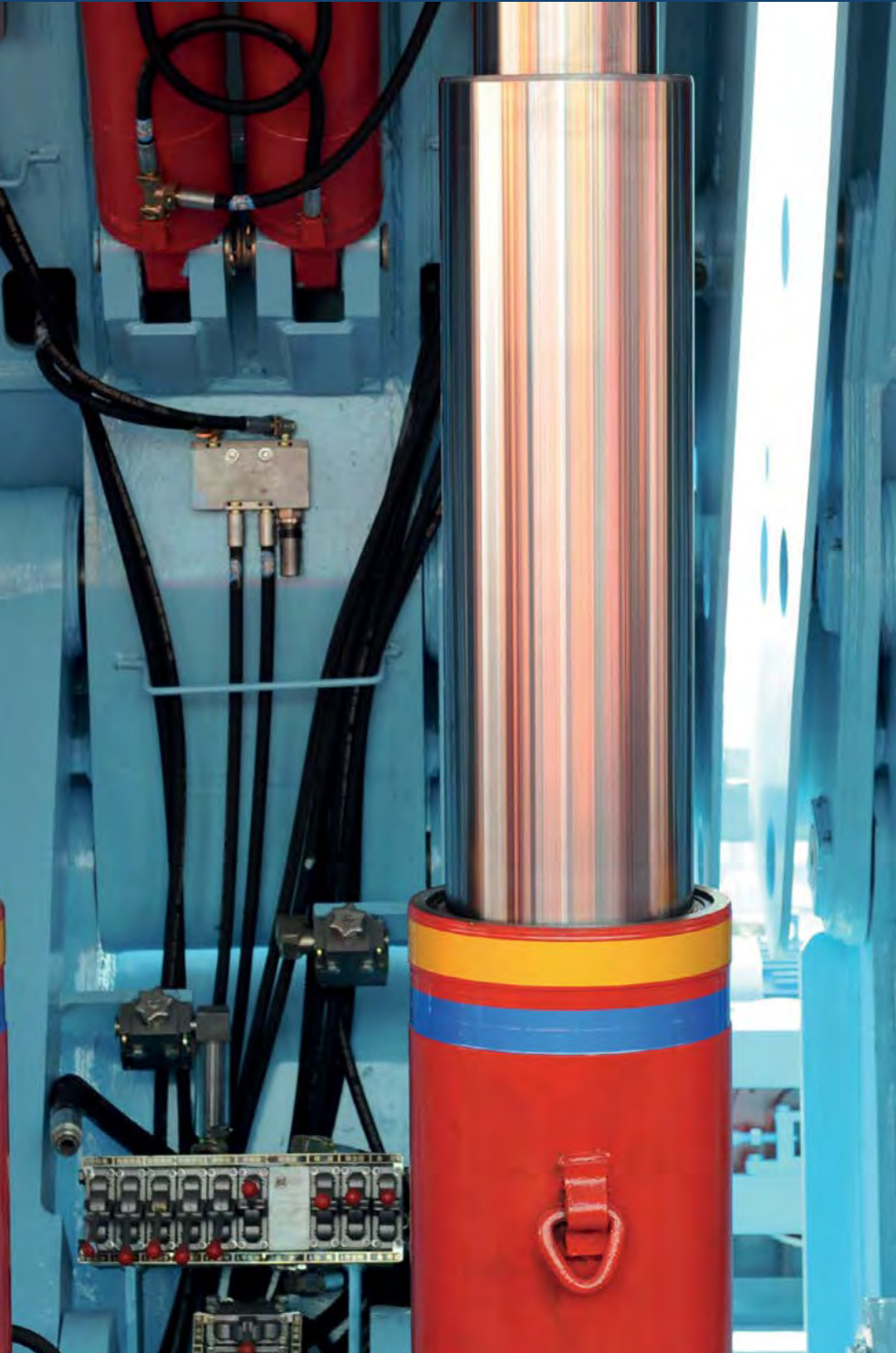


P700.3

0675	Max Pressure Bar
EPPM7000BL0000	700
Tech Sheet 68747	

SECTION 6

Lifting, Tooling & Spill Equipment

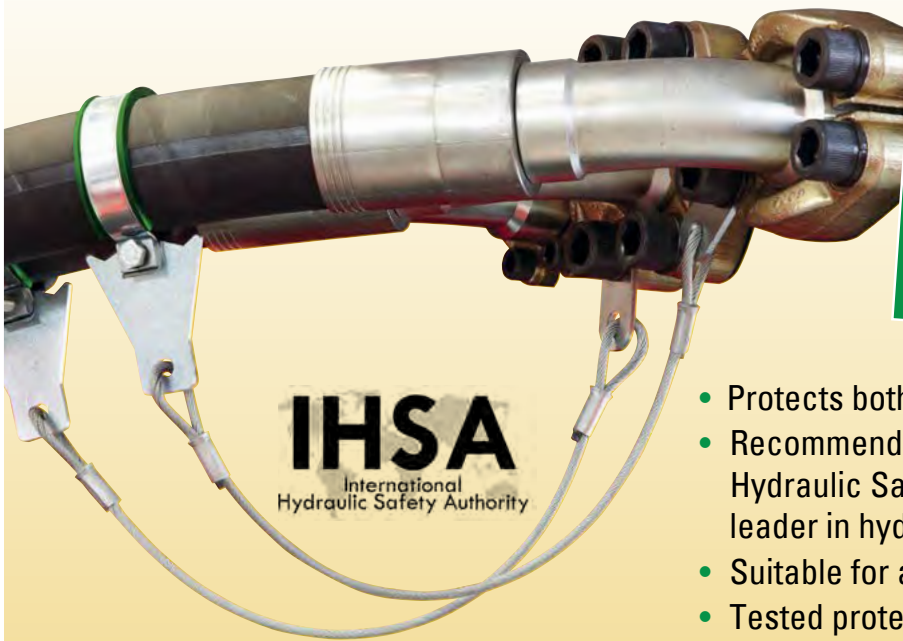


- Stopflex Hose Retention
- Fire Protection Sleeve
- Hose Protection Steel
- Hose Protection Fabric
- Hose Protection Plastic
- Service Plugs
- Hydraulic Tooling Equipment
- Spill Absorbents
- Spill Prevention
- Hydraulic Oils



BVA Cylinder Kits	294	Hy-fitt ISO 32, ISO 46 10W & ATF Dexron II Oil Drums	301
BVA General Purpose Single Acting Cylinders	292	Hy-fitt Oil & General Purpose Shoulder/Carry Bags & Refill Kits	299
BVA Hose Assemblies, Couplings, Bottle Jacks & Toe Jacks	295	Hy-fitt Oil & General Purpose Spill Pads, Rolls & Socks	297
BVA Single Acting Air, Universal Motor & Hand Pumps Range	293	Hy-fitt Spill Trays, Drain Covers, Drum Pallets & Dispensing Stations	300
Galvanised Steel Spring Hose Guard	287	Plastic Spiral Hose Guard	289
Hose Fire Sleeve, Self Amalgamating Tape & Heat Shrink	286	Plugtite Spill Prevention Service Plugs	291
Hose Protection Sleeve, Nylon Sleeve, Burst Guard & Hose Wrap Sleeve	288	STOPflex Retention System for Pressure Hoses & Hose Bands	284
Hy-fitt Chemical Spill Pads, Rolls, Socks & Granules	298		

Prevent whipping of a pressurised hose in the event of the hose separating from its fitting



Suitable for various applications, including:

- DIN and BSP Fittings
- JIC Fittings
- SAE Flanges

IHSA
International
Hydraulic Safety Authority

- Protects both the operator and components
- Recommended by the International Hydraulic Safety Authority - the world leader in hydraulic safety training
- Suitable for all kinds of flexible hose
- Tested protection: compliant with EN 853, EN 854, EN 855, EN 856, EN 857, SAE J517

How it works...



1: Disengagement:

A hose disengages from its ferrule.



2: Release/venting of pressure

The pressurised oil exits from the hose and the release of energy results in the hose gaining considerable velocity, triggering a hazardous "whip effect" which is very dangerous to anyone or anything in its vicinity.



Step 3: Restraint

This is where the Stopflex system gets into operation: the stainless steel cable is tensioned and restrains the hose, preventing it from 'whipping'. The plate cuts into the rubber of the hose, to ensure that the clamp remains firmly attached. The hose clamp and plate absorb the force released from the travel of the flexible hose. This critical step occurs within just a few seconds.

Retention System for Pressure Hoses



To suit DIN & BSP Fittings

0466	To Suit	Diameter mm	Length mm
STOPFUDIN145	8L - 1/4"	14.5	300
STOPFUDIN17	8S - 10L - 3/8"	17	300
STOPFUDIN185	10S - 12L	18.5	300
STOPFUDIN205	12S	20.5	300
STOPFUDIN225	14S - 15L - 1/2"	22.5	300
STOPFUDIN245	16S - 5/8"	24.5	300
STOPFUDIN265	18L - 3/4"	26.5	300
STOPFUDIN305	20S - 22L	30.5	300
STOPFUDIN34	1"	34	450
STOPFUDIN365	25S - 28L	36.5	450
STOPFUDIN425	30S - 1.1/4"	42.5	450
STOPFUDIN455	35L	45.5	450
STOPFUDIN49	1.1/2"	49	450
STOPFUDIN525	38S - 42L	52.5	450
STOPFUDIN60	2"	60	450

Tech Sheet 60137



To suit JIC Fittings

0466	To Suit	Diameter mm	Length mm
STOPFUJIC115	7/16"	11.5	300
STOPFUJIC132	1/2"	13.2	300
STOPFUJIC148	9/16"	14.8	300
STOPFUJIC195	3/4"	19.5	300
STOPFUJIC228	7/8"	22.8	300
STOPFUJIC275	1.1/16"	27.5	300
STOPFUJIC307	1.3/16"	30.7	300
STOPFUJIC34	1.5/16"	34	450
STOPFUJIC415	1.5/8"	41.5	450
STOPFUJIC48	1.7/8"	48	450
STOPFUJIC64	2.1/2"	64	450

Tech Sheet 60137



To suit SAE Flanges

0466	To Suit	Diameter mm	Length mm
STOPFUSAE085	1/2" - 3000 psi	8.5	300
STOPFUSAE105	3/4" - 1.1/4" 3000 psi, 3/4" 6000 psi	10.5	450
STOPFUSAE125	1.1/2" - 2" 3000 psi, 1" 6000 psi	12.5	450
STOPFUSAE145	1.1/4" - 6000 psi	14.5	450
STOPFUSAE165	1.1/2" - 6000 psi	16.5	450
STOPFUSAE205	2" - 6000 psi	20.5	450

Tech Sheet 60137



To suit Various Applications

0466	To Suit	Diameter mm	Length mm
STOPFUVARIE	Large Plate	13	450
STOPFUVARIES	Small Plate	13	450

Tech Sheet 60137



Hose Band

0466	Minimum Diameter mm	Maximum Diameter mm	Thread
STOPFA11115	11	11.5	M6
STOPFA12125	12	12.5	M6
STOPFA13135	13	13.5	M6
STOPFA14145	14	15	M6
STOPFA161617	16	17	M6
STOPFA1718	17	18	M6
STOPFA1819	18	19	M6
STOPFA2021	20	21	M6
STOPFA2122	21	22	M6
STOPFA2223	22	23	M6
STOPFA2425	24	25	M6
STOPFA2526	25	26	M6
STOPFA2627	26	27	M6
STOPFA2728	27	28	M6
STOPFA2829	28	29	M6
STOPFA3031	30	31	M6
STOPFA3233	32	33	M6
STOPFA3435	34	35	M6
STOPFA3637	36	37	M6
STOPFA3839	38	39	M6
STOPFA3940	39	40	M6
STOPFA4041	40	41	M6
STOPFA4243	42	43	M6
STOPFA4344	43	44	M6
STOPFA4445	44	45	M8
STOPFA4547	45	47	M8
STOPFA4850	48	50	M8
STOPFA5153	51	53	M8
STOPFA5354	53	54	M8
STOPFA5456	54	56	M8
STOPFA5759	57	59	M8
STOPFA6062	60	62	M8
STOPFA6365	63	65	M8
STOPFA6668	66	68	M8
STOPFA6971	69	71	M8
STOPFA7274	72	74	M8
STOPFA7577	75	77	M8
STOPFA7880	78	80	M8
STOPFA8183	81	83	M8
STOPFA8486	84	86	M8
STOPFA8789	87	89	M8
STOPFA9092	90	92	M8
STOPFA9395	93	95	M8

Tech Sheet 60137

FIRE SLEEVE

Shield your hoses from extreme temperatures

The tried and tested red oxide silicone coated glass protective sleeving is popular requirement for application in mining, petrochemical process, aerospace and steel works settings.



The protective sleeve is easily installed whilst assembling a hose or can also be retro-fitted during maintenance and repair activities. In addition to defending critical equipment in harsh environmental conditions, the sleeve also mitigates health and safety risks by eliminating temperature extreme hazards so that scorching and burning injuries are avoided.

- Continuous protection at 260°C ambient temperatures
- Withstands molten metal splash at 1200°C
- UL94 flammability V-0
- Worker safety protection against lines that carry hot or volatile fluids
- Resistant to tears and abrasion
- Highly flexible and easily fitted
- MSHA approved
- RoHS 3 compliant



Fire Sleeve MSHA UL 94 V-0

Red Oxide
Per Metre

0319	ID mm	OD mm	SAE Size
FS-06-R	6	11	-04
FS-10-R	10	15	-06
FS-12-R	12	17	-08
FS-14-R	14	19	-09
FS-16-R	16	21	-10
FS-19-R	19	24	-12
FS-22-R	22	27	-14
FS-25-R	25	30	-16
FS-28-R	28	33	-18
FS-32-R	32	37	-20
FS-35-R	35	40	-22
FS-38-R	38	43	-24
FS-41-R	41	46	-26
FS-44-R	44	49	-28
FS-51-R	51	56	-32
FS-57-R	57	62	-
FS-63-R	63	68	-40
FS-70-R	70	75	-
FS-76-R	76	81	-48
FS-83-R	83	88	-
FS-89-R	89	94	-56
FS-95-R	95	100	-60
FS-102-R	102	107	-
FS-114-R	114	119	-72
FS-127-R	127	132	-

Tech Sheet 70055

Red Oxide
15 Metre Coils

0319	ID mm	OD mm	SAE Size
FS-06-R-15	6	11	-04
FS-10-R-15	10	15	-06
FS-12-R-15	12	17	-08
FS-14-R-15	14	19	-09
FS-16-R-15	16	21	-10
FS-19-R-15	19	24	-12
FS-22-R-15	22	27	-14
FS-25-R-15	25	30	-16
FS-28-R-15	28	33	-18
FS-32-R-15	32	37	-20
FS-35-R-15	35	40	-22
FS-38-R-15	38	43	-24
FS-41-R-15	41	46	-26
FS-44-R-15	44	49	-28
FS-51-R-15	51	56	-32
FS-57-R-15	57	62	-
FS-63-R-15	63	68	-40
FS-70-R-15	70	75	-
FS-76-R-15	76	81	-48
FS-83-R-15	83	88	-
FS-89-R-15	89	94	-56
FS-95-R-15	95	100	-60
FS-102-R-15	102	107	-
FS-114-R-15	114	119	-72
FS-127-R-15	127	132	-

Tech Sheet 70055



Self Amalgamating Tape 11 Metre Roll

0319	Colour	Width mm
FS-TAPE-25-N-11	Black	25
FS-TAPE-25-R-11	Red	25

Tech Sheet 70056

HEAT SHRINK

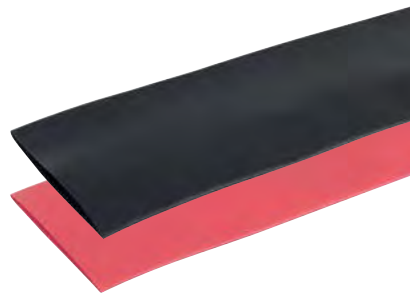
2:1 Ratio (min) Thin Wall UL 224 VW-1



Crosslinked Polyolefin, 50 Metre Reel

0319	Colour	ID mm
HS2T-6-R-50	Red	6.35-12.7
HS2T-8-R-50	Red	8-16
HS2T-10-R-50	Red	9.5-19.1
HS2T-13-R-50	Red	12.7-25.4
HS2T-16-R-50	Red	16-32
HS2T-19-R-50	Red	19.00-38.1
HS2T-6-N-50	Black	6.35-12.7
HS2T-8-N-50	Black	8-16
HS2T-10-N-50	Black	9.5-19.1
HS2T-13-N-50	Black	12.7-25.4
HS2T-16-N-50	Black	16-32
HS2T-19-N-50	Black	19.00-38.1

Tech Sheet 70057



Crosslinked Polyolefin, 30 Metre Reel

0319	Colour	ID mm
HS2T-25-R-30	Red	25.4-50.8
HS2T-38-R-30	Red	38.1-76.2
HS2T-51-R-30	Red	50.8-101.6
HS2T-25-N-30	Black	25.4-50.8
HS2T-38-N-30	Black	38.1-76.2
HS2T-51-N-30	Black	50.8-101.6

Tech Sheet 70057

3:1 Ratio (min)

Black Crosslinked Polyolefin Stick
Length 1.22 Metres

0319	Type	ID mm
HS3MW/160	Medium Wall	50-160
HS3HW/160	Heavy Wall	50-160

Tech Sheet 70058



PROTECTIVE HOSE SLEEVES

These products cannot be ordered online, please contact our sales office.

Galvanised Steel Spring Hose Guard

Open coil spring guard is a very effective and economic means of protecting hoses from expensive abrasive and crush damage.

Manufactured from high tensile spring steel wire.

Available in other sizes on request.

10 Metre Coils

0362	ID mm	Wall Thickness mm
SHG-18	18	1.6
SHG-20	20	1.6
SHG-22	22	2.0
SHG-24	24	2.0
SHG-25	25	2.0
SHG-26	26	2.0
SHG-29	29	2.0
SHG-31	31	3.2
SHG-33	33	3.2
SHG-37	37	3.2
SHG-41	41	3.2
SHG-43	43	3.2
SHG-45	45	3.2
SHG-49	49	3.2
SHG-51	51	3.2
SHG-54	54	3.2
SHG-56	56	3.2
SHG-60	60	3.2
SHG-63	63	3.2
SHG-70	70	3.2



PROTECTIVE HOSE SLEEVES

Hose Protection Sleeve

The most economical option for managing, containing and protecting your hose, cables and other equipment.

Applications include protection for hose assemblies, ropes and wire harnesses.

- MSHA approved for underground mines, IC 171/1
- ISO 6945 abrasion standard, minimum 50,000 cycles
- Melting point: +220°C
- Resists mildew and bacterial growth
- Non-toxic
- Excellent resistance to UV ageing
- Very good chemical compatibility



20 Metre Coils

0460	ID mm
LGSLEEVE-18	18
LGSLEEVE-21	21
LGSLEEVE-25	25
LGSLEEVE-31	31
LGSLEEVE-36	36
LGSLEEVE-40	40
LGSLEEVE-45	45
LGSLEEVE-52	52
LGSLEEVE-60	60
LGSLEEVE-73	73
LGSLEEVE-85	85
LGSLEEVE-93	93

Tech Sheet 20377

Nylon Hose Protection Sleeve



This textile sleeve consists of nylon multifilament. Complying with European standards, it has excellent abrasion resistance, and is ideal for protecting people, environment and machinery against any possible hydraulic hose oil leakage or spill.

- Material: nylon (polyamide)
- Thickness: 0.8mm (European standard)
- Melting point: +230°C
- Working temperature: -40°C to +125°C (the sleeve loses 10% of its resistance at +125°C)
- MSHA approved: IC 293-1
- ISO 6945 abrasion standard, minimum 50,000 cycles
- UV solar protected: BS EN 13758-1
- Burst and leakage protected: SAE J343/ISO 3457
- Conductivity requirement: ISO 8031 approved
- Pin hole test approved



Working Temperature:
-40°C to +125°C

20 Metre Coils

0672	ID mm
FPSLEEVE-017	17
FPSLEEVE-020	20
FPSLEEVE-023	23
FPSLEEVE-027	27
FPSLEEVE-031	31
FPSLEEVE-036	36
FPSLEEVE-040	40
FPSLEEVE-044	44
FPSLEEVE-055	55
FPSLEEVE-060	60
FPSLEEVE-066	66
FPSLEEVE-073	73
FPSLEEVE-093	93
FPSLEEVE-112	112

Tech Sheet 68268

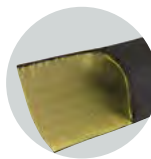
Hose Burst Guard

Our highest performance sleeve, designed to control and dissipate fluids from dangerous hose bursts.

For use in line-of-sight applications, to help protect personnel and equipment from the effects of a hose failure.

- MSHA approved IC171/1
- Outer layer withstands a minimum 350,000 cycles, abrasion tested using ISO 6945 test method
- Controls bursts up to 13,000 psi
- Two-layer structure with inner yellow layer acting as an abrasion indicator
- Meets ISO 3457, 4413, 6945, 6805, EN 414, MDG 41 and MSHA IC171/2
- Excellent resistance to UV ageing
- 40 metre lengths available on request
- Melting point: +215°C

Maximum Burst Control Pressure:
890 bar



30 Metre Coils

0460	ID mm
BUSLEEVE-31	31
BUSLEEVE-36	36
BUSLEEVE-42	42
BUSLEEVE-46	46
BUSLEEVE-54	54

Tech Sheet 60335

10 Metre Coils

0460	ID mm
BUSLEEVE-31-10	31
BUSLEEVE-36-10	36
BUSLEEVE-42-10	42
BUSLEEVE-46-10	46
BUSLEEVE-54-10	54

Tech Sheet 60335

Hose Wrap Sleeve

Ideal for hose bundling, adding abrasion protection post assembly or replacing damaged existing sleeves.

- Quick assembly
- Lightweight
- Proprietary bonding process allows cutting without fraying
- Meets ISO 6945 abrasion standard
- Excellent UV resistance
- Velcro fastening with shear strength of 22 psi
- Maximum temperature without degradation: +225°C



45 Metre Coils

0460	ID mm
WRSLEEVE-25	25
WRSLEEVE-75	75
WRSLEEVE-100	100
WRSLEEVE-125	125
WRSLEEVE-150	150
WRSLEEVE-175	175
WRSLEEVE-200	200

Tech Sheet 60336

SPIRAL HOSE GUARD FEATURES

- Provides high strength abrasion resistance for most types of hydraulic, pneumatic and industrial hose assemblies across a wide range of industries including: mining, forestry, drill rigs, plant and agricultural machinery, automotive, marine and offshore
- Exceptional anti-crushing performance
- High abrasion resistance
- Good UV resistance
- Easy installation and routing
- Proven in arduous conditions
- Conveniently coiled and packed in cartons for easy storage
- Suitable for wrapping single hoses or multiple hose looms



Hose I.D.	Hose Type								
	R1AT	R2AT	1SC	2SC	4SP	4SH	R13	R15	R17
3/16"	A	A							
1/4"	B	B	B	B	C				B
5/16"	B	C							B
3/8"	C	C	C	C	D			D	C
1/2"	D	D	D	D	E			E	D
5/8"	D	E							E
3/4"	E	E	E	E	E	E	E	E	E
1"	F	F		F	F	F	F	F	F
1.1/4"	G	G			G	G	G	G	
1.1/2"	G	H			H	H	H		
2"	I	I			I	I	I	I	

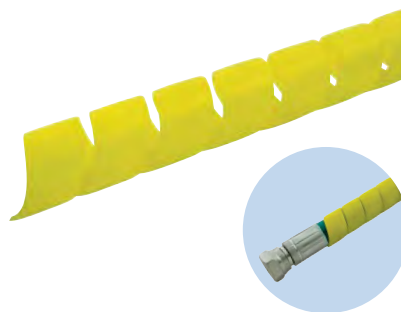
Protective Hose Sleeves



Flat Type Black, Polypropylene

0369	ID mm	Box Quantity	To Suit
FSG-10	10	20 Metres	A
FSG-12	12	20 Metres	B
FSG-14	14	20 Metres	-
FSG-16	16	20 Metres	C
FSG-20	20	20 Metres	D
FSG-25	25	20 Metres	E
FSG-32	32	20 Metres	F
FSG-42	42	10 Metres	G
FSG-50	50	10 Metres	H
FSG-60	60	10 Metres	I
FSG-74	74	10 Metres	-
FSG-80	80	10 Metres	-
FSG-88	88	10 Metres	-
FSG-100	100	10 Metres	-
FSG-130	130	10 Metres	-
FSG-150	150	10 Metres	-
FSG-200	200	2 Metres	-

Tech Sheet 10265



Flat Type Yellow, Polypropylene

0369	ID mm	Box Quantity	To Suit
FYSG-10	10	20 Metres	A
FYSG-12	12	20 Metres	B
FYSG-16	16	20 Metres	C
FYSG-20	20	20 Metres	D
FYSG-25	25	20 Metres	E
FYSG-32	32	20 Metres	F
FYSG-42	42	10 Metres	G
FYSG-50	50	10 Metres	H
FYSG-60	60	10 Metres	I


Tech Sheet 10265



Round Type Black, Polypropylene

0369	ID mm	Box Quantity	To Suit
RSG-10	10	20 Metres	A
RSG-12	12	20 Metres	B
RSG-16	16	20 Metres	C
RSG-20	20	20 Metres	D
RSG-25	25	20 Metres	E
RSG-32	32	20 Metres	F
RSG-42	42	10 Metres	G
RSG-50	50	10 Metres	H
RSG-60	60	10 Metres	I

Tech Sheet 10265

 **Working Temperature:**
-40°C to +90°C

Available in various colours on request.



Plugtite Industrial

Designed and used to prevent the leakage and contamination of various fluids, including hydraulics and chemicals, during the service, maintenance and storage of machinery and equipment. Used in industrial areas such as hydraulic, chemical, processing, MRO, HVAC, mining and heavy equipment.

Made from a special compound in our own factory

The **Plugtite** aperture has been designed and engineered to give the plug greater compression than standard solid plugs, ensuring a perfect seal whilst still being able to be cut to size if needed.

- Greater resistance to most oils within the temperature range of -25°C to +90°C
- Does not shrink, leak or discolour
- Resistant to sunlight for greater shelf life; does not split/crack or deteriorate
- Easy to use; insert, squeeze, press home and release
- The compressed rubber ensures a tight fit

Other Members of the Plugtite Family

Plugtite - Hygiene FDA Approved

This plug is specifically produced for use in the food and beverage processing industry.

The use of the plugs helps to ensure that sensitive working areas are kept free of contamination from oils and other fluids by preventing leakage when cleaning and servicing machinery and equipment.

Plugtite - Heat Resistant

For use in operations such as electrostatic lines, die casting, etc, where high heat resistance is a requirement.



3 Standard Apertures

Plugtite Small 2mm to 14mm

Plugtite Medium 6mm to 24mm

Plugtite Large 15mm to 45mm



The new generation of service and maintenance plugs

SERVICE PLUGS

Spill Prevention

- Stop contamination
- Plugtite products are used to prevent contamination of all sorts of chemical compounds into the surrounding environment

 **Working Temperature:**
-25°C to +90°C



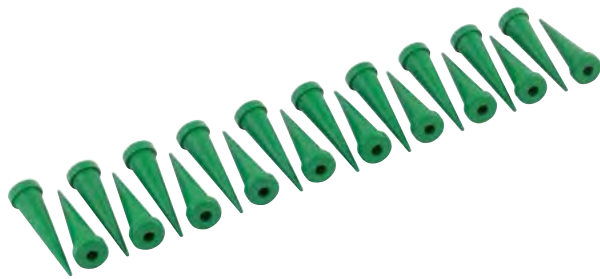
Standard Pack

0709	Size mm	Box Quantity
PLUGTITE-STD-10	6-24	10
Tech Sheet 68083		



XL Pack

0709	Size mm	Box Quantity
PLUGTITE-MAX-4	15-45	4
Tech Sheet 68083		



Micro Pack

0709	Size mm	Box Quantity
PLUGTITE-MINI-20	2-14	20
Tech Sheet 68083		



Mix Pack

0709	Size mm	Box Quantity
PLUGTITE-MIX-9	2-45	9
Tech Sheet 68083		

- Collar threads and base
- Hard chrome-plated piston plunger protects against corrosion and damage
- Polyurethane U cup seals provide a sure seal and long life
- Solid one-piece alloy steel body
- One-piece aluminium alloy bearing protects against cylinder wall damage
- Dust cap is standard on all cylinders



Maximum Working Pressure:
700 bar

Cylinders



5 Ton General Purpose, Single Acting

0481	Stroke mm	Min Height mm	Max Height mm
H0503	78	169	247
H0505	129	221	350
H0507	180	272	452
H0509	229	324	552

Tech Sheet 60403



15 Ton General Purpose, Single Acting

0481	Stroke mm	Min Height mm	Max Height mm
H1501	25	124	149
H1502	51	149	200
H1504	101	200	301
H1506	152	270	422
H1508	203	321	524
H1510	245	372	626
H1512	305	423	728
H1514	356	474	830

Tech Sheet 60403



55 Ton General Purpose, Single Acting

0481	Stroke mm	Min Height mm	Max Height mm
H5502	51	176	227
H5504	103	227	330
H5506	159	283	442
H5510	260	385	645
H5513	337	461	798

Tech Sheet 60403



10 Ton General Purpose, Single Acting

0481	Stroke mm	Min Height mm	Max Height mm
H1001	25	92	117
H1002	51	123	174
H1004	102	174	276
H1006	151	250	401
H1008	202	301	503
H1010	253	352	605
H1012	304	403	707
H1014	356	450	806

Tech Sheet 60403



25 Ton General Purpose, Single Acting

0481	Stroke mm	Min Height mm	Max Height mm
H2501	26	143	169
H2502	51	168	219
H2504	102	219	321
H2506	155	272	427
H2508	206	323	529
H2510	257	374	631
H2512	310	426	736
H2514	362	476	838

Tech Sheet 60403

Maximum Working Pressure:
700 bar

Pumps

- Metal reservoirs resist cracking
- Built-in bypass device protects the hydraulic system from over-pumping damage (US Patent No. 5,946,912)
- Compact yet powerful air turbo motor (US Patent No. 5,341,723)
- Suggested air inlet range: 110-175 psi (7.6-12.1 bar)



Air Pump, Single Acting

0481	Thread	Oil Capacity Litres	Material
PA1500	3/8"	346.4	Aluminium
Tech Sheet 60403			

- Portable, lightweight and compact design
- Universal motor starts under full load
- 3m 24V AC pendant control for safety
- Weighs only 17kg with oil
- External pressure adjustment is available
- Designed for intermittent duty operation
- Gauge port on control valve



Universal Motor Pump

0481	Thread	LPM	HP	Voltage
PU20M4N01B	3/8"	0.46	1	110V AC
Tech Sheet 60406				

- Metal reservoirs resist cracking
- Internal pressure relief valve for overload protection
- Perfect for use with cylinders and hydraulic tools or OEM applications
- Two-speed pumps reduce user fatigue and increase productivity



Single Speed Hand Pump, Single Acting

0481	Thread	Oil Capacity cm ³	Material
P601S	3/8"	600	Steel
Tech Sheet 60403			



Two-speed Hand Pumps, Single Acting

0481	Thread	Oil Capacity cm ³	Material
P350	3/8"	350	Aluminium
P1000	3/8"	1000	Aluminium
Tech Sheet 60403			



Hand Pump, Double Acting

0481	Thread	Oil Capacity cm ³	Material
P2301M	3/8"	2200	Steel
Tech Sheet 60403			



- Stackable magnetic adaptors, various heights
- Eliminates dangerous cribbing

- Convenient carrying case
- US Patent No. 7,237,762 B2



Maximum Working Pressure:
700 bar

Cylinder Kits

Adaptor sizes: 4, 11, 23 and 30mm.



5 Ton Flat Body Cylinder Kit, Single Acting

0481	Stroke mm	Min Height mm	Max Height mm
HF0503B	6	32	38
Tech Sheet 60405			

Adaptor sizes: 10, 20 and 40mm.



20 Ton Flat Body Cylinder Kit, Single Acting

0481	Stroke mm	Min Height mm	Max Height mm
HF2005B	11	51	62
Tech Sheet 60405			

Adaptor sizes: 10, 20 and 40mm.



50 Ton Flat Body Cylinder Kit, Single Acting

0481	Stroke mm	Min Height mm	Max Height mm
HF5006B	16	67	83
Tech Sheet 60405			

Adaptor sizes: 10, 20 and 40mm.



10 Ton Flat Body Cylinder Kit, Single Acting

0481	Stroke mm	Min Height mm	Max Height mm
HF1005B	11	43	54
Tech Sheet 60405			

Adaptor sizes: 10, 20 and 40mm.



30 Ton Flat Body Cylinder Kit, Single Acting

0481	Stroke mm	Min Height mm	Max Height mm
HF3005B	13	59	72
Tech Sheet 60405			

- Compact design for use in small spaces
- Ideal for pushing applications
- Plunger wiper helps seal out dirt and contamination
- Return spring ensures a quick retraction and extends the life of the spring
- Industrial hard chrome-plated plunger helps prevent scratching and corrosion
- Includes stackable 1", 2" and 3" aluminium adaptors that conveniently snap into the base of the plunger
- Includes high flow CH38F coupler and dust cap
- Convenient storage case
- Bolt-on tilt saddles available



10 Ton Low Profile Cylinder Kit

0481	Stroke mm	Min Height mm	Max Height mm
HL-1001-D	38	88	126
Tech Sheet 60404			



Accessories

- Rubber bend restrictors
- High working pressure
- Optimum flexibility
- Lightweight

Working Temperature:
-40°C to +100°C

Maximum Working Pressure:
700 bar



Hose Assembly, Male NPT

0481	Thread	Length Metres
CS3814-1	3/8"	1
CS3814-2	3/8"	2
CS3814-3	3/8"	3
CS3814-4	3/8"	4
CS3814-6	3/8"	6

Tech Sheet 60403



High Flow Quick Release Coupling, NPT

0481	Thread
CH38	3/8"

Tech Sheet 60403

Bottle Jacks

- Easily adjustable extension screw (2-20 tons)
- Removable rubber carrying ring for easy storage of pump handle (2-20 tons)
- Safety valve against over-loading
- Supplied with a carry grip (8 tons and over)



Manual

0481	Stroke mm	Min Height mm	Max Height mm
1412000	228	241	469
1420000	226	249	475
1430000	212	268	480
10500	178	305	483
10990	156	305	461

Tech Sheet 60403

Toe Jacks

- Low height
- Heat-treated and chrome-plated medium carbon steel cylinder
- Chrome-plated plunger improves seal life and optimises performance
- By-pass device protects hydraulic system from over-travel damage (US Patented)
- Hydraulic system is protected from internal damage by a patented by-pass mechanism (US Patent No. 5946912)

Maximum Working Pressure:
700 bar



Manual

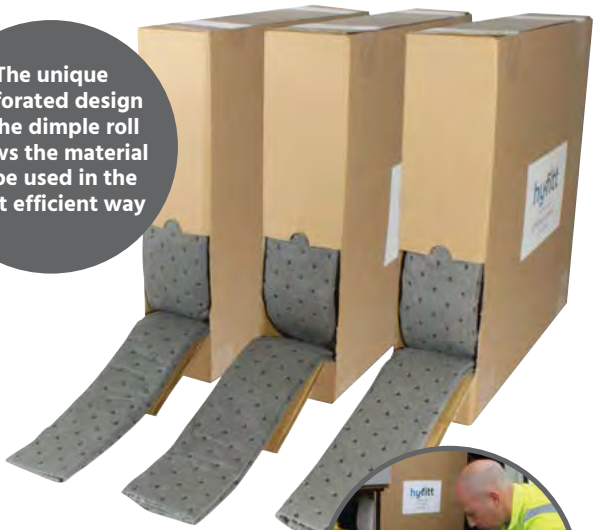
0481	Stroke mm	Min Height mm	Max Height mm
J13060	130	15	147
J13120	130	23	152
J13200	130	28	160
J13300	130	28	168

Tech Sheet 68802



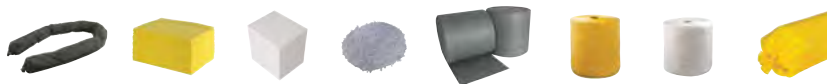
The unique perforated design of the dimple roll allows the material to be used in the most efficient way

Spill Absorbents... Perforated for High absorbency



All 18m dimple rolls supplied in convenient dispenser box
Great space saver

Hy-fitt Spill Absorbents are a superior range of spill solutions designed for ultimate versatility and economical usage



Spill Kits available in reusable carry bags
Includes barrier tape, gloves and safety goggles



Standard
For larger spills



Folded as a boom
For increased absorbency



Tear-off pieces
Use only what you need





Oil Only Heavy-duty Spill Pads

Oil only absorbents are best used outdoors to recover oil-based spills such as petroleum, diesel and solvents.



100 Pads Per Pack

0365	Size	Absorbency Per Pack
HDOP-100	40cm x 50cm	108 Litres

Oil Only Spill Dimple Pads

Oil only absorbents are best used outdoors to recover oil-based spills such as petroleum, diesel and solvents.



200 Pads Per Pack

0365	Size	Absorbency Per Pack
SOP-200	40cm x 50cm	128 Litres

Oil Spill Perforated Dimple Rolls

Oil only absorbents are best used outdoors to recover oil-based spills such as petroleum, diesel and solvents.



2 x 40 Metre Rolls Per Pack

0365	Size	Absorbency Per Pack
OR-2-40	40cm x 40m	113 Litres

Oil Only Folded Perforated Dimple Rolls

Oil only absorbents are best used outdoors to recover oil-based spills such as petroleum, diesel and solvents.



18 Metre Rolls Per Pack

0365	Size	Absorbency Per Pack	Contents
FOR-3-18	11cm x 18m	105 Litres	3
FOR-1-18	11cm x 18m	35 Litres	1

Oil Only Spill Socks

Oil only absorbents are best used outdoors to recover oil-based spills such as petroleum, diesel and solvents.



12 Socks Per Pack

0365	Size	Absorbency Per Pack
SOS-12	7.6cm x 120cm	51 Litres

General Purpose Spill Dimple Pads

As a general rule of thumb, if the spill happens indoors use a general purpose product to absorb both oil and water-based substances.



200 Pads Per Pack

0365	Size	Absorbency Per Pack
SGP-200	40cm x 50cm	128 Litres

General Purpose Spill Perforated Dimple Rolls

As a general rule of thumb, if the spill happens indoors use a general purpose product to absorb both oil and water-based substances.



2 x 40 Metre Rolls Per Pack

0365	Size	Absorbency Per Pack
SGR-2-40	40cm x 40m	153 Litres

General Purpose Spill Folded Perforated Dimple Rolls

As a general rule of thumb, if the spill happens indoors use a general purpose product to absorb both oil and water-based substances.



18 Metre Rolls Per Pack

0365	Size	Absorbency Per Pack	Contents
FGR-3-18	11cm x 18m	105 Litres	3
FGR-1-18	11cm x 18m	35 Litres	1

General Purpose Spill Socks

As a general rule of thumb, if the spill happens indoors use a general purpose product to absorb both oil and water-based substances.



12 Socks Per Pack

0365	Size	Absorbency Per Pack
SGS-12	7.6cm x 120cm	35 Litres





Chemical Spill Pads

- Suitable for toxic, flammable, corrosive and aggressive liquids
- Fire retardant as per ASTM 726
- Low slip base layer, great for foot traffic



100 Pads Per Pack

0365	Size	Absorbency Per Pack
COP-100	40cm x 50cm	78 Litres
	Tech Sheet 67960	

Chemical Spill Perforated Dimple Rolls

- Suitable for toxic, flammable, corrosive and aggressive liquids
- Fire retardant as per ASTM 726
- Low slip base layer, great for foot traffic



2 x 40 Metre Rolls Per Pack

0365	Size	Absorbency Per Pack
CSR-2-40	40cm x 40m	114 Litres

Chemical Spill Socks

- Suitable for small hazardous, toxic or unknown based spills
- Absorbs both oil and water based fluids
- Once saturated, will not become slippery



12 Socks Per Pack

0365	Size	Absorbency Per Pack
CSS-12	8cm x 120cm	39.6 Litres
	Tech Sheet 67961	

Loose Absorbents



16kg Bag

0751
CG16



SPILL ABSORBENTS & SPILL PREVENTION



Shoulder Bag Spill Kit

Kit includes:

- 1 x reusable carry bag.
- 50 metres of barrier tape.
- 2 x cable ties.
- 2 x disposal sacks.
- 2 x pairs of disposable Dura-Touch gloves.
- 1 x vented safety goggles.
- 55 x oil only dimple pads.
- 6 x 1.2 metre oil only socks.



Oil Only

0365	Absorbency Per Pack
SOK-50	50 Litres

Kit includes:

- 1 x reusable carry bag.
- 50 metres of barrier tape.
- 2 x cable ties.
- 2 x disposal sacks.
- 2 x pairs of disposable Dura-Touch gloves.
- 1 x vented safety goggles.
- 55 x general purpose dimple pads.
- 6 x 1.2 metre general purpose socks.



General Purpose

0365	Absorbency Per Pack
SGK-50	50 Litres

Carry Bag Spill Kit

Kit includes:

- 1 x reusable carry bag.
- 50 metres of barrier tape.
- 2 x cable ties.
- 2 x disposal sacks.
- 2 x pairs of disposable Dura-Touch gloves.
- 1 x vented safety goggles.
- 30 x oil only dimple pads.
- 4 x 1.2 metre oil only socks.



Oil Only

0365	Absorbency Per Pack
SOK-30	30 Litres

Kit includes:

- 1 x reusable carry bag.
- 50 metres of barrier tape.
- 2 x cable ties.
- 2 x disposal sacks.
- 2 x pairs of disposable Dura-Touch gloves.
- 1 x vented safety goggles.
- 30 x general purpose dimple pads.
- 4 x 1.2 metre general purpose socks.



General Purpose

0365	Absorbency Per Pack
SGK-30	30 Litres

Refill Kit

Kit includes:

- 50 metres of barrier tape.
- 2 x cable ties.
- 2 x disposal sacks.
- 2 x pairs of disposable Dura-Touch gloves.
- 1 x vented safety goggles.
- 55 x oil only dimple pads.
- 6 x 1.2 metre oil only socks.



Oil Only

0365	Absorbency Per Pack
SOK-50-REFILL	50 Litres

Kit includes:

- 50 metres of barrier tape.
- 2 x cable ties.
- 2 x disposal sacks.
- 2 x pairs of disposable Dura-Touch gloves.
- 1 x vented safety goggles.
- 55 x general purpose dimple pads.
- 6 x 1.2 metre general purpose socks.



General Purpose

0365	Absorbency Per Pack
SGK-50-REFILL	50 Litres

Kit includes:

- 50 metres of barrier tape.
- 2 x cable ties.
- 2 x disposal sacks.
- 2 x pairs of disposable Dura-Touch gloves.
- 1 x vented safety goggles.
- 30 x oil only dimple pads.
- 4 x 1.2 metre oil only socks.



Oil Only

0365	Absorbency Per Pack
SOK-30-REFILL	30 Litres

Kit includes:

- 50 metres of barrier tape.
- 2 x cable ties.
- 2 x disposal sacks.
- 2 x pairs of disposable Dura-Touch gloves.
- 1 x vented safety goggles.
- 30 x general purpose dimple pads.
- 4 x 1.2 metre general purpose socks.



General Purpose

0365	Absorbency Per Pack
SGK-30-REFILL	30 Litres

Trays

Made from 100% polyethylene, these spill trays come with a removable grid and are ideal for ensuring drips and spills are contained correctly.

Applications: Truck and machinery leaks, machine part cleaning, ink solvent storage, battery storage and chemical dosing points.



Bunded Spill Trays

0480	Capacity Litres	Weight Kg	Height mm	Length mm	Width mm	Max Working Load Kg
ST20	22	3.5	175	595	395	55
ST30	31	4.5	170	805	405	55
ST40	43	7	170	800	605	105
ST60	63	10	200	1000	605	205
ST100	104	14	185	1195	795	205

Tech Sheet 67968

Drain Cover

An integral part of any spill response plan, drain covers go hand in hand with spill response kits. They can also be used proactively, to seal off drains prior to deliveries or refuelling taking place, to ensure leaks and spills are kept out of the drainage system.



Magnetic Drain Cover

0480	Height mm	Length mm	Thickness mm
MDC03	600	600	0.9

Tech Sheet 67970

Drum Spill Containment

Manufactured from medium density polyethylene, these pallets comply with the guidelines issued by environment agencies. They are robust, resistant to most chemicals and come with a removable grid.



Bunded Drum Pallets

0480	Capacity Litres	Weight Kg	Height mm	Length mm	Width mm	Max Working Load Kg
BP2-205	240	24	330	1220	820	650
BP4-205	410	40	370	1310	1310	1250

Tech Sheet 67969

Absorbent Dispensing Stations

Ideal for day-to-day housekeeping or responding to minor spills, these polyethylene cabinets are specifically designed for dispensing absorbents.

Accepts rolls up to 550mm diameter x 520mm wide.

Weight: 20kg.

Absorbents not included.



Open Front Absorbent Centre, Polyethylene

0480	Size
POLY-STATION	64cm x 58cm x 118cm

Floor standing with single roll holder and workstation cabinet. Welded together to provide a safe and secure fixing.

Weight: 29kg.

Absorbents not included.



Combined Absorbent Centre, Steel

0480	Size
WSHOP-STATION	66cm x 42cm x 150.5cm

Twin wall mounted absorbent roll holders.

Weight: 10.5kg.

Absorbents not included.



Wall Mountable Twin Roll Holder, Steel

0480	Size
WALL-STATION	66cm x 42cm x 89cm



ISO 32 Hydraulic Oil

Quality mineral hydraulic oil with good anti-wear performance, oxidation resistance, corrosion protection, low pour, air release and anti-foam properties.

Conforms to DIN 51524 11.



25 Litre Drum

0026	Volume Litres
2020-0333	25
	Tech Sheet 544

ISO 46 Hydraulic Oil

Hydraulic oil 46 is blended to ISO 46 viscosity grade requirements and is suitable for use in a wide range of mobile and static hydraulic equipment.

Benefits include: Excellent anti-wear, anti-corrosion, anti-rust performance, low air retention/air entrainment, low foaming and good thermal stability and resistance to oxidation.

Conforms to DIN 51524, Part 2 (HLP).



25 Litre Drum

0026	Volume Litres
ISO 46	25
	Tech Sheet 10318

10W Hydraulic Oil

Hydraulic Oil 10W is a high performance hydraulic oil formulated from solvent refined paraffinic base oils and high performance additives designed to meet a wide range of heavy-duty hydraulic equipment requirements.

Benefits include: Good deposit control, good anti-sludge and varnish resistance, excellent anti-wear and corrosion protection.

Oxidation stability, dispersant/detergent properties and wide temperature range. High viscosity index promotes high oil pressure.

Conforms to API: SF/CD and MIL-L-2104C.



25 Litre Drum

0026	Volume Litres
10W OIL	25
	Tech Sheet 3147

ATF Dexron II

ATF Dexron II is a high performance multi-application fluid. The high viscosity index and low pour point makes this product ideal for use in hydraulic systems and power steering. Conforms to GM Dexron II D and GM 6137-M.



25 Litre Drum

0026	Volume Litres
ATF II	25
	Tech Sheet 3148



TECHNICAL INFORMATION

How to identify BSPP & BSPT threads

British Standard Pipe (BSP) is a family of technical standards for threads that has been adopted internationally for interconnecting hoses and fittings by mating an external (male) thread with an internal (female) thread. British Standard Pipe threads are similar in function to NPT threads, but are generally not interchangeable.

There are two types of BSP threads:

- British Standard Pipe Taper (BSPT)
- British Standard Pipe Parallel (BSPP)

BSPT Pipe Threads can be combined into two types of joints:

- 1. Jointing Threads:** These are pipe threads where pressure-tightness is made through the mating of two threads together. They always use a taper male thread but can have either parallel or taper female threads. (International standards require all female threads to be parallel.)
- 2. Long Screw threads:** These are parallel pipe threads used where a pressure-tight joint is achieved by the compression of a soft material (such as an o-ring seal or a washer) between the end face of the male thread and a socket or nipple face, with the tightening of a back nut.

BSPT & BSPP Size & Pitch	Dash Size	BSPT Male Thread OD		BSPP Male Thread OD		BSPT Female Thread ID		BSPP Female Thread ID	
		mm	inch	mm	inch	mm	inch	mm	inch
1/8 – 28	-02	9,5	0.37	9,6	0.38	8,4	0.33	8,6	0.34
1/4 – 19	-04	12,8	0.50	13,0	0.51	11,2	0.44	11,9	0.47
3/8 – 19	-06	16,3	0.64	16,5	0.65	14,7	0.59	15,2	0.60
1/2 – 14	-08	20,4	0.80	20,8	0.82	18,3	0.72	19,1	0.75
5/8 – 14	-10	22,5	0.89	22,8	0.90	20,6	0.81	20,8	0.82
3/4 – 14	-12	25,9	1.02	26,3	1.04	23,9	0.94	24,6	0.97
1 – 11	-16	32,6	1.28	33,1	1.30	29,7	1.17	30,7	1.21
1.1/4 – 11	-20	41,1	1.62	41,8	1.64	38,6	1.52	39,4	1.55
1.1/2 – 11	-24	47,0	1.85	47,7	1.88	44,5	1.75	45,5	1.79
2 – 11	-32	58,6	2.31	59,5	2.34	56,4	2.22	57,4	2.26
2.1/2 – 11	-40	74,1	2.92	75,1	2.95	71,9	2.83	72,6	2.86
3 – 11	-48	86,6	3.41	87,9	3.46	84,6	3.33	85,4	3.36

Thread size refers to the nominal bore of the pipe. Subtract approx. 1/4" (6mm) from thread diameter measurement for nominal pipe size.

Pitch is Threads Per Inch (TPI). "Gas", "R" & "G" also refer to BSP. "Male Iron (Pipe)" may be BSP or NPT.

How to identify NPT & NPTS threads

National Pipe Thread (NPT) is a family of technical standards for threads that has been adopted internationally for interconnecting hoses and fittings by mating an external (male) thread with an internal (female) thread.

National Pipe Threads are similar in function to BSP threads, but are not generally interchangeable. They include both tapered and straight thread series for various purposes including rigidity, pressure-tight sealing, or both. The various types include NPT, NPS, NPTF and NPSM.

NPT Thread Size & Pitch	Dash Size	Male Thread Minor OD		Female Thread ID		NPSM Thread Size	Dash Size	Female Thread ID	
		mm	inch	mm	inch			mm	inch
1/8 – 27	-02	9,9	0.39	8,4	0.33	1/8 – 27	-02	8,6	0.34
1/4 – 18	-04	13,2	0.52	11,2	0.44	1/4 – 18	-04	11,9	0.47
3/8 – 18	-06	16,6	0.65	14,7	0.58	3/8 – 18	-06	15,0	0.59
1/2 – 14	-08	20,6	0.81	17,8	0.70	1/2 – 14	-08	19,1	0.75
3/4 – 14	-12	26,0	1.02	23,4	0.92	3/4 – 14	-12	24,6	0.97
1 – 11.1/2	-16	32,5	1.28	29,5	1.16	1 – 11.1/2	-16	30,5	1.20
1.1/4 – 11.1/2	-20	41,2	1.62	38,1	1.50	1.1/4 – 11.1/2	-20	39,4	1.55
1.1/2 – 11.1/2	-24	47,3	1.86	43,9	1.73	1.1/2 – 11.1/2	-24	45,5	1.79
2 – 11.1/2	-32	59,3	2.33	56,4	2.22	2 – 11.1/2	-32	57,4	2.26
2.1/2 – 8	-40	71,5	2.82	69,1	2.72	2.1/2 – 8	-40	68,8	2.71
3 – 8	-48	87,3	3.44	84,8	3.34	3 – 8	-48	84,6	3.33
3 – 11	-48	86,6	3.41	87,9	3.46	3 – 11	-48	87,9	3.46

Thread size refers to the nominal bore of the pipe.

Subtract approximately 1/4" (6 mm) from thread measurement for nominal pipe size.

Pitch is Threads Per Inch (TPI).

How to Identify JIC & UNO threads

JIC stands for Joint Industries Council and is also known as Whitworth 55° thread form.

UN stands for Unified National or SAE J1926, ISO 11926-2

JIC Thread is normally used for flared pipework and is very common on mobile machines and American machines due to its metal to metal sealing capabilities. The male fitting have a 37° external flare which seals against a convex flare of 37° of the steel tubing or hose fitting.

UN Thread is normally found in manifolds where the fitting has a recess for a rubber O-Ring seal. This option is mainly on mobile machines and American equipment. The UNO threads have a flat bottom and a collar on the Hex to allow for an O-Ring seal to be fitted in place to stop leaks.

Male Thread OD & Pitch	Dash Size	Male Thread OD		Female Thread ID		Tube Size
		mm	inch	mm	inch	
5/16 – 24 UNF	-05	7,9	0.31	6,9	0.27	1/8
3/8 – 24 UNF	-06	9,5	0.38	8,5	0.33	3/16
7/16 – 20 UNF	-07	11,1	0.44	9,9	0.39	1/4
1/2 – 20 UNF	-08	12,7	0.50	11,4	0.45	5/16
9/16 – 18 UNF	-09	14,3	0.56	13,0	0.51	3/8
3/4 – 16 UNF	-12	19,1	0.75	17,5	0.69	1/2
7/8 – 14 UNF	-14	22,2	0.88	20,3	0.80	5/8
1.1/16 – 12 UN	-17	27,0	1.06	24,9	0.98	3/4
1.3/16 – 12 UN	-19	30,2	1.19	28,2	1.11	7/8
1.5/16 – 12 UN	-21	33,3	1.31	31,2	1.23	1
1.5/8 – 12 UN	-26	41,3	1.63	39,1	1.54	1.1/4
1.7/8 – 12 UN	-30	47,6	1.88	45,5	1.79	1.1/2
2.1/2 – 12 UN	-40	63,5	2.50	61,5	2.42	2

Thread size is actual measurement of male thread and pitch is Threads Per Inch (TPI).

Code	Page	Code	Page	Code	Page	Code	Page	Code	Page	Code	Page
0											
01100A-00	210	1-970-02-04-140	147	1010-1046	183	10692	163	1253-3013	201		
01C00A-00	210	1-970-04-04-010	147	1010-1047	183	10696	163	1253-3017	201		
02-102532	170	1-970-04-04-040	147	1010-1050	187	10727	164	1253-3021	201		
02-102533	170	1-970-04-04-060	147	1010-1051	187	10731	163	12650	163		
02-102534	170	1-970-04-04-080	147	1010-1052	187	10732	164	12651	163		
02-102535	170	1-970-04-04-090	147	1010-1053	187	10750	164	12652	163		
02-102552	170	1-970-04-04-100	147	1010-1054	186	10763	163	12785	163		
02-102553	170	1-970-04-04-110	147	1010-1055	186	10810	163	12826	163		
02-102554	170	1-970-04-04-120	147	1010-1056	186	10940	163	12827	163		
02-102555	170	1-970-04-04-130	147	1010-1057	187	10958	210	12845	163		
02-102572	170	1-970-04-04-140	147	1010-1058	183	10959	210	12847	163		
02-102574	170	1-970-04-25-090	147	1010-1059	183	10960	210	12967	163		
02-102575	170	1-970-04-25-100	147	1010-1060	184	10961	210	12G-10J-MF-10K	135		
02-137109-CR	169	1-970-04-25-110	147	1010-1061	184	10962	210	12G-10J-MM-10K	134		
02-137110-CR	169	1-980-48-60-040	147	1010-1062	184	10968	163	12G-12G-FF-10K	136		
02-137113-CR	169	1-ORING	157	1010-1063	185	10990	295	12G-12G-MF-A-10K	135		
02-137117-CR	169	1-Z06-22-11-600	146	1010-1064	185	10991	164	12G-12G-MM-10K	134		
02-137124-CR	169	1-Z06-23-11-600	146	1010-1065	186	10996	163	12G-12J-MF-10K	135		
02-137126-CR	169	1-Z06-24-11-600	146	1010-1066	186	10J-10J-MM-10K	134	12G-12J-MM-10K	134		
02-137129-CR	169	1-Z06-28-11-600	146	1010-1067	186	10J-12J-MM-10K	134	12G-12N-MM-10K	134		
02-137132-CR	169	1-Z06-29-11-600	146	1010-1068	186	10J-16J-MM-10K	134	12G-16G-MF-A-10K	135		
02-137140-CR	169	1-Z06-30-11-600	146	1010-1069	185	10J-8J-MF-10K	135	12G-16G-MM-10K	134		
02-137144-CR	169	1-Z06-39-30-600	146	1010-1070	186	10J-8N-MF-A-10K	135	12G-16J-MF-10K	135		
02-137146-CR	169	1-Z06-40-30-600	146	1010-1071	185	10J-C-10K	138	12G-16J-MM-10K	134		
02-137560	170	1-Z06-43-00-600	146	1010-1072	185	10J-E-MF-1 0K	137	12G-16N-MM-10K	134		
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02-137562	170	1-Z08-00-10-600	146	10114	164	10J-T-MM-10K	137	12G-4G-MF-B-10K	136		
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AS-25S	47	BF-15	65	BKH-1	200	BS-112	159	BVHC24-24RP	250

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5	C		CTP-PT-03	188	DFS404SU-A38	157	DP-B3-SS	81	EC120-3875-3	213
	C-10	64	CTP-PT-05	188	DFS405SM	157	DP-B4	81	EC140-1425-4	213
6	C-1000	59	CW1	160	DFS405SM-A50	157	DP-B4-SS	81	EC140-3875-4	213
	C-12	64	CW112	160	DFS405SU	157	DP-B5	81	EC160-1425-5	213
7	C-125-FT	59	CW114	160	DFS405SU-A50	157	DP-B5-SS	81	EC160-3875-5	213
	C-14	64	CW12	160	DFS406SM	157	DP-C1	84	ECA12-01-L-N	209
	C-15	64	CW14	160	DFS406SU	157	DP-C1-SS	84	ECA20-01-L-N	209
8	C-16	64	CW18	160	DFT980	261	DP-C2	84	ECA32-01-L-N	209
	C-18	64	CW2	160	DGWEV10LR3/8WD	16	DP-C2-SS	84	EE-206/406	74
9	C-187	59	CW34	160	DGWEV10LRWD	16	DP-C3	84	EE-208/408	74
	C-20	64	CW38	160	DGWEV10SRWD	16	DP-C3-SS	84	EE-210/410	74
	C-22	64	CWM10	160	DGWEV12LR1/2WD	16	DP-C4	84	EE-212.7/412.7	74
A	C-25	64	CWM12	160	DGWEV12LRWD	16	DP-C4-SS	84	EE-212/412	74
	C-250	59	CWM14	160	DGWEV12SRWD	16	DP-C5	84	EE-214/414	74
B	C-3	64	CWM16	160	DGWEV15LRWD	16	DP-C5-SS	84	EE-215/415	74
	C-312	59	CWM18	160	DGWEV16SRWD	16	DP-C6	84	EE-216/416	74
	C-375	59	CWM22	160	DGWEV18LRWD	16	DP-C6-SS	84	EE-217.2/417.2	74
C	C-4	64	CWM8	160	DGWEV20SRWD	16	DP-C7	84	EE-218/418	74
	C-500	59	D		DGWEV22LRWD	16	DP-C7-SS	84	EE-219/419	74
D	C-6	64	D11X-1/2	160	DGWEV25SRWD	16	DP-C8-SS	84	EE-320/620	74
	C-625	59	D11X-1/4	160	DGWEV28LRWD	16	DPD-C1	84	EE-321.3/621.3	74
	C-750	59	D11X-1/8	160	DGWEV30SRWD	16	DPD-C2	84	EE-322/622	74
E	C-8	64	D11X-3/4	160	DGWEV35LRWD	16	DPD-C3	84	EE-323/623	74
	C-875	59	D11X-3/8	160	DGWEV38SRWD	16	DPD-C4	84	EE-325/625	74
F	CAT-KIT01	162	D11X-5M	160	DGWEV42LRWD	16	DPD-C5	84	EE-326.9/626.9	74
	CBP-03	188	D11X-6M	160	DGWEV6LR1/4WD	16	DPOCV04	203	EE-328/628	74
G	CBP-05	188	D1VW001CNJW	189	DGWEV6LRWD	16	DPOCV06	203	EE-330/630	74
	CCOP-PA-03	188	D3VW008CNJW	189	DGWEV6SRWD	16	DPOCV08	203	EE-332/632	74
	CCOP-PA-05	188	DASV06	203	DGWEV8LRWD	16	DPR-10L	50	EE-432	74
H	CCOP-PB-03	188	DASV08	203	DGWEV8SRWD	16	DPR-10S	50	EE-433.7	74
	CCOP-PB-05	188	DASV12	203	DGWW10L	16	DPR-12L	50	EE-435	74
I	CFD0610	205	DB-1000	269	DGWW10S	16	DPR-12S	50	EE-438	74
	CFD0620	205	DB-1500	269	DGWW12L	16	DPR-14S	50	EE-440	74
	CFD063	205	DB-2400	269	DGWW14S	16	DPR-15L	50	EE-442	74
J	CFD0632	205	DCRV012/180	203	DGWW16S	16	DPR-16S	50	EE-445	74
	CFD066	205	DCRV04/180	203	DGWW18L	16	DPR-18L	50	EE-448	74
	CFD0840	205	DCRV06/180	203	DGWW20S	16	DPR-20S	50	EE-451	74
K	CFD0860	205	DCRV08/180	203	DGWW22L	16	DPR-22L	50	EE-453.4	74
	CFD0880	205	DF900	260	DGWW25S	16	DPR-25S	50	EE-456.4	74
L	CFVC04	205	DFS080SM	157	DGWW28L	16	DPR-28L	50	EE25-12	86
	CFVC06	205	DFS080SM-038	157	DGWW30S	16	DPR-30S	50	EE25-15	86
	CFVC08	205	DFS080SM-A20	157	DGWW35L	16	DPR-35L	50	EE30-20	86
M	CG16	298	DFS080SU	157	DGWW38S	16	DPR-38S	50	EE35-25	86
	CH38	295	DFS080SU-038	157	DGWW42L	16	DPR-42L	50	EE42-30	86
N	CM3-1G	188	DFS080SU-A20	157	DGWW6L	16	DPR-6L	50	EFA-410/210	74
	CM3-1G-ADJ	188	DFS100SM	157	DGWW6S	16	DPR-6S	50	EFA-422	74
	CM3-1G/ALU	188	DFS100SM-A25	157	DGWW8L	16	DPR-8L	50	EFA-425	74
O	CM3-2G	188	DFS100SU	157	DGWW8S	16	DPR-8S	50	EFA-428	74
	CM3-2G-ADJ	188	DFS100SU-A25	157	DKR-12RG	50	DV306	204	EFA-430	74
	CM3-2G/ALU	188	DFS102SM	157	DKR-16RG	50	DV308	204	EFA-435	74
P	CM3-3G	188	DFS102SM-A30	157	DKR-20RG	50	DV312	204	EFA-510	74
	CM3-3G-ADJ	188	DFS102SU	157	DKR-24RG	50	DV406	204	EFA-512	74
Q	CM3-3G/ALU	188	DFS102SU-A30	157	DKR-28G	50	DV408	204	EFA-515	74
	CM3-4G	188	DFS104SM	157	DKR-48G	50	DV412	204	EFA-535	74
	CM3-4G-ADJ	188	DFS104SM-A38	157	DKR-68G	50	E		EFA-538	74
R	CM3-4G/ALU	188	DFS104SU	157	DKR-88G	50	E007-1515-013611	209	EFA-542	74
	CM3-5G	188	DFS104SU-A38	157	DKRI-48G	50	E016-1515-013611	209	EFA-548.3	74
S	CM3-5G-ADJ	188	DFS106SM	157	DKRI-88G	50	E032-1515-013611	209	EFA-560.3	74
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T	CM3-6G	188	DFS106SU	157	DKRR1/4MANOM.A3L	20	E075-1515-093611	209	EFA-612/312	74
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	CM5-3G	188	DFS112SU	157	DP-04	86	E20	32	EFA-625	74
W	CM5-3G-ADJ	188	DFS114SM	157	DP-A0	78	E200-1515-063411	209	EFA-628	74
	CM5-4G	188	DFS114SU	157	DP-A0-SS	78	E200-1515-063611	209	EFA-630	74
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	CM5-5G	188	DFS116SU	157	DP-A1-SS	78	E280-1515-032611	209	EFL0501	260
X	CM5-5G-ADJ	188	DFS401SM-012	157	DP-A2	78	E350-1515-092611	209	EFL1001	260
	CM5-6G	188	DFS401SM-038	157	DP-A2-SS	78	E4	32	EFL1501	260
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EFW1002	260	EHRVG-114-3CP	198	EME8REF-E2-0040	279	ERA31NFC	267	ETSD 20 S	24
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EGESD10LMWD	18	EHRVG-12-3CP	198	EME8REF-E2-0250	279	ERA32NFD	267	ETSD 28 L	24
EGESD10LRWD	18	EHRVG-12-5CP	198	EME8REF-E2-0400	279	ERA41NFC	267	ETSD 30 S	24
EGESD10S3/8NPT	18	EHRVG-14	198	EME8REF-E2-0700	279	ERA41NFD	267	ETSD 35 L	24
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EGESD12SMWD	18	EHRVG-38	198	EPB13NFC	265	ES4-L-10-WD	43	ETVD10L	19
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EGESD15LRWD	18	EHTVG3/8	198	EPB22NFB	266	ES4-L-42-WD	43	ETVD18L	19
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EGESD16SMWD	18	ELSD 10 S	24	EPB22NFD	266	ES4-S-08-WD	43	ETVD22L	19
EGESD16SRWD	18	ELSD 12 L	24	EPB31NFA	265	ES4-S-10-WD	43	ETVD25S	19
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EGESD18LMWD	18	ELSD 14 S	24	EPB31NFC	265	ES4-S-14-WD	43	ETVD30S	19
EGESD18LRWD	18	ELSD 15 L	24	EPB31NFD	265	ES4-S-16-WD	43	ETVD35L	19
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EGESD20SRWD	18	ELSD 20 S	24	EPB33NFC	265	ES4-S-30-WD	43	ETVD6L	19
EGESD22L3/4NPT	18	ELSD 22 L	24	EPB33NFD	265	ES4-S-38-WD	43	ETVD6S	19
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EGESD25SMWD	18	ELSD 35 L	24	EPB34NFD	265	ESE11NFD	267	EV-DKOL-08	43
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EGESD28LRWD	18	ELSD 6 S	24	EPF1105QIBPMG081	255	ESE12NFD	267	EV-DKOL-18	43
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EGESD30SRWD	18	ELVD10L	19	EPF2-34-20	255	ESE21NFC	267	EV-DKOL-35	43
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EGESD6LRWD	18	ELVD25S	19	EPF4-114-20	255	ESV-14S-FT	46	EVGE-12L-4EO	38
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EGESD6SMWD	18	ELVD30S	19	EPF4205QIBPMG201	255	ESV-16S-FT	46	EVGE-12L-8EO	38
EGESD6SRWD	18	ELVD35L	19	EPF4210QIBPMG201	255	ESV-18L-FT	46	EVGE-12S-18MEO	38
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EGESD8LMWD	18	ELVD42L	19	EPF5-112-20	255	ESV-20S-FT	46	EVGE-12S-6EO	38
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EHT13MS	69	EMASD12LR	20	EPFSK004	255	ESV10L	17	EVGE-16S-12EO	38
EHT15MS	69	EMASD12SR	20	EPG20NFA	266	ESV10S	17	EVGE-16S-22MEO	38
EHT16MS	69	EMASD6LR	20	EPG20NFB	266	ESV12L	17	EVGE-16S-6EO	38
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EHT20MS	69	EMASD8SR	20	EPG21NFA	266	ESV15L	17	EVGE-18L-22MEO	38
EHT24MS	69	EME8REF-C2-0020	279	EPG21NFB	266	ESV16S	17	EVGE-18L-6EO	38
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EHT4MS	69	EME8REF-C2-0060	279	EPG21NFD	266	ESV20S	17	EVGE-20S-12EO	38
EHT6MS	69	EME8REF-C2-0100	279	EPG22NFA	266	ESV22L	17	EVGE-20S-27MEO	38
EHT6MS	69	EME8REF-C2-0160	279	EPG22NFB	266	ESV25S	17	EVGE-20S-8EO	38
EHT7MS	69	EME8REF-C2-0250	279	EPG22NFC	266	ESV28L	17	EVGE-22L-12EO	38
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	GAI-12S-6N	37	GAV15LR	20	GE-12L-12EO	34	GE-15L-4EO	34	GE-22L-12RT	35
	GAI-12S-6RG	37	GAV16SM	20	GE-12L-12MEO	34	GE-15L-4N	36	GE-22L-15/16UNF	37
4	GAI-12S-8N	37	GAV16SR	20	GE-12L-12MPB	35	GE-15L-4RP	35	GE-22L-16EO	37
	GAI-12S-8RG	37	GAV18LM	20	GE-12L-12N	36	GE-15L-4RT	36	GE-22L-16N	36
5	GAI-14S-6RG	37	GAV18LR	20	GE-12L-12RP	35	GE-15L-6EO	34	GE-22L-16RP	35
	GAI-14S-8N	37	GAV20SM	20	GE-12L-12RT	36	GE-15L-6N	36	GE-22L-16RT	36
	GAI-14S-8RG	37	GAV20SR	20	GE-12L-14MEO	34	GE-15L-6RP	35	GE-22L-20EO	34
6	GAI-15L-12RG	37	GAV22LM	20	GE-12L-14MPB	35	GE-15L-6RT	36	GE-22L-20N	36
	GAI-15L-6RG	37	GAV22LR	20	GE-12L-16MEO	34	GE-15L-7/8UNF	37	GE-22L-20RP	35
7	GAI-15L-8N	37	GAV25SR	20	GE-12L-16MPB	35	GE-15L-8EO	34	GE-22L-22MEO	34
	GAI-15L-8RG	37	GAV28LR	20	GE-12L-18MEO	34	GE-15L-8N	36	GE-22L-22MPB	36
	GAI-16S-8N	37	GAV30SR	20	GE-12L-18MPB	35	GE-15L-8RP	35	GE-22L-26MEO	34
8	GAI-16S-6RG	37	GAV35LR	20	GE-12L-22MEO	34	GE-15L-8RT	36	GE-22L-26MPB	35
	GAI-16S-8N	37	GAV38SR	20	GE-12L-22MPB	35	GE-15L-9/16UNF	37	GE-22L-3/4UNF	37
	GAI-16S-8RG	37	GAV42LR	20	GE-12L-2EO	34	GE-16S-11/16UNF	37	GE-22L-6EO	34
	GAI-18L-12RG	37	GAV6LM	20	GE-12L-2N	36	GE-16S-12EO	34	GE-22L-6N	36
	GAI-18L-6RG	37	GAV6LR	20	GE-12L-2RP	35	GE-16S-12N	36	GE-22L-6RP	35
A	GAI-18L-8N	37	GAV6SM	20	GE-12L-2RT	36	GE-16S-12RP	35	GE-22L-6RT	36
	GAI-18L-8RG	37	GAV6SR	20	GE-12L-3/4UNF	37	GE-16S-12RT	36	GE-22L-7/8UNF	37
B	GAI-20S-12N	37	GAV8LM	20	GE-12L-4EO	34	GE-16S-16EO	34	GE-22L-8EO	34
	GAI-20S-12RG	37	GAV8LR	20	GE-12L-4N	36	GE-16S-16N	36	GE-22L-8N	36
	GAI-20S-8RG	37	GAV8SM	20	GE-12L-4RP	35	GE-16S-16RP	35	GE-22L-8RP	35
C	GAI-22L-12N	37	GAV8SR	20	GE-12L-4RT	36	GE-16S-18MEO	34	GE-22L-8RT	36
	GAI-22L-12RG	37	GDM2011-G	181	GE-12L-6EO	34	GE-16S-18MPB	35	GE-25S-11/16UNF	37
D	GAI-22L-8RG	37	GDM12011-GB1-B	181	GE-12L-6N	36	GE-16S-22MEO	34	GE-25S-12EO	34
	GAI-25S-12RG	37	GDM12011LED-120B	181	GE-12L-6RP	35	GE-16S-22MPB	35	GE-25S-12N	36
	GAI-25S-16N	37	GDM12011LED-230B	181	GE-12L-6RT	36	GE-16S-3/4UNF	37	GE-25S-12RP	35
E	GAI-25S-16RG	37	GDM12011LED-24-B	181	GE-12L-7/8UNF	37	GE-16S-4EO	34	GE-25S-12RT	36
	GAI-28L-16N	37	GDM12011LED-24HH	181	GE-12L-8EO	34	GE-16S-4RP	35	GE-25S-15/16UNF	37
F	GAI-28L-16RG	37	GDM12011LED-48HH	181	GE-12L-8N	36	GE-16S-6EO	34	GE-25S-16EO	34
	GAI-30S-20N	37	GE-10L-1/2UNF	37	GE-12L-8RP	35	GE-16S-6N	36	GE-25S-16N	36
	GAI-30S-20RG	37	GE-10L-10MEO	34	GE-12L-8RT	36	GE-16S-6RP	35	GE-25S-16RP	35
G	GAI-35L-20N	37	GE-10L-10MPB	35	GE-12L-9/16UNF	37	GE-16S-6RT	36	GE-25S-16RT	36
	GAI-35L-20RG	37	GE-10L-12EO	34	GE-12S-12EO	34	GE-16S-7/8UNF	37	GE-25S-20EO	34
	GAI-38S-24N	37	GE-10L-12MEO	34	GE-12S-12N	36	GE-16S-8EO	34	GE-25S-20N	36
H	GAI-38S-24RG	37	GE-10L-12MPB	35	GE-12S-12RP	35	GE-16S-8N	36	GE-25S-20RP	35
	GAI-42L-24N	37	GE-10L-12N	36	GE-12S-14MEO	34	GE-16S-8RP	35	GE-25S-33MEO	34
	GAI-42L-24RG	37	GE-10L-12RP	35	GE-12S-14MPB	35	GE-16S-8RT	36	GE-25S-33MPB	35
I	GAI-6L-2N	37	GE-10L-14MEO	34	GE-12S-16MEO	34	GE-18L-11/16UNF	37	GE-25S-8EO	34
	GAI-6L-2RG	37	GE-10L-14MPB	35	GE-12S-16MPB	35	GE-18L-12EO	34	GE-25S-8N	36
J	GAI-6L-4N	37	GE-10L-16MEO	34	GE-12S-18MEO	34	GE-18L-12N	36	GE-25S-8RP	35
	GAI-6L-4RG	37	GE-10L-16MPB	35	GE-12S-18MPB	35	GE-18L-12RP	35	GE-28L-11/16UNF	37
K	GAI-6L-6RG	37	GE-10L-18MEO	34	GE-12S-20MEO	34	GE-18L-12RT	36	GE-28L-12EO	34
	GAI-6L-8RG	37	GE-10L-18MPB	35	GE-12S-22MEO	34	GE-18L-16EO	34	GE-28L-12N	36
L	GAI-6S-4N	37	GE-10L-22MEO	34	GE-12S-22MPB	35	GE-18L-16N	36	GE-28L-12RP	36
	GAI-6S-4RG	37	GE-10L-22MPB	35	GE-12S-3/4UNF	37	GE-18L-16RP	35	GE-28L-12RT	35
	GAI-8L-2RG	37	GE-10L-2EO	34	GE-12S-4EO	34	GE-18L-18MEO	34	GE-28L-15/16UNF	37
M	GAI-8L-4N	37	GE-10L-2N	36	GE-12S-4N	36	GE-18L-18MPB	35	GE-28L-15/8UNF	37
	GAI-8L-4RG	37	GE-10L-2RP	35	GE-12S-4RP	35	GE-18L-22MEO	34	GE-28L-16EO	34
N	GAI-8L-6RG	37	GE-10L-2RT	36	GE-12S-4RT	36	GE-18L-22MPB	35	GE-28L-16N	36
	GAI-8L-8RG	37	GE-10L-3/4UNF	37	GE-12S-6EO	34	GE-18L-26MEO	34	GE-28L-16RP	35
	GAI-8S-4N	37	GE-10L-4EO	34	GE-12S-6N	36	GE-18L-26MPB	35	GE-28L-16RT	36
O	GAI-8S-4RG	37	GE-10L-4N	36	GE-12S-6RP	35	GE-18L-3/4UNF	37	GE-28L-20EO	34
	GAI-8S-6RG	37	GE-10L-4RP	35	GE-12S-6RT	36	GE-18L-6EO	34	GE-28L-20N	36
P	GAI-8S-8RG	37	GE-10L-4RT	36	GE-12S-7/8UNF	37	GE-18L-6N	36	GE-28L-20RP	35
	GAS 10 LR	23	GE-10L-6EO	34	GE-12S-8EO	34	GE-18L-6RP	35	GE-28L-20RT	36
Q	GAS 10 SR	23	GE-10L-6N	36	GE-12S-8N	36	GE-18L-6RT	36	GE-28L-24EO	34
	GAS 12 LR	23	GE-10L-6RP	35	GE-12S-8RP	35	GE-18L-7/8UNF	37	GE-28L-24RP	34
	GAS 12 LR 1/4	23	GE-10L-6RT	36	GE-12S-8RT	36	GE-18L-8EO	34	GE-28L-33MEO	35
R	GAS 12 SR	23	GE-10L-7/16UNF	37	GE-12S-9/16UNF	37	GE-18L-8N	36	GE-28L-33MPB	35
	GAS 14 SR	23	GE-10L-8EO	34	GE-14S-12EO	34	GE-18L-8RP	35	GE-28L-8EO	34
	GAS 15 LR	23	GE-10L-8N	36	GE-14S-12N	36	GE-18L-8RT	36	GE-28L-8N	36
S	GAS 16 SR	23	GE-10L-8RP	35	GE-14S-12RP	35	GE-20S-11/16UNF	37	GE-28L-8RP	35
	GAS 18 LR	23	GE-10L-8RT	36	GE-14S-20MEO	34	GE-20S-12EO	34	GE-28L-8RT	36
T	GAS 20 SR	23	GE-10L-9/16UNF	37	GE-14S-20MPB	35	GE-20S-12N	36	GE-30S-11/16UNF	37
	GAS 22 LR	23	GE-10S-12EO	34	GE-14S-22MEO	34	GE-20S-12RP	35	GE-30S-12EO	34
U	GAS 25 SR	23	GE-10S-12N	36	GE-14S-3/4UNF	37	GE-20S-12RT	36	GE-30S-12N	36
	GAS 28 LR	23	GE-10S-12RP	35	GE-14S-4RP	35	GE-20S-15/16UNF	37	GE-30S-12RP	35
V	GAS 30 SR	23	GE-10S-14MEO	34	GE-14S-6EO	34	GE-20S-16EO	34	GE-30S-15/16UNF	37
	GAS 35 LR	23	GE-10S-16MEO	34	GE-14S-6N	36	GE-20S-16N	36	GE-30S-15/8UNF	37
	GAS 38 SR	23	GE-10S-16MPB	35	GE-14S-6RP	35	GE-20S-16RP	35	GE-30S-16EO	34
W	GAS 42 LR	23	GE-10S-18MEO	34	GE-14S-6RT	36	GE-20S-20EO	34	GE-30S-16N	36
	GAS 6 LR	23	GE-10S-18MPB	35	GE-14S-8EO	34	GE-20S-20N	36	GE-30S-16RP	35
	GAS 6 SR	23	GE-10S-2EO	34	GE-14S-8N	36	GE-20S-20RP	35	GE-30S-20EO	34
X	GAS 8 LR	23	GE-10S-2N	36	GE-14S-8RP	35	GE-20S-27MEO	34	GE-30S-20N	36
	GAS 8 SR	23	GE-10S-2RP	35	GE-14S-8RT	36	GE-20S-27MPB	35	GE-30S-20RP	35
Y	GAV10LM	20	GE-10S-3/4UNF	37	GE-15L-12EO	34	GE-15L-3/4UNF	37	GE-30S-20RT	36
	GAV10LR	20	GE-10S-4EO	34	GE-15L-12N	36	GE-20S-6EO	34	GE-30S-24EO	34
	GAV10SM	20	GE-10S-4N	36	GE-15L-12RP	35	GE-20S-6N	36	GE-30S-24N	36
Z	GAV10SR	20	GE-10S-4RP	35	GE-15L-12RT	36	GE-20S-6RP	35	GE-30S-24RP	35
	GAV12LM	20	GE-10S-4RT	36	GE-15L-16EO	34	GE-20S-7/8UNF	37	GE-30S-42MEO	34

Code	Page	Code	Page	Code	Page	Code	Page	Code	Page
GE-30S-42MPB	35	GE-6S-6RP	35	GES 16 SR 3/4-WD	22	GEV10LM18X1.5	9	GEV16S3/4-16UNF	11
GE-35L-12EO	34	GE-6S-6RT	37	GES 16 SR 3/8	22	GEV10LM22X1.5	9	GEV16S7/8-14UNF	11
GE-35L-12RP	35	GE-6S-7/16UNF	36	GES 16 SR 3/8-WD	22	GEV10LMWVD	10	GEV16SM	9
GE-35L-15/16UNF	37	GE-6S-8EO	34	GES 16 SR-WD	22	GEV10LR	10	GEV16SM18X1.5	9
GE-35L-15/8UNF	37	GE-6S-8N	36	GES 18 LR	22	GEV10LR1/2	10	GEV16SMWVD	10
GE-35L-16EO	34	GE-6S-8RP	35	GES 18 LR-WD	22	GEV10LR1/2FOA	9	GEV16SR	10
GE-35L-16N	36	GE-8L-1/2UNF	37	GES 20 SR	22	GEV10LR1/2WD	10	GEV16SR3/4	10
GE-35L-16RP	35	GE-8L-10MEO	35	GES 20 SR 1/2	22	GEV10LR3/8	10	GEV16SR3/4FOA	9
GE-35L-16RT	36	GE-8L-10MPB	35	GES 20 SR-WD	22	GEV10LR3/8FOA	9	GEV16SR3/4WD	10
GE-35L-20EO	34	GE-8L-12MEO	34	GES 22 LR	22	GEV10LR3/8K	10	GEV16SR3/8	10
GE-35L-20N	36	GE-8L-12MPB	35	GES 22 LR 1/2	22	GEV10LR3/8WD	9	GEV16SR3/8FOA	9
GE-35L-20RP	35	GE-8L-14MEO	34	GES 22 LR-WD	22	GEV10LRFOA	9	GEV16SR3/8WD	10
GE-35L-20RT	36	GE-8L-14MPB	35	GES 25 SR	22	GEV10LRK	9	GEV16SRFOA	10
GE-35L-24EO	34	GE-8L-16MEO	34	GES 25 SR 3/4	22	GEV10LRWD	10	GEV16SRWVD	10
GE-35L-24N	36	GE-8L-16MPB	35	GES 25 SR 3/4-WD	22	GEV10SR1/4NPT	11	GEV18L1/2NPT	11
GE-35L-24RP	35	GE-8L-18MEO	35	GES 25 SR-WD	22	GEV10SR3/8NPT	11	GEV18L3/4-16UNF	11
GE-35L-24RT	36	GE-8L-18MPB	35	GES 28 LR	22	GEV10SR9/16-18UNF	11	GEV18L7/8-14UNF	11
GE-35L-42MEO	34	GE-8L-2EO	34	GES 28 LR 3/4	22	GEV10SRM	9	GEV18LM	9
GE-35L-42MPB	35	GE-8L-2N	36	GES 28 LR-WD	22	GEV10SRMVD	10	GEV18LM18X1.5	9
GE-38S-15/8UNF	37	GE-8L-2RP	35	GES 30 SR	22	GEV10SR	10	GEV18LM18X1.5WD	10
GE-38S-16EO	34	GE-8L-2RT	36	GES 30 SR-WD	22	GEV10SR1/2	10	GEV18LMWVD	10
GE-38S-16N	36	GE-8L-4EO	34	GES 35 LR	22	GEV10SR1/2WD	10	GEV18LR	10
GE-38S-16RP	35	GE-8L-4N	36	GES 35 LR-WD	22	GEV10SR1/4	10	GEV18LR3/4	10
GE-38S-17/8UNF	37	GE-8L-4RP	35	GES 38 SR	22	GEV10SR1/4FOA	9	GEV18LR3/4FOA	9
GE-38S-20EO	34	GE-8L-4RT	36	GES 38 SR 1.1/4	22	GEV10SR1/4WD	10	GEV18LR3/4WD	10
GE-38S-20N	36	GE-8L-6EO	34	GES 38 SR-WD	22	GEV10SRFOA	9	GEV18LR3/8	10
GE-38S-20RP	35	GE-8L-6N	36	GES 42 LR	22	GEV10SRWD	10	GEV18LRFOA	9
GE-38S-24EO	34	GE-8L-6RP	35	GES 42 LR-WD	22	GEV12L1/2NPT	11	GEV18LRWD	10
GE-38S-24N	36	GE-8L-6RT	36	GES 6 LR	22	GEV12L1/4NPT	11	GEV20S11/16-12UN	11
GE-38S-24RP	35	GE-8L-7/16UNF	37	GES 6 LR 1/4	22	GEV12L3/4-16UNF	11	GEV20S3/4-16UNF	11
GE-38S-24RT	36	GE-8L-8EO	34	GES 6 LR 1/4-WD	22	GEV12L3/8NPT	11	GEV20S7/8-14UNF	11
GE-38S-48MEO	34	GE-8L-8N	36	GES 6 LR-WD	22	GEV12L7/8-14UNF	11	GEV20SM	9
GE-38S-48MPB	35	GE-8L-8RP	35	GES 6 SR	22	GEV12L9/16-18UNF	11	GEV20SMWVD	10
GE-42L-15/8UNF	37	GE-8L-8RT	36	GES 6 SR-WD	22	GEV12LM	9	GEV20SR	10
GE-42L-16EO	34	GE-8L-9/16UNF	37	GES 8 LR	22	GEV12LM18X1.5	9	GEV20SR1	10
GE-42L-16N	36	GE-8S-1/2UNF	37	GES 8 LR 1/8	22	GEV12LM18X1.5WD	10	GEV20SR1/2	10
GE-42L-16RP	35	GE-8S-12MEO	35	GES 8 LR 1/8-WD	22	GEV12LM22X1.5	9	GEV20SR1/2FOA	9
GE-42L-17/8UNF	37	GE-8S-14MEO	34	GES 8 LR 3/8	22	GEV12LM22X1.5WD	10	GEV20SRFOA	9
GE-42L-20EO	34	GE-8S-14MPB	35	GES 8 LR 3/8-WD	22	GEV12LMWVD	10	GEV20SRWD	10
GE-42L-20N	36	GE-8S-16MEO	34	GES 8 LR-WD	22	GEV12LR	10	GEV22L11/16-12UN	11
GE-42L-20RP	35	GE-8S-2EO	34	GES 8 SR	22	GEV12LR1/2	10	GEV22L3/4NPT	11
GE-42L-20RT	36	GE-8S-2N	36	GES 8 SR 3/8	22	GEV12LR1/2FOA	9	GEV22L7/8-14UNF	11
GE-42L-24EO	34	GE-8S-2RP	35	GES 8 SR 3/8-WD	22	GEV12LR1/2WD	10	GEV22LM	9
GE-42L-24N	36	GE-8S-2RT	36	GES 8 SR-WD	22	GEV12LR1/4	10	GEV22LMWVD	10
GE-42L-24RP	35	GE-8S-4EO	34	GES10 LR 1/2FOA	22	GEV12LR1/4FOA	9	GEV22LR	10
GE-42L-24RT	36	GE-8S-4N	36	GES10 LR 3/8FOA	22	GEV12LR1/4K	9	GEV22LR1	10
GE-42L-32EO	34	GE-8S-4RP	35	GES10 LRFOA	22	GEV12LR1/4WD	10	GEV22LR1/2	10
GE-42L-48MEO	34	GE-8S-4RT	36	GES10 SR 1/4FOA	22	GEV12LRFOA	9	GEV22LR1/2FOA	9
GE-42L-48MPB	35	GE-8S-6EO	34	GES10 SRFOA	22	GEV12LRK	9	GEV22LRFOA	9
GE-6L-1/2UNF	37	GE-8S-6N	36	GES12 LR 1/2FOA	22	GEV12LRWD	10	GEV22LRWD	10
GE-6L-10MEO	34	GE-8S-6RP	35	GES12 LR 1/4FOA	22	GEV12S1/2NPT	11	GEV25S1NPT	11
GE-6L-10MPB	35	GE-8S-6RT	36	GES12 LRFOA	22	GEV12S1/4NPT	11	GEV25SM	9
GE-6L-12MEO	34	GE-8S-7/16UNF	37	GES12 SR 1/2FOA	22	GEV12S3/4-16UNF	11	GEV25SMWVD	10
GE-6L-12MPB	35	GE-8S-8EO	34	GES12 SR 1/4FOA	22	GEV12S3/8NPT	11	GEV25SR	10
GE-6L-14MEO	34	GE-8S-8N	36	GES12 SRFOA	22	GEV12SM	9	GEV25SR3/4	10
GE-6L-14MPB	35	GE-8S-8RP	35	GES14 SRFOA	22	GEV12SMWVD	10	GEV25SR3/4FOA	9
GE-6L-2EO	34	GE-8S-9/16UNF	37	GES15 LR 3/8FOA	22	GEV12SR	10	GEV25SR3/4WD	10
GE-6L-2N	36	GES 10 LR	22	GES15 LRFOA	22	GEV12SR1/2	10	GEV25SRFOA	9
GE-6L-2RP	35	GES 10 LR 1/2	22	GES16 SR 3/4FOA	22	GEV12SR1/2FOA	9	GEV25SRWD	10
GE-6L-2RT	36	GES 10 LR 1/2-WD	22	GES16 SR 3/8FOA	22	GEV12SR1/2WD	10	GEV28L15/16-12UN	11
GE-6L-4EO	34	GES 10 LR 3/8	22	GES16 SRFOA	22	GEV12SR1/4	10	GEV28LNPT	11
GE-6L-4N	36	GES 10 LR 3/8-WD	22	GES18 LR 3/4FOA	22	GEV12SR1/4FOA	9	GEV28L7/8-14UNF	11
GE-6L-4RP	35	GES 10 LR-WD	22	GES18 LRFOA	22	GEV12SR1/4WD	10	GEV28LM	9
GE-6L-4RT	36	GES 10 SR	22	GES20 SR 1/2FOA	22	GEV12SRFOA	9	GEV28LMWVD	10
GE-6L-6EO	34	GES 10 SR 1/2	22	GES20 SRFOA	22	GEV12SRWD	10	GEV28LR	10
GE-6L-6N	36	GES 10 SR 1/2-WD	22	GES22 LR 1/2FOA	22	GEV12S1/2NPT	11	GEV28LR3/4	10
GE-6L-6RP	35	GES 10 SR 1/4	22	GES22 LRFOA	22	GEV14SM	9	GEV28LR3/4FOA	9
GE-6L-6RT	36	GES 10 SR 1/4-WD	22	GES25 SR 3/4FOA	22	GEV14SMWVD	10	GEV28LRFOA	9
GE-6L-7/16UNF	37	GES 10 SR-WD	22	GES25 SRFOA	22	GEV14SR	10	GEV28LRWD	10
GE-6L-8EO	34	GES 12 LR	22	GES28 LR 3/4FOA	22	GEV14SR3/8	10	GEV30S15/8-12UN	11
GE-6L-8N	36	GES 12 LR 1/2	22	GES28 LRFOA	22	GEV14SRFOA	9	GEV30SM	9
GE-6L-8RP	35	GES 12 LR 1/2-WD	22	GES30 SR 1FOA	22	GEV14SRWD	10	GEV30SMWVD	10
GE-6L-8RT	36	GES 12 LR 1/4	22	GES35 LRFOA	22	GEV15L1/2NPT	11	GEV30SR	10
GE-6L-9/16UNF	37	GES 12 LR 1/4-WD	22	GES38 SR 11/4FOA	22	GEV15L3/4-16UNF	11	GEV30SR1	10
GE-6S-12MEO	34	GES 12 LR-WD	22	GES38 SR 1FOA	22	GEV15L7/8-14UNF	11	GEV30SR11/4FOA	9
GE-6S-12MPB	35	GES 12 SR	22	GES6 LR 1/4FOA	22	GEV15LM	9	GEV30SR1FOA	9
GE-6S-14MEO	34	GES 12 SR 1/2	22	GES6 LR 3/8FOA	22	GEV15LM22X1.5	9	GEV30SR3/4	10
GE-6S-14MPB	35	GES 12 SR 1/2-WD	22	GES6 LRFOA	22	GEV15LM22X1.5WD	10	GEV30SRWD	10
GE-6S-2EO	34	GES 12 SR 1/4	22	GES8 LR 1/8FOA	22	GEV15LMWD	10	GEV35L11/4NPT	11
GE-6S-2N	36	GES 12 SR 1/4-WD	22	GES8 LR 3/8FOA	22	GEV15LR	10	GEV35L15/16-12UN	11
GE-6S-2RP	35	GES 12 SR-WD	22	GES8 LRFOA	22	GEV15LR3/4	10	GEV35L15/8-12UN	11
GE-6S-2RT	36	GES 14 SR	22	GES8 SRFOA	22	GEV15LR3/8	10	GEV35LM	9
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GE-6S-4RP	35	GES 15 LR 3/4	22	GEV10L7/16-20UNF	11	GEV15LRFOA	9	GEV35LRFOA	9
GE-6S-4RT	36	GES 15 LR-WD	22	GEV10L9/16-18UNF	11	GEV15LRK	9	GEV35LRWD	10
GE-6S-6EO	34	GES 16 SR	22	GEV10LM	9	GEV15LRWD	10	GEV38S11/2NPT	11
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	GEV38SR1FOA	9	GFS104GM	153	GFS403STM	156	GR-18L-10L	42	GRI-6-12RG	38
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	GEV42L11/2NPT	11	GFS104GU-100	153	GFS403SU-A30	154	GR-18L-8L	42	GRI-6-2RG	38
	GEV42LM	9	GFS104SM	154	GFS404GM	153	GR-20S-10S	42	GRI-6-4RG	38
4	GEV42LR	10	GFS104SM-A38	154	GFS404GM-100	153	GR-20S-12S	42	GRI-6-6RG	38
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	GEV4LL1/8NPT	11	GFS104STU	156	GFS404GU-100	153	GR-20S-16S	42	GS 10 S	23
5	GEV4LLRK	9	GFS104SU	154	GFS404SM	154	GR-20S-6S	42	GS 12 L	23
	GEV6L1/4NPT	11	GFS104SU-A38	154	GFS404SM-A38	154	GR-20S-8S	42	GS 12 S	23
	GEV6L1/8NPT	11	GFS106GM	153	GFS404STM	156	GR-22L-10L	42	GS 14 S	23
6	GEV6L11/8NPT	11	GFS106GM-114	153	GFS404STU	156	GR-22L-12L	42	GS 15 L	23
	GEV6LLRK	9	GFS106GU	153	GFS404SU	154	GR-22L-15L	42	GS 16 S	23
7	GEV6LM12X1.5	9	GFS106GU-114	153	GFS404SU-A38	154	GR-22L-18L	42	GS 18 L	23
	GEV6LMWWD	10	GFS106SM	154	GFS405GM	153	GR-22L-8L	42	GS 20 S	23
	GEV6LR	10	GFS106SM-A50	154	GFS405GM-114	153	GR-25S-10S	42	GS 22 L	23
	GEV6LR1/4	10	GFS106STU	156	GFS405GU	153	GR-25S-12S	42	GS 25 S	23
	GEV6LR1/4FOA	9	GFS106STU	156	GFS405GU-114	153	GR-25S-14S	42	GS 28 L	23
	GEV6LR1/4WVD	10	GFS106SU	154	GFS405SM	154	GR-25S-16S	42	GS 30 S	23
	GEV6LR3/8	10	GFS106SU-A50	154	GFS405SM-A50	154	GR-25S-20S	42	GS 35 L	23
	GEV6LR3/8FOA	9	GFS108GM	153	GFS405STM	156	GR-25S-8S	42	GS 38 S	23
	GEV6LRFOA	9	GFS108GM-112	153	GFS405STU	156	GR-28L-10L	42	GS 42 L	23
B	GEV6LRWD	10	GFS108GU	153	GFS405SU	154	GR-28L-12L	42	GS 6 L	23
	GEV6SM	9	GFS108GU-112	153	GFS405SU-A50	154	GR-28L-15L	42	GS 6 S	23
	GEV6SMWWD	10	GFS108S	154	GFS406GM	153	GR-28L-18L	42	GS 8 L	23
C	GEV6SR	10	GFS108STM	156	GFS406GM-112	153	GR-28L-22L	42	GS 8 S	23
	GEV6SRWD	10	GFS108STU	156	GFS406GU	153	GR-30S-10S	42	GSS 10 L	23
D	GEV8L1/4NPT	11	GFS108SU	154	GFS406GU-112	153	GR-30S-12S	42	GSS 10 S	23
	GEV8L17/16-20UNF	11	GFS110GM	153	GFS406SM	154	GR-30S-14S	42	GSS 12 L	23
E	GEV8L9/16-18UNF	11	GFS110GM-200	153	GFS406STM	156	GR-30S-16S	42	GSS 12 S	23
	GEV8LL1/8NPT	11	GFS110GU	153	GFS406STU	156	GR-30S-20S	42	GSS 14 S	23
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	GEV8LRK	9	GFS114GM	153	GL003-3141NB	214	GR-42L-18L	42	GSS 8 L	23
K	GEV8LRWD	10	GFS114GM-300	153	GGMF211-1-10	256	GR-42L-22L	42	GSS 8 S	23
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L	GEV8SM	9	GFS114GU-300	153	GGMF2110QIVPKG164	256	GR-42L-35L	42	GSV10S	15
	GEV8SMWWD	10	GFS114SM	154	GGMF221-1-10	256	GR-8L-6L	42	GSV12L	15
	GEV8SR	10	GFS114STU	156	GGMF221-1-5	256	GR-8S-6S	42	GSV12S	15
M	GEV8SR1/2	10	GFS114STU	156	GGMF2210QIVPKG164	256	GRI-12-16RG	38	GSV14S	15
	GEV8SR3/8	10	GFS114SU	154	GGMF3110QIVPKG244	256	GRI-12-20RG	38	GSV15L	15
N	GEV8SR3/8WVD	10	GFS116GM	153	GGMF321-112-10	256	GRI-12-24RG	38	GSV16S	15
	GEV8SRFOA	9	GFS116GM-312	153	GGMF321-112-5	256	GRI-12-28RG	38	GSV18L	15
	GEV8SRWD	10	GFS116GU	153	GGMF3210QIVPKG244	256	GRI-12-48RG	38	GSV20S	15
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	GFS080SM-038	154	GFS116SU	154	GGMF421-2-5	256	GRI-16-24RG	38	GSV35L	15
Q	GFS080SM-A20	154	GFS401GM-012	153	GGMF4210QIVPKG324	256	GRI-16-48RG	38	GSV38S	15
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R	GFS080STM-038	156	GFS401GU-012	153	GPE1-38	193	GRI-16-8RG	38	GSV6L	15
	GFS080STU	156	GFS401GU-038	153	GPE2-12	193	GRI-2-4RG	38	GSV6S	15
S	GFS080STU-038	156	GFS401SM-012	154	GPE2-34	193	GRI-2-6RG	38	GSV8L	15
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V	GFS100SM	154	GFS401SU-038	154	GR-12S-10S	42	GRI-24-20RG	38	GV-15L	15
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W	GFS100STM	156	GFS402GM	153	GR-12S-8S	42	GRI-32-12RG	38	GV-22L	15
	GFS100STU	156	GFS402GM-012	153	GR-14S-10S	42	GRI-32-16RG	38	GV-28L	15
	GFS100SU	154	GFS402GU	153	GR-14S-12S	42	GRI-32-20RG	38	GV-35L	15
X	GFS100SU-A25	154	GFS402GU-012	153	GR-14S-6S	42	GRI-32-24RG	38	GV-42L	15
	GFS102GM	153	GFS402SM	154	GR-14S-8S	42	GRI-32-8RG	38	GV-6L	15
	GFS102GM-034	153	GFS402SM-A25	154	GR-15L-10L	42	GRI-4-12RG	38	GV-8L	15
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H4-62-BSPP	242	HFBFP98112	226	HKP08SS-V	223	HKPA12SS-V	222	HNRV-38	201
H4-63-BSPP	242	HFBFP98114	226	HKP12B	223	HKPA12SS-NPT	222	HNRV-38	201
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H4-65M	242	HFP-01	191	HKP12CS	223	HKPA12SS-NPT	222	HNRV-38	201
H4-66	242	HFSFC-14-DP	226	HKP12CS-NPT	223	HKPA12SS-V	222	HNRV-38	201
H4-66M	242	HFSFC-38-DP	226	HKP12SS	223	HKPA12SS-NPT	222	HNRV-38	201
H4BVK-14	200	HFSFC6512	224	HKP12SS-NPT	223	HKPA12SS-V	222	HNRV-38	201
H5502	292	HFSFC6518	224	HKP12SS-V	223	HKPA12SS-NPT	222	HNRV-38	201
H5504	292	HFSFC6522	224	HKP16B	223	HKPA12SS-V	222	HNRV-38	201
H5506	292	HFSFC6538	224	HKP16B-V	223	HKPA12SS-NPT	222	HNRV-38	201
H5510	292	HFSFC8814	226	HKP16CS	223	HKPA12SS-V	222	HNRV-38	201
H5513	292	HFSFC8838	226	HKP16CS-NPT	223	HKPA12SS-NPT	222	HNRV-38	201
H6-62-BSPP	242	HFSFP-14-DC	226	HKP16SS	223	HKPA12SS-V	222	HNRV-38	201
H6-63-BSPP	242	HFSFP-38-DC	226	HKP16SS-NPT	223	HKPA12SS-V	222	HNRV-38	201
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	HSRS-38	86	HST25X2.0	67	HST6X1.0-C6F	68	K12-UCS	44	K563630014	270
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4	HST1.2X16G-6M	69	HST25X2.5-C6F-6M	68	HST6X2.0-6M	67	K25-UCS	44	K564030012	270
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5	HST10X1.0-C6F	68	HST25X3.0-C6F	68	HST8X1.0-C6F	68	K35-UCL	44	K564230012	270
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KHBSM-G11/4	194	KOR-22L-6L	45	KR32-24SSAR	127	KRAM22TR	28	KREFE6	126
KHBSM-G11/4-LK	196	KOR-22L-8L	45	KR32-32SSAR	127	KRAM25-12MSCR	29	KREFE8	126
KHBSM-G3/4	194	KOR-25S-10S	45	KR4-2SSAR	127	KRAM25-16BHR	29	KREFT12	126
KHBSM-G3/4-LK	196	KOR-25S-12S	45	KR4-4SSAR	127	KRAM25-16BJR	29	KREFT16	126
KHBSM-G3/8	194	KOR-25S-14S	45	KR5-2SSAR	127	KRAM25-16FSCR	29	KREFT2	126
KHBSM-G3/8-LK	196	KOR-25S-16S	45	KR5-4SSAR	127	KRAM25-16MSCR	29	KREFT20	126
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KHBTM-G1/4	194	KOR-25S-8S	45	KR6-6SSAR	127	KRAM25-M12ROTR	28	KREFT4	126
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KHBTM-G3/4	194	KOR-28L-15L	45	KR8-8SSAR	127	KRAM25-M20RNR	30	KREME12	126
KHBTM-G3/8	194	KOR-28L-18L	45	KRA12-12BJ	127	KRAM25BCR	29	KREME16	126
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KHV08L-SS	200	KOR-28L-6L	45	KRA6-6BJ	127	KRAM25CR	28	KREME24	126
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KHV12L	27	KOR-30S-16S	45	KRAB24T-24	126	KRAM30-20FOTR	29	KREU12	125
KHV12L-SS	200	KOR-30S-20S	45	KRAB32T-32	126	KRAM30-20FSCR	29	KREU16	125
KHV12S	27	KOR-30S-25S	45	KRAB4T-4	126	KRAM30-20MSCR	29	KREU2	125
KHV12S-SS	200	KOR-30S-6S	45	KRAB6T-4	126	KRAM30-M16ROTR	28	KREU20	125
KHV14S	27	KOR-30S-8S	45	KRAB6T-6	126	KRAM30-M25RNR	30	KREU24	125
KHV14S-SS	200	KOR-35L-10L	45	KRAB8T-8	126	KRAM30BCR	29	KREU32	125
KHV15L	27	KOR-35L-12L	45	KRAM10-4MSCR	29	KRAM30BPPR	28	KREU4	125
KHV15L-SS	200	KOR-35L-15L	45	KRAM10-6BHR	29	KRAM30CR	28	KREU6	125
KHV16S	27	KOR-35L-18L	45	KRAM10-6BJR	29	KRAM30ER	28	KREU8	125
KHV16S-SS	200	KOR-35L-22L	45	KRAM10-6FOTR	29	KRAM30TR	28	KREUBH10	125
KHV18L	27	KOR-35L-28L	45	KRAM10-6MSCR	29	KRAM38-16MSCR	29	KREUBH12	125
KHV18L-SS	200	KOR-35L-6L	45	KRAM10-8MSCR	29	KRAM38-20BHR	29	KREUBH16	125
KHV20S	27	KOR-35L-8L	45	KRAM10-M6RNR	30	KRAM38-20FOTR	29	KREUBH20	125
KHV20S-SS	200	KOR-38S-10S	45	KRAM10-M8RNR	30	KRAM38-20MSCR	29	KREUBH24	125
KHV22L	27	KOR-38S-12S	45	KRAM10BCR	29	KRAM38-24BHR	29	KREUBH4	125
KHV22L-SS	200	KOR-38S-14S	45	KRAM10BPPR	28	KRAM38-24BJR	29	KREUBH6	125
KHV25S	27	KOR-38S-16S	45	KRAM10CR	28	KRAM38-24FOTR	29	KREUBH8	125
KHV25S-SS	200	KOR-38S-20S	45	KRAM10ER	28	KRAM38-24FSCR	29	KREUPAT12	125
KHV28L	27	KOR-38S-25S	45	KRAM10TR	28	KRAM38-24MSCR	29	KREUPAT16	125
KHV28L-SS	200	KOR-38S-30S	45	KRAM12-12MSCR	29	KRAM38-M20RNR	30	KREUPAT2	125
KHV30S	27	KOR-38S-6S	45	KRAM12-4MSCR	29	KRAM38-M20ROTR	28	KREUPAT20	125
KHV30S-SS	200	KOR-38S-8S	45	KRAM12-6BHR	29	KRAM38-M25RNR	30	KREUPAT4	125
KHV35L	27	KOR-42L-10L	45	KRAM12-6BJR	29	KRAM38-M30RNR	30	KREUPAT6	125
KHV35L-SS	200	KOR-42L-12L	45	KRAM12-6FOTR	29	KRAM38BCR	29	KREUPAT8	125
KHV38S	27	KOR-42L-15L	45	KRAM12-6FSCR	29	KRAM38BPPR	28	KREUPT12	125
KHV38S-SS	200	KOR-42L-18L	45	KRAM12-6MSCR	29	KRAM38CR	28	KREUPT16	125

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1	KREUPT20	125	KRM6NCR	30	KUNL-80/88.9	85	LMC-250-437SE	53	M16X55	157
	KREUPT24	125	KRM6R	30	KUPL-100/108	85	LMC-312-500SE	53	M18L-1.4571AGP	51
	KREUPT32	125	KRM6W	30	KUPL-100/114.3	85	LMC-375-562SE	53	M20S	7
2	KREUPT4	125	KRM8-2SSAR	127	KUPL-15/17.2	85	LMC-500-750SE	53	M20S-1.4571AGP	51
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3	KRFA12-12	126	KRM8BPGR	30	KUPL-20/26.9	85	LMC-875-1187SE	53	M20X65	157
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4	KRFA20-20	126	KRM8R	30	KUPL-25/33.7	85	LOC-2	211	M22L-1.4571AGP	51
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5	KRFA4-4	126	KRP10	127	KUPL-32/42.4	85	LOC-4	211	M25S-1.4571AGP	51
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	KRM10BPGR	30	KRRB12-6	125	KV35L	15	M-17X2.5	161	MAV6SR	20
	KRM10NCR	30	KRRB12-8	125	KV38S	15	M-18L	7	MAV8LR	20
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	KRM12R	30	KRRB20-4*	125	KV8LL	15	M-22L-FT	50	MBT-125-250N	55
	KRM12W	30	KRRB20-6	125	KV8S	15	M-22X3	161	MBT-16-500N	62
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	KRM16-8SSAR	127	KRRB24-16	125	LAC-2	211	M-25X3	161	MBT-250-250N	55
	KRM16NCR	30	KRRB24-20	125	LAC-3	211	M-27X3	161	MBT-312-125N	55
	KRM16R	30	KRRB24-8	125	LAC-4	211	M-28L	7	MBT-375-250N	55
J	KRM16W	30	KRRB32-16	125	LAC-5	211	M-28L-FT	50	MBT-375-375N	55
	KRM20-12SSAR	127	KRRB32-20	125	LAC-6	211	M-28X3	161	MBT-500-375N	55
	KRM20-8SSAR	127	KRRB32-24	125	LAC-7	211	M-30S-FT	50	MBT-500-500N	55
	KRM20BPGR	30	KRRB4-2	125	LDC-1	211	M-30X3	161	MBT-6-125N	62
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	KRM20R	30	KRRB6-4	125	LDC-3	211	M-33X3	161	MBT-625-500N	55
	KRM20W	30	KRRB8-2	125	LDC-4	211	M-35L	7	MBT-750-750N	55
	KRM22-12SSAR	127	KRRB8-4	125	LDC-5	211	M-35L-FT	50	MBT-8-125N	62
	KRM22-16SSAR	127	KRRB8-6	125	LDC-6	211	M-35X3	161	MBT-8-250N	62
	KRM22-8SSAR	127	KRUU10-4	125	LF1002	261	M-36X3	161	MBTP-10-250PR	62
	KRM22BPGR*	30	KRUU10-6	125	LF1009	261	M-38S-FT	50	MBTP-1000-1000PR	55
	KRM22NCR	30	KRUU10-8	125	LF1090	261	M-38X3	161	MBTP-1000-1312SE	55
	KRM22R	30	KRUU12-10	125	LF2020	261	M-38X4	161	MBTP-12-375PR	62
	KRM22W	30	KRUU12-6	125	LF2100	261	M-3X2	161	MBTP-12-500PR	62
	KRM25-12SSAR	127	KRUU12-8	125	LF2220	261	M-41X4	161	MBTP-250-125PR	55
	KRM25-16SSAR	127	KRUU14-12	125	LF3007E	261	M-42L	7	MBTP-250-250PR	55
	KRM25BPGR	30	KRUU16-10	125	LF3050E	261	M-42L-FT	50	MBTP-250-437SE	55
	KRM25NCR	30	KRUU16-12	125	LF3135E	261	M-44X4	161	MBTP-375-250PR	55
	KRM25R	30	KRUU16-14	125	LF3330E	261	M-4X2	161	MBTP-375-562SE	55
	KRM25W	30	KRUU16-8	125	LF3720E	261	M-5X2	161	MBTP-500-375PR	55
	KRM30-12SSAR	127	KRUU20-12	125	LFEEET-12040	216	M-6L	7	MBTP-500-500PR	55
	KRM30-16SSAR	127	KRUU20-16	125	LFEEET-16050	216	M-6L-FT	50	MBTP-500-750SE	55
	KRM30-20SSAR	127	KRUU24-16	125	LFEEET-20060	216	M-6S-FT	50	MBTP-6-125PR	62
	KRM30BPGR	30	KRUU24-20	125	LFEEET-8035	216	M-6X2	161	MBTP-6-250PR	62
	KRM30NCR	30	KRUU32-16	125	LGSLLEEVE-18	288	M-7X2	161	MBTP-625-500PR	55
	KRM30R	30	KRUU32-20	125	LGSLLEEVE-21	288	M-8L	7	MBTP-750-1062SE	55
	KRM30W	30	KRUU32-24	125	LGSLLEEVE-25	288	M-8L-FT	50	MBTP-750-500PR	55
	KRM38-16SSAR	127	KRUU4-2	125	LGSLLEEVE-31	288	M-8S-FT	50	MBTP-750-750PR	55
	KRM38-20SSAR	127	KRUU6-4	125	LGSLLEEVE-36	288	M-8X2	161	MBTP-8-125PR	62
	KRM38-24SSAR	127	KRUU8-4	125	LGSLLEEVE-40	288	M10S	7	MBTP-8-250PR	62
	KRM38BPGR	30	KRUU8-6	125	LGSLLEEVE-45	288	M10X30	157	MC-10-125N	60
	KRM38NCR	30	KUNL-100/108	85	LGSLLEEVE-52	288	M10X35	157	MC-10-125SRT	60
	KRM38R	30	KUNL-100/114.3	85	LGSLLEEVE-60	288	M10X40	157	MC-10-250N	60
	KRM38W	30	KUNL-20/25	85	LGSLLEEVE-73	288	M10X45	157	MC-10-250RS	60
	KRM50-24SSAR	127	KUNL-20/26.9	85	LGSLLEEVE-85	288	M12S	7	MC-10-250RT	60
	KRM50-32SSAR	127	KUNL-25/30	85	LGSLLEEVE-93	288	M12X35	157	MC-10-375N	60
	KRM50BPGR	30	KUNL-25/33.7	85	LHC-1	211	M12X45	157	MC-10-375RS	60
	KRM50NCR	30	KUNL-32/38	85	LHC-2	211	M12X50	157	MC-10-375SRT	60
	KRM50R	30	KUNL-40/44.5	85	LHC-3	211	M12X70	157	MC-10-500N	60
	KRM50W	30	KUNL-40/48.3	85	LHC-4	211	M14S	7	MC-10-500RS	60
	KRM6-2SSAR	127	KUNL-50/57	85	LHC-5	211	M14X45	157	MC-10-500RT	60
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MC-16-375RS	60	MC-500-125N	53	MC4-2	31	ME-187-125N	56	MEP-12-750PR	63
MC-16-375RT	60	MC-500-250N	53	MC4-4	31	ME-187-250N	56	MEP-250-125PR	56
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MC-16-500RS	60	MC-500-250RT	53	MC4-6	31	ME-20-500RT	63	MEP-250-437SE	56
MC-16-500RT	60	MC-500-375N	53	MC6-4	31	ME-20-750RT	63	MEP-250-562SE	56
MC-16-750N	60	MC-500-375RS	54	MC6-4T	32	ME-22-1000N	63	MEP-312-500SE	56
MC-16-750RT	60	MC-500-375RT	53	MC6-6	31	ME-22-1000RT	63	MEP-375-250PR	56
MC-160-104	193	MC-500-500N	53	MC6-6T	32	ME-22-750N	63	MEP-375-375PR	56
MC-18-500N	60	MC-500-500RS	54	MC6-8	31	ME-22-750RT	63	MEP-375-562SE	56
MC-18-500RS	60	MC-500-500RT	53	MC8-12	31	ME-25-1000N	63	MEP-375-750SE	56
MC-18-500RT	60	MC-500-562SE	53	MC8-4	31	ME-25-1000RT	63	MEP-500-250PR	56
MC-18-750N	60	MC-500-750N	53	MC8-4T	32	ME-25-750N	63	MEP-500-375PR	56
MC-18-750RS	60	MC-500-750RT	53	MC8-6	31	ME-25-750RT	63	MEP-500-500PR	56
MC-18-750RT	60	MC-500-750SE	53	MC8-6T	32	ME-250-125N	56	MEP-500-750SE	56
MC-180-104	193	MC-500-875SE	53	MC8-8	31	ME-250-125RT	56	MEP-6-125PR	63
MC-187-125N	53	MC-6-125N	60	MC8-8T	32	ME-250-250N	56	MEP-6-250PR	63
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MC-20-500N	60	MC-6-125RT	60	MCB-161010	216	ME-250-375N	56	MEP-625-875SE	56
MC-20-500RS	60	MC-6-250N	60	MCB-251218	216	ME-250-375RT	56	MEP-750-1062SE	56
MC-20-500RT	60	MC-6-250RS	60	MCB-251518	216	ME-250-500N	56	MEP-750-500PR	56
MC-20-750N	60	MC-6-250RT	60	MCB-302020	216	ME-250-500RT	56	MEP-750-750PR	56
MC-20-750RS	60	MC-6-375N	60	MCB-403023	216	ME-3-125RT	63	MEP-8-125PR	63
MC-20-750RT	60	MC-6-375RS	60	MCB-503025	216	ME-3-250N	63	MEP-8-250PR	63
MC-22-1000N	60	MC-6-375RT	60	MCB-755037	216	ME-3-250RT	63	MEP-875-1187SE	56
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MC-250-375N	53	MC-8-125RT	60	MCG3220	88	ME-500-750N	56	MPP014	71
MC-250-375RS	54	MC-8-250N	60	MCG3224	88	ME-6-125N	63	MPP016	71
MC-250-375RT	53	MC-8-250RS	60	MCG3226	88	ME-6-125RT	63	MPP018	71
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A	MRT-375-375N	55	MWC-375-750	58	NF8	31	NT8	33	OR-4090-08-10	113
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	MRT-375-562SE	56	MWC-8-500	64	NMCI2-16T	32	OMC-125-312SE	53	OR-4110-20-20	95
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I	MRT-500-750SE	56	MWC-8-500	64	NMCI2-16T	32	OMC-250-437SE	53	OR-4130-06-04	101
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J	MRT-625-500PR	56	MWC-8-500	64	NMCI2-16T	32	OMC-375-375EO	53	OR-4130-08-08	101
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	MTC-525	268	MWC-8-500	64	NMCI2-16T	32	OMC-6-375EO	60	OR-7040-24-24	114
	MTC-600	268	MWC-8-500	64	NMCI2-16T	32	OMC-6-500EO	60	OR-8000-04-04	113
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	MV-10S-4RG	48	MWC-8-500	64	NMCI2-16T	32	OR-1001-08	113	OR-8000-16-16	113
	MV-10S-8N	48	MWC-8-500	64	NMCI2-16T	32	OR-1001-10	113	OR-8010-04-04	113
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S	MV-12S-8N	48	MWC-8-500	64	NMCI2-16T	32	OR-2030-08	114	OR-8010-24-24	113
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	MVC08	205	MWC-8-500	64	NMCI2-16T	32	OR-4000-16-16	113	OR-8050-12-12	114
Z	MVC12	205	MWC-8-500	64	NMCI2-16T	32	OR-4000-20-20	113	OR-8050-16-16	114
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OR-9000-08-08-08	114	P-25	65	PAV1.3939.003	228	PC-12-FT	64	PG63-600RG	272		2
OR-9000-10-10-10	114	P-250	59	PAV1.3939.003 V	228	PC-125	59	PGA-04-04	132		3
OR-9000-12-12-12	114	P-3-FT	65	PAV1.3939.012	228	PC-15-FT	64	PGA-06-06	132		4
OR-9000-16-16-16	114	P-312	59	PAV1.3939.013	228	PC-16	64	PGA-08-08	132		5
OR-9010-04-04-04	114	P-375	59	PAV1.5051.002	228	PC-18-FT	64	PHC-02	132		6
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OR-9010-10-10-10	114	P-6-FT	65	PAV1.5051.003 V	228	PC-2-55	193	PHC-08	132		9
OR-9010-12-12-12	114	P-625	59	PAV1.5051.012	228	PC-2-74	193	PHC-12	132		A
OR-9010-16-16-16	114	P-750	59	PAV1.5051.013	228	PC-20	64	PHC-16	132		B
OR-9010-20-20-20	114	P-8	65	PAVX.0606.002	228	PC-25	64	PHC12-12RP	250		C
OR-9020-04-04-04	114	P-875	59	PAVX.0606.003	228	PC-250	59	PHC16-16RP	250		D
OR-9020-06-06-06	114	P-RSTV10LM-WD	16	PAVX.1010.002	228	PC-3	64	PHC20-20RP	250		E
OR-9020-08-08-08	114	P-RSTV10LR-WD	16	PAVX.1010.003	228	PC-3-104	193	PHC4-4RP	250		F
OR-9020-10-10-10	114	P-RSTV10SR-WD	16	PAVX.1313.002	228	PC-3-74	193	PHC6-6RP	250		G
OR-9020-12-12-12	114	P-RSTV12LM-WD	16	PAVX.1313.003	228	PC-312	59	PHC8-8RP	250		H
OR-9020-16-16-16	114	P-RSTV12LR-WD	16	PAVX.2019.002	228	PC-375	59	PHN-01	132		I
OR-9020-20-20-20	114	P-RSTV12SR-WD	16	PAVX.2019.003	228	PC-500	59	PHN-02	132		J
OR-9070-04-04-04	114	P-RSTV15LM-WD	16	PAVX.2525.002	228	PC-6	64	PHN-04	132		K
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OR-9070-10-10-10	114	P-RSTV16SR-WD	16	PAVX.3031.003	228	PCJ5.0604.002	237	PHN-12	132		N
OR-9070-12-12-12	114	P-RSTV18LM-WD	16	PAVX.3939.002	228	PCJ5.0604.003	237	PHN-16	132		O
OR-9120-06-06-06	114	P-RSTV18LR-WD	16	PAVX.3939.003	228	PCJ5.0606.002	237	PHN12-12RP	250		P
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OR-9120-12-12-12	114	P-RSTV22LM-WD	16	PBT-02	133	PCJ5.0606.013	237	PHN4-4RP	250		S
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ORING-BS006N	161	P-RSTV25SR-WD	16	PBT-06	133	PCJ5.0610.003	237	PHN8-8RP	250		U
ORING-BS006V	161	P-RSTV28LM-WD	16	PBT-08	133	PCJ5.0610.012	237	PHNL-02-L1.5	132		V
ORING-BS007N	161	P-RSTV30SM-WD	16	PBV1.0404.002	232	PCJ5.0610.013	237	PHNL-02-L2	132		W
ORING-BS008N	161	P-RSTV30SR-WD	16	PBV1.0404.003	232	PCJ6.0606.002	237	PHNL-02-L3	132		X
ORING-BS008V	161	P-RSTV35LM-WD	16	PBV1.0606.002	232	PCJ6.0606.003	237	PHNL-02-L4	132		Y
ORING-BS009N	161	P-RSTV35LR-WD	16	PBV1.0606.003	232	PCJ6.0606.012	237	PHNL-02-L6	132		Z
ORING-BS009V	161	P-RSTV38SM-WD	16	PBV1.1010.002	232	PCJ6.0606.013	237	PHNL-04-L1.5	132		
ORING-BS010N	161	P-RSTV38SR-WD	16	PBV1.1010.003	232	PCP-02	133	PHNL-04-L2	132		
ORING-BS010V	161	P-RSTV42LR-WD	16	PBV1.1313.002	232	PCP-04	133	PHNL-04-L3	132		
ORING-BS011N	161	P-RSTV6LM-WD	16	PBV1.1313.003	232	PCP-06	133	PHNL-04-L4	132		
ORING-BS011V	161	P-RSTV6LR-WD	16	PBV1.2019.002	232	PCP-08	133	PHNL-04-L6	132		
ORING-BS012N	161	P-RSTV6SM-WD	16	PBV1.2019.003	232	PCP-12	133	PHNL-06-L1.5	132		
ORING-BS012V	161	P-RSTV6SR-WD	16	PBV1.2525.002	232	PCP-16	133	PHNL-06-L2	132		
ORING-BS110N	161	P-RSTV8LM-WD	16	PBV1.2525.003	232	PDCP-12	250	PHNL-06-L3	132		
ORING-BS110V	161	P-RSTV8LR-WD	16	PBV1.3931.002	232	PDCP-16	250	PHNL-06-L4	132		
ORING-BS111N	161	P-RSTV8SM-WD	16	PBV1.3931.003	232	PDCP-4	250	PHNL-06-L6	132		
ORING-BS112N	161	P-RSTV8SR-WD	16	PBV1.3939.002	232	PDCP-6	250	PHNL-08-L1.5	132		
ORING-BS112V	161	P1000	293	PBV1.3939.003	232	PDCP-8	250	PHNL-08-L2	132		
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ORING-BS220N	161	PAV1.1313.003	228	PBVM.5051.002	232	PG63-002RG	272	PLK4.2525.113	233		
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OS69NT	214	PAV1.2525.002	228	PBVX.2019.002	229	PG63-025RG	272	PLS1.1013.113	231		
OS74NT	214	PAV1.2525.002 V	228	PBVX.2019.003	229	PG63-040BG	272	PLS1.1313.112	231		
OS81NT	214	PAV1.2525.003	228	PBVX.2525.002	229	PG63-040RG	272	PLS1.1313.113	231		
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P-125	59	PAV1.3031.002 V	228	PBVX.3939.003	229	PG63-200BG	272	PLS1.2531.112	231		
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6	PLT.006.802	234	PLT.613.813	235	PP-08	133	PPV3.2525.112	230	PST4.3025.112	236
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7	PLT.006.812	234	PLT.613.833	235	PP-16	133	PR-M 10 S	7	PST4.3031.112	236
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8	PLT.006.822	234	PLT.613.853	235	PPA-04	132	PR-M 12 S	7	PST4.3939.112	236
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U	PLT.019.872	234	PLT4.3031.113	233	PPV3.1018.403	230	PRC-06-04	132	PWO-3	212
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R-12-22	64	RAAR-215	76	RAPG-106	75	RAPR-216	75	RAVG-426.9	76
R-12-25	64	RAAR-216	76	RAPG-106.4	75	RAPR-217.2	75	RAVG-428	76
R-12-500	64	RAAR-217.2	76	RAPG-106.4CR	75	RAPR-218	75	RAVG-430	76
R-12-6	64	RAAR-218	76	RAPG-106CR	75	RAPR-218CR	75	RAVG-532	76
R-12-750	64	RAAR-319	76	RAPG-108	75	RAPR-319	75	RAVG-533.7	76
R-12-8	64	RAAR-320	76	RAPG-108CR	75	RAPR-320	75	RAVG-535	76
R-125-125	58	RAAR-321.3	76	RAPG-109.5	75	RAPR-321.3	75	RAVG-538	76
R-125-187	58	RAAR-322	76	RAPG-109.5CR	75	RAPR-322	75	RAVG-540	76
R-125-250	58	RAAR-323	76	RAPG-110	75	RAPR-323	75	RAVG-542	76
R-125-375	58	RAAR-325	76	RAPG-110CR	75	RAPR-325	75	RAVG-644.5	76
R-125-500	58	RAAR-426.9	76	RAPG-112	75	RAPR-426.9	75	RAVG-645	76
R-16-12	64	RAAR-430	76	RAPG-112CR	75	RAPR-428	75	RAVG-648	76
R-18-12	64	RAAR-532	76	RAPG-212.7	75	RAPR-430	75	RAVG-650	76
R-18-16	64	RAAR-533.7	76	RAPG-212.7CR	75	RAPR-532	75	RAVG-650.8	76
R-18-20	64	RAAR-535	76	RAPG-213.5	75	RAPR-533.7	75	RAVG-652	76
R-18-22	64	RAAR-538	76	RAPG-213.5CR	75	RAPR-535	75	RAVG-655	76
R-18-25	64	RAAR-540	76	RAPG-214	75	RAPR-538	75	RAVG-657	76
R-18-750	64	RAAR-542	76	RAPG-214CR	75	RAPR-540	75	RBNG-106	80
R-187-125	58	RAAR-648	76	RAPG-215	75	RAPR-542	75	RBNG-106.4	80
R-187-250	58	RAAR-650	76	RAPG-215CR	75	RAPR-644.5	75	RBNG-108	80
R-20-16	64	RANG-106	76	RAPG-216	75	RAPR-645	75	RBNG-109.5	80
R-20-22	64	RANG-106.4	76	RAPG-216CR	75	RAPR-648	75	RBNG-110	80
R-20-25	64	RANG-108	76	RAPG-217.2	75	RAPR-650	75	RBNG-112	80
R-22-18	64	RANG-109.5	76	RAPG-217.2CR	75	RAPR-650.8	75	RBNG-212.7	80
R-22-20	64	RANG-110	76	RAPG-218	75	RAPR-652	75	RBNG-213.5	80
R-22-25	64	RANG-112	76	RAPG-319	75	RAPR-655	75	RBNG-214	80
R-25-1000	64	RANG-212.7	76	RAPG-319CR	75	RAPR-657	75	RBNG-215	80
R-25-18	64	RANG-213.5	76	RAPG-320	75	RAPR3-006	73	RBNG-216	80
R-25-20	64	RANG-214	76	RAPG-320CR	75	RAPR3-006.4	73	RBNG-217.2	80
R-250-125	58	RANG-215	76	RAPG-321.3	75	RAPR3-008	73	RBNG-218	80
R-250-187	58	RANG-216	76	RAPG-322	75	RAPR3-009.5	73	RBNG-319	80
R-250-250	58	RANG-217.2	76	RAPG-322CR	75	RAPR3-010	73	RBNG-320	80
R-250-312	58	RANG-218	76	RAPG-323	75	RAPR3-012	73	RBNG-321.3	80
R-250-375	58	RANG-319	76	RAPG-323CR	75	RAPR3-106	73	RBNG-322	80
R-250-500	58	RANG-320	76	RAPG-325	75	RAPR3-106.4	73	RBNG-325	80
R-250-625	58	RANG-321.3	76	RAPG-325.4CR	75	RAPR3-108	73	RBNG-426.9	80
R-250-750	58	RANG-322	76	RAPG-325CR	75	RAPR3-109.5	73	RBNG-428	80
R-3-10	64	RANG-323	76	RAPG-426.9	75	RAPR3-110	73	RBNG-430	80
R-3-125	64	RANG-325	76	RAPG-426.9CR	75	RAPR3-112	73	RBNG-532	80
R-3-250	64	RANG-426.9	76	RAPG-428	75	RAPR3-212.7	73	RBNG-533.7	80
R-3-4	64	RANG-428	76	RAPG-428CR	75	RAPR3-213.5	73	RBNG-535	80
R-3-6	64	RANG-430	76	RAPG-430	75	RAPR3-214	73	RBNG-538	80
R-312-375	58	RANG-532	76	RAPG-430CR	75	RAPR3-215	73	RBNG-542	80
R-312-500	58	RANG-533.7	76	RAPG-532	75	RAPR3-216	73	RBNR-106.4	80
R-375-250	58	RANG-535	76	RAPG-532CR	75	RAPR3-217.2	73	RBNR-109.5	80
R-375-375	58	RANG-538	76	RAPG-533.7	75	RAPR3-218	73	RBNR-212.7	80
R-375-500	58	RANG-540	76	RAPG-533.7CR	75	RAPR3-319	73	RBNR-213.5	80
R-375-625	58	RANG-542	76	RAPG-535	75	RAPR3-320	73	RBNR-214	80
R-375-750	58	RANG-644.5	76	RAPG-535CR	75	RAPR3-321.3	73	RBNR-215	80
R-4-250	64	RANG-645	76	RAPG-538	75	RAPR3-322	73	RBNR-218	80
R-4-6	64	RANG-648	76	RAPG-538CR	75	RAPR3-323	73	RBNR-320	80
R-500-1000	58	RANG-650	76	RAPG-540	75	RAPR3-325	73	RBNR-322	80
R-500-250	58	RANG-650.8	76	RAPG-540CR	75	RAPR3-426.9	73	RBNR-325	80
R-500-375	58	RANG-652	76	RAPG-542	75	RAPR3-428	73	RBNR-428	80
R-500-500	58	RANG-655	76	RAPG-542CR	75	RAPR3-430	73	RBNR-533.7	80
R-500-625	58	RANG-657	76	RAPG-644.5	75	RAPR3-532	73	RBNR-535	80
R-500-750	58	RANR-006	76	RAPG-644.5CR	75	RAPR3-533.7	73	RBPG-106	80
R-6-10	64	RANR-008	76	RAPG-645	75	RAPR3-535	73	RBPG-106.4	80
R-6-12	64	RANR-009.5	76	RAPG-645CR	75	RAPR3-538	73	RBPG-108	80
R-6-125	64	RANR-012	76	RAPG-648	75	RAPR3-540	73	RBPG-109.5	80
R-6-18	64	RANR-106	76	RAPG-648CR	75	RAPR3-542	73	RBPG-110	80
R-6-250	64	RANR-106.4	76	RAPG-650	75	RAPR3-644.5	73	RBPG-112	80
R-6-3	64	RANR-110	76	RAPG-650.8	75	RAPR3-645	73	RBPG-212.7	80
R-6-312	64	RANR-112	76	RAPG-650.8CR	75	RAPR3-648	73	RBPG-213.5	80
R-6-375	64	RANR-212.7	76	RAPG-650CR	75	RAPR3-650	73	RBPG-214	80
R-6-500	64	RANR-214	76	RAPG-652	75	RAPR3-650.8	73	RBPG-215	80
R-6-8	64	RANR-215	76	RAPG-652CR	75	RAPR3-652	73	RBPG-216	80
R-625-1000	58	RANR-216	76	RAPG-654CR	75	RAPR3-655	73	RBPG-217.2	80
R-625-750	58	RANR-217.2	76	RAPG-655	75	RAPR3-657	73	RBPG-218	80
R-625-875	58	RANR-218	76	RAPG-655CR	75	RAPS-540	77	RBPG-319	80
R-750-1000	58	RANR-320	76	RAPG-657	75	RAVG-106	76	RBPG-320	80
R-750-500	58	RANR-321.3	76	RAPG-657CR	75	RAVG-108	76	RBPG-321.3	80
R-8-10	64	RANR-325	76	RAPR-006	75	RAVG-109.5	76	RBPG-322	80

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1	RBPG-426.9	80	RBVG-533.7	81	RCPG-230	83	RCPR3-110	73	REDR3/4X1	12
	RBPG-428	80	RBVG-535	81	RCPG-330	83	RCPR3-112	73	REDR3/4X1/2	12
	RBPG-430	80	RBVG-538	81	RCPG-332	83	RCPR3-112.7	73	REDR3/4X1/4	12
2	RBPG-532	80	RBVG-542	81	RCPG-333.7	83	RCPR3-113.5	73	REDR3/4X11/2	12
	RBPG-533.7	80	RCAR-110	82	RCPG-335	83	RCPR3-114	73	REDR3/4X11/4	12
3	RBPG-535	80	RCAR-220	82	RCPG-338	83	RCPR3-115	73	REDR3/4X3/8	12
	RBPG-538	80	RCAR-221.3	82	RCPG-340	83	RCPR3-116	73	REDR3/8X1/2	12
4	RBPG-540	80	RCAR-222	82	RCPG-342	83	RCPR3-117.2	73	REDR3/8X1/4	12
	RBPG-542	80	RCAR-226.9	82	RCPG-438	83	RCPR3-118	73	REDR3/8X1/8	12
5	RBPR-106	80	RCAR-230	82	RCPG-440	83	RCPR3-219	73	REDR3/8X3/4	12
	RBPR-106.4	80	RCAR-330	82	RCPG-442	83	RCPR3-220	73	REDVDN10/6L	21
	RBPR-108	80	RCAR-332	82	RCPG-445	83	RCPR3-221.3	73	REDVDN10/6S	21
	RBPR-109.5	80	RCAR-333.7	82	RCPG-448.3	83	RCPR3-222	73	REDVDN10/8L	21
6	RBPR-110	80	RCAR-338	82	RCPG-450	83	RCPR3-223	73	REDVDN10/8S	21
	RBPR-112	80	RCAR-340	82	RCPG-452	83	RCPR3-225	73	REDVDN12/10L	21
7	RBPR-212.7	80	RCAR-448.3	82	RCPG-455	83	RCPR3-226.9	73	REDVDN12/10S	21
	RBPR-213.5	80	RCAR-450	82	RCPG-457	83	RCPR3-228	73	REDVDN12/6L	21
	RBPR-214	80	RCAR-455	82	RCPG-460.3	83	RCPR3-230	73	REDVDN12/6S	21
8	RBPR-215	80	RCAR-460.3	82	RCPG-465	83	RCPR3-330	73	REDVDN12/8L	21
	RBPR-216	80	RCAR-470	82	RCPG-470	83	RCPR3-332	73	REDVDN12/8S	21
9	RBPR-217.2	80	RCNR-106	82	RCPG-560.3	83	RCPR3-333.7	73	REDVDN14/10S	21
A	RBPR-218	80	RCNR-108	82	RCPG-573	83	RCPR3-335	73	REDVDN14/12S	21
	RBPR-319	80	RCNR-110	82	RCPG-576.1	83	RCPR3-338	73	REDVDN14/6S	21
	RBPR-320	80	RCNR-112	82	RCPG-580	83	RCPR3-340	73	REDVDN14/8S	21
	RBPR-321.3	80	RCNR-112.7	82	RCPG-588.9	83	RCPR3-342	73	REDVDN15/10L	21
B	RBPR-322	80	RCNR-113.5	82	RCPG-6100	83	RCPR3-438	73	REDVDN15/12L	21
	RBPR-325	80	RCNR-114	82	RCPG-6101.6	83	RCPR3-440	73	REDVDN15/6L	21
	RBPR-426.9	80	RCNR-115	82	RCPG-6114.3	83	RCPR3-442	73	REDVDN15/8L	21
C	RBPR-428	80	RCNR-116	82	RCPG-7108	83	RCPR3-445	73	REDVDN16/10S	21
	RBPR-430	80	RCNR-117.2	82	RCPG-7168.3	83	RCPR3-448.3	73	REDVDN16/12S	21
D	RBPR-532	80	RCNR-118	82	RCPG-8168.3	83	RCPR3-450	73	REDVDN16/14S	21
	RBPR-533.7	80	RCNR-220	82	RCPR-106	82	RCPR3-451	73	REDVDN16/6S	21
E	RBPR-535	80	RCNR-221.3	82	RCPR-108	82	RCPR3-452	73	REDVDN16/8S	21
	RBPR-538	80	RCNR-222	82	RCPR-110	82	RCPR3-455	73	REDVDN18/10L	21
	RBPR-540	80	RCNR-223	82	RCPR-112	82	RCPR3-457	73	REDVDN18/12L	21
F	RBPR-542	80	RCNR-225	82	RCPR-112.7	82	RCPR3-460.3	73	REDVDN18/15L	21
	RBPR1-106	73	RCNR-226.9	82	RCPR-113.5	82	RCPR3-463	73	REDVDN18/6L	21
G	RBPR1-106.4	73	RCNR-228	82	RCPR-114	82	RCPR3-465	73	REDVDN18/8L	21
	RBPR1-108	73	RCNR-230	82	RCPR-115	82	RCPR3-470	73	REDVDN20/10S	21
	RBPR1-109.5	73	RCNR-330	82	RCPR-116	82	RCPR3-570	73	REDVDN20/12S	21
H	RBPR1-110	73	RCNR-332	82	RCPR-117.2	82	RCPR3-573	73	REDVDN20/14S	21
	RBPR1-112	73	RCNR-333.7	82	RCPR-118	82	RCPR3-575	73	REDVDN20/16S	21
I	RBPR1-212.7	73	RCNR-335	82	RCPR-219	82	RCPR3-576.1	73	REDVDN20/6S	21
	RBPR1-213.5	73	RCNR-338	82	RCPR-220	82	RCPR3-580	73	REDVDN20/8S	21
J	RBPR1-214	73	RCNR-340	82	RCPR-221.3	82	RCPR3-582.5	73	REDVDN22/10L	21
	RBPR1-215	73	RCNR-342	82	RCPR-222	82	RCPR3-588.9	73	REDVDN22/12L	21
	RBPR1-216	73	RCNR-438	82	RCPR-223	82	RCPR3-590	73	REDVDN22/15L	21
K	RBPR1-217.2	73	RCNR-440	82	RCPR-225	82	RCPR3-6101.6	73	REDVDN22/18L	21
	RBPR1-218	73	RCNR-442	82	RCPR-226.9	82	RCPR3-6114.3	73	REDVDN22/8L	21
L	RBPR1-319	73	RCNR-445	82	RCPR-228	82	RCPR3-6127	73	REDVDN25/10S	21
	RBPR1-320	73	RCNR-448.3	82	RCPR-230	82	RCPR3-7130	73	REDVDN25/12S	21
	RBPR1-321.3	73	RCNR-450	82	RCPR-330	82	RCPR3-7140	73	REDVDN25/14S	21
M	RBPR1-322	73	RCNR-451	82	RCPR-332	82	RCPR3-7168.3	73	REDVDN25/16S	21
	RBPR1-325	73	RCNR-452	82	RCPR-333.7	82	RD-10S	49	REDVDN25/20S	21
	RBPR1-426.9	73	RCNR-455	82	RCPR-335	82	RD-12S	49	REDVDN25/8S	21
N	RBPR1-428	73	RCNR-457	82	RCPR-338	82	RD-14S	49	REDVDN28/10L	21
	RBPR1-430	73	RCNR-460.3	82	RCPR-340	82	RD-16S	49	REDVDN28/12L	21
O	RBPR1-532	73	RCNR-463	82	RCPR-342	82	RD-20S	49	REDVDN28/15L	21
	RBPR1-533.7	73	RCNR-465	82	RCPR-438	82	RD-25S	49	REDVDN28/18L	21
	RBPR1-535	73	RCNR-470	82	RCPR-440	82	RD-30S	49	REDVDN28/22L	21
P	RBPR1-538	73	RCNR-570	82	RCPR-442	82	RD-38S	49	REDVDN30/12S	21
	RBPR1-540	73	RCNR-573	82	RCPR-445	82	RD-6S	49	REDVDN30/14S	21
	RBPR1-542	73	RCNR-575	82	RCPR-448.3	82	RD-8S	49	REDVDN30/16S	21
Q	RBV-250-125	57	RCNR-576.1	82	RCPR-450	82	REDR1/2X1	12	REDVDN30/20S	21
	RBV-375-250	57	RCNR-580	82	RCPR-451	82	REDR1/2X1/4	12	REDVDN30/25S	21
R	RBV-500-250	57	RCNR-582.5	82	RCPR-452	82	REDR1/2X1/8	12	REDVDN35/15L	21
	RBVG-106	81	RCNR-588.9	82	RCPR-455	82	REDR1/2X3/4	12	REDVDN35/18L	21
	RBVG-106.4	81	RCNR-590	82	RCPR-457	82	REDR1/2X3/8	12	REDVDN35/22L	21
S	RBVG-108	81	RCPE-2	74	RCPR-460.3	82	REDR1/4X1/2	12	REDVDN35/28L	21
	RBVG-109.5	81	RCPE-3	74	RCPR-463	82	REDR1/4X1/8	12	REDVDN38/10S	21
T	RBVG-110	81	RCPE-4	74	RCPR-465	82	REDR1/4X3/4	12	REDVDN38/16S	21
	RBVG-112	81	RCPE-5	74	RCPR-470	82	REDR1/4X3/8	12	REDVDN38/20S	21
U	RBVG-212.7	81	RCPG-106	83	RCPR-570	82	REDR1/8X1/4	12	REDVDN38/25S	21
	RBVG-213.5	81	RCPG-108	83	RCPR-573	82	REDR1/8X3/8	12	REDVDN38/30S	21
V	RBVG-214	81	RCPG-110	83	RCPR-575	82	REDR11/2X1	12	REDVDN42/15L	21
	RBVG-215	81	RCPG-112	83	RCPR-576.1	82	REDR11/2X1/2	12	REDVDN42/18L	21
W	RBVG-216	81	RCPG-112.7	83	RCPR-580	82	REDR11/2X11/4	12	REDVDN42/22L	21
	RBVG-217.2	81	RCPG-114	83	RCPR-582.5	82	REDR11/2X3/4	12	REDVDN42/35L	21
	RBVG-218	81	RCPG-115	83	RCPR-588.9	82	REDR11/4X1	12	REDVDN8/6L	21
X	RBVG-319	81	RCPG-116	83	RCPR-590	82	REDR11/4X1/2	12	REDVDN8/6S	21
	RBVG-320	81	RCPG-117.2	83	RCPR-6101.6	82	REDR11/4X11/2	12	REDVV10L-6L	13
	RBVG-321.3	81	RCPG-118	83	RCPR-6114.3	82	REDR11/4X3/4	12	REDVV10L-8L	13
Y	RBVG-322	81	RCPG-219	83	RCPR-6127	82	REDR1X1/2	12	REDVV10S-6S	13
	RBVG-325	81	RCPG-220	83	RCPR-7130	82	REDR1X1/4	12	REDVV10S-8S	13
	RBVG-426.9	81	RCPG-221.3	83	RCPR-7140	82	REDR1X11/2	12	REDVV12L-10L	13
Z	RBVG-428	81	RCPG-222	83	RCPR-7168.3	82	REDR1X11/4	12	REDVV12L-6L	13
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REDWV18L-12L	13	ROND-312.7	87	RPC-16-12	64	RU-750-625	55	RV06/180	203
REDWV18L-15L	13	ROND-313.5	87	RPC-250-125	59	RU-8-6	62	RV08/180	203
REDWV18L-6L	13	ROND-314	87	RPC-375-125	59	RUBLS-100/120	85	RV10L	26
REDWV18L-8L	13	ROND-315	87	RPC-375-250	59	RUBLS-125/148	85	RV10S	26
REDWV20S-10S	13	ROND-316	87	RPC-500-250	59	RUBLS-15/24	85	RV12/180	203
REDWV20S-12S	13	ROND-414	87	RPC-6-3	64	RUBLS-20/30	85	RV12L	26
REDWV20S-14S	13	ROND-415	87	RPC-750-500	59	RUBLS-25/38	85	RV12S	26
REDWV20S-16S	13	ROND-416	87	RPC-8-6	64	RUBLS-32/46	85	RV14S	26
REDWV20S-6S	13	ROND-417.2	87	RSG-10	289	RUBLS-50/64	85	RV15L	26
REDWV20S-8S	13	ROND-418	87	RSG-12	289	RUBLS-65/82	85	RV16S	26
REDWV22L-10L	13	ROND-419	87	RSG-16	289	RUBLS-80/94	85	RV18L	26
REDWV22L-12L	13	ROND-420	87	RSG-20	289	RUBLZ-100/120	85	RV20S	26
REDWV22L-15L	13	ROND-421.3	87	RSG-25	289	RUBLZ-125/148	85	RV22L	26
REDWV22L-18L	13	ROND-422	87	RSG-32	289	RUBLZ-20/30	85	RV25S	26
REDWV22L-8L	13	ROP-106	87	RSG-42	289	RUBLZ-32/46	85	RV28L	26
REDWV25S-10S	13	ROP-106.4	87	RSG-50	289	RUBLZ-50/64	85	RV30S	26
REDWV25S-12S	13	ROP-108	87	RSG-60	289	RUBLZ-65/82	85	RV35L	26
REDWV25S-14S	13	ROP-208	87	RSWV10LM	16	RUBLZ-80/94	85	RV38S	26
REDWV25S-16S	13	ROP-209.5	87	RSWV10LR	16	RUBS-100/120	85	RV42L	26
REDWV25S-20S	13	ROP-210	87	RSWV10SM	16	RUBS-125/148	85	RV6L	26
REDWV25S-8S	13	ROP-212	87	RSWV10SR	16	RUBS-15/24	85	RV6S	26
REDWV28L-10L	13	ROP-212.7	87	RSWV12LM	16	RUBS-150/176	85	RV8L	26
REDWV28L-12L	13	ROP-310	87	RSWV12LM18X1.5	16	RUBS-20/30	85	RV8S	26
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REDWV28L-18L	13	ROP-312.7	87	RSWV12SM	16	RUBS-32/46	85	RVV10SRWD	26
REDWV28L-22L	13	ROP-313.5	87	RSWV12SR	16	RUBS-40/52	85	RVV12LRWD	26
REDWV30S-12S	13	ROP-314	87	RSWV14SM	16	RUBS-50/64	85	RVV12SRWD	26
REDWV30S-14S	13	ROP-315	87	RSWV14SR	16	RUBS-65/82	85	RVV14SRWD	26
REDWV30S-16S	13	ROP-316	87	RSWV15LM	16	RUBS-80/94	85	RVV15LRWD	26
REDWV30S-20S	13	ROP-415	87	RSWV15LR	16	RSWV100/120	85	RVV16SRWD	26
REDWV30S-25S	13	ROP-416	87	RSWV16SM	16	RUBZ-15/24	85	RVV18LRWD	26
REDWV35-28L	13	ROP-417.2	87	RSWV16SR	16	RUBZ-150/176	85	RVV20SRWD	26
REDWV35L-15L	13	ROP-418	87	RSWV18LM	16	RUBZ-175/202	85	RVV22LRWD	26
REDWV35L-18L	13	ROP-419	87	RSWV18LR	16	RUBZ-20/30	85	RVV25SRWD	26
REDWV35L-22L	13	ROP-420	87	RSWV20SM	16	RUBZ-25/38	85	RVV28LRWD	26
REDWV38S-10S	13	ROP-421.3	87	RSWV20SR	16	RSWV250/282	85	RVV30SRWD	26
REDWV38S-16S	13	ROP-422	87	RSWV22LM	16	RUBZ-32/46	85	RVV35LRWD	26
REDWV38S-20S	13	ROPD-106	87	RSWV22LR	16	RUBZ-40/52	85	RVV38SRWD	26
REDWV38S-25S	13	ROPD-106.4	87	RSWV25SM	16	RUBZ-50/64	85	RVV42LRWD	26
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REDWV42L-18L	13	ROPD-209.5	87	RSWV28LR	16	RUE-1000-500	57	RVV8LRWD	26
REDWV42L-22L	13	ROPD-210	87	RSWV30SM	16	RUE-1000-750	57	RVV8SRWD	26
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REDWV8L-6L	13	ROPD-212.7	87	RSWV35LM	16	RUE-250-125	57	RVZ10LRWD	26
REDWV8S-6S	13	ROPD-310	87	RSWV35LR	16	RUE-312-125	57	RVZ10SMWD	26
RLD-12	263	ROPD-312	87	RSWV38SM	16	RUE-312-250	57	RVZ10SRWD	26
RLD-16	263	ROPD-312.7	87	RSWV38SR	16	RUE-375-125	57	RVZ12LMWD	26
RLD-20	263	ROPD-313.5	87	RSWV42LM	16	RUE-375-250	57	RVZ12LRWD	26
RLD-24	263	ROPD-314	87	RSWV42LR	16	RUE-375-312	57	RVZ12SMWD	26
RLD-32	263	ROPD-315	87	RSWV6LM	16	RUE-500-250	57	RVZ12SRWD	26
RLD-40	263	ROPD-316	87	RSWV6LR	16	RUE-500-312	57	RVZ14SMWD	26
RLD-48	263	ROPD-414	87	RSWV6SM	16	RUE-500-375	57	RVZ14SRWD	26
RLP-16	85	ROPD-415	87	RSWV6SR	16	RUE-625-375	57	RVZ15LMWD	26
RLP-22	85	ROPD-416	87	RSWV8LM	16	RUE-625-500	57	RVZ15LRWD	26
RON-106	87	ROPD-417.2	87	RSWV8LR	16	RUE-750-250	57	RVZ16SMWD	26
RON-106.4	87	ROPD-418	87	RSWV8SM	16	RUE-750-375	57	RVZ16SRWD	26
RON-108	87	ROPD-419	87	RSWV8SR	16	RUE-750-500	57	RVZ18LMWD	26
RON-208	87	ROPD-420	87	RU-10-6	62	RUE-875-250	57	RVZ18LRWD	26
RON-209.5	87	ROPD-421.3	87	RU-10-8	62	RUT-1000-375	57	RVZ20SMWD	26
RON-210	87	ROPD-422	87	RU-1000-500	55	RUT-1000-500	57	RVZ20SRWD	26
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RON-212.7	87	ROV-10S	49	RU-12-10	62	RUT-375-250	57	RVZ22LRWD	26
RON-312	87	ROV-12L	49	RU-12-6	62	RUT-500-250	57	RVZ25SMWD	26
RON-312.7	87	ROV-12S	49	RU-12-8	62	RUT-500-375	57	RVZ25SRWD	26
RON-313.5	87	ROV-14S	49	RU-16-10	62	RUT-625-375	57	RVZ28LMWD	26
RON-314	87	ROV-15L	49	RU-16-12	62	RUT-750-375	57	RVZ28LRWD	26
RON-315	87	ROV-16S	49	RU-18-12	62	RUT-750-500	57	RVZ30SMWD	26
RON-316	87	ROV-18L	49	RU-187-125	55	RV-10L-4RG	49	RVZ30SRWD	26
RON-414	87	ROV-20S	49	RU-25-18	62	RV-10S-4RG	49	RVZ35LMWD	26
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	RVZ42LRWD	26	SE1220	257	SKA-129	47	SNV25S/22L	19	SPCJ.06002	237
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3	RVZ6SRWD	26	SE1320	257	SKA-1612	47	SNV28/22L	19	SPCJ.06043	237
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6	RZ-12S-6RG	49	SE5103	257	SKA-2519	47	SNV35/18L	19	SPHN32-32RP	252
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	S71-3N4-4RP	252	SH3-62	242	SN38X6	17	SOK-50-REFILL	299	SPR08-25-70	264
	S71-3N6-6RP	252	SH3-62-BSPP	242	SN8X2	17	SOP-200	297	SPR12-10-100	264
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	SA6-6	33	SH6-62-BSPP	242	SNV10/8L	19	SP-C4	84	SPR16-10-70	264
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	SA8-8	33	SH8-62	242	SNV10L/10S	19	SP-C5-SS	84	SPR16-25-70	264
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T	SC16	31	SHG-45	287	SNV16/10S	19	SPBV.06002	232	SPS12-25-70	264
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	SE-070-10A-12	264	SHG100-016BG	275	SNV20/16S	19	SPBV.13202	232	SPS20-25-200	264
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SPVV.25003	236	SSL-A5	79	STOPFUVARIES	284	TE-10011	247	TE-7520 S	247
SPVV.25202	236	SSL-A5-SS	79	SV-10L	46	TE-10016	248	TE-7520 UV	247
SPVV.25203	236	SSL-A6	79	SV-10S	46	TE-10020	247	TE-7520 V	247
SPVV.30002	236	SSL-A6-SS	79	SV-12L	46	TE-10020 RV	247	TE-7521	247
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SPVV.30203	236	ST120	300	SV-15L	46	TE-10021	247	TE-TFF10021	244
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U-12-312	55	UNC7/16X11/2	157	VKA-6S	49	VSTI-4EO	49	WE12S-4RT	41
U-12-375	55	UNC7/16X13/4	157	VKA-8L	49	VSTI-6EO	49	WE12S-6N	41
U-12-500	55	UNH	77	VKA-8S	49	VSTI-8EO	49	WE12S-6RT	41
U-125	55	US-A	79	VRG	264	VWV1.1010.002	236	WE12S-8N	41
U-15	62	US-B2	79	VSD10L/SMMB	6	VWV1.1010.003	236	WE12S-8RT	41
U-15-500	55	UT-10	63	VSD12L/SMMB	6	VWV1.1313.002	236	WE14S-6N	41
U-16	62	UT-1000	57	VSD14SMMMB	6	VWV1.1313.003	236	WE14S-6RT	41
U-18	62	UT-12	63	VSD15LMMB	6	VWV1.2019.002	236	WE14S-8N	41
U-18-750	55	UT-125	57	VSD16SMMMB	6	VWV1.2019.003	236	WE14S-8RT	41
U-187	55	UT-14	63	VSD18LMMB	6	VWV1.2525.002	236	WE15L-12N	41
U-20-1000	55	UT-15	63	VSD20SMMMB	6	VWV1.2525.003	236	WE15L-12RT	41
U-20-500	55	UT-16	63	VSD22LMMB	6	VWV1.3031.002	236	WE15L-4RT	41
U-20-FT	62	UT-18	63	VSD25SMMMB	6	VWV1.3031.003	236	WE15L-6N	41
U-22	62	UT-187	57	VSD28LMMB	6	VWV1.3939.002	236	WE15L-6RT	41
U-25	62	UT-20	63	VSD30SMMMB	6	VWV1.3939.003	236	WE15L-8N	41
U-25-1000	55	UT-22	63	VSD35LMMB	6	VWV1.5051.002	236	WE15L-8RT	41
U-250	55	UT-25	63	VSD38SMMMB	6	VWV1.5051.003	236	WE16S-12N	41
U-3	62	UT-250	57	VSD42LMMB	6	W		WE16S-12RT	41
U-3-125	55	UT-3	63	VSD4LLMMB	6	W10-UEL	44	WE16S-6N	41
U-312	55	UT-312	57	VSD6L/SMMB	6	W10-UES	44	WE16S-6RT	41
U-375	55	UT-375	57	VSD6LLMMD	6	W12-UEL	44	WE16S-8N	41
U-4	62	UT-4	63	VSD8L/SMMB	6	W12-UES	44	WE16S-8RT	41
U-4-125	55	UT-500	57	VSD8LLMMD	6	W14-UES	44	WE18L-12N	41
U-4-250	55	UT-6	63	VSG	264	W15-UEL	44	WE18L-12RT	41
U-500	55	UT-625	57	VSK10L	6	W16-UES	44	WE18L-6N	41
U-6	62	UT-750	57	VSK10S	6	W18-UEL	44	WE18L-6RT	41
U-6-125	55	UT-8	63	VSK12L	6	W20-UES	44	WE18L-8N	41
U-6-250	55	UT-875	57	VSK12S	6	W22-UEL	44	WE18L-8RT	41
U-6-312	55	V		VSK14S	6	W25-UES	44	WE20S-12N	41
U-625	55	VFF1.2013.012	239	VSK15L	6	W28-UEL	44	WE20S-12RT	41
U-750	55	VFF1.2013.013	239	VSK16S	6	W30-UES	44	WE20S-8N	41
U-8	62	VFF1.2019.012	239	VSK18L	6	W35-UEL	44	WE20S-8RT	41
U-8-250	55	VFF1.2019.013	239	VSK20S	6	W38-UES	44	WE22L-12N	41
U-8-375	55	VFF1.2525.012	239	VSK22L	6	W42-UEL	44	WE22L-12RT	41
U-875	55	VFF1.2525.013	239	VSK25S	6	W6-UEL	44	WE22L-8N	41
UC-10	63	VFF1.3031.012	239	VSK28L	6	W6-UES	44	WE22L-8RT	41
UC-1000	57	VFF1.3031.013	239	VSK30S	6	W8-UEL	44	WE25S-16N	41
UC-12	63	VFF1.3939.012	239	VSK35L	6	W8-UES	44	WE28L-12N	41
UC-125	57	VFF1.3939.013	239	VSK38S	6	WAL020102	25	WE28L-16N	41
UC-16	63	VFH1.2019.012	239	VSK42L	6	WAL020104	25	WE28L-16RT	41
UC-18	63	VFH1.2019.013	239	VSK6L	6	WAL020309	25	WE30S-20N	41
UC-20	63	VFH1.2525.012	239	VSK6S	6	WAL020324	25	WE35L-20N	41
UC-25	63	VFH1.2525.013	239	VSK8L	6	WAL610499	25	WE35L-20RT	41
UC-250	57	VFH1.3031.012	239	VSK8S	6	WAL610500	25	WE38S-24N	41
UC-3	63	VFH1.3031.013	239	VSM12X1.5WD	6	WAL610519	25	WE42L-24N	41
UC-312	57	VFH1.3939.012	239	VSD14X1.5WD	6	WALL-STATION	300	WE6L-2N	41

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0	WE6L-2RT	41	WEV28L1NPT	12	WF-WD30SVI	8	WHV-10L-4RG	48	WS 6 S	23
1	WE6L-4N	41	WEV4LL1/8NPT	12	WF-WD35L	8	WHV-10L-6G	48	WS 8 L	23
	WE6L-4RT	41	WEV4LLMK	12	WF-WD35LVI	8	WHV-10S-4RG	48	WS 8 S	23
2	WE6L-6N	41	WEV4LLRK	12	WF-WD38S	8	WHV-10S-6G	48	WSHOP-STATION	300
	WE6L-6RT	41	WEV6L1/8NPT	12	WF-WD38SVI	8	WHV-12L-4RG	48	WSV-10L-FT	47
	WE6L-8N	41	WEV6L11/8NPT	12	WF-WD42L	8	WHV-12L-6RG	48	WSV-10S-FT	47
3	WE6L-8RT	41	WEV6LLMK	12	WF-WD42LVI	8	WHV-12L-8RG	48	WSV-12L-FT	47
	WE6S-2RT	41	WEV6LLRK	12	WF-WD6L/S	8	WHV-12S-6RG	48	WSV-12S-FT	47
4	WE6S-4N	41	WEV6LMK	12	WF-WD8L/S	8	WHV-14S-8RG	48	WSV-14S-FT	47
	WE6S-4RT	41	WEV6LR1/4K	12	WFV10L35	25	WHV-15L-8RG	48	WSV-15L-FT	47
	WE6S-6N	41	WEV6LRK	12	WFV12L35	25	WHV-16S-8RG	48	WSV-16S-FT	47
5	WE6S-6RT	41	WEV6S1/4NPT	12	WFV15L35	25	WHV-18L-8RG	48	WSV-18L-FT	47
	WE6S-8N	41	WEV6SMK	12	WFV15L40	25	WHV-20S-12RG	48	WSV-20S-FT	47
6	WE6S-8RT	41	WEV6SRK	12	WFV16S35	25	WHV-22L-12RG	48	WSV-22L-FT	47
	WE8L-2N	41	WEV8L1/4NPT	12	WFV18L40	25	WHV-25S-16RG	48	WSV-25S-FT	47
7	WE8L-2RT	41	WEV8LL1/8NPT	12	WFV20S35	25	WHV-28L-16RG	48	WSV-28L-FT	47
	WE8L-4N	41	WEV8LLMK	12	WFV20S40	25	WHV-30S-20RG	48	WSV-30S-FT	47
8	WE8L-4RT	41	WEV8LLRK	12	WFV20S55	25	WHV-35L-20RG	48	WSV-35L-FT	47
	WE8L-6N	41	WEV8LMK	12	WFV22L40	25	WHV-38S-24RG	48	WSV-38S-FT	47
9	WE8L-6RT	41	WEV8LRK	12	WFV22L55	25	WHV-42L-24RG	48	WSV-42L-FT	47
A	WE8L-8N	41	WEV8S1/4NPT	12	WFV25S55	25	WHV-6L-2RG	48	WSV-6L-FT	47
	WE8L-8RT	41	WEV8SMK	12	WFV28L40	25	WHV-6S-4RG	48	WSV-6S-FT	47
B	WE8S-4N	41	WEV8SRK	12	WFV30S55	25	WHV-8L-4RG	48	WSV-8L-FT	47
	WE8S-4RT	41	WF-12	268	WFV35L40	25	WHV-8S-4RG	48	WSV-8S-FT	47
	WE8S-6N	41	WF-16	268	WFV35L55	25	WR10LA2M	7	WSV10L	13
B	WE8S-6RT	41	WF-20	268	WFV42L55	25	WR10LVIA2M	7	WSV10S	13
	WE8S-8N	41	WF-24	268	WG100-12B-100G	274	WR10SA2M	7	WSV12L	13
C	WE8S-8RT	41	WF-M 10 L NBR	8	WG100-12B-160G	274	WR12LA2M	7	WSV12S	13
	WEEV-06L-1/8	43	WF-M 10 L VI	8	WG100-12B-250G	274	WR12LVIA2M	7	WSV14S	13
D	WEEV-08L-1/4	43	WF-M 10 S NBR	8	WG100-12B-400G	274	WR12SA2M	7	WSV15L	13
	WEEV-10L-1/4	43	WF-M 10 S VI	8	WG100-12B-600G	274	WR12SVIA2M	7	WSV16S	13
E	WEEV-12L-3/8	43	WF-M 12 L NBR	8	WG100-12R-100G	274	WR15LA2M	7	WSV18L	13
	WEEV-15L-1/2	43	WF-M 12 L VI	8	WG100-12R-160G	274	WR15LVIA2M	7	WSV20S	13
F	WEEV-18L-1/2	43	WF-M 12 S NBR	8	WG100-12R-250G	274	WR16SA2M	7	WSV22L	13
	WEEV-22L-3/4	43	WF-M 12 S VI	8	WG100-12R-400G	274	WR16SVIA2M	7	WSV25S	13
G	WEEV-28L-1	43	WF-M 15 L NBR	8	WG100-12R-600G	274	WR18LA2M	7	WSV28L	13
	WEEV-35L-114	43	WF-M 15 L VI	8	WG100-38B-10G	274	WR18LVIA2M	7	WSV30S	13
H	WES 10 LRK	24	WF-M 16 S NBR	8	WG100-38B-16G	274	WR20SA2M	7	WSV35L	13
	WES 10 LRK 3/8	24	WF-M 16 S VI	8	WG100-38B-2.5G	274	WR20SVIA2M	7	WSV38S	13
	WES 10 SRK	24	WF-M 18 L NBR	8	WG100-38B-40G	274	WR22LA2M	7	WSV42L	13
H	WES 12 LRK	24	WF-M 18 L VI	8	WG100-38B-4G	274	WR22LVIA2M	7	WSV6L	13
	WES 12 LRK 1/4	24	WF-M 20 S NBR	8	WG100-38B-6G	274	WR25SA2M	7	WSV6S	13
	WES 12 SRK	24	WF-M 20 S VI	8	WG100-38R-10G	274	WR25SVIA2M	7	WSV8L	13
J	WES 14 SRK	24	WF-M 22 L NBR	8	WG100-38R-16G	274	WR28LA2M	7	WSV8S	13
	WES 15 LRK	24	WF-M 22 L VI	8	WG100-38R-2.5G	274	WR28LVIA2M	7	WTG100-120	273
K	WES 16 SRK	24	WF-M 25 S NBR	8	WG100-38R-40G	274	WR30SVIA2M	7	WTG100-200	273
	WES 18 LRK	24	WF-M 25 S VI	8	WG100-38R-4G	274	WR35LA2M	7	WTG100-60	273
L	WES 6 LRK	24	WF-M 28 L NBR	8	WG100-38R-6G	274	WR35LVIA2M	7	WTG100-TE-120	277
	WES 6 SRK	24	WF-M 28 L VI	8	WG63-14B-1.6G	274	WR38SA2M	7	WTG100-TE-200	277
M	WES 8 LRK	24	WF-M 30 S NBR	8	WG63-14B-100G	274	WR38SVIA2M	7	WTG100-TE-60	277
	WES 8 SRK	24	WF-M 30 S VI	8	WG63-14B-10G	274	WR42LA2M	7	WTG160-120	277
N	WEV10L1/4NPT	12	WF-M 35 L NBR	8	WG63-14B-160G	274	WR42LVIA2M	7	WTG160-60	277
	WEV10LMK	12	WF-M 35 L VI	8	WG63-14B-16G	274	WR6LA2M	7	WTG63-120	273
O	WEV10LR3/8K	12	WF-M 38 S NBR	8	WG63-14B-18G	274	WR6LVIA2M	7	WTG63-200	273
	WEV10LRK	12	WF-M 38 S VI	8	WG63-14B-2.5G	274	WR6SA2M	7	WTG63-60	273
P	WEV10S3/8NPT	12	WF-M 42 L NBR	8	WG63-14B-250G	274	WR6SVIA2M	7	WTG63160-120	277
	WEV10SMK	12	WF-M 42 L VI	8	WG63-14B-25G	274	WR8LA2M	7	WTG63160-60	277
Q	WEV12L1/4NPT	12	WF-M 6 L NBR	8	WG63-14B-400G	274	WR8LVIA2M	7	WV06S	13
	WEV12L3/8NPT	12	WF-M 6 L VI	8	WG63-14B-40G	274	WR8SVIA2M	7	WV08S	13
R	WEV12LMK	12	WF-M 6 S NBR	8	WG63-14B-4G	274	WRSLEEVE-100	288	WV10L	13
	WEV12LR1/2K	12	WF-M 6 S VI	8	WG63-14B-600G	274	WRSLEEVE-125	288	WV10S	13
S	WEV12LR1/4K	12	WF-M 8 L NBR	8	WG63-14B-60G	274	WRSLEEVE-150	288	WV12L	13
	WEV12LRK	12	WF-M 8 L VI	8	WG63-14B-6G	274	WRSLEEVE-175	288	WV12S	13
T	WEV12S3/8NPT	12	WF-M 8 S NBR	8	WG63-14B/-30HG	274	WRSLEEVE-200	288	WV14S	13
	WEV12SMK	12	WF-M 8 S VI	8	WG63-14R-1.6G	274	WRSLEEVE-25	288	WV15L	13
U	WEV12SRK	12	WF-WD10L/S	8	WG63-14R-100G	274	WRSLEEVE-75	288	WV16S	13
	WEV14S1/2NPT	12	WF-WD12L/S	8	WG63-14R-10G	274	WS 10 L	23	WV18L	13
V	WEV14SRK	12	WF-WD15L	8	WG63-14R-160G	274	WS 12 L	23	WV20S	13
	WEV15L1/2NPT	12	WF-WD16S	8	WG63-14R-16G	274	WS 12 S	23	WV22L	13
	WEV15LMK	12	WF-WD16SVI	8	WG63-14R-1G	274	WS 15 L	23	WV25S	13
	WEV15LR3/8K	12	WF-WD18L	8	WG63-14R-2.5G	274	WS 16 S	23	WV28L	13
	WEV15LRK	12	WF-WD18LVI	8	WG63-14R-250G	274	WS 18 L	23	WV30S	13
W	WEV16S1/2NPT	12	WF-WD20S	8	WG63-14R-25G	274	WS 20 S	23	WV35L	13
	WEV16SMK	12	WF-WD20SVI	8	WG63-14R-400G	274	WS 22 L	23	WV38S	13
	WEV16SRK	12	WF-WD22L	8	WG63-14R-40G	274	WS 25 S	23	WV42L	13
X	WEV18L1/2NPT	12	WF-WD22LVI	8	WG63-14R-4G	274	WS 28 L	23	WV4LL	13
	WEV18LMK	12	WF-WD25S	8	WG63-14R-600G	274	WS 30 S	23	WV6L	13
	WEV18LRK	12	WF-WD25SVI	8	WG63-14R-60G	274	WS 35 L	23	WV6LL	13
Y	WEV20S3/4NPT	12	WF-WD28L	8	WG63-14R-6G	274	WS 38 S	23	WV8L	13
	WEV22L3/4NPT	12	WF-WD28LVI	8	WG63-14R/-30HG	274	WS 42 L	23	WV8LL	13
Z	WEV25S1NPT	12	WF-WD30S	8	WG63-716B-1/9	273	WS 6 L	23		



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