SuperSwivels®



Hydraulic Live Swivels



Inline & 90° Swivels

Available In BSPP

Heavy Duty Ball Bearing, Rebuildable Design

Thousands of Swivel Options

www.SuperSwivels.com **763-784-5531**
Email: sales@superswivels.com **Fax:** 763-784-7423

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SuperSwivels®

Thousands of swivel options...
Our custom design service makes possibilities unlimited.

Super Swivels® provides superior products for a large wide range of hydraulic applications. Designing and manufacturing heavy-duty, leak free, live swivels at a competitive price with outstanding performance. These swivels are engineered for simplified connections, allowing direct connections to hose lines doing away with adapters.



For over 30 years Super Swivels has engineered the best heavy-duty and compact live swivel designs, allowing manufactures to create the most efficient and smallest products possible. Superior design and reliability features allows for the most efficient aftermarket modifications and repairs.





Visit our website for an online catalog of Stainless Steel Super Swivels® and those designed for the Car Wash Industry, or contact us for a print catalog.

All of our catalogs and individual pages are available to download online as a PDF file. Check our website for updated versions of catalogs and products.

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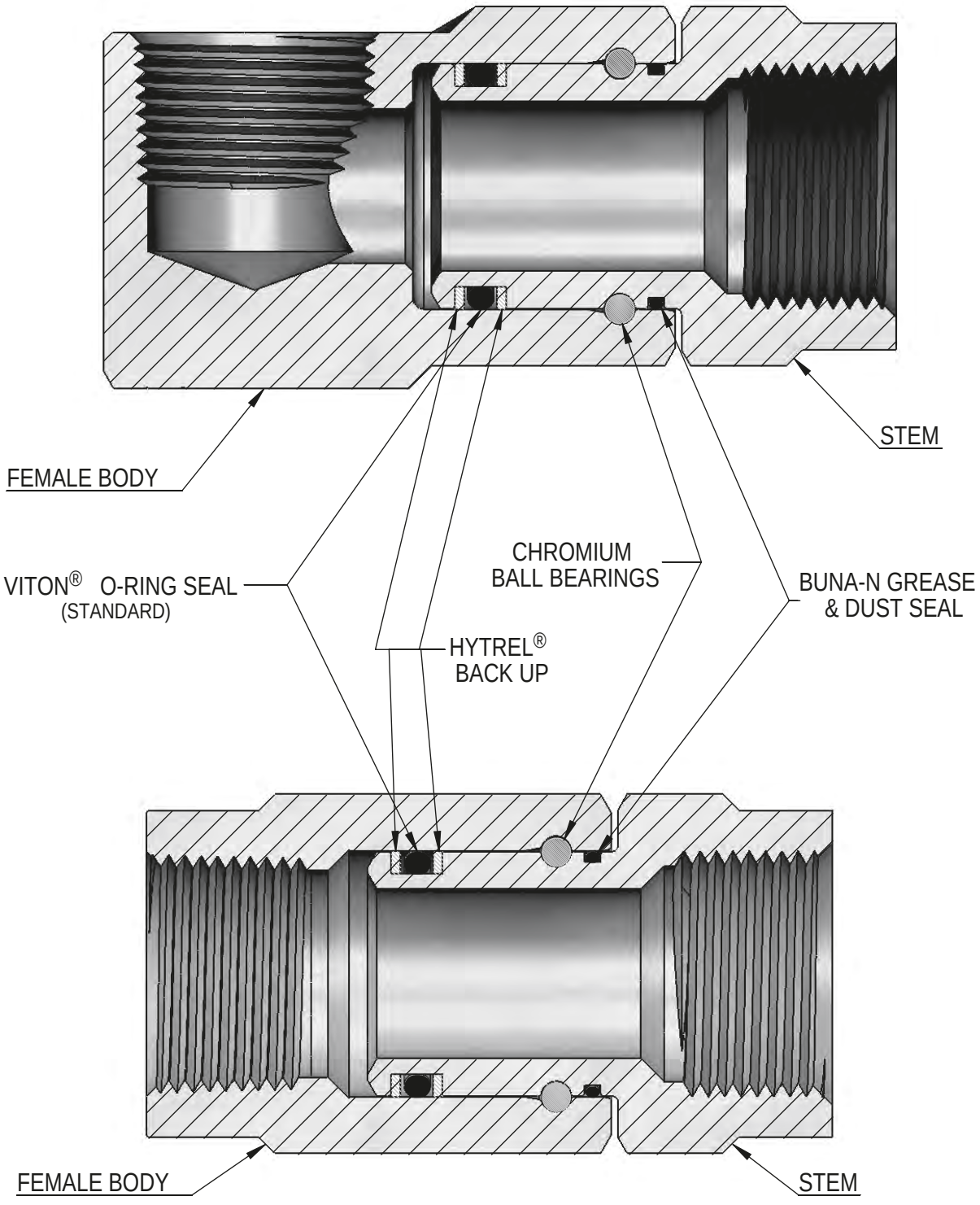
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Inline And 90° Hydraulic Swivels

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Switch Your Swivel!®

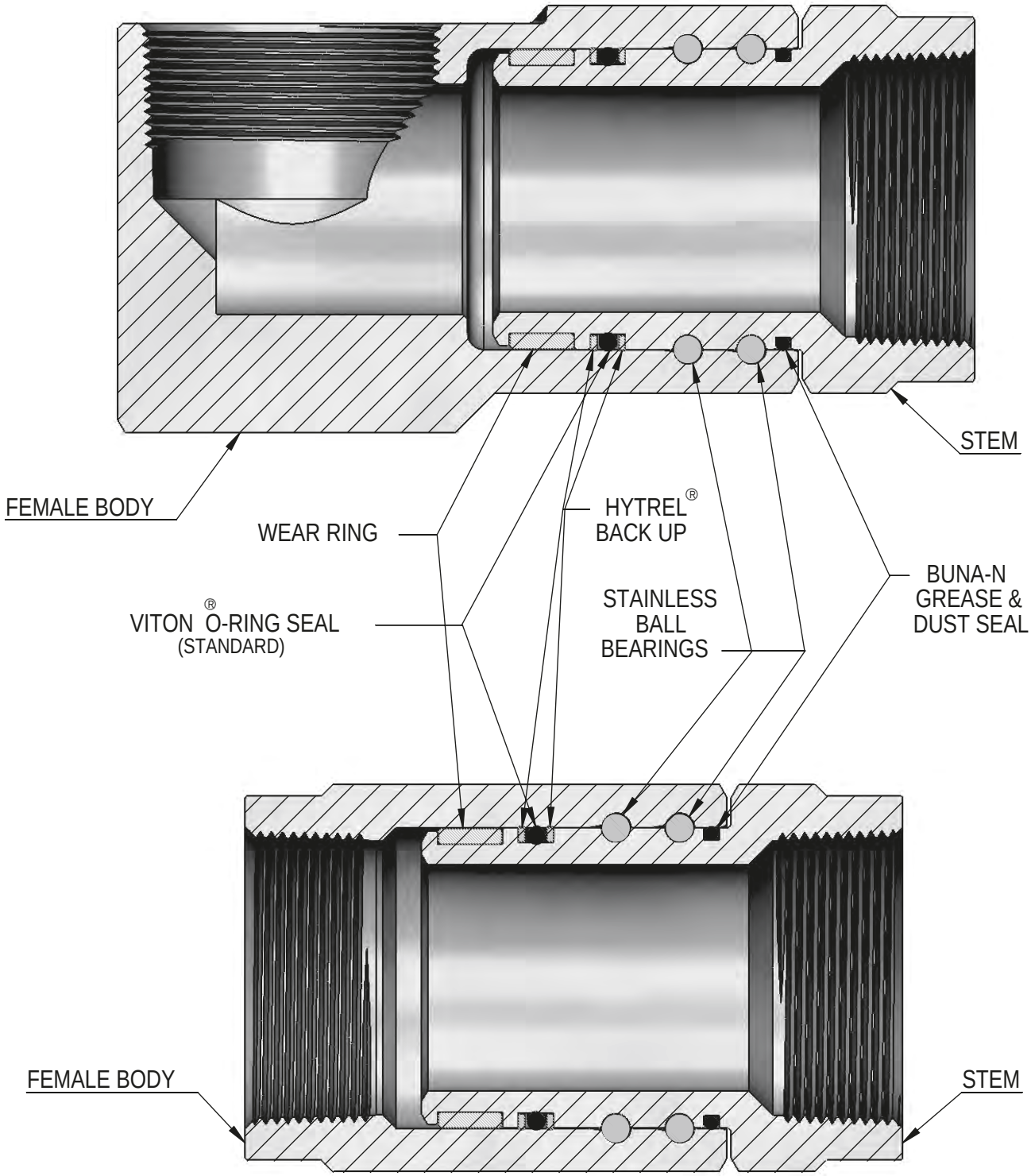
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Cross Sectional Drawings



Zinc Plated for Hydraulic Oil Applications
Sizes 4 through 16

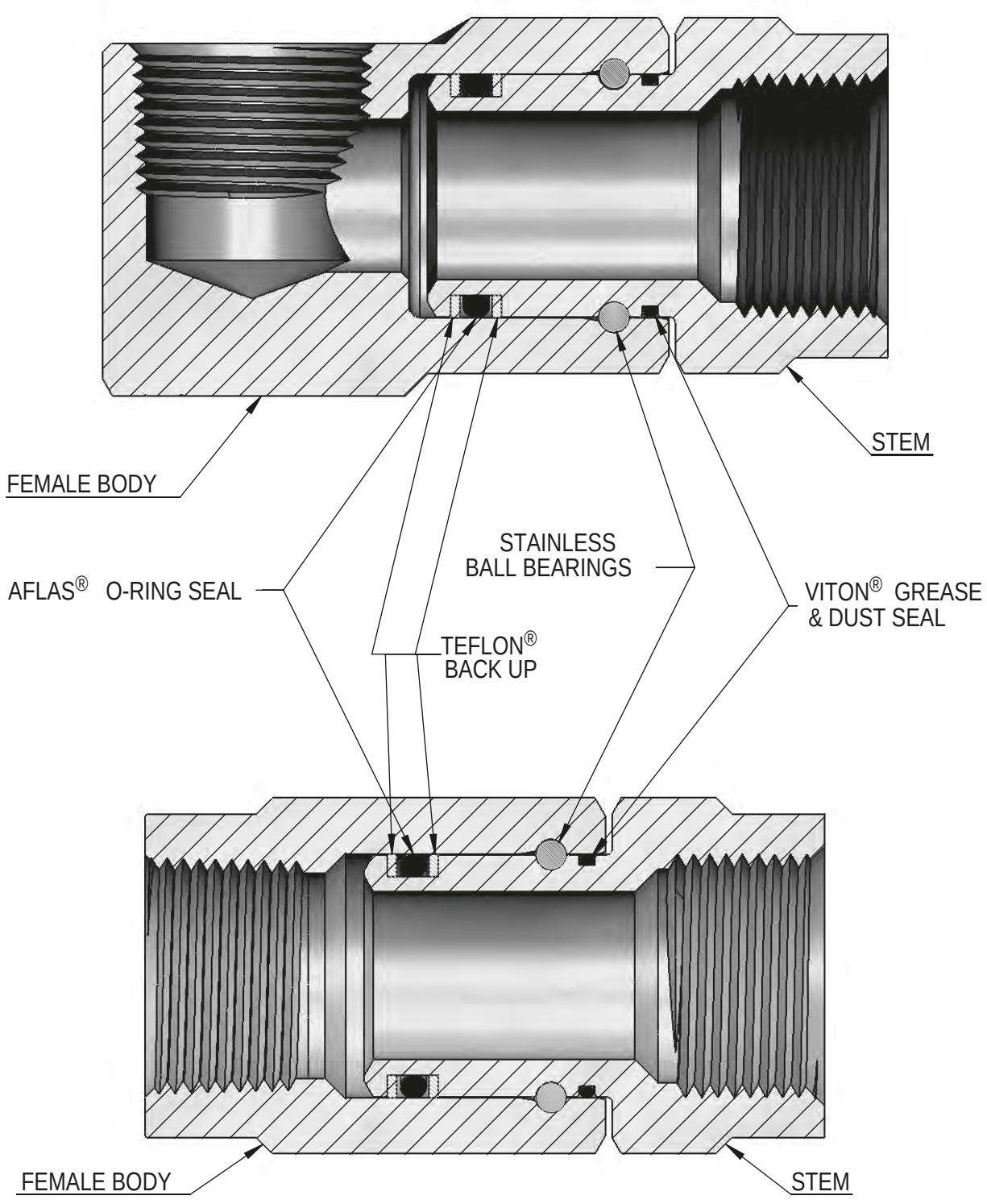
Cross Sectional Drawings



Nickel Plated for Hydraulic Oil Applications
Sizes 20 through 40

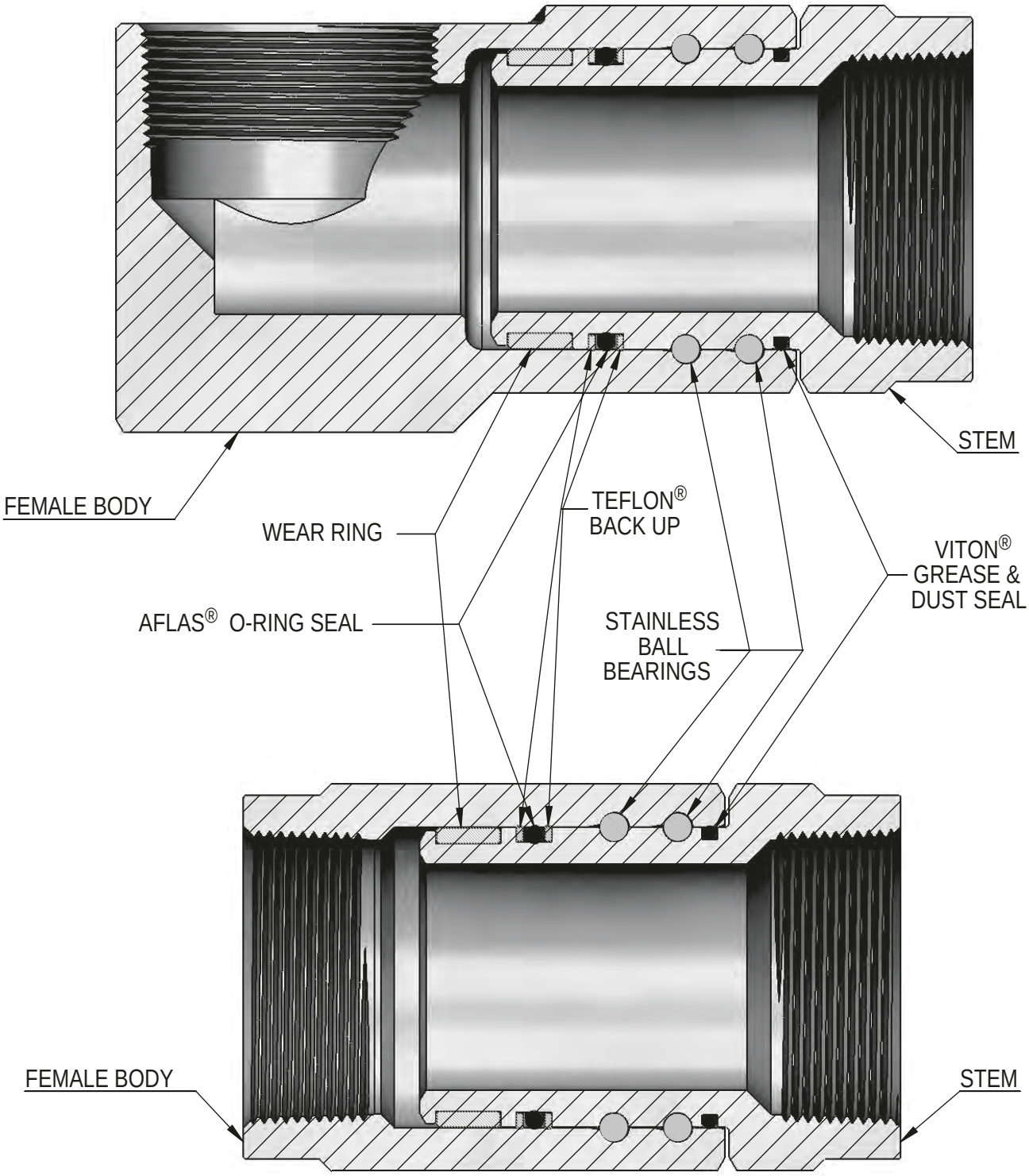
(Size 20 No Wear Ring)
Nickel Plating Standard on Size 24 and Larger

Cross Sectional Drawings



Nickel Plated for Corrosive Media Applications
Sizes 4 through 16

Cross Sectional Drawings



Nickel Plated for Corrosive Media Applications
Sizes 20 through 40

(Size 20 No Wear Ring)
Nickel Plating Standard on Size 24 and Larger

HOW TO ORDER

STEM					BODY		OPTIONS	
9	SS	8	FP	50	X	FP	50	Z - V

9 — **90°**
OMIT FOR IN-LINE

SS — SS-SINGLE PLANE
DP- DUAL PLANE

8 — SERIES (THROUGH HOLE)

FP — **THREAD TYPE**
FBSPP = Female BSPP
FFS = FEMALE FACE SEAL
FP = FEMALE PIPE (N.P.T.F.)
MBSPP = Male BSPP
MJ = MALE J.I.C. (37°)
MJB = MALE J.I.C. BULKHEAD (37°)
MO = MALE O-RING BOSS (O.R.B.)
MP = MALE PIPE (N.P.T.F.)
MFS = MALE FACE SEAL
MFSB = MALE FACE SEAL BULKHEAD

50 — **THREAD SIZE**
MULTIPLES OF 100 FOR N.P.T.F.
MULTIPLES OF 16 FOR J.I.C., O.R.B. & M.F.S.

X — **THREAD TYPE**
FBSPP = Female BSPP
FJ = FEMALE J.I.C. (37°) IN-LINE ONLY
FJS = FEMALE J.I.C. Swivel (37°) 90° ONLY
FO = FEMALE O-RING BOSS (O.R.B.) 90° ONLY
FP = FEMALE PIPE (N.P.T.F.)
MBSPP = Male BSPP
MJ = MALE J.I.C. (37°)
PS = PIPE SWIVEL (N.P.S.M.) 90° ONLY
MP = MALE PIPE (N.P.T.F.) 90° ONLY
MFS = MALE FACE SEAL

FP — **THREAD TYPE**
MULTIPLES OF 100 FOR N.P.T.F.
MULTIPLES OF 16 FOR J.I.C., O.R.B. & M.F.S.

50 — **THREAD SIZE**
MULTIPLES OF 100 FOR N.P.T.F.
MULTIPLES OF 16 FOR J.I.C., O.R.B. & M.F.S.

Z — **MATERIAL AND PLATING**
Ni = ELECTROLESS NICKEL (NICKEL PLATING STANDARD ON SIZES 24 AND LARGER)
304 = 304 STAINLESS STEEL (PIPE THREAD ONLY)
440 = 440c STAINLESS STEEL (PIPE THREAD ONLY)
Z = ZINC

V — **SEAL MATERIAL**
V = VITON®
AL = AFLAS®
ETP = Extreme Viton®
Other Seal Materials Available



REBUILDING KITS ARE AVAILABLE FOR ALL SWIVELS. SEE PAGE 72 (LIST).

WHEN ORDERING PLEASE SPECIFY PRESSURE, TYPE OF MEDIA, OR INDUSTRIAL OXYGEN USE.

SUPER SWIVELS® ARE NOT RECOMMENDED FOR BREATHING AIR/OXYGEN, OR STEAM.

ALL SWIVELS HAVE 4 TO 1 PROOF PRESSURE, EXCEPT 10,000 P.S.I. 3 TO 1 PROOF PRESSURE

SUPER SWIVELS® MAY ALSO BE ORDERED BY ITEM NUMBER. SEE PAGES 62-72 .

ANY SERIES STEM WILL FIT WITH THE SAME SERIES BODY. THEREFORE THERE ARE MANY COMBINATIONS THAT DO NOT APPEAR IN THIS CATALOG. CALL, FAX, OR E-MAIL YOUR SPECIAL REQUIREMENTS.

Options

Super Swivels® are available in numerous configurations, size, seal, and material options including custom design and manufacture. Our catalog illustrates the most common choices, many of which are in stock and ready to ship. Please contact us if you don't see what you want and we will work with you to fulfill those needs.

Order options include: Inline or 90°, single or dual plane, stem thread type and size, body thread type and size, material and plating, and seal type.

Base Material and Plating

Super Swivels are manufactured from Carbon Steel or 304 and 440c Stainless Steel.

Carbon Steel Zinc (Z) Plating is recommended for non-corrosive applications, i.e. hydraulic, pneumatic, etc.

Carbon Steel Nickel (NI) Plating is recommended for mildly corrosive environments, i.e. water, mild chemicals, solvents, etc.

304 Stainless Steel (304) is recommended for low pressure corrosive environments (in Pipe Thread Only).

440c Stainless Steel (440) is a martensitic, high carbon, magnetic stainless steel, heat-treated to maintain a high-pressure rating. Not as corrosion resistant as 300 Series Stainless Steel (in Pipe Thread Only).

Seal Material

(V) Viton® (Fluorocarbon) – For most petroleum based applications. (-15ºF to 250ºF)

(AL) Aflas® (Tetrafluoroethylene-propylene copolymer)
– Better resistance to many individual chemicals. For service in high temperature environments. (Low temperature limitations.) (+32ºF to 400ºF)

(ETP) Extreme Viton® – High resistance to many individual chemicals. (-6ºF to 437ºF)

Other seals available upon request include: Buna, EPR, Neoprene and Markez®.

Please specify oxygen use when ordering. Super Swivels are not recommended for breathing air or steam.



• Viton® and Extreme Viton® are registered trademarks of DuPont Dow® Elastomers. • Freon®, and Hytrel® are registered trademarks of the DuPont® Company.
• Aflas® is a registered trademark of Asahi® Glass Co LTD. • Skydrol® and Pydraul® are registered trademarks of Monsanto® Chemical Co.
• Markez® is a registered trademark of Marco Rubber & Plastics Products inc. All other ® and ™s are the property of their respective owners.

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Extra Heavy Duty™ Logo is the property of Remanco Hydraulics, Inc.

Super Swivels® are protected by U.S. Patent #5547233 and is the property of Remanco Hydraulics, Inc.

Seal Compatibility Chart

FLUIDS	VITON® (HYTREL® back-up) 25 in/Hg-5000 P.S.I. MAX* -15°F TO 250°F	AFLAS® (Extreme Viton® back-up) 25 in/Hg-5000 P.S.I. MAX* +32°F TO 400°F	ETP Extreme Viton (ETP back-up) 25 in/Hg-1500 MAX -6°F TO 437°F
automatic transmission fluids	A	A	A
acetone	C	C	B
air	A	A	A
asphalt	B	A	A
benzene	A	B	A
brake fluid (glycol)	C	A	A
brake fluid (mineral)	C	A	A
brake fluid (silicone)	C	A	A
carbon tetrachloride	A	C	A
engine oil (sf, sf cd)	A	A	A
ethylene glycol	A	A	A
FREON®	C	C	C
hydraulic fluids (petroleum)	A	A	A
hydrochloric acid	B	A	A
methyl ethyl ketone	C	C	B
naphtha	A	A	A
oxygen [1] (industrial/gaseous)	A	A	A
power steering fluid	C	A	A
salt water	B	A	A
SKYDROL 500 B4®	C	B	C
soap solutions	C	A	A
sulfuric acid	A	A	A
toluene	A	C	A
trichlorethylene	A	C	A
urethane	C	A	A
water	C	A	A

A=Satisfactory
B=Fair
C=Unsatisfactory

*2500 P.S.I. MAX PNEUMATIC

This chart is only a guide, several factors should be considered when selecting a sealing compound, for further information contact Super Swivels®.

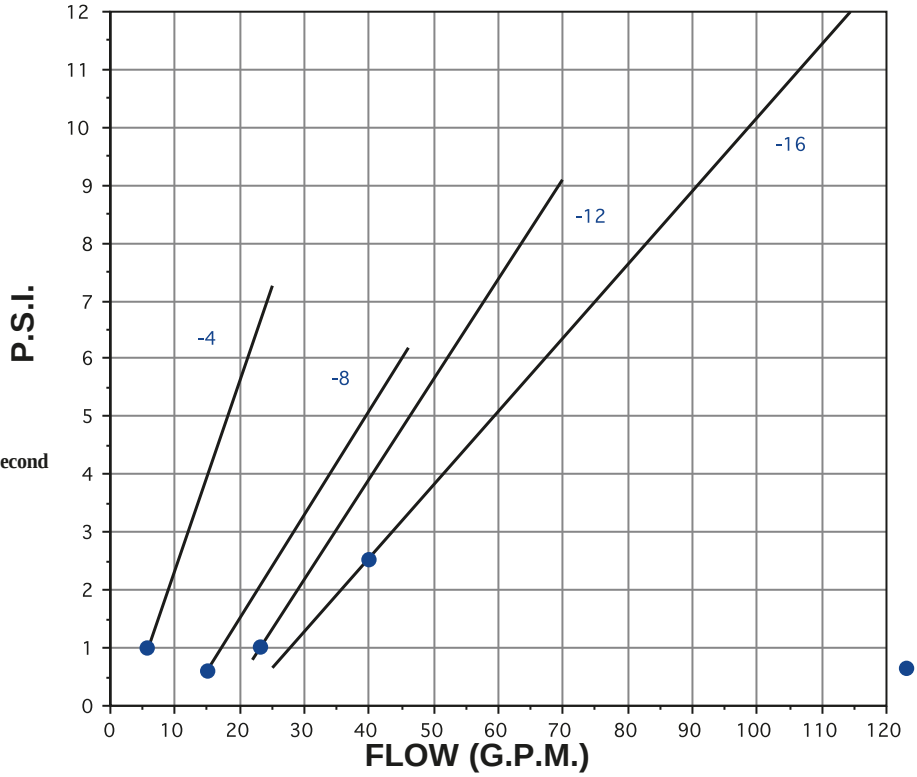
Note 1. Please specify oxygen use when ordering. Super Swivels® are not recommended and should NOT be used for breathing air/oxygen.

Not recommended for steam.

Pressure Drop "SS" Inline #4 - #16

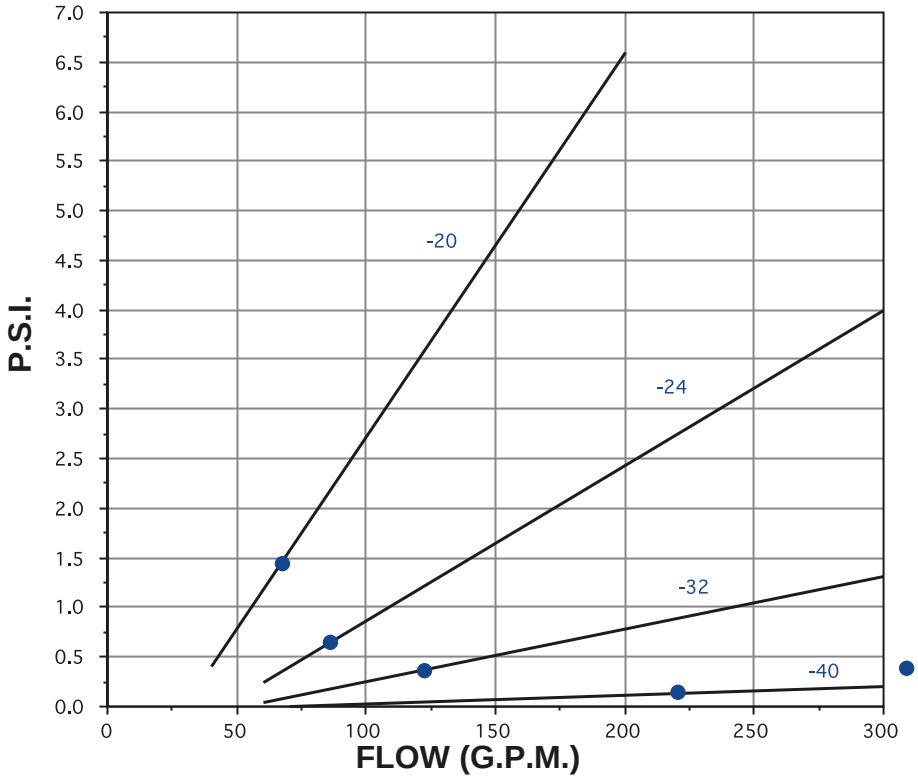
Quick Comparison
Gallons/Minute @ 20 Feet/Second
Inline & 90

Size	20 Feet/Sec. Fluid Velocity
#4	3
#7	8
#8	14
#12	23
#16	40
#20	68
#24	84
#32	124
#40	221



● = G.P.M. @ 20 Feet/Sec. Fluid Velocity

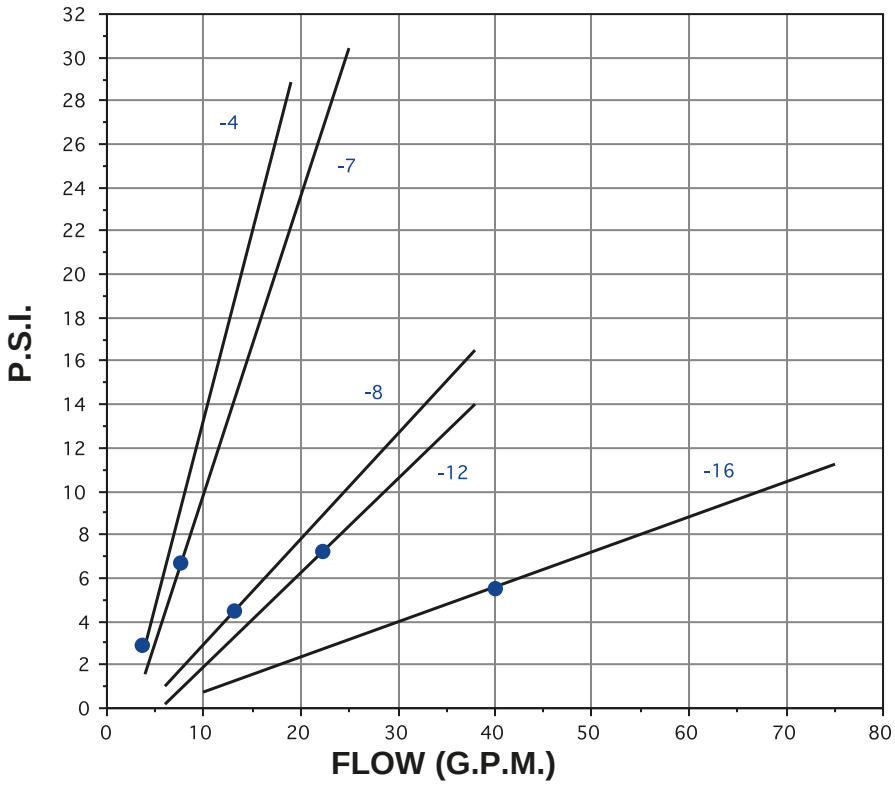
Pressure Drop "SS" Inline #20 - #40



● = G.P.M. @ 20 Feet/Sec. Fluid Velocity

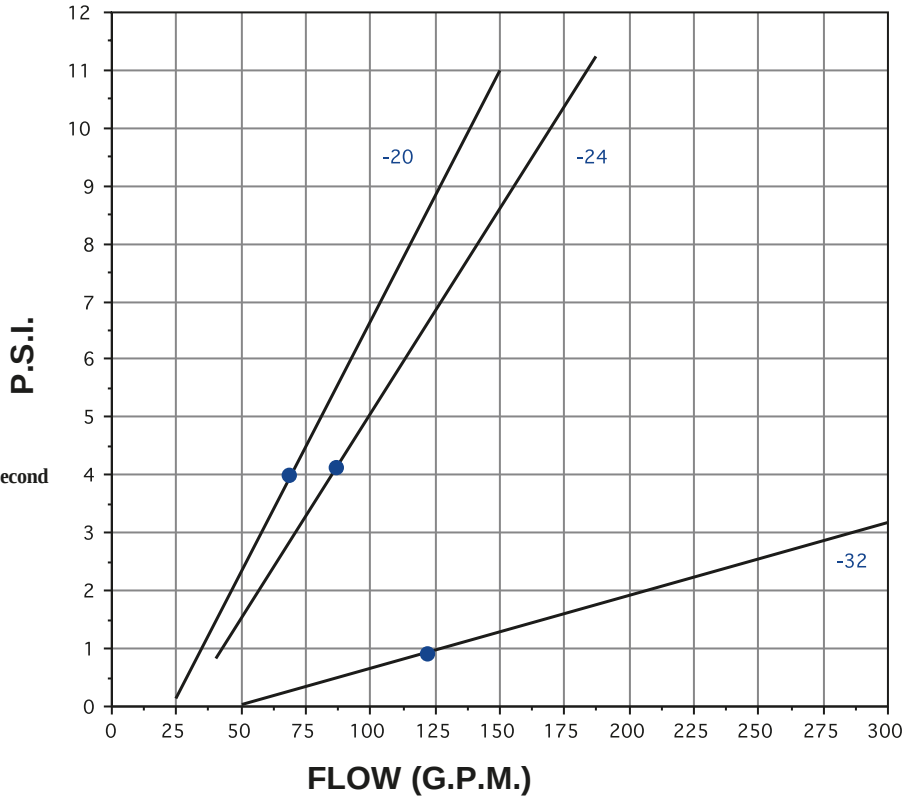
Tests conducted with 150 SUS oil at 100°F with Female Pipe (FP) X Female Pipe (FP)

Pressure Drop "9SS" 90° #4 - #16



● = G.P.M. @ 20 Feet/Sec. Fluid Velocity

Pressure Drop "9SS" 90° #20 - #32

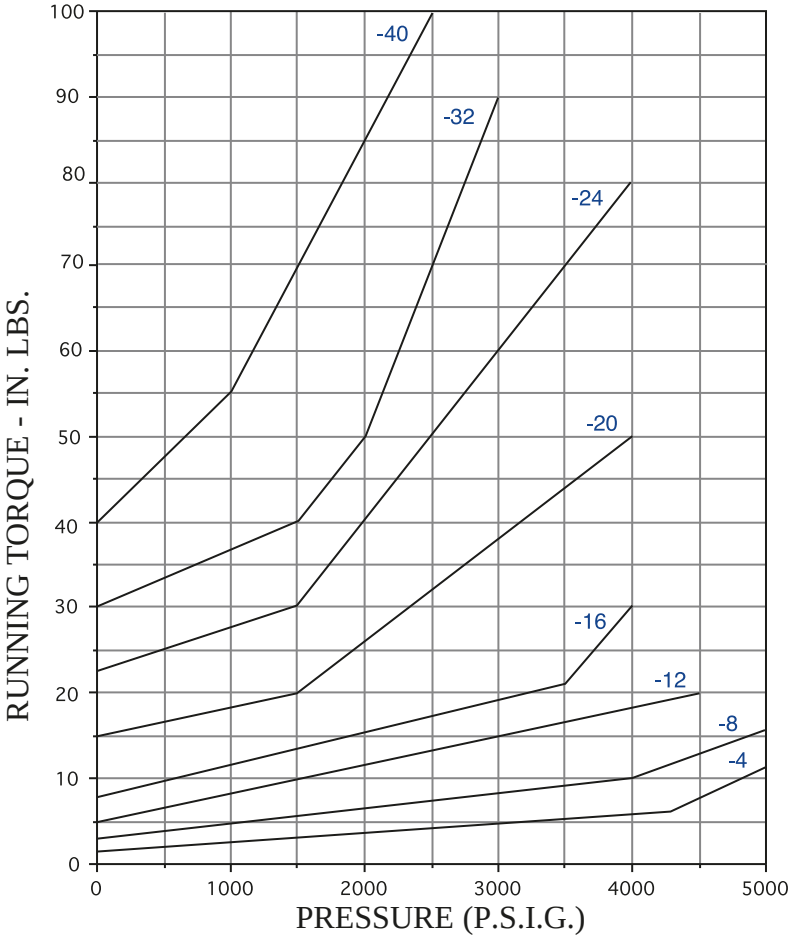


● = 20 Feet/Sec. Fluid Velocity

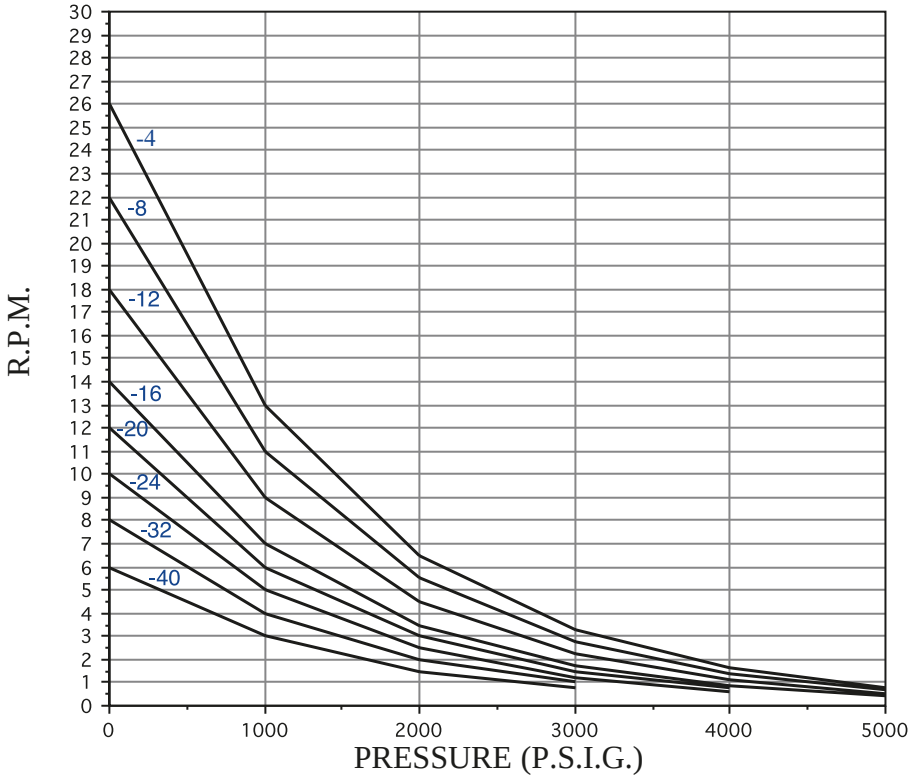
Quick Comparison
Gallons/Minute @ 20 Feet/Second
Inline & 90

Size	20 Feet/Sec. Fluid Velocity
#4	3
#7	8
#8	14
#12	23
#16	40
#20	68
#24	84
#32	124
#40	221

Rotating Torque vs. Pressure



R.P.M. vs. P.S.I.



Inline Swivels

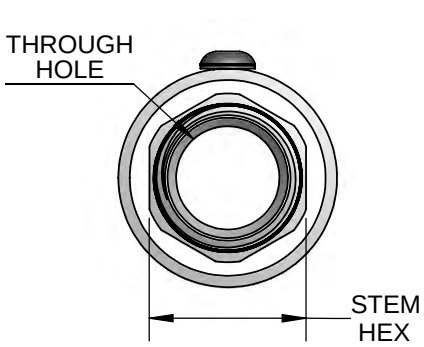


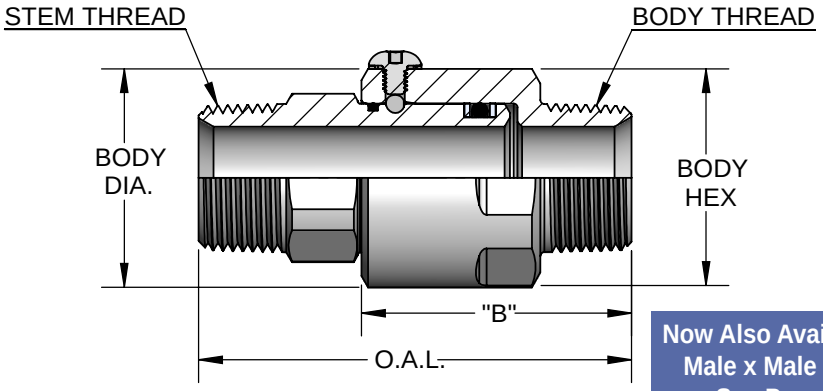
Switch Your Swivel!®

Inline Swivels rotating joints provide for minimal friction allowing free movement of hoses and piping in fluid conducting power systems. The compact design fits in tight areas. Super Swivels one piece barrel and stem with integrated ball bearing race design withstands heavy side loads preventing premature seal wear and leaks. This pass-through inline design is the most standard configuration in live swivels. Super Swivels connect directly to hose lines without adapters reducing overall costs of hydraulics. Inline sizes range from ⅛" through 2½" body thread with numerous fittings, finishes and seal configurations.

www.SuperSwivels.com **763-784-5531**
Email: sales@superswivels.com **Fax: 763-784-7423**

Male Pipe (N.P.T.F.) X Male Pipe (N.P.T.F.)





Not Available In Stainless Steel!

Now Also Available In Male x Male BSPP See Page 52

PART NUMBER	O.A.L.	DIM. B	STEM THREAD	BODY THREAD	STEM HEX	BODY DIA.	BODY HEX	MAX P.S.I.G.	THROUGH HOLE
SS 4 MP 25 X MP 25	2.380	1.650	1/4-18 N.P.T.F.	1/4-18 N.P.T.F.	0.625	HEX	1.000	5000	0.250
SS 4 MP 38 X MP 38	2.460	1.650	3/8-18 N.P.T.F.	3/8-18 N.P.T.F.	0.750	HEX	1.000	5000	0.250
SS 8 MP 38 X MP 38	2.810	1.700	3/8-18 N.P.T.F.	3/8-18 N.P.T.F.	1.000	1.290	1.187	5000	0.406
SS 8 MP 50 X MP 50	2.940	1.750	1/2-14 N.P.T.F.	1/2-14 N.P.T.F.	1.000	1.480	1.375	5000	0.530
SS 12 MP 75 X MP 75	3.040	1.850	3/4-14 N.P.T.F.	3/4-14 N.P.T.F.	1.125	1.675	1.560	4500	0.689
SS 16 MP 100 X MP 100	3.800	2.370	1-11 1/2 N.P.T.F.	1-11 1/2 N.P.T.F.	1.375	1.917	1.812	4000	0.906
SS 20 MP 125 X MP 125	4.090	2.580	1 1/4-11 1/2 N.P.T.F.	1 1/4-11 1/2 N.P.T.F.	1.750	2.357	2.187	4000	1.181
SS 24 MP 150 X MP 150	4.780	3.100	1 1/2-11 1/2 N.P.T.F.	1 1/2-11 1/2 N.P.T.F.	2.000	2.557	2.375	4000	1.312
SS 32 MP 200 X MP 200	5.225	3.625	2-11 1/2 N.P.T.F.	2-11 1/2 N.P.T.F.	2.500	3.055	2.875	3000	1.781

Inline Swivels ...Continues on page 14

THOUSANDS OF SWIVEL OPTIONS

New 32 Series Size Swivel Items





- SS 32 MJ 32 X FP 200 — Male J.I.C. (37°) X Female Pipe (N.P.T.F.) - Page 15
- SS 32 MJ 32 X FJ 32 — Male J.I.C. (37°) X Female J.I.C. (37°) - Page 15
- SS 32 MP 200 X MJ 32 — Male Pipe (N.P.T.F.) X Male J.I.C. (37°) - Page 18
- SS 32 MJ 32 X MJ 32 — Male J.I.C. (37°) X Male J.I.C. (37°) - Page 18
- 9 SS 32 MJ 32 X FP 200 90° — Male J.I.C. (37°) X Female Pipe (N.P.T.F.) - Page 25



STAINLESS STEEL



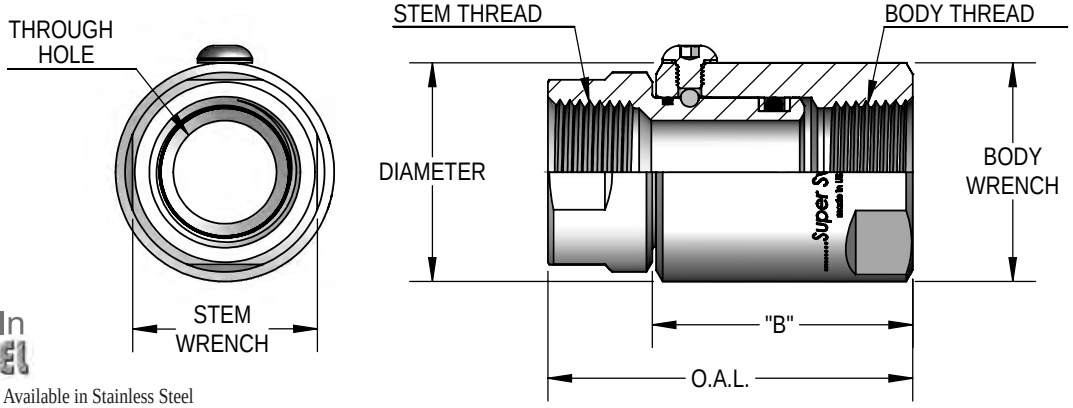
304 & 440c Catalog

Visit our website

- 304 nickel/chrome alloy, non-hardening, Austenitic, Non-magnetic stainless steel.
- 304 offers excellent chemical corrodents resistance. • 304 medium pressure rating.
- 440c high carbon – high chrome, heat treated, Martensitic, magnetic Stainless Steel.
- 440c offers chemical corrosion resistance. • 440c swivels have a high pressure rating.



Female Pipe (N.P.T.F.) X Female Pipe (N.P.T.F.)



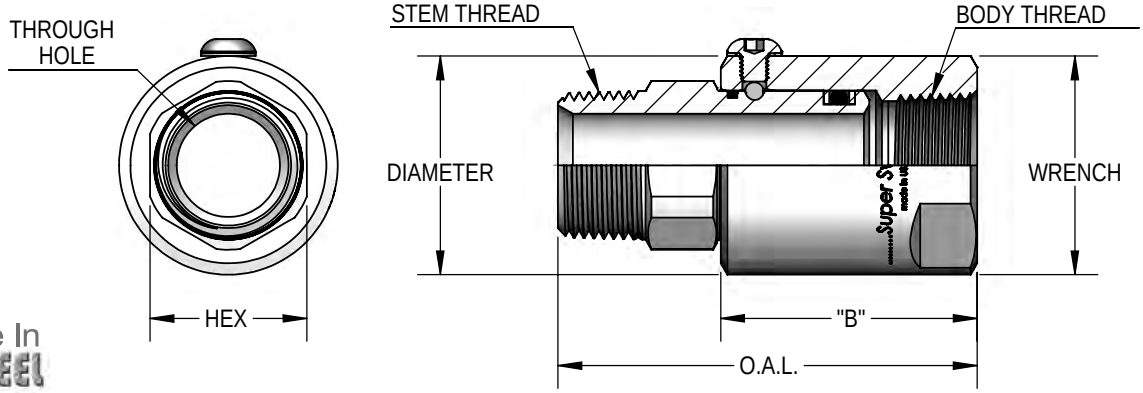
Also Available In STAINLESS STEEL

*SS 2 FP 12.5 X FP 12.5 NOT Available in Stainless Steel

Also Available EXTRA Heavy DUTY Starts Page 53

PART NUMBER	O.A.L	DIM. B	DIAMETER	STEM THREAD	BODY THREAD	BODY WRENCH	STEM WRENCH	MAX P.S.I.G.	THROUGH HOLE
*SS 2 FP 12.5 X FP 12.5	1.785	1.225	0.734	1/8-27 N.P.T.F.	1/8-27 N.P.T.F.	0.625	0.625	5000	0.157
SS 4 FP 25 X FP 25	2.320	1.720	0.992	1/4-18 N.P.T.F.	1/4-18 N.P.T.F.	0.875	0.750	5000	0.250
SS 8 FP 38 X FP 38	2.555	1.550	1.290	3/8-18 N.P.T.F.	3/8-18 N.P.T.F.	1.125	0.875	5000	0.530
SS 8 FP 50 X FP 50	2.480	1.650	1.480	1/2-14 N.P.T.F.	1/2-14 N.P.T.F.	1.250	1.125	5000	0.530
SS 12 FP 75 X FP 75	2.685	1.850	1.675	3/4-14 N.P.T.F.	3/4-14 N.P.T.F.	1.500	1.375	4500	0.689
SS 16 FP 100 X FP 100	3.200	2.250	1.918	1-11 1/2 N.P.T.F.	1-11 1/2 N.P.T.F.	1.750	1.625	4000	0.906
SS 20 FP 125 X FP 125	3.680	2.685	2.358	1 1/4-11 1/2 N.P.T.F.	1 1/4-11 1/2 N.P.T.F.	2.125	2.000	4000	1.181
SS 24 FP 150 X FP 150	4.050	2.950	2.548	1 1/2-11 1/2 N.P.T.F.	1 1/2-11 1/2 N.P.T.F.	2.375	2.375	4000	1.312
SS 32 FP 200 X FP 200	4.520	3.450	3.052	2-11 1/2 N.P.T.F.	2-11 1/2 N.P.T.F.	2.875	2.875	3000	1.781
SS 40 FP 250 X FP 250	5.165	3.785	3.572	2 1/2-8 N.P.T.F.	2 1/2-8 N.P.T.F.	3.375	3.375	2500	2.125

Male Pipe (N.P.T.F.) X Female Pipe (N.P.T.F.)

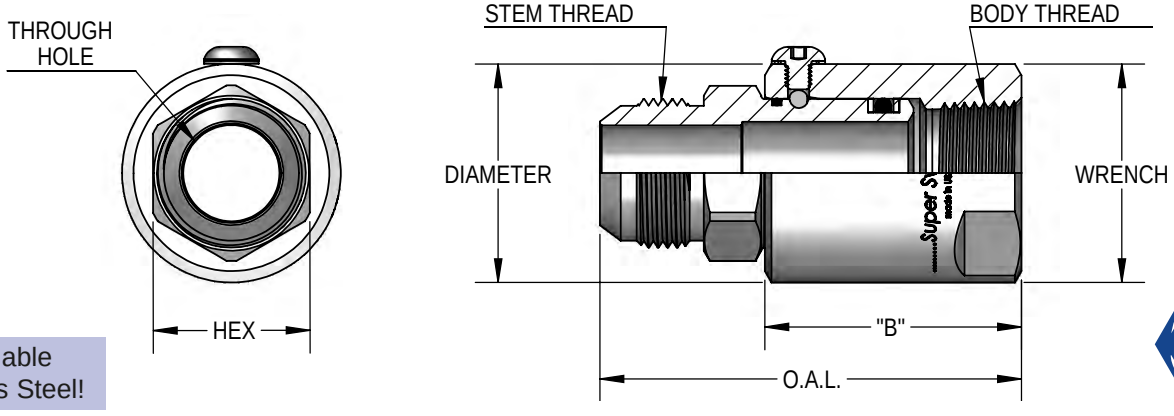


Also Available In STAINLESS STEEL

*SS 2 MP 12.5 X FP 12.5 NOT Available in Stainless Steel

PART NUMBER	O.A.L.	DIM. B	STEM THREAD	BODY THREAD	HEX	DIAMETER	WRENCH	MAX P.S.I.G.	THROUGH HOLE
*SS 2 MP 12.5 X FP 12.5	1.855	1.225	1/8-27 N.P.T.F.	1/8-27 N.P.T.F.	0.437	0.734	0.625	5000	0.157
SS 4 MP 25 X FP 25	2.450	1.720	1/4-18 N.P.T.F.	1/4-18 N.P.T.F.	0.625	0.992	0.875	5000	0.250
SS 8 MP 38 X FP 38	2.960	1.570	3/8-18 N.P.T.F.	3/8-18 N.P.T.F.	1.000	1.292	1.125	5000	0.406
SS 8 MP 50 X FP 50	2.840	1.650	1/2-14 N.P.T.F.	1/2-14 N.P.T.F.	1.000	1.480	1.250	5000	0.530
SS 12 MP 75 X FP 75	3.085	1.850	3/4-14 N.P.T.F.	3/4-14 N.P.T.F.	1.125	1.675	1.500	4500	0.689
SS 16 MP 100 X FP 100	3.675	2.250	1-11 1/2 N.P.T.F.	1-11 1/2 N.P.T.F.	1.375	1.917	1.750	4000	0.906
SS 20 MP 125 X FP 125	4.190	2.685	1 1/4-11 1/2 N.P.T.F.	1 1/4-11 1/2 N.P.T.F.	1.750	2.357	2.125	4000	1.181
SS 24 MP 150 X FP 150	4.625	2.950	1 1/2-11 1/2 N.P.T.F.	1 1/2-11 1/2 N.P.T.F.	2.000	2.550	2.375	4000	1.312
SS 32 MP 200 X FP 200	5.050	3.450	2-11 1/2 N.P.T.F.	2-11 1/2 N.P.T.F.	2.500	3.055	2.875	3000	1.781

Male J.I.C. (37°) X Female Pipe (N.P.T.F.)

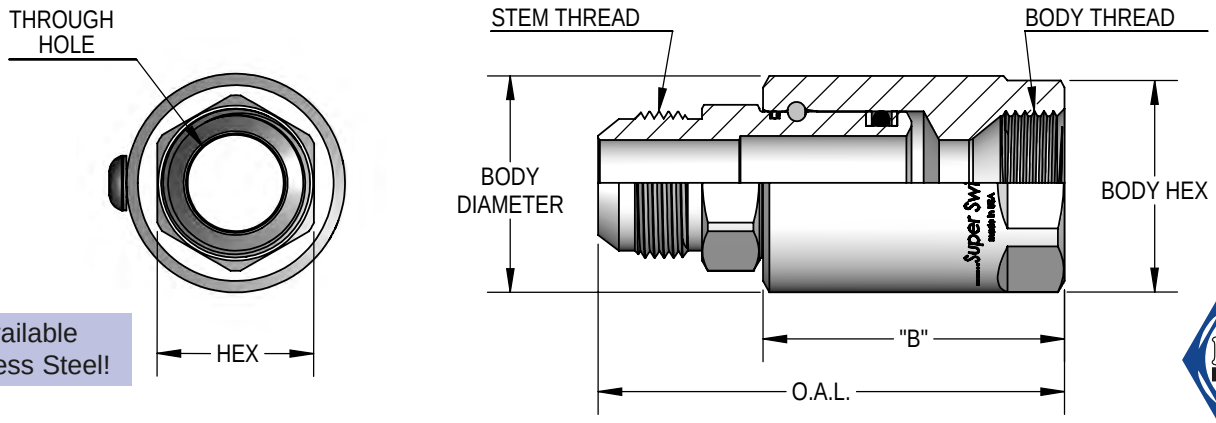


Not Available In Stainless Steel!

Also Available EXTRA Heavy DUTY Starts Page 53

PART NUMBER	O.A.L	DIM. B	STEM THREAD	BODY THREAD	STEM HEX	DIAMETER	WRENCH	MAX P.S.I.G.	THROUGH HOLE
SS 4 MJ 6 X FP 25	2.670	1.720	9/16-18 U.N.	1/4-18 N.P.T.F.	0.625	0.990	0.875	5000	0.250
SS 8 MJ 6 X FP 38	2.555	1.575	9/16-18 U.N.	3/8-18 N.P.T.	1.00	1.292	1.125	5000	0.297
SS 8 MJ 8 X FP 38	2.655	1.575	3/4-16 U.N.	3/8-18 N.P.T.F.	1.000	1.292	1.125	5000	0.406
SS 8 MJ 8 X FP 50	2.740	1.650	3/4-16 U.N.	1/2-14 N.P.T.F.	1.000	1.480	1.250	5000	0.406
SS 8 MJ 10 X FP 50	2,840	1.650	7/8-14 U.N.	1/2-14 N.P.T.F.	1.000	1.480	1.250	5000	0.484
SS 12 MJ 12 X FP 75	3.210	1.850	1 1/16-12 U.N.	3/4-14 N.P.T.F.	1.125	1.675	1.500	4500	0.609
SS 16 MJ 16 X FP 100	3.700	2.225	1 5/16-12 U.N.	1-11 1/2 N.P.T.F.	1.375	1.917	1.750	4000	0.844
SS 20 MJ 20 X FP 125	4.230	2.685	1 5/8-12 U.N.	1 1/4-11 1/2 N.P.T.F.	1.750	2.357	2.125	4000	1.078
SS 24 MJ 24 X FP 150	4.715	2.950	1 7/8-12 U.N.	1 1/2-11 1/2 N.P.T.F.	2.000	2.547	2.375	4000	1.312
SS 32 MJ 32 X FP 200	5.465	3.450	2 1/2-12 U.N.	2-11 1/2 N.P.T.F.	2.625	2.875	3.052	3000	1.780

Male J.I.C. (37°) X Female J.I.C. (37°)

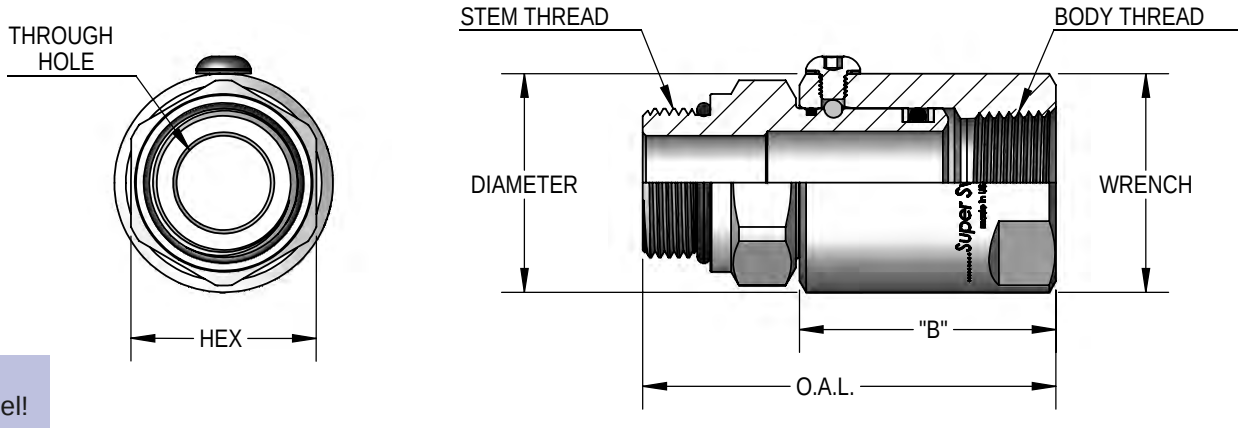


Not Available In Stainless Steel!

Also Available EXTRA Heavy DUTY Starts Page 53

PART NUMBER	O.A.L	DIM. B	STEM THREAD	BODY THREAD	STEM HEX	BODY HEX/WRENCH	BODY DIA.	MAX P.S.I.G.	THROUGH HOLE
SS 4 MJ 4 X FJ 4	2.578	1.648	7/16-20 U.N.	7/16-20 U.N.	0.625	1.000	HEX	5000	0.172
SS 4 MJ 5 X FJ 5	2.578	1.648	1/2-20 U.N.	1/2-20 U.N.	0.625	1.000	HEX	5000	0.234
SS 4 MJ 6 X FJ 6	2.770	1.820	9 /16-18 U.N.	9/16-18 U.N.	0.625	1.000	HEX	5000	0.250
SS 8 MJ 8 X FJ 8	3.035	1.950	3/4-16 U.N.	3/4-16 U.N.	1.000	1.375	1.480	5000	0.406
SS 8 MJ 10 X FJ 10	3.235	2.050	7/8-14 U.N.	7/8-14 U.N.	1.000	1.375	1.480	5000	0.484
SS 12 MJ 12 X FJ 12	3.505	2.145	1 1/16-12 U.N.	1 1/16-12 U.N.	1.125	1.500	1.675	4500	0.609
SS 16 MJ 16 X FJ 16	4.091	2.646	1 5/16-12 U.N.	1 5/16-12 U.N.	1.375	1.750	1.917	4000	0.844
SS 20 MJ 20 X FJ 20	4.395	2.850	1 5/8-12 U.N.	1 5/8-12 U.N.	1.750	2.125	2.357	4000	1.078
SS 24 MJ 24 X FJ 24	5.175	3.410	1 7/8-12 U.N.	1 7/8-12 U.N.	2.000	2.375	2.550	4000	1.312
SS 32 MJ 32 X FJ 32	6.080	4.075	2 1/2-12 U.N.	2 1/2-12 U.N.	2.625	2.875	3.052	3000	1.780

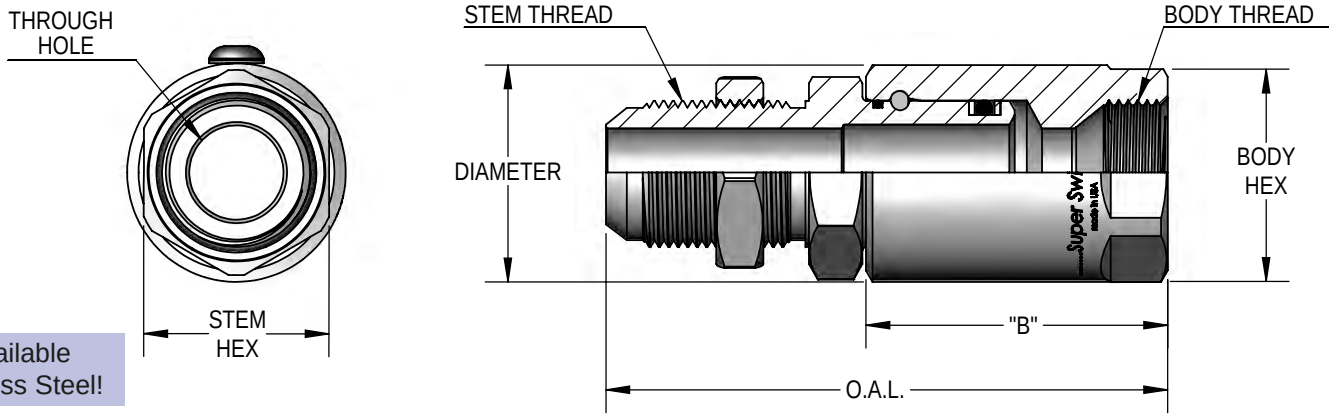
Male O-Ring (O.R.B.) X Female Pipe (N.P.T.F.)



Not Available In Stainless Steel!

PART NUMBER	O.A.L	DIM. B	STEM THREAD	BODY THREAD	HEX	DIAMETER	WRENCH	MAX P.S.I.G.	THROUGH HOLE
SS 4 MO 6 X FP 25	2.540	1.720	9/16-18 U.N.	1/4-18 N.P.T.F.	0.750	0.992	0.875	5000	0.250
SS 8 MO 8 X FP 38	2.510	1.550	3/4-16 U.N.	3/8-18 N.P.T.F.	1.000	1.292	1.125	5000	0.406
SS 8 MO 8 X FP 50	2.590	1.650	3/4-16 U.N.	1/2-14 N.P.T.F.	1.000	1.480	1.250	5000	0.406
SS 8 MO 10 X FP 50	2.710	1.650	7/8-14 U.N.	1/2-14 N.P.T.F.	1.000	1.480	1.250	5000	0.484
SS 12 MO 12 X FP 75	3.074	1.850	$1^{1}/_{16}$-12 U.N.	3/4-14 N.P.T.F.	1.375	1.675	1.500	4500	0.609
SS 16 MO 16 X FP 100	3.854	2.250	$1^{5}/_{16}$-12U.N.	1-$11^{1}/_{2}$ N.P.T.F.	1.625	1.917	1.750	4000	0.827
SS 20 MO 20 X FP 125	4.150	2.685	$1^{5}/_{8}$-12 U.N.	$1^{1}/_{4}$-$1^{1}/_{2}$ N.P.T.F.	1.875	2.357	2.125	4000	1.078
SS 24 MO 24 X FP 150	4.550	2.950	$1^{7}/_{8}$-12 U.N.	$1^{1}/_{2}$-$11^{1}/_{2}$ N.P.T.F.	2.125	2.547	2.375	4000	1.312

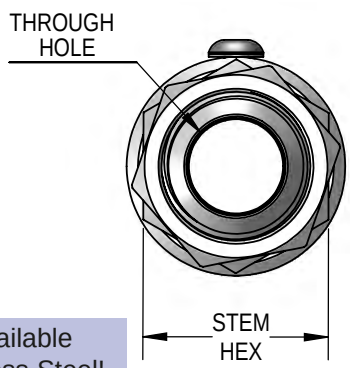
Male J.I.C. Bulkhead (37°) X Female J.I.C. (37°)



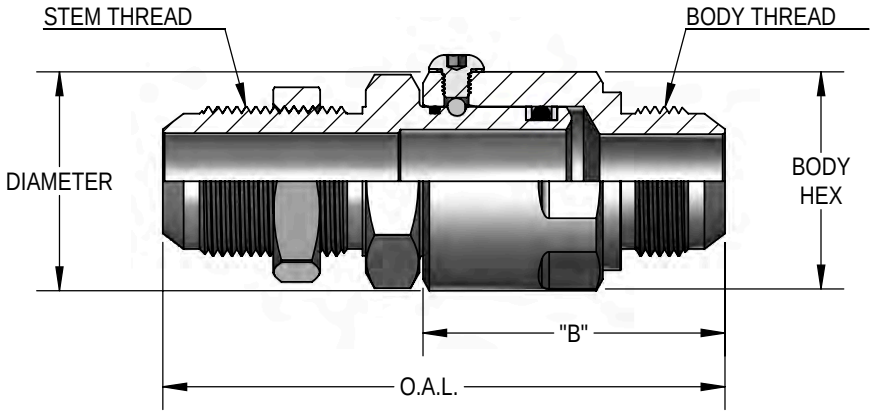
Not Available In Stainless Steel!

PART NUMBER	O.A.L.	DIM. B	STEM THREAD	BODY THREAD	STEM HEX	BODY HEX/WRENCH	BODY DIA.	MAX P.S.I.G.	THROUGH HOLE
SS 4 MJB 6 X FJ 6	3.410	1.820	9/16-18 U.N.	9/16-18 U.N.	.812	1.000	1.100	5000	0.250
SS 8 MJB 8 X FJ 8	3.770	1.950	3/4-16 U.N.	3/4-16 U.N.	1.000	1.375	1.480	5000	0.406
SS 8 MJB 10 X FJ 10	4.090	2.050	7/8-14 U.N.	7/8-14 U.N.	1.125	1.375	1.480	5000	0.484
SS 12 MJB 12 X FJ 12	4.425	2.145	$1^{1}/_{16}$-12 U.N.	$1^{1}/_{16}$-12 U.N.	1.375	1.500	1.675	4500	0.609
SS 16 MJB 16 X FJ 16	4.926	2.646	$1^{5}/_{16}$-12 U.N.	$1^{5}/_{16}$-12 U.N.	1.625	1.750	1.917	4000	0.844
SS 20 MJB 20 X FJ 20	5.290	2.850	$1^{5}/_{8}$-12 U.N.	$1^{5}/_{8}$-12 U.N.	1.875	2.125	2.357	4000	1.078

Male J.I.C. Bulkhead (37°) X Male J.I.C. (37°)

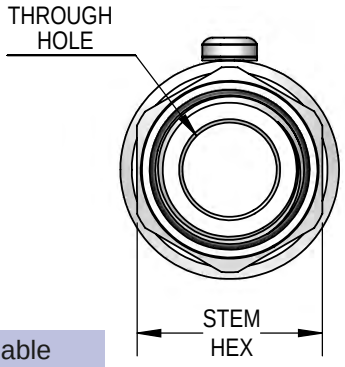


Not Available In Stainless Steel!

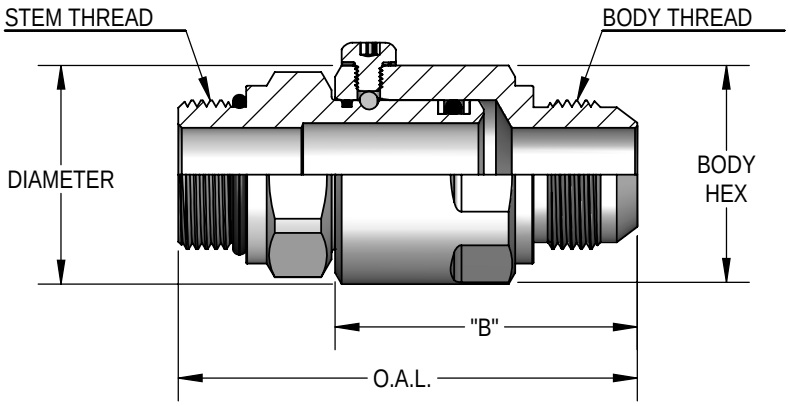


PART NUMBER	O.A.L	DIM. B	STEM THREAD	BODY THREAD	STEM HEX	BODY HEX/WRENCH	BODY DIA.	MAX P.S.I.G.	THROUGH HOLE
SS 4 MJB 6 X MJ 6	3.310	1.720	9/16-18 U.N.	9/16-18 U.N.	.812	1.000	1.100	5000	0.250
SS 8 MJB 8 X MJ 8	3.720	1.900	3/4-16 U.N.	3/4-16 U.N.	1.000	1.375	1.480	5000	0.406
SS 8 MJB 10 X MJ 10	4.090	2.050	7/8-14 U.N.	7/8-14 U.N.	1.125	1.375	1.480	5000	0.484
SS 12 MJB 12 X MJ 12	4.405	2.125	1 1/16-12 U.N.	1 1/16-12 U.N.	1.375	1.560	1.675	4500	0.609
SS 16 MJB 16 X MJ 16	4.930	2.650	1 5/16-12U.N.	1 5/16-12U.N.	1.625	1.810	1.917	4000	0.827
SS 20 MJB 20 X MJ 20	5.290	2.850	1 5/8-12 U.N.	1 5/8-12 U.N.	1.875	2.188	2.357	4000	1.078

Male O-Ring (O.R.B.) X Male J.I.C. (37°)

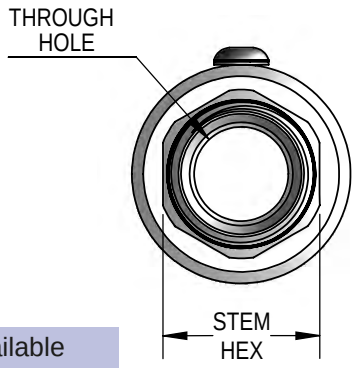


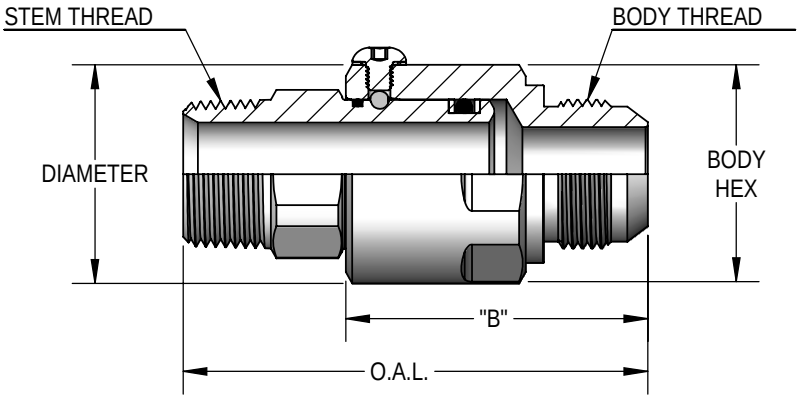
Not Available In Stainless Steel!



PART NUMBER	O.A.L	DIM. B	STEM THREAD	BODY THREAD	STEM HEX	BODY HEX/WRENCH	BODY DIA.	MAX P.S.I.G.	THROUGH HOLE
SS 4 MO 4 X MJ 4	2.540	1.720	7/16-20 U.N.	7/16-20 U.N.	0.625	1.000	HEX	5000	0.172
SS 4 MO 6 X MJ 6	2.540	1.720	9/16-18 U.N.	9/16-18 U.N.	0.750	1.000	HEX	5000	0.250
SS 8 MO 8 X MJ 8	2.838	1.900	3/4-16 U.N.	3/4-16 U.N.	1.000	1.375	1.480	5000	0.406
SS 8 MO 10 X MJ 8	2.960	1.900	7/8-14 U.N.	3/4-16 U.N.	1.000	1.375	1.480	5000	0.406
SS 8 MO 10 X MJ 10	3.110	2.050	7/8-14 U.N.	7/8-14 U.N.	1.000	1.375	1.492	5000	0.484
SS 12 MO 12 X MJ 12	3.480	2.250	1 1/16-12 U.N.	1 1/16-12 U.N.	1.375	1.560	1.675	4500	0.609
SS 16 MO 16 X MJ 16	4.024	2.650	1 5/16-12 U.N.	1 5/16-12U.N.	1.625	1.810	1.917	4000	0.827
SS 20 MO 20 X MJ 20	4.315	2.850	1 5/8-12 U.N.	1 5/8-12 U.N.	1.875	2.188	2.357	4000	1.078
SS 24 MO 24 X MJ 24	5.039	3.444	1 7/8-12 U.N.	1 7/8-12 U.N.	2.120	2.375	2.547	4000	1.312

Male Pipe (N.P.T.F.) X Male J.I.C. (37°)

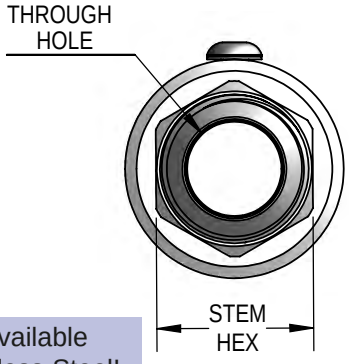


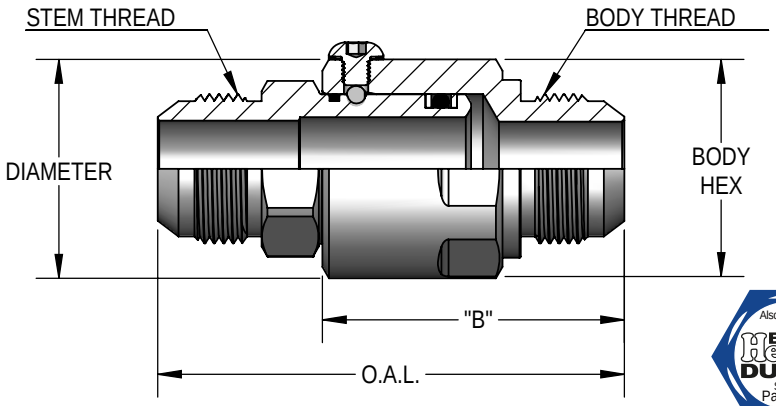


Not Available In Stainless Steel!

PART NUMBER	O.A.L	DIM. B	STEM THREAD	BODY THREAD	STEM HEX	BODY HEX/WRENCH	BODY DIA.	MAX P.S.I.G.	THROUGH HOLE
SS 4 MP 25 X MJ 4	2.450	1.720	1/4-18 N.P.T.F.	7/16-20 U.N.	0.625	1.000	HEX	5000	0.180
SS 4 MP 25 X MJ 6	2.450	1.720	1/4-18 N.P.T.F.	9/16-18 U.N.	0.625	1.000	HEX	5000	0.250
SS 4 MP 38 X MJ 6	2.530	1.720	3/8-18 N.P.T.F.	9/16-18 U.N.	0.750	1.000	HEX	5000	0.250
SS 8 MP 38 X MJ 8	3.010	1.900	3/8-18 N.P.T.F.	3/4-16 U.N.	1.000	1.375	1.480	5000	0.406
SS 8 MP 38 X MJ 10	3.160	2.050	3/8-18 N.P.T.F.	7/8-14 U.N.	1.000	1.375	1.480	5000	0.406
SS 8 MP 50 X MJ 8	3.090	1.900	1/2-14 N.P.T.F.	3/4-16 U.N.	1.000	1.375	1.480	5000	0.406
SS 8 MP 50 X MJ 10	3.230	2.050	1/2-14 N.P.T.F.	7/8-14 U.N.	1.000	1.375	1.480	5000	0.484
SS 12 MP 75 X MJ 12	3.360	2.125	3/4-14 N.P.T.F.	1 1/16-12 U.N.	1.125	1.560	1.675	4500	0.609
SS 16 MP 100 X MJ 16	4.075	2.650	1-11 1/2 N.P.T.F.	1 5/16-12U.N.	1.375	1.810	1.917	4000	0.827
SS 20 MP 125 X MJ 20	4.355	2.850	1 1/4-11 1/2 N.P.T.F.	1 5/8-12 U.N.	1.750	2.188	2.357	4000	1.078
SS 24 MP 150 X MJ 24	5.119	3.444	1 1/2-11 1/2 N.P.T.F.	1 7/8-12 U.N.	2.000	2.375	2.557	4000	1.312
SS 32 MP 200 X MJ 32	5.690	4.090	2-11 1/2 N.P.T.F.	2 1/2-12 U.N.	2.500	2.875	3.052	3000	1.780

Male J.I.C. (37°) X Male J.I.C. (37°)



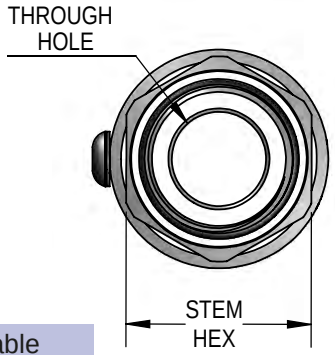


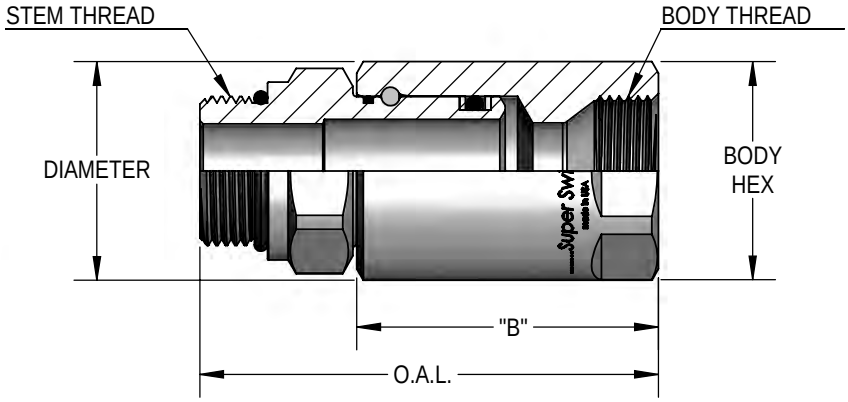
Not Available In Stainless Steel!

Also Available EXTRA Heavy DUTY Starts Page 53

PART NUMBER	O.A.L	DIM. B	STEM THREAD	BODY THREAD	STEM HEX	BODY HEX/WRENCH	BODY DIA.	MAX P.S.I.G.	THROUGH HOLE
SS 4 MJ 4 X MJ 4	2.650	1.720	7/16-20 U.N.	7/16-20 U.N.	0.625	1.000	HEX	5000	0.172
SS 4 MJ 6 X MJ 6	2.670	1.720	9/16-18 U.N.	9/16-18 U.N.	0.625	1.000	HEX	5000	0.250
SS 8 MJ 8 X MJ 8	2.985	1.900	3/4-16 U.N.	3/4-16 U.N.	1.000	1.375	1.480	5000	0.406
SS 8 MJ 10 X MJ 10	3.235	2.050	7/8-14 U.N.	7/8-14 U.N.	1.000	1.375	1.480	5000	0.484
SS 12 MJ 12 X MJ 12	3.485	2.125	1 1/16-12 U.N.	1 1/16-12 U.N.	1.125	1.560	1.675	4500	0.609
SS 16 MJ 16 X MJ 16	4.095	2.650	1 5/16-12U.N.	1 5/16-12U.N.	1.375	1.810	1.917	4000	0.827
SS 20 MJ 20 X MJ 20	4.395	2.850	1 5/8-12 U.N.	1 5/8-12 U.N.	1.750	2.189	2.357	4000	1.078
SS 24 MJ 24 X MJ 24	5.209	3.444	1 7/8-12 U.N.	1 7/8-12 U.N.	2.000	2.375	2.557	4000	1.312
SS 32 MJ 32 X MJ 32	6.100	4.090	2 1/2-12 U.N.	2 1/2-12 U.N.	2.625	2.875	3.052	3000	1.780

Male O-Ring (O.R.B.) X Female J.I.C. (37°)

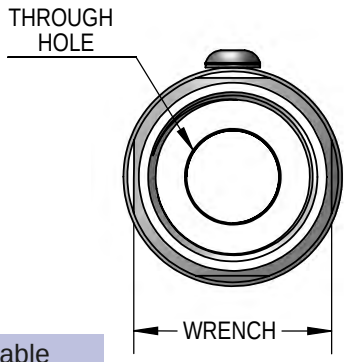


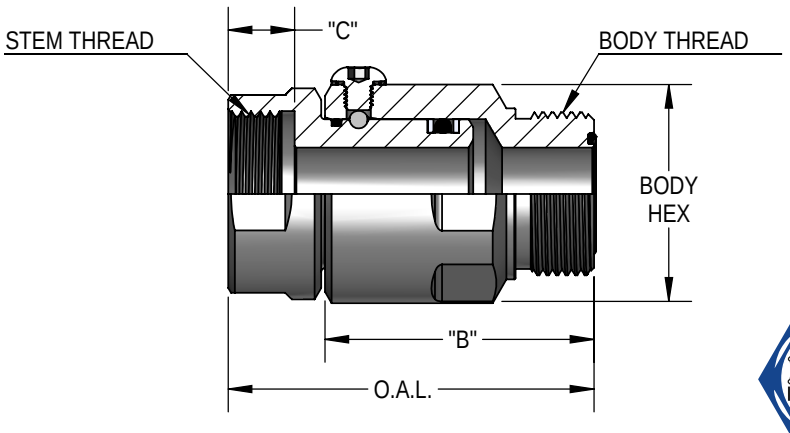


Not Available
In Stainless Steel!

PART NUMBER	O.A.L	DIM. B	STEM THREAD	BODY THREAD	STEM HEX	BODY HEX/WRENCH	BODY DIA.	MAX P.S.I.G.	THROUGH HOLE
SS 4 MO 6 X FJ 6	2.640	1.820	9/16-18 U.N.	9/16-18 U.N.	0.750	1.000	HEX	5000	0.250
SS 8 MO 8 X FJ 8	2.888	1.950	3/4-16 U.N.	3/4-16 U.N.	1.000	1.375	1.480	5000	0.406
SS 8 MO 10 X FJ 10	3.110	2.050	7/8-14 U.N.	7/8-14 U.N.	1.000	1.375	1.480	5000	0.484
SS 12 MO 12 X FJ 12	3.369	2.145	$1^{1}/_{16}$-12 U.N.	$1^{1}/_{16}$-12 U.N.	1.375	1.500	1.675	4500	0.609
SS 16 MO 16 X FJ 16	4.020	2.646	$1^{5}/_{16}$-12 U.N.	$1^{5}/_{16}$-12 U.N.	1.625	1.750	1.917	4000	0.827
SS 20 MO 20 X FJ 20	4.315	2.850	$1^{5}/_{8}$-12 U.N.	$1^{5}/_{8}$-12 U.N.	1.875	2.125	2.357	4000	1.078
SS 24 MO 24 X FJ 24	5.005	3.410	$1^{7}/_{8}$-12 U.N.	$1^{7}/_{8}$-12 U.N.	2.125	2.375	2.550	4000	1.312

Female Face Seal (F.F.S.) X Male Face Seal (M.F.S.)



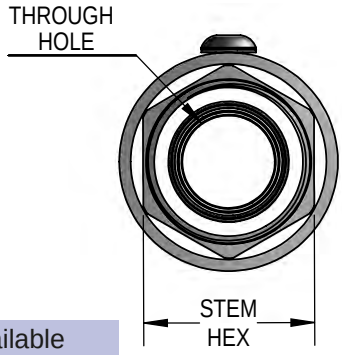


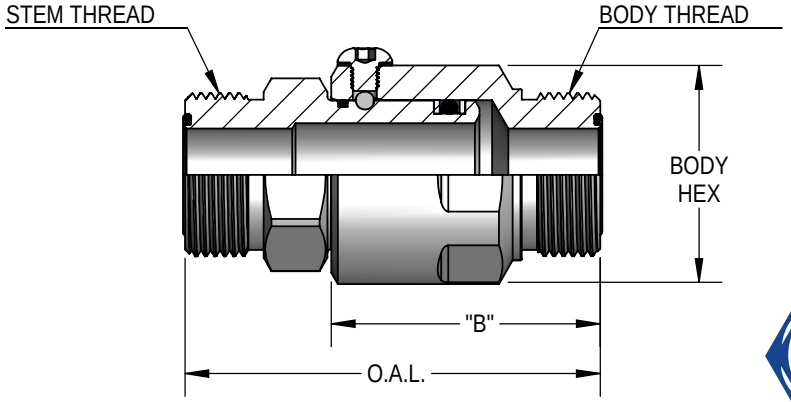
Not Available
In Stainless Steel!

Also Available
EXTRA heavy DUTY
Starts Page 53

PART NUMBER	O.A.L.	DIM. B	DIM. C	STEM THREAD	BODY THREAD	WRENCH	BODY HEX/WRENCH	MAX P.S.I.G.	THROUGH HOLE
SS 4 FFS 6 X MFS 6	2.200	1.640	0.375	11/16-16 U.N.	11/16-16 U.N.	0.875	1.000	5000	0.250
SS 8 FFS 8 X MFS 8	2.400	1.709	0.433	13/16-16 U.N.	13/16-16 U.N.	1.120	1.375	5000	0.390
SS 8 FFS 10 X MFS 10	2.550	1.815	0.504	1-14 U.N.	1-14 U.N.	1.250	1.375	5000	0.484
SS 12 FFS 12 X MFS 12	2.690	1.900	0.571	$1^{3}/_{16}$-12 U.N.	$1^{3}/_{16}$-12 U.N.	1.500	1.560	4500	0.609
SS 16 FFS 16 X MFS 16	3.310	2.360	0.583	$1^{7}/_{16}$-12 U.N.	$1^{7}/_{16}$-12 U.N.	1.750	1.810	4000	0.811
SS 20 FFS 20 X MFS 20	3.390	2.500	0.583	$1^{11}/_{16}$-12 U.N.	$1^{11}/_{16}$-12 U.N.	2.125	2.188	4000	1.024
SS 24 FFS 24 X MFS 24	3.950	3.050	0.583	2-12 U.N.	2-12 U.N.	2.375	2.375	4000	1.260

Male Face Seal (M.F.S.) X Male Face Seal (M.F.S.)



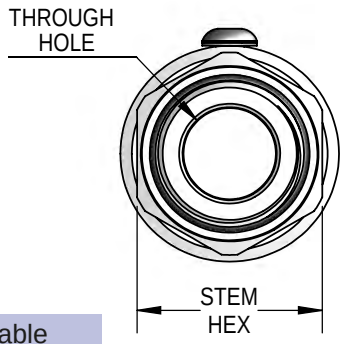


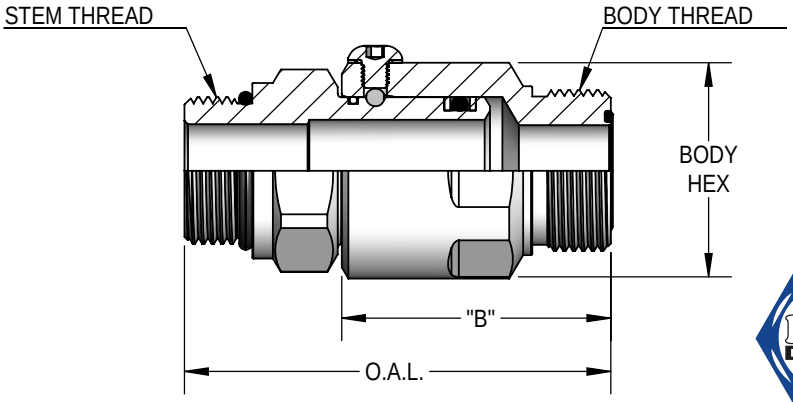
Not Available
In Stainless Steel!

Also Available EXTRA Heavy DUTY Starts Page 53

PART NUMBER	O.A.L.	DIM. B	STEM THREAD	BODY THREAD	STEM HEX	BODY HEX/WRENCH	MAX P.S.I.G.	THROUGH HOLE
SS 4 MFS 6 X MFS 6	2.421	1.640	11/16-16 U.N.	11/16-16 U.N.	0.750	1.000	5000	0.250
SS 8 MFS 8 X MFS 8	2.633	1.709	13/16-16 U.N.	13/16-16 U.N.	1.000	1.375	5000	0.390
SS 8 MFS 10 X MFS 10	2.935	1.815	1-14 U.N.	1-14 U.N.	1.125	1.375	5000	0.484
SS 12 MFS 12 X MFS 12	3.120	1.900	1 3/16-12 U.N.	1 3/16-12 U.N.	1.250	1.560	4500	0.609
SS 16 MFS 16 X MFS 16	3.639	2.360	1 7/16-12 U.N.	1 7/16-12 U.N.	1.500	1.810	4000	0.811
SS 20 MFS 20 X MFS 20	3.859	2.500	1 11/16-12 U.N.	1 11/16-12 U.N.	1.750	2.188	4000	1.024
SS 24 MFS 24 X MFS 24	4.479	3.050	2-12 U.N.	2-12 U.N.	2.125	2.375	4000	1.312

Male O-Ring (O.R.B.) X Male Face Seal (M.F.S.)



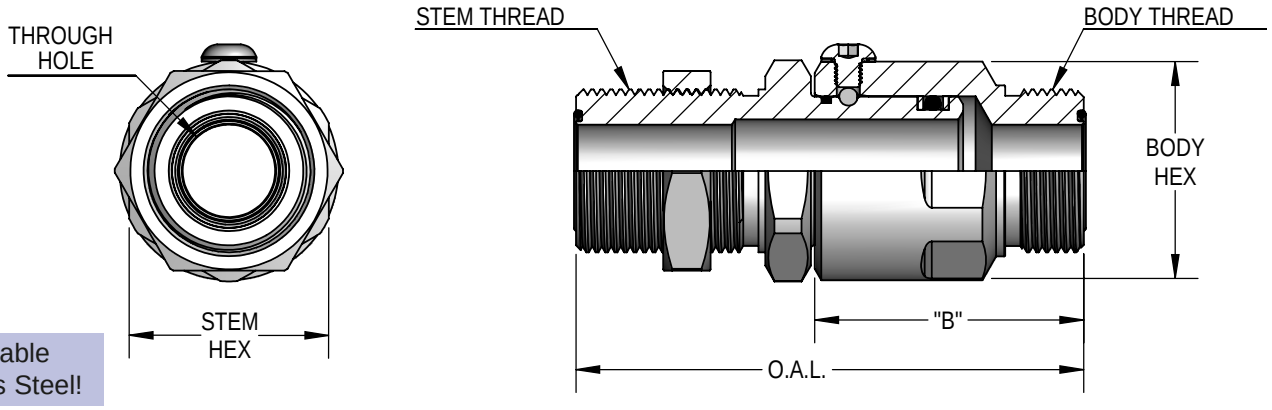


Not Available
In Stainless Steel!

Also Available EXTRA Heavy DUTY Starts Page 53

PART NUMBER	O.A.L.	DIM. B	STEM THREAD	BODY THREAD	STEM HEX	BODY HEX/WRENCH	MAX P.S.I.G.	THROUGH HOLE
SS 4 MO 6 X MFS 6	2.460	1.640	9/16-18 U.N.	11/16-16 U.N.	0.750	1.000	5000	0.250
SS 8 MO 8 X MFS 8	2.647	1.709	3/4-16 U.N.	13/16-16 U.N.	1.000	1.375	5000	0.390
SS 8 MO 10 X MFS 10	2.875	1.815	7/8-14 U.N.	1-14 U.N.	1.000	1.375	5000	0.484
SS 12 MO 12 X MFS 12	3.124	1.900	1 1/16-12 U.N.	1 3/16-12 U.N.	1.375	1.560	4500	0.609
SS 16 MO 16 X MFS 16	3.734	2.360	1 5/16-12 U.N.	1 7/16-12 U.N.	1.625	1.810	4000	0.811
SS 20 MO 20 X MFS 20	3.965	2.500	1 5/8-12 U.N.	1 11/16-12 U.N.	1.875	2.188	4000	1.024
SS 24 MO 24 X MFS 24	4.645	3.050	1 7/8-12 U.N.	2-12 U.N.	2.125	2.375	4000	1.312

Male Face Seal Bulkhead (M.F.S.B.) X Male Face Seal (M.F.S.)



Not Available In Stainless Steel!

PART NUMBER	O.A.L.	DIM. B	STEM THREAD	BODY THREAD	STEM HEX	BODY HEX/WRENCH	MAX P.S.I.G.	THROUGH HOLE
SS 4 MFSB 6 X MFS 6	3.320	1.640	11/16-16 U.N.	11/16-16 U.N.	1.000	1.000	5000	0.250
SS 8 MFSB 8 X MFS 8	3.529	1.709	13/16-16 U.N.	13/16-16 U.N.	1.125	1.375	5000	0.390
SS 8 MFSB 10 X MFS 10	3.798	1.815	1 -14 U.N.	1-14 U.N.	1.125	1.375	5000	0.484
SS 12 MFSB 12 X MFS 12	3.980	1.900	1 3/16-12 U.N.	1 3/16-12 U.N.	1.500	1.560	4500	0.609
SS 16 MFSB 16 X MFS 16	4.450	2.360	1 7/16-12 U.N.	1 7/16-12 U.N.	1.750	1.810	4000	0.811
SS 20 MFSB 20 X MFS 20	4.640	2.500	1 11/16-12 U.N.	1 11/16-12 U.N.	2.000	2.188	4000	1.024



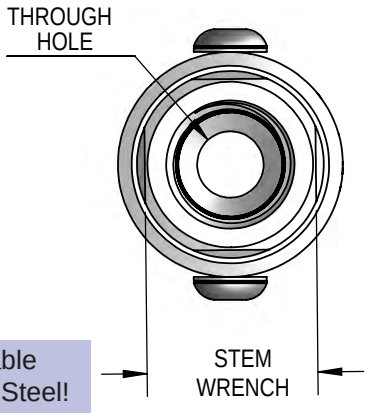
Features For The Car Wash Industry

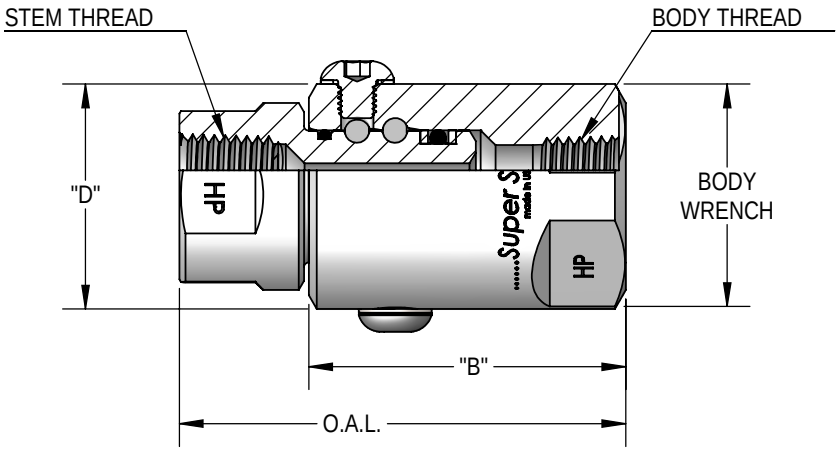
Super Swivels offers a large variety of sizes and configurations to fulfill industry applications. Our superior alloy steel construction and stainless steel ball bearings resist heavy side loads and provide a long life of service. Quality patented design coupled with meticulous construction, combined with rebuilding kits assure the best value and longest life in tough use.

Visit our website to see our complete selection and catalog.



10,000 P.S.I. Female Pipe (N.P.T.F.) X Female Pipe (N.P.T.F.)



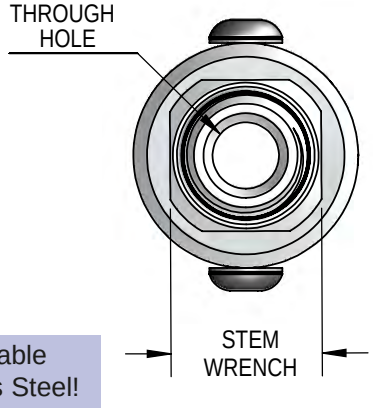


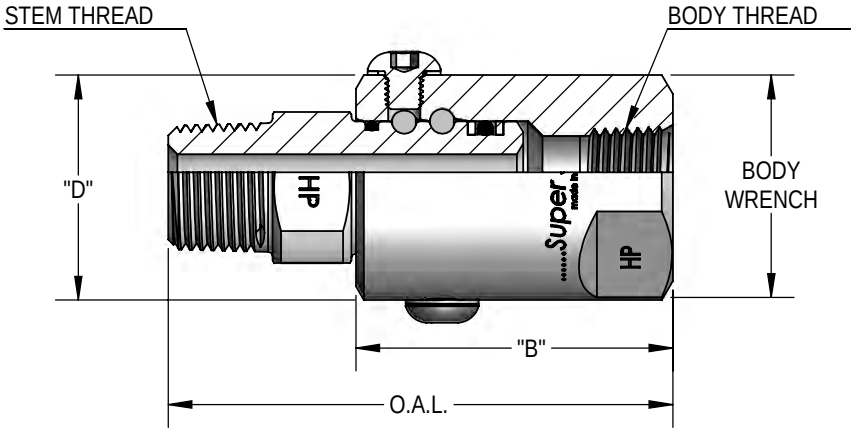
Not Available
In Stainless Steel!

PART NUMBER	O.A.L.	DIM. B	DIM. D	WRENCH	BODY THREAD	STEM THREAD	STEM WRENCH	MAX P.S.I.G.	THROUGH HOLE
SS 8 HP FP 38 X FP 38	2.500	1.830	1.480	1.125	3/8-18 N.P.T.F.	3/8-18 N.P.T.F.	1.125	10,000	0.437
SS 8 HP FP 50 X FP 50	2.935	2.085	1.480	1.250	1/2-14 N.P.T.F.	1/2-14 N.P.T.F.F.	1.125	10,000	0.437

HIGH PRESSURE ~ 10,000 P.S.I.

10,000 P.S.I. Male Pipe (N.P.T.F.) X Female Pipe (N.P.T.F.)





Not Available
In Stainless Steel!

PART NUMBER	O.A.L.	DIM. B	DIM. D	WRENCH	BODY THREAD	STEM THREAD	STEM WRENCH	MAX P.S.I.G.	THROUGH HOLE
SS 8 HP MP 38 X FP 38	2.930	1.830	1.480	1.250	3/8-18 N.P.T.F.	3/8-18 N.P.T.F.	1.000	10,000	0.312
SS 8 HP MP 50 X FP 50	3.070	2.085	1.480	1.250	1/2-14 N.P.T.F.	1/2-14 N.P.T.F.	1.000	10,000	0.437

90° Swivels

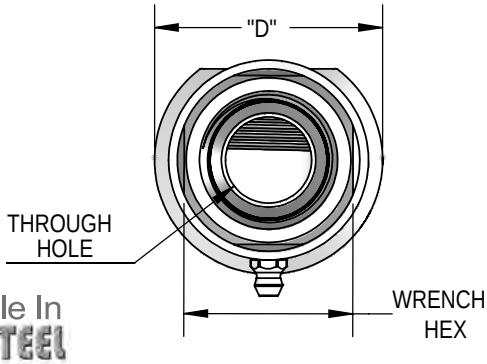


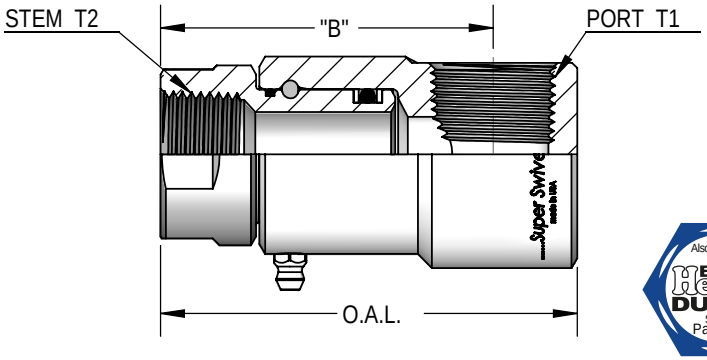
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90° Swivels rotating joints provide free rotation on one axis with a right-angle change of path. They reduce the complexity of hose lines providing for minimal friction and allowing free movement of hoses and piping. 90º Super Swivels allow for sharp corners with reduced risk of kinks and flow restriction and free rotation. Super Swivels ball bearing race design withstands heavy side loads preventing premature seal wear and leaks. Super Swivels connect directly to hose lines without adapters reducing overall costs of hydraulics. 90º Swivels sizes range from ⅛" through 2" body thread with numerous fittings and seal configurations.

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Female Pipe (N.P.T.F.) X Female Pipe (N.P.T.F.)



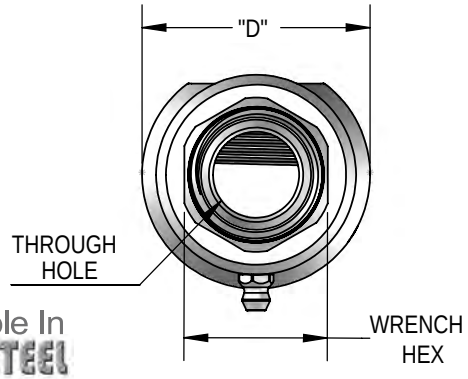


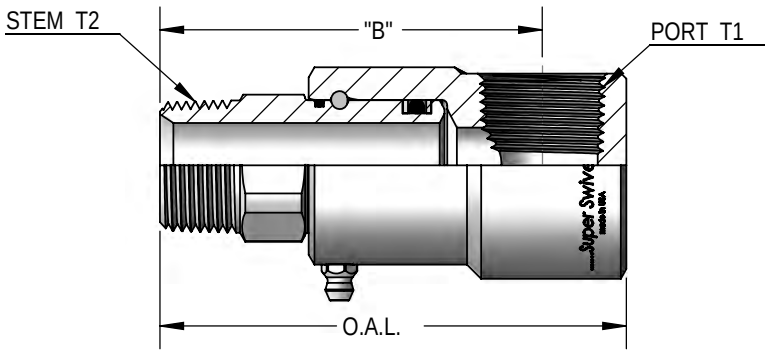
Also Available In STAINLESS STEEL

*9SS 2 FP 12.5 X FP 12.5 NOT Available in Stainless Steel

PART NUMBER	O.A.L.	DIM. B	DIM. D Ø	WRENCH/HEX	PORT T1	STEM T2	SWG. RADIUS	MAX. P.S.I.G.	THROUGH HOLE
*9 SS 2 FP 12.5 X FP 12.5	1.784	1.524	0.879	0.625	1/8-27 N.P.T.F.	1/8-27 N.P.T.F.	0.375	5000	0.157
9 SS 4 FP 25 X FP 25	2.240	1.875	1.192	0.750	1/4-18 N.P.T.F.	1/4-18 N.P.T.F.	0.525	5000	0.250
9 SS 8 FP 38 X FP 38	2.673	2.126	1.495	0.875	3/8-18 N.P.T.F.	3/8-18 N.P.T.F.	0.588	5000	0.530
9 SS 8 FP 50 X FP 50	2.820	2.275	1.495	1.125	1/2-14 N.P.T.F.	1/2-14 N.P.T.F.	0.588	5000	0.530
9 SS 12 FP 75 X FP 75	3.030	2.365	1.710	1.375	3/4-14 N.P.T.F.	3/4-14 N.P.T.F.	0.662	4500	0.609
9 SS 16 FP 100 X FP 100	4.000	3.190	2.162	1.625	1-11 1/2 N.P.T.F.	1-11 1/2 N.P.T.F.	0.824	4000	0.827
9 SS 20 FP 125 X FP 125	4.365	3.395	2.702	2.000	1 1/4-11 1/2 N.P.T.F.	1 1/4-11 1/2 N.P.T.F.	1.049	4000	1.181
9 SS 24 FP 150 X FP 150	5.605	4.375	2.917	2.375	1 1/2-11 1/2 N.P.T.F.	1 1/2-11 1/2 N.P.T.F.	1.076	4000	1.312
9 SS 32 FP 200 X FP 200	6.420	5.050	3.667	2.875	2-11 1/2 N.P.T.F.	2-11 1/2 N.P.T.F.	1.386	3000	1.781

Male Pipe (N.P.T.F.) X Female Pipe (N.P.T.F.)



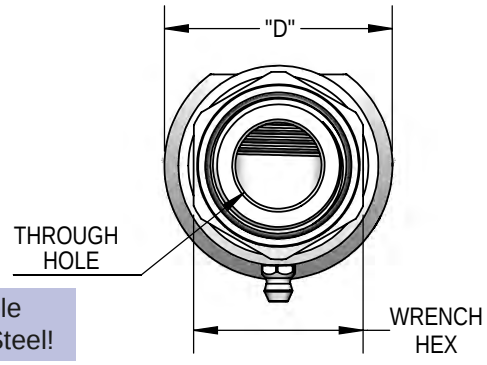


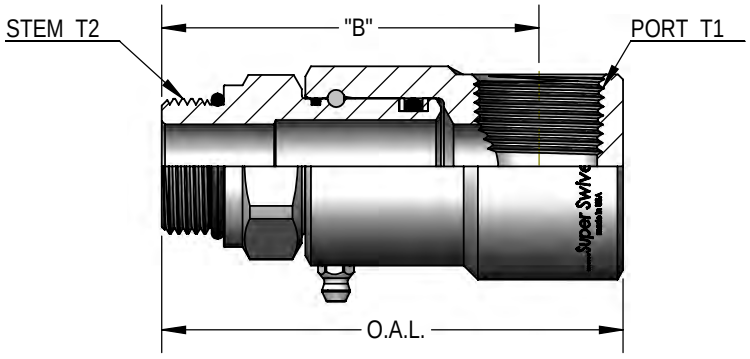
Also Available In STAINLESS STEEL

*9SS 2 MP 12.5 X FP 12.5 NOT Available in Stainless Steel

PART NUMBER	O.A.L.	DIM. B	DIM. D Ø	WRENCH/HEX	PORT T1	STEM T2	SWG. RADIUS	MAX. P.S.I.G.	THROUGH HOLE
*9 SS 2 MP 12.5 X FP 12.5	1.855	1.595	0.879	0.437	1/8-27 N.P.T.F.	1/8-27 N.P.T.F.	0.375	5000	0.157
9 SS 4 MP 25 X FP 25	2.370	2.000	1.192	0.625	1/4-18 N.P.T.F.	1/4-18 N.P.T.F.	0.525	5000	0.250
9 SS 4 MP 38 X FP 25	2.450	2.080	1.192	0.750	1/4-18 N.P.T.F.	3/8-18 N.P.T.F.	0.525	5000	0.250
9 SS 7 MP 38 X FP 38	3.085	2.527	1.357	0.750	3/8-18 N.P.T.F.	3/8-18 N.P.T.F.	0.565	5000	0.406
9 SS 8 MP 38 X FP 38	3.100	2.550	1.495	1.000	3/8-18 N.P.T.F.	3/8-18 N.P.T.F.	0.588	5000	0.406
9 SS 8 MP 50 X FP 50	3.170	2.630	1.495	1.000	1/2-14 N.P.T.F.	1/2-14 N.P.T.F.	0.588	5000	0.530
9 SS 12 MP 75 X FP 75	3.430	2.760	1.710	1.125	3/4-14 N.P.T.F.	3/4-14 N.P.T.F.	0.643	4500	0.609
9 SS 16 MP 100 X FP 100	4.475	3.667	2.162	1.375	1-11 1/2 N.P.T.F.	1-11 1/2 N.P.T.F.	0.824	4000	0.827
9 SS 20 MP 125 X FP 125	4.873	3.905	2.702	1.750	1 1/4-11 1/2 N.P.T.F.	1 1/4-11 1/2 N.P.T.F.	1.049	4000	1.181
9 SS 24 MP 150 X FP 150	6.185	4.955	2.917	2.000	1 1/2-11 1/2 N.P.T.F.	1 1/2-11 1/2 N.P.T.F.	1.076	4000	1.312
9 SS 32 MP 200 X FP 200	6.950	5.585	3.667	2.500	2-11 1/2 N.P.T.F.	2-11 1/2 N.P.T.F.	1.386	3000	1.781

Male O-Ring (O.R.B.) X Female Pipe (N.P.T.F.)

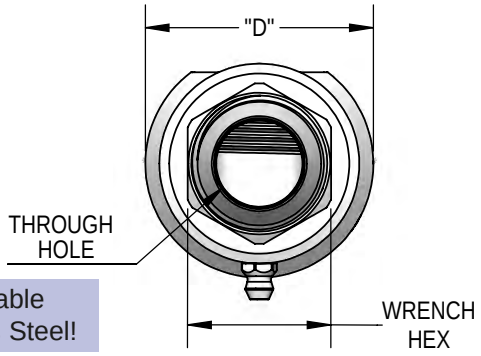


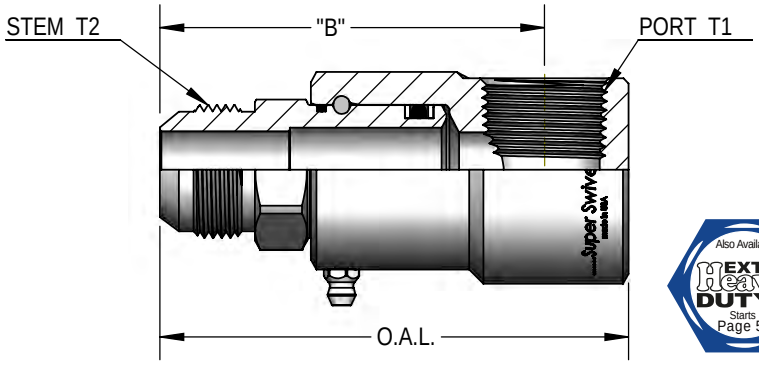


Not Available In Stainless Steel!

PART NUMBER	O.A.L.	DIM. B	DIM. D Ø	WRENCH/HEX	PORT T1	STEM T2	SWG. RADIUS	MAX. P.S.I.G.	THROUGH HOLE
9 SS 4 MO 4 X FP 25	2.460	2.090	1.192	0.625	1/4-18 N.P.T.F.	7/16-20 U.N.	0.525	5000	0.172
9 SS 4 MO 6 X FP 25	2.460	2.090	1.192	0.750	1/4-18 N.P.T.F.	9/16-18 U.N.	0.525	5000	0.250
9 SS 8 MO 8 X FP 38	2.930	2.380	1.495	1.000	3/8-18 N.P.T.F.	3/4-16 U.N.	0.588	5000	0.391
9 SS 8 MO 10 X FP 38	3.050	2.500	1.495	1.000	3/8-18 N.P.T.F.	7/8-14 U.N.	0.588	5000	0.484
9 SS 8 MO 8 X FP 50	2.923	2.376	1.495	1.000	1/2-14 N.P.T.F.	3/4-16 U.N.	0.588	5000	0.391
9 SS 8 MO 10 X FP 50	3.045	2.498	1.495	1.000	1/2-14 N.P.T.F.	7/8-14 U.N.	0.588	5000	0.484
9 SS 12 MO 12 X FP 75	3.419	2.754	1.710	1.375	3/4-14 N.P.T.F.	1 1/16-12 U.N.	0.643	4500	0.609
9 SS 16 MO 16 X FP 100	4.424	3.616	2.162	1.625	1-11 1/2 N.P.T.F.	1 5/16-12 U.N.	0.827	4000	0.827
9 SS 20 MO 20 X FP 125	4.833	3.865	2.702	1.875	1 1/4 -11 1/2 N.P.T.F.	1 5/8-12 U.N.	1.049	4000	1.078
9 SS 24 MO 24 X FP 150	6.105	4.875	2.917	2.125	1 1/2 -11 1/2 N.P.T.F.	1 7/8-12 U.N.	1.076	4000	1.312

Male J.I.C. (37°) X Female Pipe (N.P.T.F.)



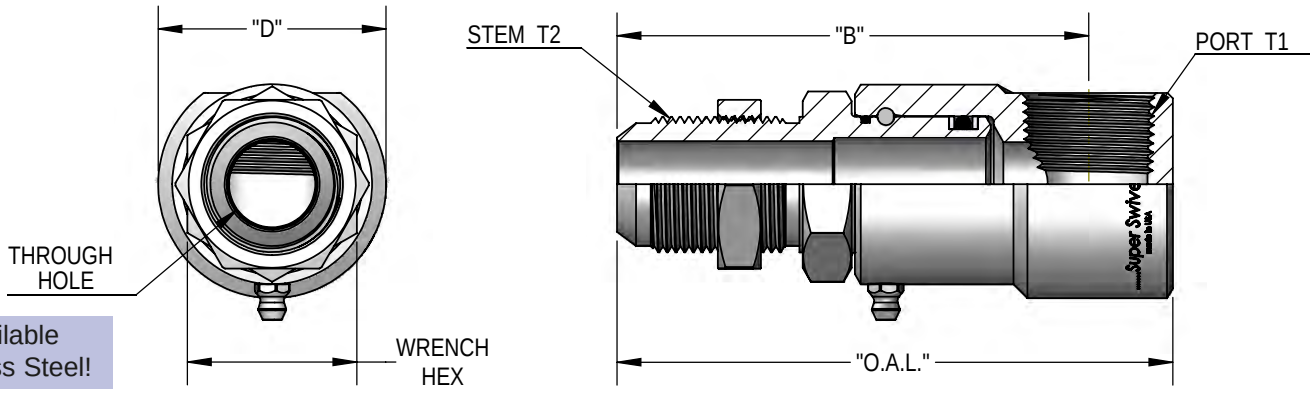


Not Available In Stainless Steel!

Also Available EXTRA Heavy DUTY Starts Page 53

PART NUMBER	O.A.L.	DIM. B	DIM. D Ø	WRENCH/HEX	PORT T1	STEM T2	SWG. RADIUS	MAX. P.S.I.G.	THROUGH HOLE
9 SS 4 MJ 4 X FP 25	2.570	2.200	1.190	0.625	1/4-18 N.P.T.F.	7/16-20 U.N.	0.525	5000	0.172
9 SS 4 MJ 6 X FP 25	2.590	2.220	1.190	0.625	1/4-18 N.P.T.F.	9/16-18 U.N.	0.525	5000	0.250
9 SS 8 MJ 6 X FP 38	2.970	2.430	1.495	1.000	3/8-18 N.P.T.F.	9/16-18 U.N.	0.651	5000	0.297
9 SS 8 MJ 8 X FP 38	3.080	2.460	1.495	1.000	3/8-18 N.P.T.F.	3/4-16 U.N.	0.651	5000	0.391
9 SS 8 MJ 10 X FP 38	3.173	2.560	1.495	1.000	3/8-18 N.P.T.F.	7/8-14 U.N.	0.651	5000	0.484
9 SS 8 MJ 8 X FP 50	3.070	2.523	1.495	1.000	1/2-14 N.P.T.F.	3/4-16 U.N.	0.581	5000	0.391
9 SS 8 MJ 10 X FP 50	3.170	2.623	1.495	1.000	1/2-14 N.P.T.F.	7/8-14 U.N.	0.581	5000	0.484
9 SS 12 MJ 12 X FP 75	3.555	2.890	1.710	1.125	3/4-14 N.P.T.F.	1 1/16-12 U.N.	0.643	4500	0.609
9 SS 16 MJ 16 X FP 100	4.495	3.687	2.160	1.375	1-11 1/2 N.P.T.F.	1 1/16-12 U.N.	0.741	4000	0.827
9 SS 20 MJ 20 X FP 125	4.913	3.945	2.700	1.750	1 1/4-11 1/2 N.P.T.F.	1 5/8-12 U.N.	1.049	4000	1.078
9 SS 24 MJ 24 X FP 150	6.275	5.045	2.915	2.000	1 1/2-11 1/2 N.P.T.F.	1 7/8-12 U.N.	1.072	4000	1.312
9 SS 32 MJ 32 X FP 200	7.360	5.990	3.667	2.625	2-11 1/2 N.P.T.F.	2 1/2-12 U.N.	1.386	3000	1.780

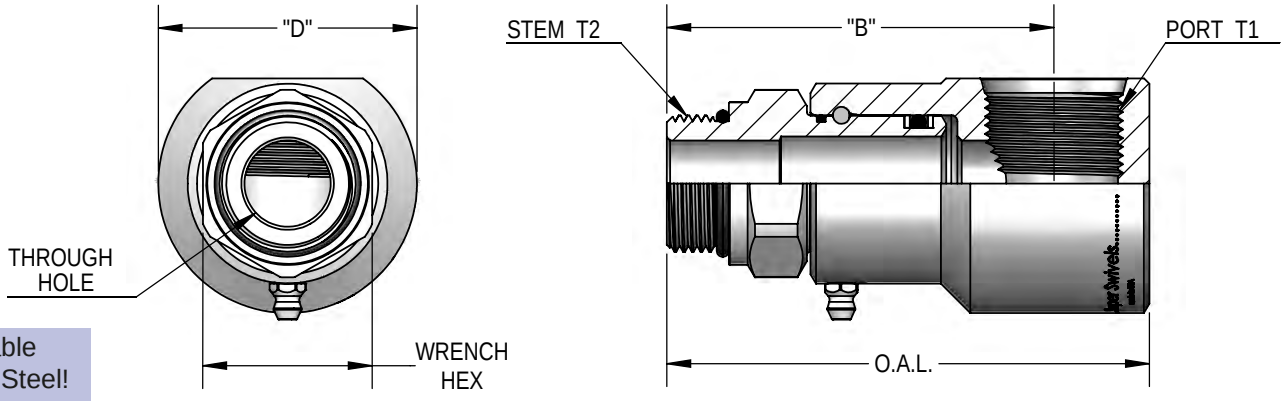
Male J.I.C. Bulkhead (37°) X Female Pipe (N.P.T.F.)



Not Available In Stainless Steel!

PART NUMBER	O.A.L.	DIM. B	DIM. D Ø	WRENCH/HEX	PORT T1	STEM T2	SWG. RADIUS	MAX. P.S.I.G.	THROUGH HOLE
9 SS 4 MJB 6 X FP 25	3.230	2.860	1.190	.812	1/4-18 N.P.T.F.	9/16-18 U.N.	0.530	5000	0.250
9 SS 8 MJB 8 X FP 38	3.810	3.260	1.495	1.000	3/8-18 N.P.T.F.	3/4-16 U.N.	0.651	5000	0.406
9 SS 8 MJB 8 X FP 50	3.805	3.258	1.495	1.000	1/2-14 N.P.T.F.	3/4-16 U.N.	0.581	5000	0.406
9 SS 8 MJB 10 X FP 38	4.025	3.478	1.495	1.125	3/8-18 N.P.T.F.	7/8-14 U.N.	0.650s	5000	0.484
9 SS 8 MJB 10 X FP 50	4.025	3.478	1.495	1.125	1/2-14 N.P.T.F.	7/8-14 U.N.	0.581	5000	0.484
9 SS 12 MJB 12 X FP 75	4.475	3.810	1.710	1.375	3/4-14 N.P.T.F.	$1^{1}/_{16}$-12 U.N.	0.643	4500	0.609
9 SS 16 MJB 16 X FP 100	5.330	4.522	2.162	1.625	1-$11^{1}/_{2}$ N.P.T.F.	$1^{5}/_{16}$-12 U.N.	0.741	4000	0.827
9 SS 20 MJB 20 X FP 125	5.808	4.840	2.702	1.875	$1^{1}/_{4}$-$11^{1}/_{2}$ N.P.T.F.	$1^{5}/_{8}$-12 U.N.	1.049	4000	1.073

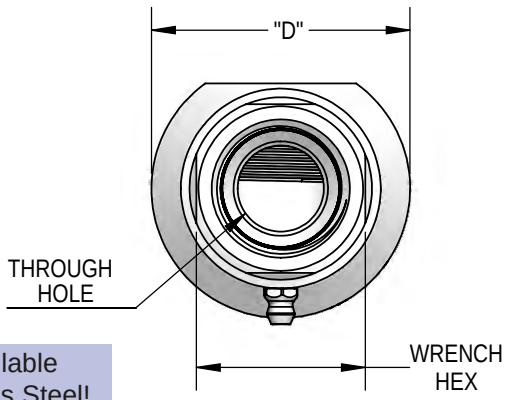
Male O-Ring (O.R.B.) X Female O-Ring (O.R.B.)

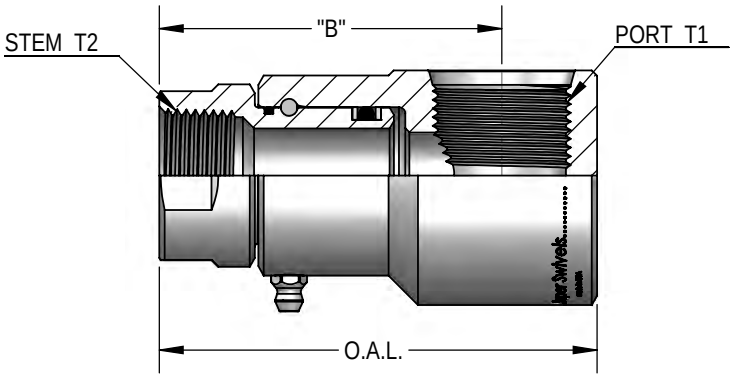


Not Available In Stainless Steel!

PART NUMBER	O.A.L.	DIM. B	DIM. D Ø	WRENCH/HEX	PORT T1	STEM T2	SWG. RADIUS	MAX. P.S.I.G.	THROUGH HOLE
9 SS 4 MO 4 X FO 6	2.727	2.215	1.292	0.625	9/16-18 U.N.	7/16-20 U.N.	0.541	5000	0.172
9 SS 4 MO 6 X FO 6	2.727	2.215	1.292	0.750	9/16-18 U.N.	9/16-18 U.N.	0.541	5000	0.250
9 SS 8 MO 8 X FO 8	2.920	2.375	1.662	1.000	3/4-16 U.N.	3/4-16 U.N.	0.703	5000	0.391
9 SS 8 MO 10 X FO 8	3.050	2.500	1.662	1.000	3/4-16 U.N.	7/8-14 U.N.	0.703	5000	0.484
9 SS 12 MO 12 X FO 12	3.709	2.884	2.172	1.375	$1^{1}/_{16}$-12 U.N.	$1^{1}/_{16}$-12 U.N.	0.900	4500	0.609
9 SS 16 MO 16 X FO 16	4.624	3.709	2.482	1.625	$1^{5}/_{16}$-12 U.N.	$1^{5}/_{16}$-12 U.N.	1.009	4000	0.827
9 SS 20 MO 20 X FO 20	5.127	4.044	2.977	1.875	$1^{5}/_{8}$-12 U.N.	$1^{5}/_{8}$-12 U.N.	1.184	4000	1.078

Female Pipe (N.P.T.F.) X Female O-Ring (O.R.B.)

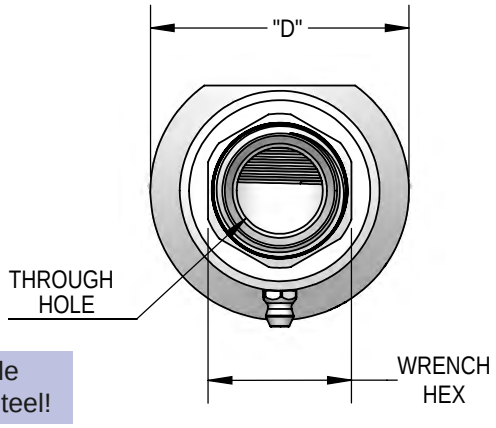


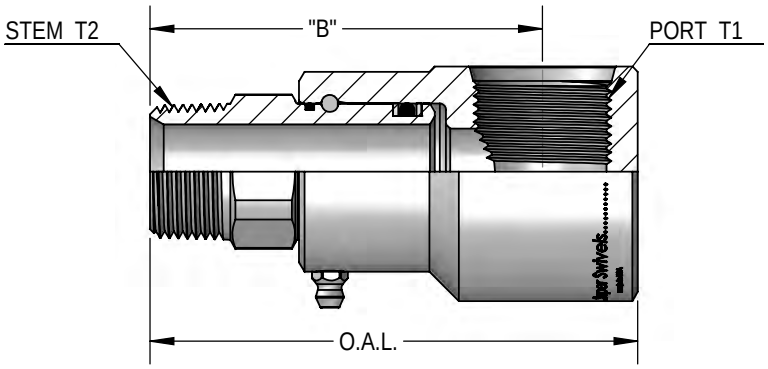


Not Available In Stainless Steel!

PART NUMBER	O.A.L.	DIM. B	DIM. D Ø	WRENCH/HEX	PORT T1	STEM T2	SWG. RADIUS	MAX. P.S.I.G.	THROUGH HOLE
9 SS 4 FP 25 X FO 6	2.510	2.000	1.292	0.750	9/16-18 U.N.	1/4-18 N.P.T.F.	0.541	5000	0.250
9 SS 8 FP 38 X FO 8	2.670	2.125	1.662	0.875	3/4-16 U.N.	3/8-18 N.P.T.F.	0.703	5000	0.530
9 SS 8 FP 50 X FO 8	2.820	2.270	1.662	1.125	3/4-16 U.N.	1/2-14 N.P.T.F.	0.703	5000	0.530
9 SS 12 FP 75 X FO 12	3.320	2.500	2.172	1.375	$1^{1}/_{16}$-12 U.N.	3/4-14 N.P.T.F.	0.900	4500	0.609
9 SS 16 FP 100 X FO 16	4.200	3.280	2.482	1.625	$1^{5}/_{16}$-12 U.N.	1-$11^{1}/_{2}$ N.P.T.F.	1.009	4000	0.827
9 SS 20 FP 125 X F0 20	4.660	3.574	2.977	2.000	$1^{5}/_{8}$-12 U.N.	$1^{1}/_{4}$-$11^{1}/_{2}$ N.P.T.F.	1.185	4000	1.181

Male Pipe (N.P.T.F.) X Female O-Ring (O.R.B.)

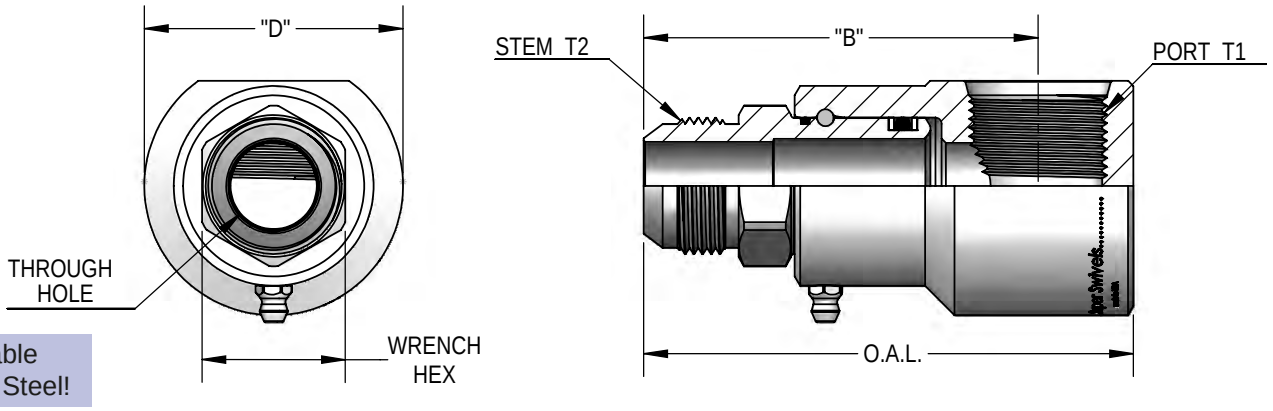




Not Available In Stainless Steel!

PART NUMBER	O.A.L.	DIM. B	DIM. D Ø	WRENCH/HEX	PORT T1	STEM T2	SWG. RADIUS	MAX. P.S.I.G.	THROUGH HOLE
9 SS 4 MP 25 X FO 6	2.640	2.130	1.292	0.625	9/16-18 U.N.	1/4-18 N.P.T.F.	0.541	5000	0.250
9 SS 4 MP 38 X FO 6	2.720	2.200	1.292	0.750	9/16-18 U.N.	3/8-18 N.P.T.F.	0.541	5000	0.250
9 SS 8 MP 38 X FO 8	3.100	2.550	1.662	1.000	3/4-16 U.N.	3/8-18 N.P.T.F.	0.703	5000	0.406
9 SS 8 MP 50 X FO 8	3.170	2.620	1.662	1.000	3/4-16 U.N.	1/2-14 N.P.T.F.	0.703	5000	0.530
9 SS 12 MP 75 X FO 12	3.720	2.895	2.172	1.125	$1^{1}/_{16}$-12 U.N.	3/4-14 N.P.T.F.	0.900	4500	0.609
9 SS 16 MP 100 X FO 16	4.675	3.760	2.482	1.375	$1^{5}/_{16}$-12 U.N.	1-$11^{1}/_{2}$ N.P.T.F.	1.009	4000	0.827
9 SS 20 MP 125 X FO 20	5.167	4.084	2.977	1.750	$1^{5}/_{8}$-12 U.N.	$1^{1}/_{4}$-$11^{1}/_{2}$ N.P.T.F.	1.184	4000	1.181

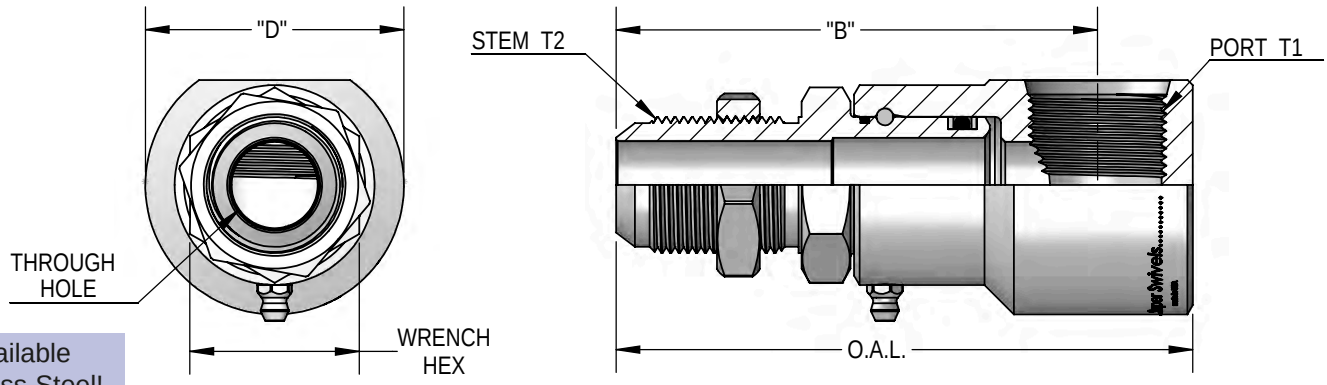
Male J.I.C. (37°) X Female O-Ring (O.R.B.)



Not Available In Stainless Steel!

PART NUMBER	O.A.L.	DIM. B	DIM. D Ø	WRENCH/HEX	PORT T1	STEM T2	SWG. RADIUS	MAX. P.S.I.G.	THROUGH HOLE
9 SS 4 MJ 4 X FO 6	2.837	2.325	1.292	0.625	9/16-18 U.N.	7/16-20 U.N.	0.541	5000	0.172
9 SS 4 MJ 6 X FO 6	2.857	2.345	1.292	0.625	9/16-18 U.N.	9/16-18 U.N.	0.541	5000	0.250
9 SS 8 MJ 8 X FO 8	3.070	2.520	1.662	1.000	3/4-16 U.N.	3/4-16 U.N.	0.703	5000	0.391
9 SS 8 MJ 10 X FO 8	3.170	2.600	1.662	1.000	3/4-16 U.N.	7/8-14 U.N.	0.703	5000	0.484
9 SS 12 MJ 12 X FO 12	3.845	3.020	2.172	1.125	1 1/16-12 U.N.	1 1/16-12 U.N.	0.900	4500	0.609
9 SS 16 MJ 16 X FO 16	4.695	3.780	2.482	1.375	1 5/16-12 U.N.	1 5/16-12 U.N.	1.009	4000	0.827
9 SS 20 MJ 20 X FO 20	5.207	4.124	2.977	1.750	1 5/8-12 U.N.	1 5/8-12 U.N.	1.184	4000	1.078

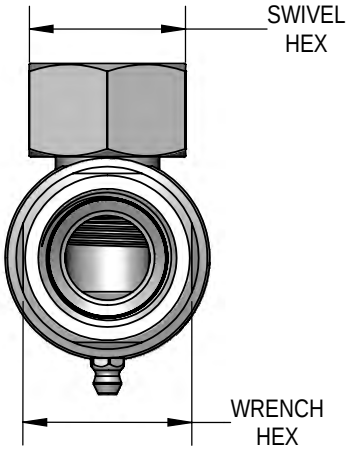
Male J.I.C. Bulkhead (37°) X Female O-Ring (O.R.B.)

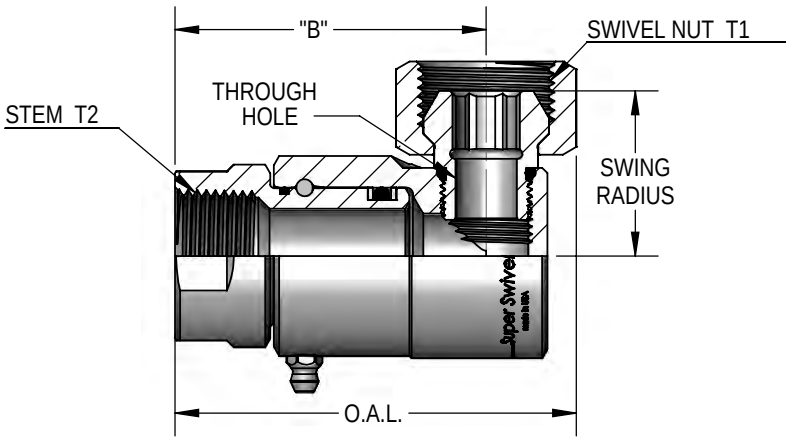


Not Available In Stainless Steel!

PART NUMBER	O.A.L.	DIM. B	DIM. D Ø	WRENCH/HEX	PORT T1	STEM T2	SWG. RADIUS	MAX. P.S.I.G.	THROUGH HOLE
9 SS 4 MJB 6 X FO 6	3.500	2.990	1.290	.812	9/16-18 U.N.	9/16-18 U.N.	0.580	5000	0.250
9 SS 8 MJB 8 X FO 8	3.800	3.240	1.662	1.000	3/4-16 U.N.	3/4-16 U.N.	0.703	5000	0.391
9 SS 8 MJB 10 X FO 8	4.030	3.480	1.662	1.125	3/4-16 U.N.	7/8-14 U.N.	0.703	5000	0.484
9 SS 12 MJB 12 X FO 12	4.765	3.940	2.172	1.375	1 1/16-12 U.N.	1 1/16-12 U.N.	0.900	4500	0.609
9 SS 16 MJB 16 X FO 16	5.530	4.615	2.482	1.625	1 5/16-12 U.N.	1 5/16-12 U.N.	1.009	4000	0.827
9 SS 20 MJB 20 X FO 20	6.102	5.019	2.977	1.875	1 5/8-12 U.N.	1 5/8-12 U.N.	1.184	4000	1.078

Female Pipe (N.P.T.F.) X Pipe Swivel (N.P.S.M.)

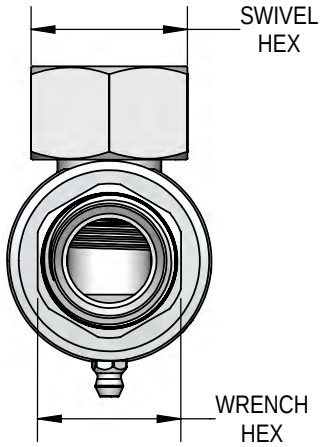


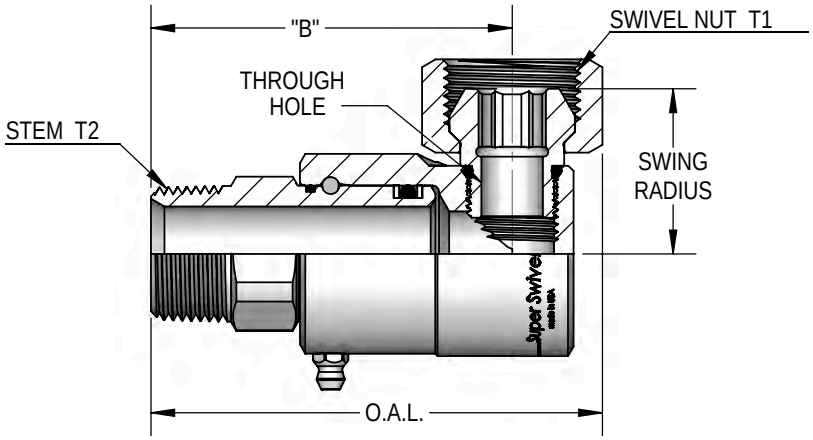


Not Available In Stainless Steel!

PART NUMBER	O.A.L.	DIM. B	SWIVEL HEX	WRENCH/HEX	SWIVEL NUT T1	STEM T2	SWG. RADIUS	MAX. P.S.I.G.	THROUGH HOLE
9 SS 4 FP 25 X PS 25	2.510	2.000	0.687	0.750	1/4-18 N.P.S.M.	1/4-18 N.P.T.F.	1.326	3500	0.218
9 SS 4 FP 25 X PS 38	2.510	2.000	0.875	0.750	3/8-18 N.P.S.M.	1/4-18 N.P.T.F.	1.555	3500	0.250
9 SS 8 FP 38 X PS 38	2.670	2.120	0.875	0.875	3/8-18 N.P.S.M.	3/8-18 N.P.T.F.	1.437	3500	0.327
9 SS 8 FP 50 X PS 50	2.850	2.270	1.000	1.125	1/2-14 N.P.S.M.	1/2-14 N.P.T.F.	1.521	3500	0.390
9 SS 12 FP 75 X PS 75	3.080	2.360	1.250	1.375	3/4-14 N.P.S.M.	3/4-14 N.P.T.F.	1.664	3500	0.521
9 SS 16 FP 100 X PS 100	3.850	2.980	1.500	1.625	1-11 1/2 N.P.S.M.	1-11 1/2 N.P.T.F.	1.956	3500	0.590
9 SS 20 FP 125 X PS 125	4.365	3.285	1.875	2.000	1 1/4-11 1/2 N.P.S.M.	1 1/4-11 1/2 N.P.T.F.	2.570	3500	0.906
9 SS 24 FP 150 X PS 150	5.260	4.040	2.125	2.375	1 1/2-11 1/2 N.P.S.M.	1 1/2-11 1/2 N.P.T.F.	2.630	3500	1.040

Male Pipe (N.P.T.F.) X Pipe Swivel (N.P.S.M.)



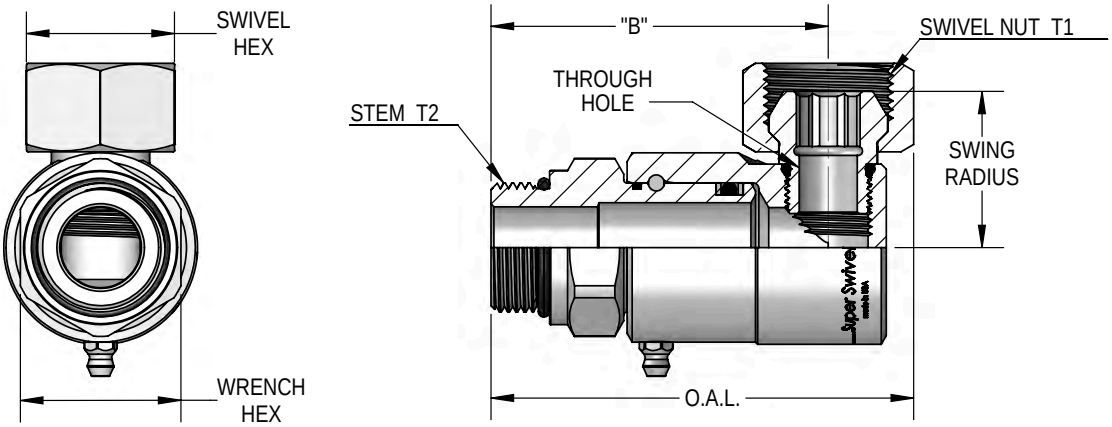


Not Available In Stainless Steel!

PART NUMBER	O.A.L.	DIM. B	SWIVEL HEX	WRENCH/HEX	SWIVEL NUT T1	STEM T2	SWG. RADIUS	MAX. P.S.I.G.	THROUGH HOLE
9 SS 4 MP 25 X PS 25	2.640	2.120	0.687	0.625	1/4-18 N.P.S.M.	1/4-18 N.P.T.F.	1.326	3500	0.218
9 SS 4 MP 38 X PS 25	2.720	2.210	0.687	0.750	1/4-18 N.P.S.M.	3/8-18 N.P.T	1.326	3500	0.218
9 SS 4 MP 25 X PS 38	2.640	2.120	0.875	0.625	3/8-18 N.P.S.M.	1/4-18 N.P.T.F.	1.555	3500	0.250
9 SS 4 MP 38 X PS 38	2.720	2.210	0.875	0.750	3/8-18 N.P.S.M.	3/8-18 N.P.T	1.555	3500	0.250
9 SS 8 MP 38 X PS 38	3.095	2.548	0.875	1.000	3/8-18 N.P.S.M.	3/8-18 N.P.T.F.	1.437	3500	0.327
9 SS 8 MP 50 X PS 50	3.170	2.620	1.000	1.000	1/2-14 N.P.S.M.	1/2-14 N.P.T.F.	1.521	3500	0.390
9 SS 12 MP 75 X PS 75	3.481	2.760	1.250	1.125	3/4-14 N.P.S.M.	3/4-14 N.P.T.F.	1.664	3500	0.521
9 SS 16 MP 100 X PS 100	4.327	3.462	1.500	1.375	1-11 1/2 N.P.S.M.	1-11 1/2 N.P.T.F.	1.956	3500	0.590
9 SS 20 MP 125 X PS 125	4.877	3.795	1.875	1.750	1 1/4-11 1/2 N.P.S.M.	1 1/4-11 1/2 N.P.T.F.	2.570	3500	0.906
9 SS 24 MP 150 X PS 150	5.845	4.620	2.125	2.000	1 1/2-11 1/2 N.P.S.M.	1 1/2-11 1/2 N.P.T.F.	2.630	3500	1.040

Male O-Ring (O.R.B.) X Pipe Swivel (N.P.S.M.)

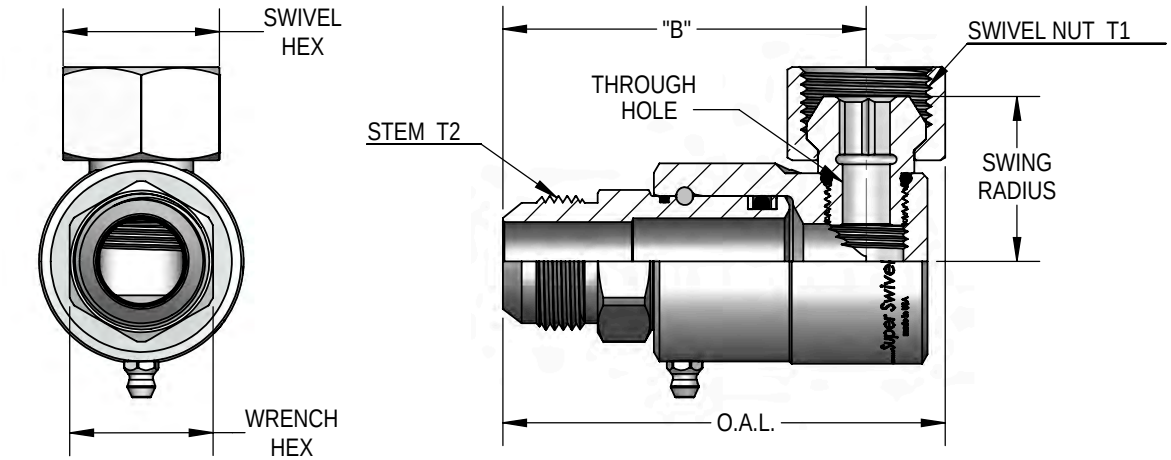
Not Available
In Stainless Steel!



PART NUMBER	O.A.L.	DIM. B	SWIVEL HEX	WRENCH/HEX	SWIVEL NUT T1	STEM T2	SWG. RADIUS	MAX. P.S.I.G.	THROUGH HOLE
9 SS 4 MO 4 X PS 25	2.727	2.215	0.687	0.687	1/4-18 N.P.S.M.	7/16-20 U.N.	1.326	3500	0.172
9 SS 4 MO 6 X PS 25	2.727	2.215	0.687	0.750	1/4-18 N.P.S.M.	9/16-18 U.N.	1.326	3500	0.218
9 SS 4 MO 6 X PS 38	2.727	2.215	0.875	0.750	3/8-18 N.P.S.M.	9/16-18 U.N.	1.555	3500	0.250
9 SS 8 MO 8 X PS 38	2.923	2.376	0.875	1.000	3/8-18 N.P.S.M.	3/4-16 U.N.	1.437	3500	0.327
9 SS 8 MO 8 X PS 50	2.953	2.376	1.000	1.000	1/2-14 N.P.S.M.	3/4-16 U.N.	1.521	3500	0.327
9 SS 8 MO 10 X PS 50	3.075	2.498	1.000	1.000	1/2-14 N.P.S.M.	7/8-14 U.N.	1.521	3500	0.390
9 SS 12 MO 12 X PS 75	3.470	2.749	1.250	1.375	3/4-14 N.P.S.M.	1 1/16-12 U.N.	1.664	3500	0.521
9 SS 16 MO 16 X PS 100	4.276	3.411	1.500	1.625	1-11 1/2 N.P.S.M.	1 5/16-12 U.N.	1.956	3500	0.590
9 SS 20 MO 20 X PS 125	4.837	3.755	1.875	1.875	1 1/4-11 1/2 N.P.S.M.	1 5/8-12 U.N.	2.570	3500	0.906
9 SS 24 MO 24 X PS 150	5.750	4.540	2.125	2.125	1 1/2-11 1/2 N.P.S.M.	1 7/8 -12 U.N.	2.630	3500	1.040

Male J.I.C. (37°) X Pipe Swivel (N.P.S.M.)

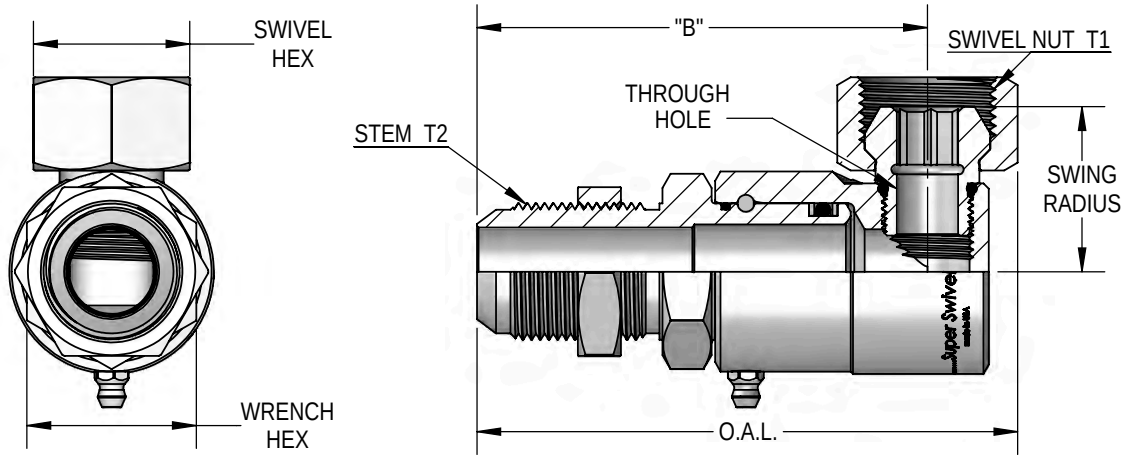
Not Available
In Stainless Steel!



PART NUMBER	O.A.L.	DIM. B	SWIVEL HEX	WRENCH/HEX	SWIVEL NUT T1	STEM T2	SWG. RADIUS	MAX. P.S.I.G.	THROUGH HOLE
9 SS 4 MJ 4 X PS 25	2.867	2.355	0.687	0.6.25	1/4-18 N.P.S.M.	7/16-20 U.N.	1.326	3500	0.172
9 SS 4 MJ 6 X PS 25	2.887	2.375	0.687	0.6.25	1/4-18 N.P.S.M.	9/16-18 U.N.	1.326	3500	0.218
9 SS 4 MJ 6 X PS 38	2.887	2.375	0.875	0.6.25	3/8-18 N.P.S.M.	9/16-18 U.N.	1.555	3500	0.250
9 SS 8 MJ 8 X PS 38	3.070	2.523	0.875	1.000	3/8-18 N.P.S.M.	3/4-16 U.N.	1.437	3500	0.327
9 SS 8 MJ 8 X PS 50	3.100	2.523	1.000	1.000	1/2-14 N.P.S.M.	3/4-16 U.N.	1.521	3500	0.390
9 SS 8 MJ 10 X PS 50	3.200	2.623	1.000	1.000	1/2-14 N.P.S.M.	7/8-14 U.N.	1.521	3500	0.390
9 SS 12 MJ 12 X PS 75	3.606	2.885	1.250	1.125	3/4-14 N.P.S.M.	1 1/16-12 U.N.	1.664	3500	0.521
9 SS 16 MJ 16 X PS 100	4.348	3.482	1.500	1.375	1-11 1/2 N.P.S.M.	1 5/16-12 U.N.	1.956	3500	0.590
9 SS 20 MJ 20 X PS 125	4.917	3.835	1.875	1.750	1 1/4-11 1/2 N.P.S.M.	1 5/8-12 U.N.	2.570	3500	0.906
9 SS 24 MJ 24 X PS150	5.930	4.710	2.125	2.000	1 1/2-11 1/2 N.P.S.M.	1 7/8-12 U.N.	2.630	3500	1.040

Male J.I.C. Bulkhead (37°) X Pipe Swivel (N.P.S.M.)

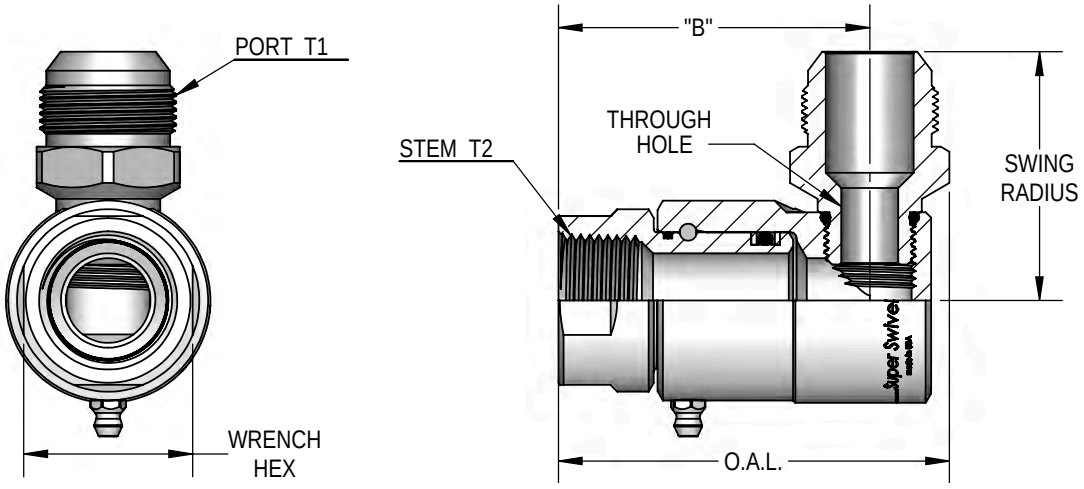
Not Available In Stainless Steel!



PART NUMBER	O.A.L.	DIM. B	SWIVEL HEX	WRENCH/HEX	SWIVEL NUT T1	STEM T2	SWG. RADIUS	MAX. P.S.I.G.	THROUGH HOLE
9 SS 4 MJB 6 X PS 25	3.500	2.990	0.688	0.812	1/4-18 N.P.S.M.	9/16-18 U.N.	1.350	3500	0.250
9 SS 8 MJB 8 X PS 38	3.805	3.258	0.875	1.000	3/8-18 N.P.S.M.	3/4-16 U.N.	1.437	3500	0.327
9 SS 8 MJB 8 X PS 50	3.835	3.258	1.000	1.000	1/2-14 N.P.S.M.	3/4-16 U.N.	1.521	3500	0.327
9 SS 8 MJB 10 X PS 50	4.055	3.478	1.000	1.125	1/2-14 N.P.S.M.	7/8-14 U.N.	1.521	3500	0.390
9 SS 12 MJB 12 X PS 75	4.526	3.805	1.250	1.375	3/4-14 N.P.S.M.	1 1/16-12 U.N.	1.664	3500	0.521
9 SS 16 MJB 16 X PS 100	5.182	4.317	1.500	1.625	1-11 1/2 N.P.S.M.	1 5/16-12 U.N.	1.956	3500	0.590
9 SS 20 MJB 20 X PS 125	5.812	4.730	1.875	1.875	1 1/4-11 1/2 N.P.S.M.	1 5/8-12 U.N.	2.570	3500	0.906

Female Pipe (N.P.T.F.) X Male J.I.C. (37°)

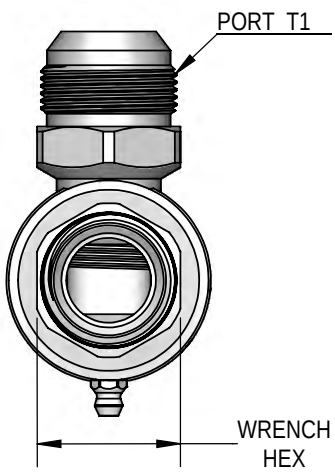
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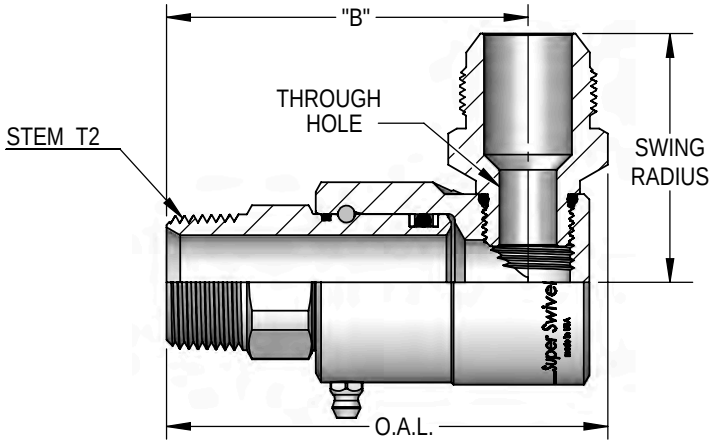


PART NUMBER	O.A.L.	DIM. B	WRENCH/HEX	PORT T1	STEM T2	SWG. RADIUS	MAX. P.S.I.G.	THROUGH HOLE
9 SS 4 FP 25 X MJ 4	2.510	2.000	0.750	7/16-20 U.N.	1/4-18 N.P.T.F.	1.454	3500	0.170
9 SS 4 FP 25 X MJ 6	2.510	2.000	0.750	9/16-18 U.N.	1/4-18 N.P.T.F.	1.454	3500	0.250
9 SS 8 FP 38 X MJ 6	2.670	2.120	0.875	9/16-18 U.N.	3/8-18 N.P.T.F.	1.581	3500	0.290
9 SS 8 FP 38 X MJ 8	2.670	2.120	0.875	3/4-16 U.N.	3/8-18 N.P.T.F.	1.712	3500	0.297
9 SS 8 FP 50 X MJ 8	2.850	2.270	1.125	3/4-16 U.N.	1/2-14 N.P.T.F.	1.712	3500	0.297
9 SS 8 FP 50 X MJ 10	2.880	2.270	1.125	7/8-14 U.N.	1/2-14 N.P.T.F.	1.978	3500	0.297
9 SS 12 FP 75 X MJ 12	3.000	2.360	1.375	1 1/16-12 U.N.	3/4-14 N.P.T.F.	2.288	3500	0.385
9 SS 16 FP 100 X MJ 16	3.730	2.980	1.625	1 5/16-12 U.N.	1-11 1/2 N.P.T.F.	2.384	3500	0.550
9 SS 20 FP 125 X MJ 20	4.300	3.285	2.000	1 5/8-12 U.N.	1 1/4-11 1/2 N.P.T.F.	2.970	3500	0.827
9 SS 24 FP 150 X MJ 24	5.160	4.040	2.375	1 7/8-12 U.N.	1 1/2-11 1/2 N.P.T.F.	3.097	3500	0.944

Male Pipe (N.P.T.F.) X Male J.I.C. (37°)

Not Available
In Stainless Steel!

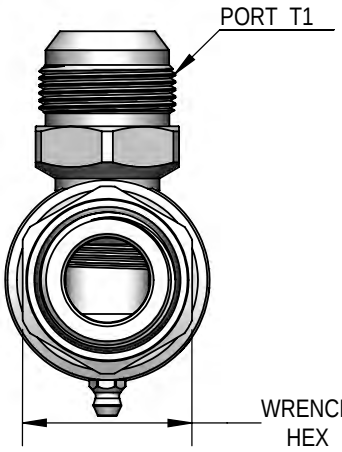


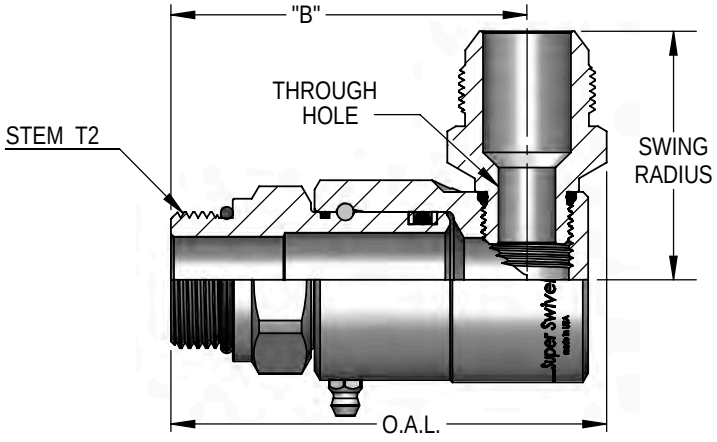


PART NUMBER	O.A.L.	DIM. B	WRENCH/HEX	PORT T1	STEM T2	SWG. RADIUS	MAX. P.S.I.G.	THROUGH HOLE
9 SS 4 MP 25 X MJ 4	2.640	2.130	0.625	7/16-20 U.N.	1/4-18 N.P.T.F.	1.454	3500	0.170
9 SS 4 MP 25 X MJ 6	2.640	2.130	0.625	9/16-18 U.N.	1/4-18 N.P.T.F.	1.454	3500	0.250
9 SS 4 MP 38 X MJ 6	2.720	2.210	0.750	9/16-18 U.N.	3/8-18 N.P.T.F.	1.454	3500	0.250
9 SS 8 MP 38 X MJ 8	3.095	2.548	1.000	3/4-16 U.N.	3/8-18 N.P.T.F.	1.712	3500	0.297
9 SS 8 MP 50 X MJ 8	3.170	2.620	1.000	3/4-16 U.N.	1/2-14 N.P.T.F.	1.712	3500	0.297
9 SS 8 MP 50 X MJ 10	3.220	2.673	1.000	7/8-14 U.N.	1/2-14 N.P.T.F.	1.978	3500	0.297
9 SS 12 MP 75 X MJ 12	3.409	2.760	1.125	1 1/16-12 U.N.	3/4-14 N.P.T.F.	2.235	3500	0.385
9 SS 16 MP 100 X MJ 16	4.255	3.462	1.375	1 5/16-12 U.N.	1-11 1/2 N.P.T.F.	2.384	3500	0.550
9 SS 20 MP 125 X MJ 20	4.805	3.795	1.750	1 5/8-12 U.N.	1 1/4-11 1/2 N.P.T.F.	2.970	3500	0.827
9 SS 24 MP 150 X MJ 24	5.740	4.620	2.000	1 7/8-12 U. N.	1 1/2-11 1/2 N.P.T.F.	3.097	3500	0.944

Male O-Ring (O.R.B.) X Male J.I.C. (37°)

Not Available
In Stainless Steel!

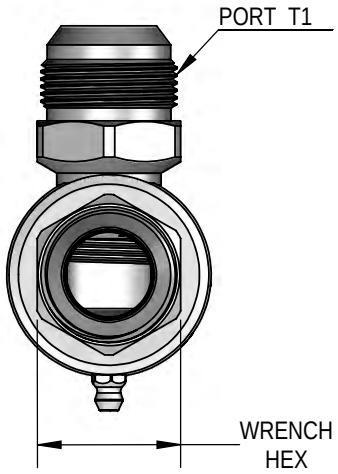


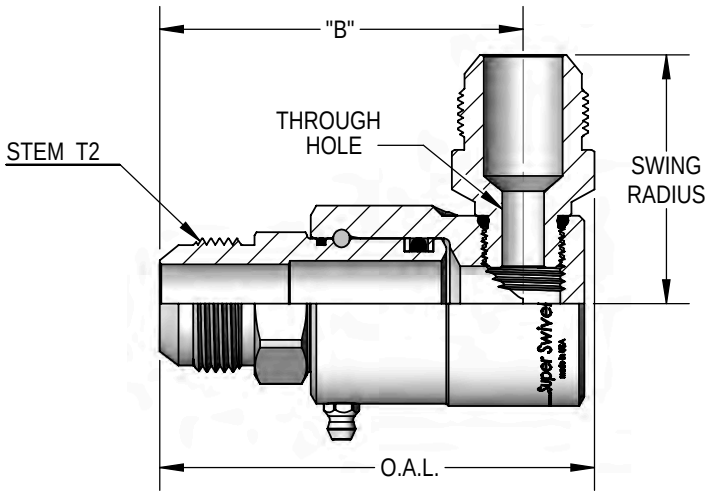


PART NUMBER	O.A.L.	DIM. B	WRENCH/HEX	PORT T1	STEM T2	SWG. RADIUS	MAX. P.S.I.G.	THROUGH HOLE
9 SS 4 MO 4 X MJ 4	2.727	2.215	0.625	7/16-20 U.N.	7/16-20 U.N.	1.454	3500	0.172
9 SS 4 MO 6 X MJ 6	2.727	2.215	0.750	9/16-18 U.N.	9/16-18 U.N.	1.454	3500	0.250
9 SS 8 MO 8 X MJ 8	2.923	2.376	1.000	3/4-16 U.N.	3/4-16 U.N.	1.712	3500	0.297
9 SS 8 MO 10 X MJ 10	3.075	2.498	1.000	7/8-14 U.N.	7/8-14 U.N.	1.978	3500	0.297
9 SS 12 MO 12 X MJ 12	3.398	2.749	1.375	1 1/16-12 U.N.	1 1/16-12 U.N.	2.288	3500	0.385
9 SS 16 MO 16 X MJ 16	4.204	3.411	1.625	1 5/16-12 U.N.	1 5/16-12 U.N.	2.384	3500	0.550
9 SS 20 MO 20 X MJ 20	4.765	3.755	1.875	1 5/8-12 U.N.	1 5/8-12 U.N.	2.970	3500	0.827
9 SS 24 MO 24 X MJ 24	5.670	4.540	2.125	1 7/8-12 U.N.	1 7/8-12 U.N.	3.097	3500	0.944

Male J.I.C. (37°) X Male J.I.C. (37°)

Not Available
In Stainless Steel!

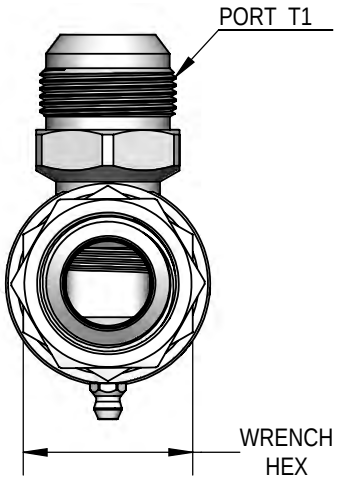


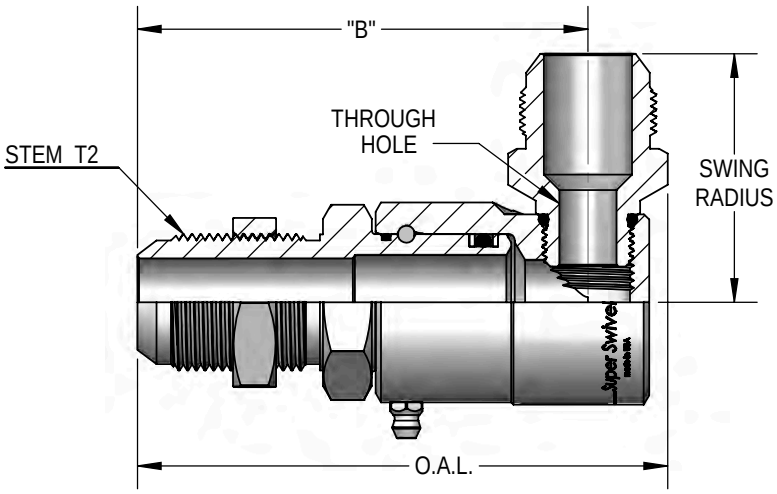


PART NUMBER	O.A.L.	DIM. B	WRENCH/HEX	PORT T1	STEM T2	SWG. RADIUS	MAX. P.S.I.G.	THROUGH HOLE
9 SS 4 MJ 4 X MJ 4	2.837	2.325	0.625	7/16-20 U.N.	7/16-20 U.N.	1.454	3500	0.172
9 SS 4 MJ 6 X MJ 6	2.857	2.345	0.625	9/16-18 U.N.	9/16-18 U.N.	1.454	3500	0.250
9 SS 8 MJ 8 X MJ 8	3.070	2.523	1.000	3/4-16 U.N.	3/4-16 U.N.	1.712	3500	0.297
9 SS 8 MJ 10 X MJ 10	3.200	2.623	1.000	7/8-14 U.N.	7/8-14 U.N.	1.978	3500	0.297
9 SS 12 MJ 12 X MJ 12	3.534	2.885	1.125	$1^{1}/_{16}$-12 U.N.	$1^{1}/_{16}$-12 U.N.	2.288	3500	0.385
9 SS 16 MJ 16 X MJ 16	4.275	3.482	1.375	$1^{5}/_{16}$-12 U.N.	$1^{5}/_{16}$-12 U.N.	2.384	3500	0.550
9 SS 20 MJ 20 X MJ 20	4.845	3.835	1.750	$1^{5}/_{8}$-12 U.N.	$1^{5}/_{8}$-12 U.N.	2.970	3500	0.827
9 SS 24 MJ 24 X MJ 24	5.840	4.710	2.000	$1^{7}/_{8}$-12 U. N.	$1^{7}/_{8}$-12 U.N.	3.097	3500	0.944

Male J.I.C. Bulkhead (37°) X Male J.I.C. (37°)

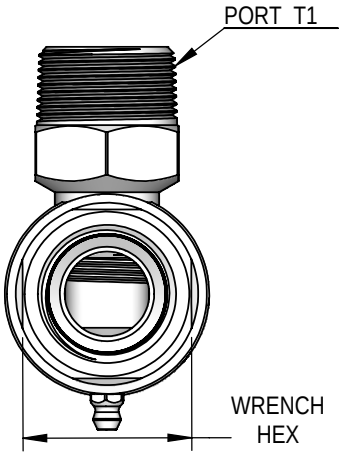
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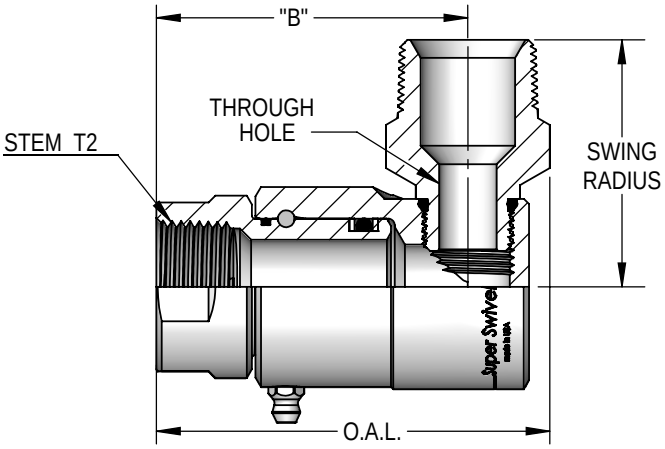




PART NUMBER	O.A.L.	DIM. B	WRENCH/HEX	PORT T1	STEM T2	SWG. RADIUS	MAX. P.S.I.G.	THROUGH HOLE
9 SS 4 MJB 6 X MJ 6	3.500	2.987	0.812	9/16-18 U.N.	9/16-18 U.N.	1.478	3500	0.250
9 SS 8 MJB 8 X MJ 8	3.805	3.258	1.000	3/4-16 U.N.	3/4-16 U.N.	1.712	3500	0.297
9 SS 8 MJB 10 X MJ 10	4.055	3.478	1.125	7/8-14 U.N.	7/8-14 U.N.	1.978	3500	0.297
9 SS 12 MJB 12 X MJ 12	4.454	3.805	1.375	$1^{1}/_{16}$-12 U.N.	$1^{1}/_{16}$-12 U.N.	2.288	3500	0.385
9 SS 16 MJB 16 X MJ 16	5.110	4.317	1.625	$1^{5}/_{16}$-12 U.N.	$1^{5}/_{16}$-12 U.N.	2.384	3500	0.550
9 SS 20 MJB 20 X MJ 20	5.740	4.730	1.875	$1^{5}/_{8}$-12 U.N.	$1^{5}/_{8}$-12 U.N.	2.970	3500	0.827

Female Pipe (N.P.T.F.) X Male Pipe (N.P.T.F.)

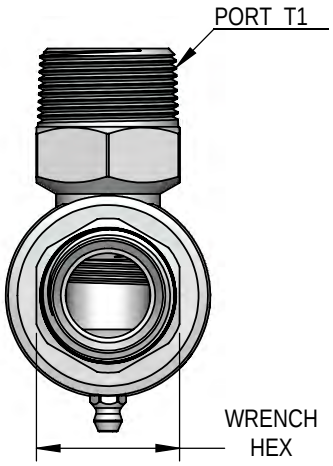


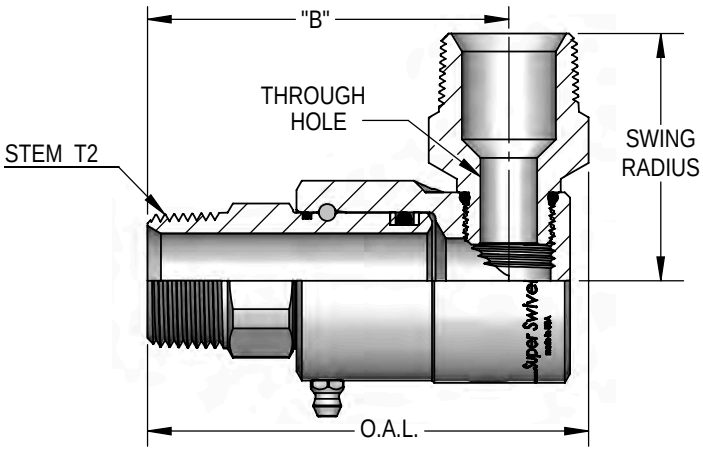


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In Stainless Steel!

PART NUMBER	O.A.L.	DIM. B	WRENCH/HEX	PORT T1	STEM T2	SWG. RADIUS	MAX. P.S.I.G.	THROUGH HOLE
9 SS 4 FP 25 X MP 25	2.510	2.000	0.750	1/4-18 N.P.T.F.	1/4-18 N.P.T.F.	1.440	3500	0.250
9 SS 8 FP 38 X MP 38	2.670	2.120	0.875	3/8-18 N.P.T.F.	3/8-18 N.P.T.F.	1.440	3500	0.297
9 SS 8 FP 38 X MP 50	2.670	2.120	0.875	1/2-14 N.P.T.F.	3/8-18 N.P.T.F.	1.440	3500	0.297
9 SS 8 FP 50 X MP 38	2.850	2.270	1.125	3/8-18 N.P.T.F.	1/2-14 N.P.T.F.	1.556	3500	0.297
9 SS 8 FP 50 X MP 50	2.850	2.270	1.125	1/2-14 N.P.T.F.	1/2-14 N.P.T.F.	1.848	3500	0.297
9 SS 12 FP 75 X MP 75	3.000	2.360	1.375	3/4-14 N.P.T.F.	3/4-14 N.P.T.F.	1.998	3500	0.484
9 SS 16 FP 100 X MP 100	3.780	3.020	1.625	1-11 1/2 N.P.T.F.	1-11 1/2 N.P.T.F.	2.370	3500	0.550
9 SS 20 FP 12 5 X MP 125	4.300	3.285	2.000	1 1/4-11 1/2 N.P.T.F.	1 1/4-11 1/2 N.P.T.F.	2.987	3500	0.827
9 SS 24 FP 150 X MP 150	5.190	4.040	2.375	1 1/2-11 1/2 N.P.T.F.	1 1/2-11 1/2 N.P.T.F.	3.050	3500	0.944

Male Pipe (N.P.T.F.) X Male Pipe (N.P.T.F.)



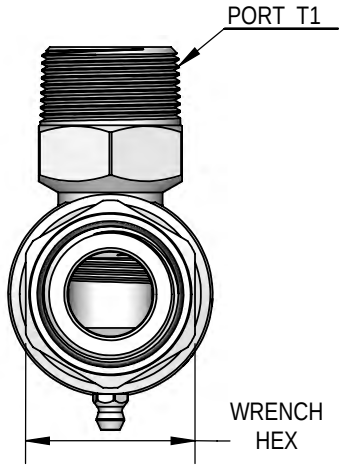


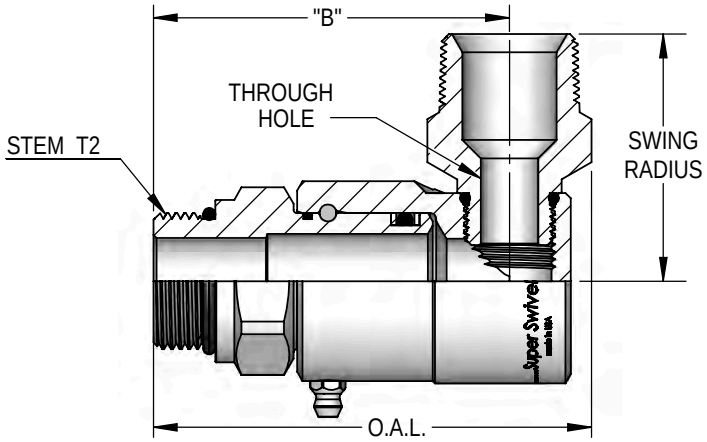
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PART NUMBER	O.A.L.	DIM. B	WRENCH/HEX	PORT T1	STEM T2	SWG. RADIUS	MAX. P.S.I.G.	THROUGH HOLE
9 SS 4 MP 25 X MP 25	2.640	2.130	0.625	1/4-18 N.P.T.F.	1/4-18 N.P.T.F.	1.440	3500	0.250
9 SS 4 MP 25 X MP 38	2.640	2.130	0.625	3/8-18 N.P.T.F.	1/4-18 N.P.T.F.	1.440	3500	0.297
9 SS 4 MP 38 X MP 38	2.720	2.200	0.750	3/8-18 N.P.T.F.	3/8-18 N.P.T.F.	1.440	3500	0.297
9 SS 8 MP 38 X MP 38	3.095	2.548	1.000	3/8-18 N.P.T.F.	3/8-18 N.P.T.F.	1.556	3500	0.297
9 SS 8 MP 38 X MP 50	3.095	2.548	1.000	1/2-14 N.P.T.F.	3/8-18 N.P.T.F.	1.848	3500	0.297
9 SS 8 MP 50 X MP 38	3.190	2.620	1.000	3/8-18 N.P.T.F.	1/2-14 N.P.T.F.	1.556	3500	0.297
9 SS 8 MP 50 X MP 50	3.190	2.620	1.000	1/2-14 N.P.T.F.	1/2-14 N.P.T.F.	1.848	3500	0.297
9 SS 12 MP 75 X MP 75	3.400	2.760	1.125	3/4-14 N.P.T.F.	3/4-14 N.P.T.F.	1.998	3500	0.484
9 SS 16 MP 100 X MP 100	4.225	3.462	1.375	1-11 1/2 N.P.T.F.	1-11 1/2 N.P.T.F.	2.370	3500	0.550
9 SS 20 MP 125 X MP 125	4.810	3.795	1.750	1 1/4-11 1/2 N.P.T.F.	1 1/4-11 1/2 N.P.T.F.	2.987	3500	0.827
9 SS 24 MP 150 X MP 150	5.775	4.620	2.000	1 1/2-11 1/2 N.P.T.F.	1 1/2-11 1/2 N.P.T.F.	3.050	3500	0.944

Male O-Ring (O.R.B.) X Male Pipe (N.P.T.F.)

Not Available
In Stainless Steel!

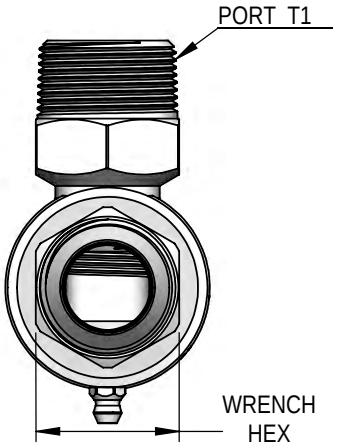


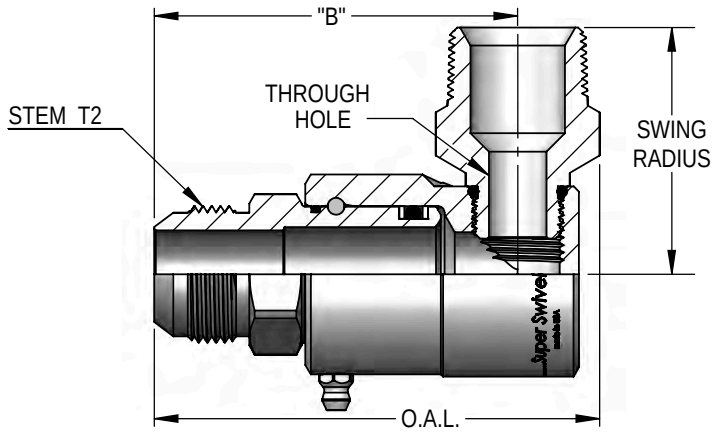


PART NUMBER	O.A.L.	DIM. B	WRENCH/HEX	PORT T1	STEM T2	SWG. RADIUS	MAX. P.S.I.G.	THROUGH HOLE
9 SS 4 MO 4 X MP 25	2.727	2.215	0.625	1/4-18 N.P.T.F.	7/16-20 U.N.	1.440	3500	0.172
9 SS 4 MO 6 X MP 25	2.727	2.215	0.750	1/4-18 N.P.T.F.	9/16-18 U.N.	1.440	3500	0.250
9 SS 4 MO 6 X MP 38	2.727	2.215	0.750	3/8-18 N.P.T.F.	9/16-18 U.N.	1.440	3500	0.297
9 SS 8 MO 8 X MP 38	2.923	2.376	1.000	3/8-18 N.P.T.F.	3/4-16 U.N.	1.556	3500	0.297
9 SS 8 MO 8 X MP 50	2.923	2.376	1.000	1/2-14 N.P.T.F.	3/4-16 U.N.	1.848	3500	0.297
9 SS 8 MO 10 X MP 38	3.045	2.498	1.000	3/8-18 N.P.T.F.	7/8-14 U.N.	1.556	3500	0.297
9 SS 8 MO 10 X MP 50	3.045	2.498	1.000	1/2-14 N.P.T.F.	7/8-14 U.N.	1.848	3500	0.297
9 SS 12 MO 12 X MP 75	3.389	2.749	1.375	3/4-14 N.P.T.F.	1 1/16-12 U.N.	1.998	3500	0.484
9 SS 16 MO 16 X MP 100	4.210	3.411	1.625	1-11 1/2 N.P.T.F.	1 5/16-12 U.N.	2.370	3500	0.550
9 SS 20 MO 20 X MP 125	4.477	3.755	1.875	1 1/4-11 1/2 N.P.T.F.	1 5/8-12 U.N.	2.987	3500	0.827
9 SS 24 MO 24 X MP 150	5.690	4.540	2.125	1 1/2-11 1/2 N.P.T.F.	1 7/8-12 U.N.	3.050	3500	0.944

Male J.I.C. (37°) X Male Pipe (N.P.T.F.)

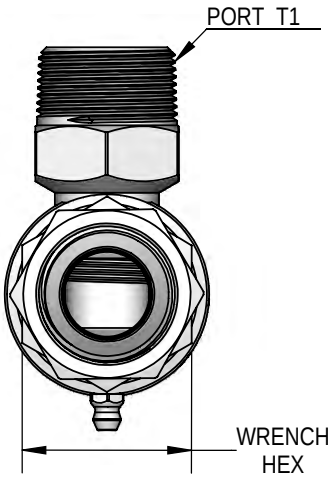
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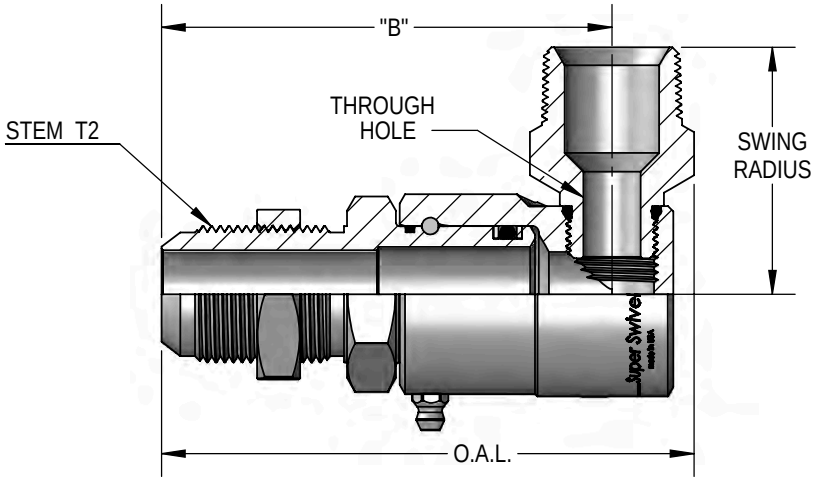




PART NUMBER	O.A.L.	DIM. B	WRENCH/HEX	PORT T1	STEM T2	SWG. RADIUS	MAX. P.S.I.G.	THROUGH HOLE
9 SS 4 MJ 4 X MP 25	2.837	2.325	0.625	1/4-18 N.P.T.F.	7/16-20 U.N.	1.440	3500	0.172
9 SS 4 MJ 6 X MP 25	2.857	2.345	0.625	1/4-18 N.P.T.F.	9/16-18 U.N.	1.440	3500	0.250
9 SS 4 MJ 6 X MP 38	2.857	2.345	0.625	3/8-18 N.P.T.F.	9/16-18 U.N.	1.440	3500	0.250
9 SS 8 MJ 8 X MP 38	3.060	2.513	1.000	3/8-18 N.P.T.F.	3/4-16 U.N.	1.556	3500	0.297
9 SS 8 MJ 8 X MP 50	3.060	2.513	1.000	1/2-14 N.P.T.F.	3/4-16 U.N.	1.848	3500	0.297
9 SS 8 MJ 10 X MP 38	3.160	2.613	1.000	3/8-18 N.P.T.F.	7/8-14 U.N.	1.556	3500	0.250
9 SS 8 MJ 10 X MP 50	3.160	2.613	1.000	1/2-14 N.P.T.F.	7/8-14 U.N.	1.848	3500	0.297
9 SS 12 MJ 12 X MP 75	3.525	2.885	1.125	3/4-14 N.P.T.F.	1 1/16-12 U.N.	1.998	3500	0.484
9 SS 16 MJ 16 X MP 100	4.290	3.482	1.375	1-11 1/2 N.P.T.F.	1 5/16-12 U.N.	2.370	3500	0.550
9 SS 20 MJ 20 X MP 125	4.850	3.835	1.750	1 1/4-11 1/2 N.P.T.F.	1 5/8-12 U.N.	2.987	3500	0.827
9 SS 24 MJ 24 X MP 150	5.862	4.710	2.000	1 1/2-11 1/2 N.P.T.F.	1 7/8-12 U.N.	3.050	3500	0.944

Male J.I.C. Bulkhead (37°) X Male Pipe (N.P.T.F.)

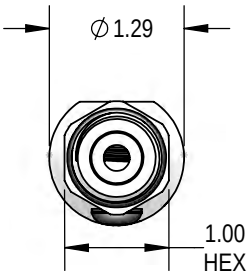


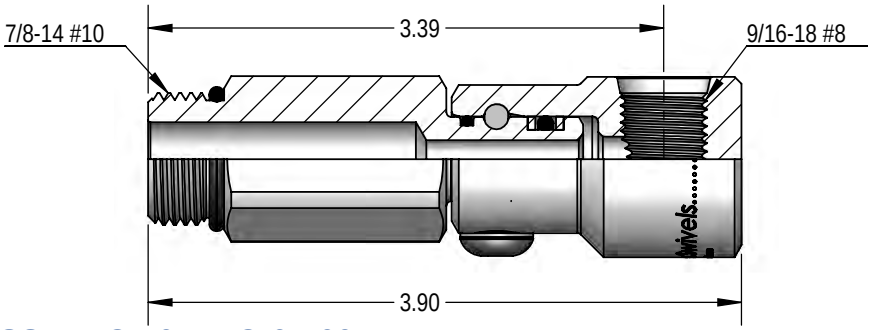


Not Available In Stainless Steel!

PART NUMBER	O.A.L.	DIM. B	WRENCH/HEX	PORT T1	STEM T2	SWG. RADIUS	MAX. P.S.I.G.	THROUGH HOLE
9 SS 4 MJB 6 X MP 25	2.837	2.370	0.812	1/4-18 N.P.T.F.	9/16-18 U.N.	1.454	3500	0.250
9 SS 8 MJB 8 X MP 38	3.805	3.258	1.000	3/8-18 N.P.T.F.	3/4-16 U.N.	1.556	3500	0.297
9 SS 8 MJB 8 X MP 50	3.805	3.258	1.000	1/2-14 N.P.T.F.	3/4-16 U.N.	1.848	3500	0.297
9 SS 8 MJB 10 X MP 50	4.025	3.478	1.125	1/2-14 N.P.T.F.	7/8-14 U.N.	1.848	3500	0.297
9 SS 12 MJB 12 X MP 75	4.445	3.805	1.375	3/4-14 N.P.T.F.	$1^{1}/_{16}$-12 U.N.	1.998	3500	0.484
9 SS 16 MJB 16 X MP 100	4.905	4.317	1.625	1-$11^{1}/_{2}$ N.P.T.F.	$1^{5}/_{16}$-12 U.N.	2.370	3500	0.550
9 SS 20 MJB 20 X MP 125	5.575	4.730	1.875	$1^{1}/_{4}$-$11^{1}/_{2}$ N.P.T.F.	$1^{5}/_{8}$-12 U.N.	2.987	3500	0.827

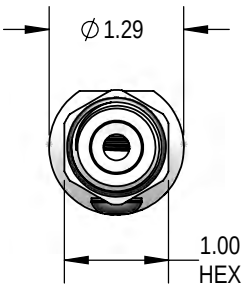
Wheel Motor Swivels

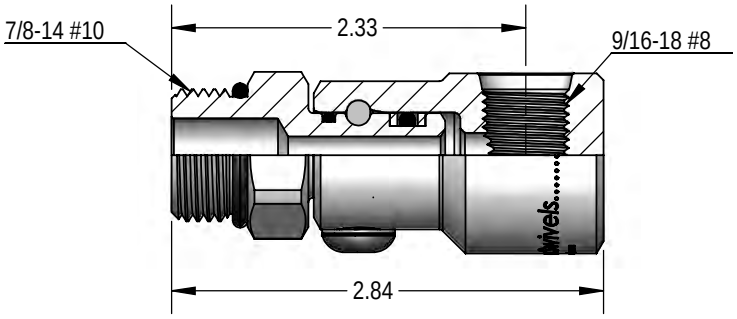




9 SS 4 MO 10 X FO 6 - 001 - Z - V

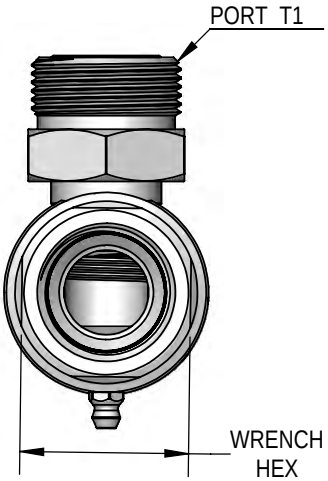
Not Available In Stainless Steel!

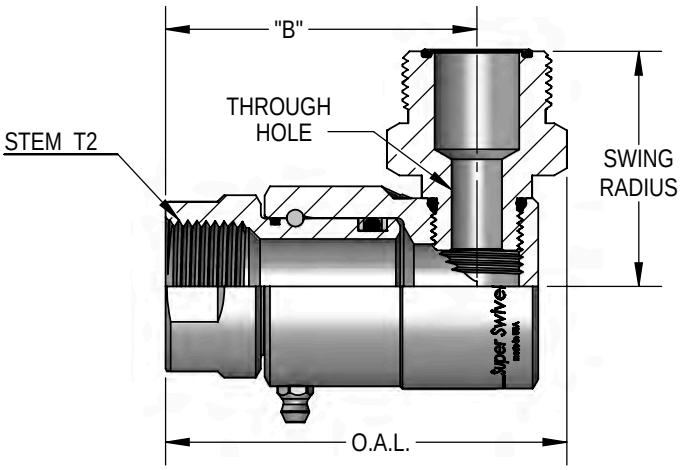




9 SS 4 MO 10 X FO 6 - Z - V

Female Pipe (N.P.T.F.) X Male Face Seal (M.F.S.)

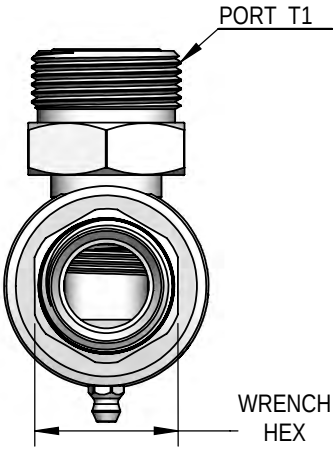


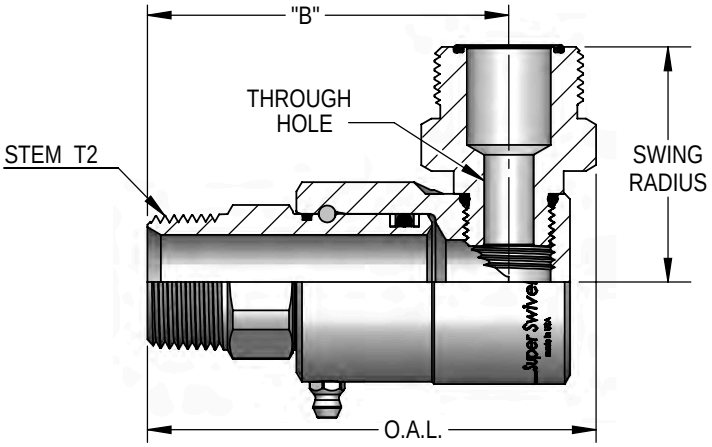


Not Available In Stainless Steel!

PART NUMBER	O.A.L.	DIM. B	WRENCH/HEX	PORT T1	STEM T2	SWG. RADIUS	MAX. P.S.I.G.	THROUGH HOLE
9 SS 4 FP 25 X MFS 6	2.510	2.000	0.750	11/16-16 U.N.	1/4-18 N.P.T.F.	1.314	5000	0.265
9 SS 8 FP 38 X MFS 6	2.670	2.120	0.875	11/16-16 U.N.	3/8-18 N.P.T.F.	1.432	5000	0.265
9 SS 8 FP 38 X MFS 8	2.670	2.120	0.875	13/16-16 U.N.	3/8-18 N.P.T.F.	1.669	5000	0.265
9 SS 8 FP 50 X MFS 8	2.850	2.270	1.125	13/16-16 U.N.	1/2-14 N.P.T.F.	1.669	5000	0.265
9 SS 8 FP 50 X MFS 10	2.850	2.270	1.125	1-14 U.N.	1/2-14 N.P.T.F.	1.826	5000	0.265
9 SS 12 FP 75 X MFS 12	3.000	2.360	1.375	1 3/16-12 U.N.	3/4-14 N.P.T.F.	2.089	4500	0.389
9 SS 16 FP 100 X MFS 16	3.860	2.980	1.625	1 7/16-12 U.N.	1-11 1/2 N.P.T.F.	2.255	4000	0.484
9 SS 20 FP 125 X MFS 20	4.300	3.285	2.000	1 11/16-12 U.N.	1 1/4-11 1/2 N.P.T.F.	2.658	4000	0.718
9 SS 24 FP 150 X MFS 24	5.260	4.040	2.370	2-12 U.N.	1 1/2-11 1/2 N.P.T.F.	2.904	4000	0.844

Male Pipe (N.P.T.F.) X Male Face Seal (M.F.S.)

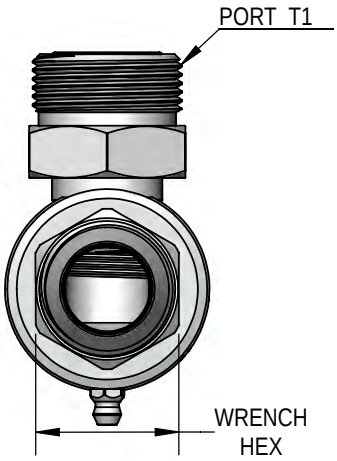


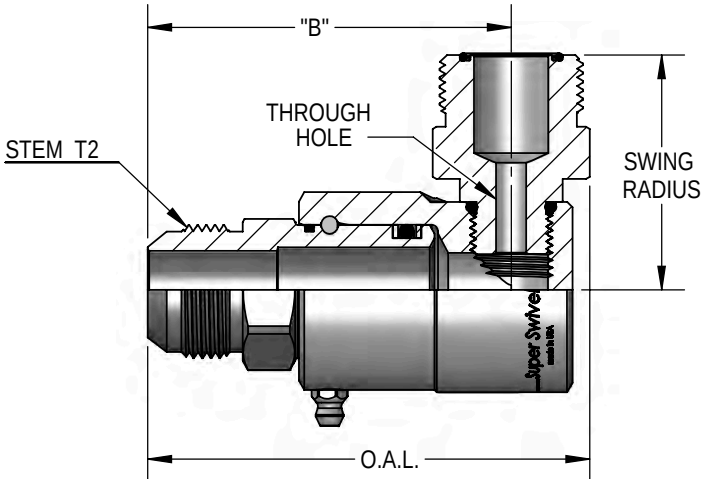


Not Available In Stainless Steel!

PART NUMBER	O.A.L.	DIM. B	WRENCH/HEX	PORT T1	STEM T2	SWG. RADIUS	MAX. P.S.I.G.	THROUGH HOLE
9 SS 4 MP 25 X MFS 6	2.640	2.130	0.625	11/16-16 U.N.	1/4-18 N.P.T.F.	1.314	5000	0.265
9 SS 4 MP 38 X MFS 6	2.720	2.210	0.750	11/16-16 U.N.	3/8-18 N.P.T.F.	1.314	5000	0.265
9 SS 8 MP 38 X MFS 6	2.670	2.125	1.000	11/16-16 U.N.	3/8-18 N.P.T.F.	1.432	5000	0.265
9 SS 8 MP 38 X MFS 8	2.670	2.125	1.000	13/16-16 U.N.	3/8-18 N.P.T.F.	1.669	5000	0.265
9 SS 8 MP 50 X MFS 8	3.170	2.620	1.000	13/16-16 U.N.	1/2-14 N.P.T.F.	1.669	5000	0.265
9 SS 8 MP 50 X MFS 10	3.170	2.620	1.000	1-14 U.N.	1/2-14 N.P.T.F.	1.826	5000	0.265
9 SS 12 MP 75 X MFS 12	3.400	2.760	1.125	1 3/16-12 U.N.	3/4-14 N.P.T.F.	2.089	4500	0.389
9 SS 16 MP 100 X MFS 16	4.320	3.462	1.375	1 7/16-12 U.N.	1-11 1/2 N.P.T.F.	2.255	4000	0.484
9 SS 20 MP 125 X MFS 20	4.800	3.795	1.750	1 11/16-12 U.N.	1 1/4-11 1/2 N.P.T.F.	2.658	4000	0.718
9 SS 24 MP 150 X MFS 24	5.846	4.620	1.995	2-12 U.N.	1 1/4-11 1/2 N.P.T.F.	2.904	4000	0.844

Male J.I.C. (37°) X Male Face Seal (M.F.S.)

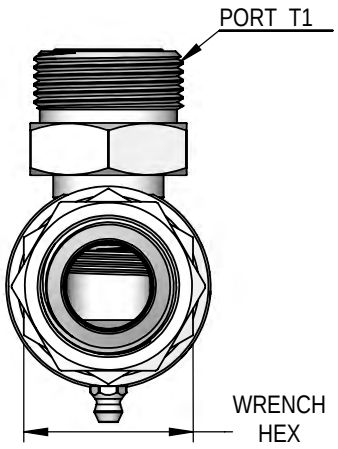


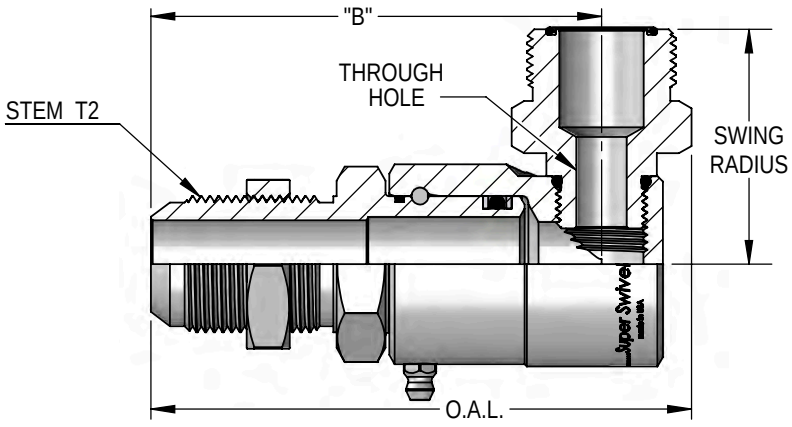


Not Available In Stainless Steel!

PART NUMBER	O.A.L.	DIM. B	WRENCH/HEX	PORT T1	STEM T2	SWG. RADIUS	MAX. P.S.I.G.	THROUGH HOLE
9 SS 4 MJ 4 X MFS 4	2.837	2.325	0.625	9/16-18 U.N.	7/16-20 U.N.	1.266	5000	0.172
9 SS 4 MJ 6 X MFS 6	2.857	2.345	0.625	11/16-16 U.N.	9/16-18 U.N.	1.314	5000	0.265
9 SS 8 MJ 8 X MFS 6	3.070	2.523	1.000	11/16-16 U.N.	3/4-16 U.N.	1.432	5000	0.265
9 SS 8 MJ 8 X MFS 8	3.070	2.523	1.000	13/16-16 U.N.	3/4-16 U.N.	1.669	5000	0.265
9 SS 8 MJ 8 X MFS 10	3.070	2.523	1.000	1-14 U.N.	3/4-16 U.N.	1.826	5000	0.265
9 SS 8 MJ 10 X MFS 8	3.160	2.613	1.000	13/16-16 U.N.	7/8-14 U.N.	1.669	5000	0.265
9 SS 8 MJ 10 X MFS 10	3.160	2.613	1.000	1-14 U.N.	7/8-14 U.N.	1.826	5000	0.265
9 SS 12 MJ 12 X MFS 12	3.525	2.885	1.125	$1^{3}/_{16}$-12 U.N.	$1^{1}/_{16}$-12 U.N.	2.089	4500	0.389
9 SS 16 MJ 16 X MFS 16	4.070	3.482	1.375	$1^{7}/_{16}$-12 U.N.	$1^{5}/_{16}$-12 U.N.	2.255	4000	0.484
9 SS 20 MJ 20 X MFS 20	4.680	3.835	1.750	$1^{11}/_{16}$-12 U.N.	$1^{5}/_{8}$-12 U.N.	2.658	4000	0.718
9 SS 24 MJ 24 X MFS 24	5.930	4.710	2.000	2-12 U.N.	$1^{7}/_{8}$-12 U.N.	2.904	4000	0.844

Male J.I.C. Bulkhead (37°) X Male Face Seal (M.F.S.)

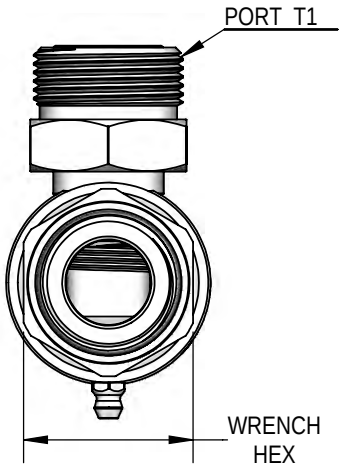


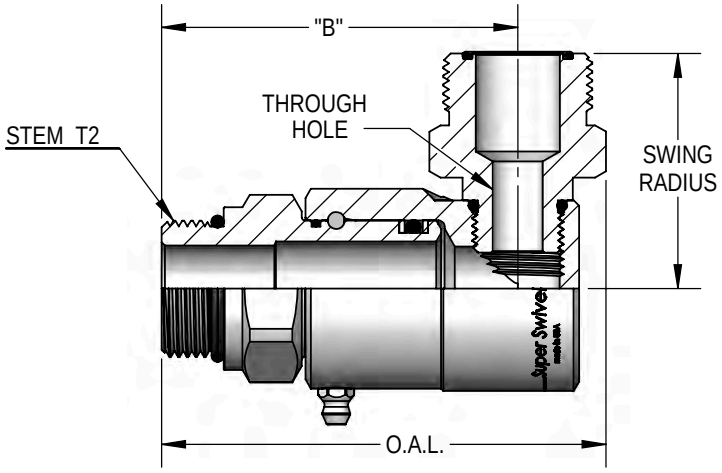


Not Available In Stainless Steel!

PART NUMBER	O.A.L.	DIM. B	WRENCH/HEX	PORT T1	STEM T2	SWG. RADIUS	MAX. P.S.I.G.	THROUGH HOLE
9 SS 4 MJB 6 X MFS 6	3.500	2.990	.812	11/16-16 U.N.	9/16-18 U.N.	1.440	5000	0.250
9 SS 8 MJB 8 X MFS 6	3.805	3.258	1.000	11/16-16 U.N.	3/4-16 U.N.	1.432	5000	0.265
9 SS 8 MJB 8 X MFS 8	3.805	3.258	1.000	13/16-16 U.N.	3/4-16 U.N.	1.669	5000	0.265
9 SS 8 MJB 8 X MFS 10	3.805	3.258	1.000	1-14 U.N.	3/4-16 U.N.	1.826	5000	0.265
9 SS 8 MJB 10 X MFS 6	4.025	3.478	1.125	11/16-16 U..N	7/8-14 U.N.	1.432	5000	0.265
9 SS 8 MJB 10 X MFS 8	4.025	3.478	1.125	13/16-16 U.N.	7/8-14 U.N.	1.669	5000	0.265
9 SS 8 MJB 10 X MFS 10	4.025	3.478	1.125	1-14 U.N.	7/8-14 U.N.	1.826	5000	0.265
9 SS 12 MJB 12 X MFS 12	4.445	3.805	1.375	$1^{3}/_{16}$-12 U.N.	$1^{1}/_{16}$-12 U.N.	2.089	4500	0.389
9 SS 16 MJB 16 X MFS 16	5.200	4.317	1.625	$1^{7}/_{16}$-12 U.N.	$1^{5}/_{16}$-12 U.N.	2.255	4000	0.484
9 SS 20 MJB 20 X MFS 20	5.750	4.730	1.875	$1^{11}/_{16}$-12 U.N.	$1^{5}/_{8}$-12 U.N.	2.658	4000	0.718

Male O-Ring (O.R.B.) X Male Face Seal (M.F.S.)

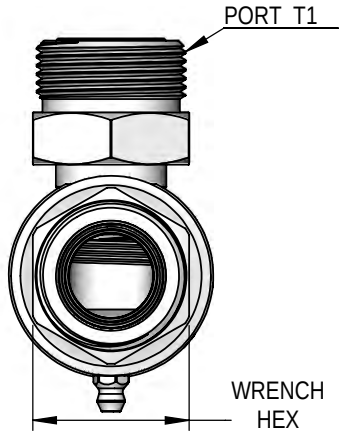


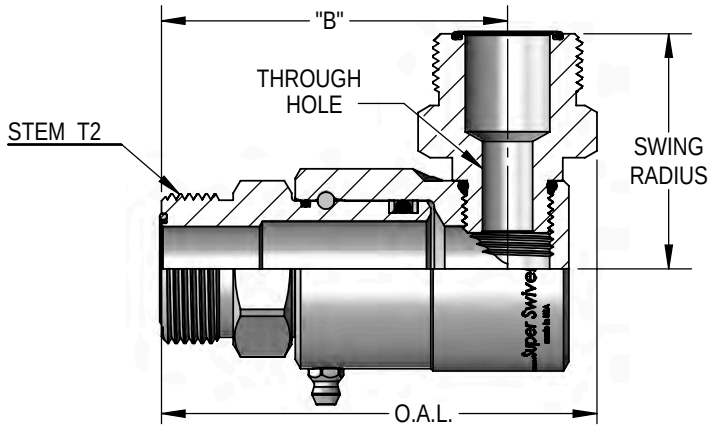


Not Available In Stainless Steel!

PART NUMBER	O.A.L.	DIM. B	WRENCH/HEX	PORT T1	STEM T2	SWG. RADIUS	MAX. P.S.I.G.	THROUGH HOLE
9 SS 4 MO 4 X MFS 4	2.727	2.215	0.625	9/16-18 U.N.	7/16-20 U.N.	1.266	5000	0.172
9 SS 4 MO 6 X MFS 6	2.727	2.215	0.750	11/16-16 U.N.	9/16-18 U.N.	1.314	5000	0.265
9 SS 8 MO 8 X MFS 6	2.923	2.376	1.000	11/16-16 U.N.	3/4-16 U.N.	1.432	5000	0.265
9 SS 8 MO 8 X MFS 8	2.923	2.376	1.000	13/16-16 U.N.	3/4-16 U.N.	1.669	5000	0.265
9 SS 8 MO 8 X MFS 10	2.923	2.376	1.000	1-14 U.N.	3/4-16 U.N.	1.826	5000	0.265
9 SS 8 MO 10 X MFS 8	3.045	2.498	1.000	13/16-16 U.N.	7/8-14 U.N.	1.669	5000	0.265
9 SS 8 MO 10 X MFS 10	3.045	2.498	1.000	1-14 U.N.	7/8-14 U.N.	1.826	5000	0.265
9 SS 12 MO 12 X MFS 12	3.389	2.749	1.375	1 3/16-12 U.N.	1 1/16-12 U.N.	2.089	4500	0.389
9 SS 16 MO 16 X MFS 16	4.270	3.411	1.625	1 7/16-12 U.N.	1 5/16-12 U.N.	2.255	4000	0.484
9 SS 20 MO 20 X MFS 20	4.780	3.755	1.875	1 11/16-12 U.N.	1 5/8-12 U.N.	2.658	4000	0.718
9 SS 24 MO 24 X MFS 24	5.760	4.540	2.125	2-12 U.N.	1 7/8-12 U.N.	2.904	4000	0.844

Male Face Seal (M.F.S.) X Male Face Seal (M.F.S.)

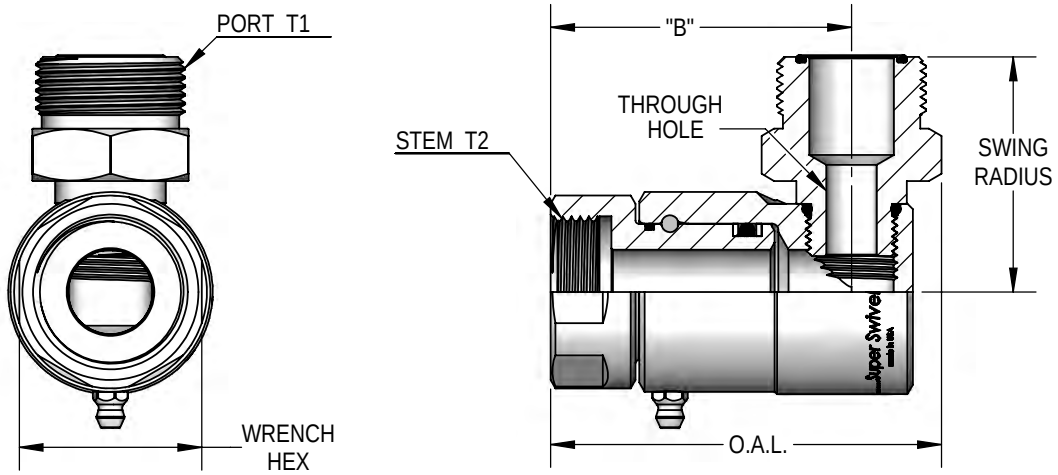




Not Available In Stainless Steel!

PART NUMBER	O.A.L.	DIM. B	PORT T1	STEM T2	WRENCH/HEX	SWING RADIUS	MAX P.S.I.G.	THROUGH HOLE
9 SS 4 MFS 6 X MFS 6	2.688	2.176	11/16-16 U.N.	11/16-16 U.N.	0.750	1.450	5000	0.250
9 SS 8 MFS 8 X MFS 8	2.909	2.362	13/16-16 U.N.	13/16-16 U.N.	1.000	1.706	5000	0.264
9 SS 8 MFS 10 X MFS 10	3.105	2.558	1-14 U.N.	1-14 U.N.	1.125	1.826	5000	0.297
9 SS 12 MFS 12 XMFS 12	3.385	2.745	1 3/16-12 U.N.	1 3/16-12 U.N.	1.250	2.135	4500	0.378
9 SS 16 MFS 16 X MFS 16	4.190	3.316	1 7/16-12 U.N.	1 7/16-12 U.N.	1.500	2.255	4000	0.484
9 SS 20 MFS 20 X MFS 20	4.670	3.649	1 11/16-16 U.N.	1 11/16-12 U.N.	1.750	2.658	4000	0.718
9 SS 24 MFS 24 X MFS 24	5.600	4.370	2-12 U.N.	2-12 U.N.	2.125	2.845	4000	0.811

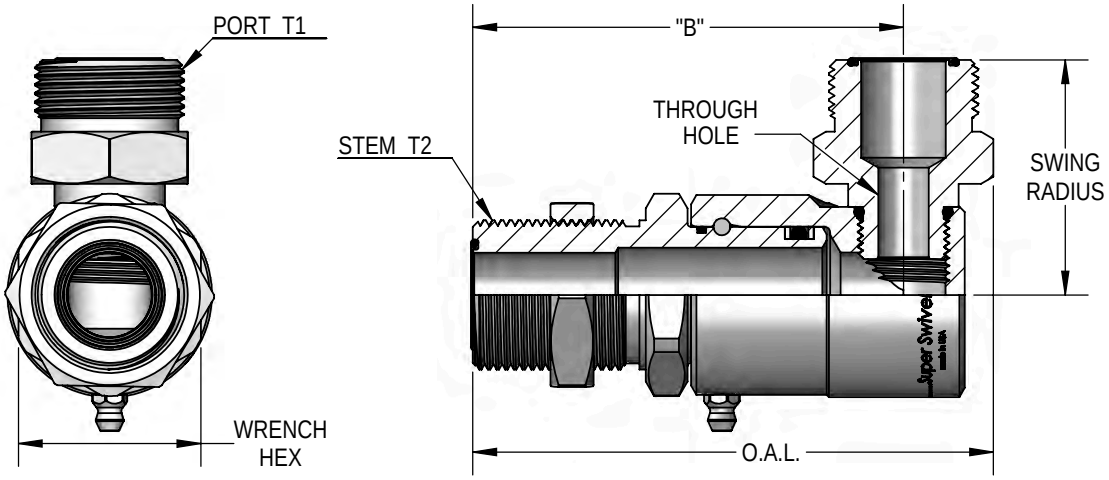
Female Face Seal (F.F.S.) X Male Face Seal (M.F.S.)



Not Available In Stainless Steel!

PART NUMBER	O.A.L.	DIM. B	DIM. C	PORT T1	STEM T2	WRENCH/HEX	SWING RADIUS	MAX P.S.I.G.	THROUGH HOLE
9 SS 4 FFS 6 X MFS 6	2.465	1.950	0.375	11/16-16 U.N.	11/16-16 U.N.	0.875	1.450	5000	0.250
9 SS 8 FFS 8 X MFS 8	2.670	2.120	0.433	13/16-16 U.N.	13/16-16 U.N.	1.120	1.706	5000	0.264
9 SS 8 FFS 10 X MFS 10	2.720	2.170	0.504	1-14 U.N.	1-14 U.N.	1.250	1.826	5000	0.297
9 SS 12 FFS 12 X MFS 12	2.950	2.310	0.571	$1^{3}/_{16}$-12 U.N.	$1^{3}/_{16}$-12 U.N.	1.500	2.135	4500	0.378
9 SS 16 FFS 16 X MFS 16	3.370	2.890	0.583	$1^{7}/_{16}$-12 U.N.	$1^{7}/_{16}$-12 U.N.	1.750	2.255	4000	0.484
9 SS 20 FFS 20 X MFS 20	4.190	3.180	0.583	$1^{11}/_{16}$-16 U.N.	$1^{11}/_{16}$-12 U.N.	2.125	2.658	4000	0.718
9 SS 24 FFS 24 X MFS 24	5.060	3.840	0.583	2-12 U.N.	2-12 U.N.	2.375	2.845	4000	0.811

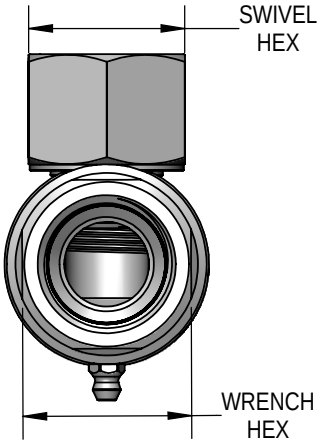
Male Face Seal Bulkhead (M.F.S.B.) X Male Face Seal (M.F.S.)

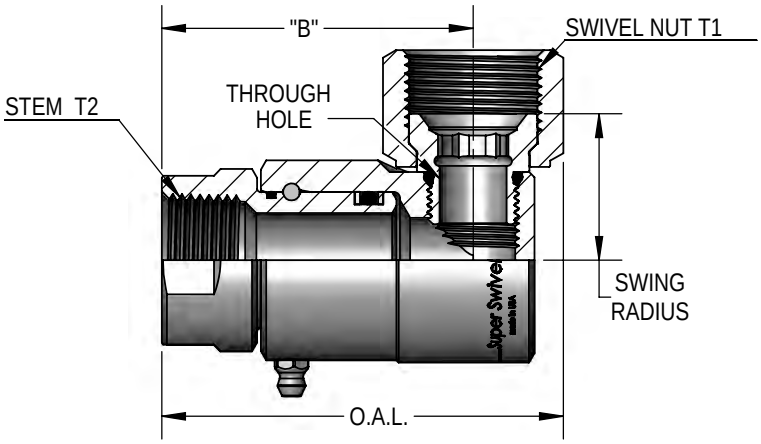


Not Available In Stainless Steel!

PART NUMBER	O.A.L.	DIM. B	PORT T1	STEM T2	WRENCH/HEX	SWING RADIUS	MAX P.S.I.G.	THROUGH HOLE
9 SS 4 MFSB 6 X MFS 6	3.587	3.075	11/16-16 U.N.	11/16-16 U.N.	1.000	1.450	5000	0.250
9 SS 8 MFSB 8 X MFS 8	3.805	3.258	13/16-16 U.N.	13/16-16 U.N.	1.125	1.706	5000	0.264
9 SS 8 MFSB 10 X MFS 10	3.965	3.418	1-14 U.N.	1-14 U.N.	1.125	1.826	5000	0.297
9 SS 12 MFSB 12 X MFS 12	4.245	3.605	$1^{3}/_{16}$-12 U.N.	$1^{3}/_{16}$-12 U.N.	1.500	2.135	4500	0.378
9 SS 16 MFSB 16 X MFS 16	5.000	4.127	$1^{7}/_{16}$-12 U.N.	$1^{7}/_{16}$-12 U.N.	1.750	2.255	4000	0.484
9 SS 20 MFSB 20 X MFS 20	5.430	4.420	$1^{11}/_{16}$-12 U.N.	$1^{11}/_{16}$-12 U.N.	2.000	2.658	4000	0.718

Female Pipe (N.P.T.F.) X J.I.C. Swivel Nut (37°)

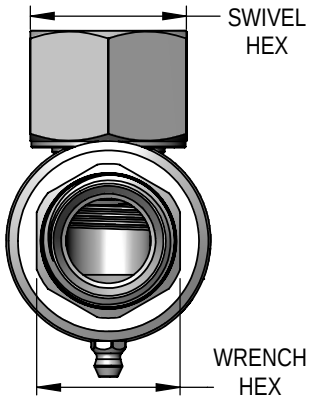


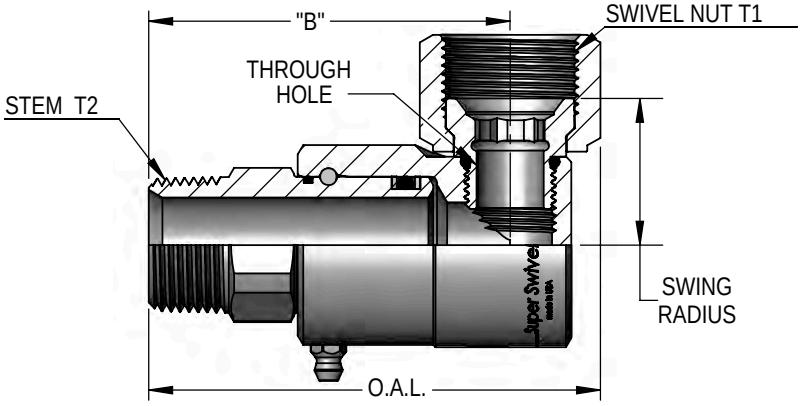


Not Available
In Stainless Steel!

PART NUMBER	O.A.L.	DIM. B	SWIVEL HEX	WRENCH/HEX	SWIVEL NUT T1	STEM T2	SWG. RADIUS	MAX P.S.I.G.	THROUGH HOLE
9 SS 4 FP 25 X FJS 4	2.510	2.000	0.562	0.750	7/16-20 U.N.	1/4-18 N.P.T.F.	1.171	3500	0.165
9 SS 4 FP 25 X FJS 6	2.510	2.000	0.687	0.750	9/16-18 U.N.	1/4-18 N.P.T.F.	1.167	3500	0.250
9 SS 8 FP 38 X FJS 6	2.670	2.120	0.687	0.875	9/16-18 U.N.	3/8-18 N.P.T.F.	1.283	3500	0.290
9 SS 8 FP 50 X FJS 8	2.850	2.270	0.875	1.125	3/4-16 U.N.	1/2-14 N.P.T.F.	1.254	3500	0.290
9 SS 8 FP 50 X FJS 10	2.880	2.270	1.000	1.125	7/8-14 U.N.	1/2-14 N.P.T.F.	1.017	4500	0.320
9 SS 12 FP 75 X FJS 12	3.080	2.360	1.250	1.375	$1^{1}/_{16}$-12 U.N.	3/4-14 N.P.T.F.	1.040	4500	0.460
9 SS 16 FP 100 X FJS 16	3.840	2.980	1.500	1.625	$1^{5}/_{16}$-12 U.N.	1-11 1/2 N.P.T.F.	1.277	4000	0.650
9 SS 20 FP 125 X FJS 20	4.430	3.285	2.00	2.000	$1^{5}/_{8}$-12 U.N.	$1^{1}/_{4}$-11 1/2 N.P.T.F.	1.403	4000	0.790
9 SS 24 FP 150 X FJS 24	5.335	4.040	2.250	2.375	$1^{7}/_{8}$-12 U.N.	$1^{1}/_{2}$-11 1/2 N.P.T.F.	1.699	4000	0.920

Male Pipe (N.P.T.F.) X J.I.C. Swivel Nut (37°)

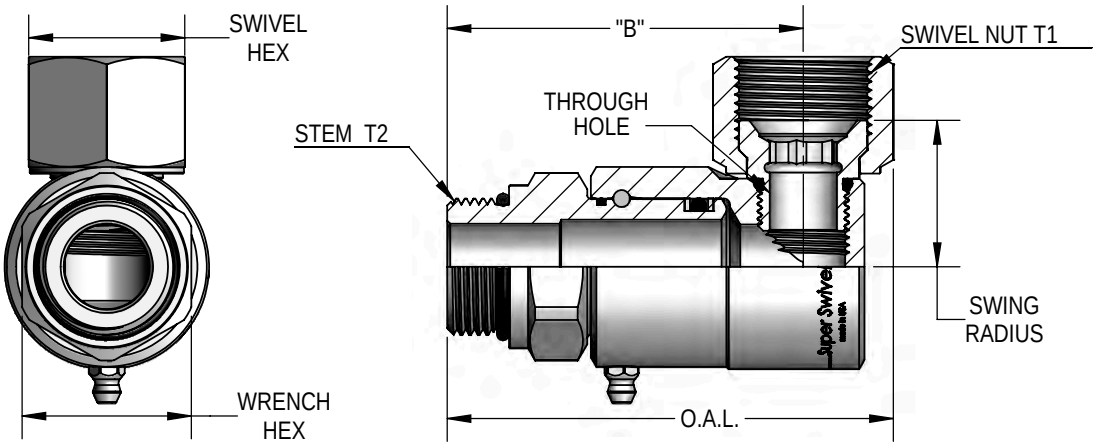




Not Available
In Stainless Steel!

PART NUMBER	O.A.L.	DIM. B	SWIVEL HEX	WRENCH/HEX	SWIVEL NUT T1	STEM T2	SWG. RADIUS	MAX P.S.I.G.	THROUGH HOLE
9 SS 4 MP 25 X FJS 4	2.640	2.130	0.562	0.625	7/16-20 U.N.	1/4-18 N.P.T.F.	1.171	3500	0.165
9 SS 4 MP 38 X FJS 4	2.720	2.210	0.562	0.750	7/16-20 U.N.	3/8-18 N.P.T	1.171	3500	0.165
9 SS 4 MP 25 X FJS 6	2.640	2.130	0.687	0.625	9/16-18 U.N.	1/4-18 N.P.T.F.	1.167	3500	0.250
9 SS 4 MP 38 X FJS 6	2.720	2.210	0.687	0.750	9/16-18 U.N.	3/8-18 N.P.T	1.167	3500	0.250
9 SS 8 MP 38 X FJS 6	3.052	2.548	0.687	1.000	9/16-18 U.N.	3/8-18 N.P.T.F.	1.283	3500	0.290
9 SS 8 MP 50 X FJS 8	3.170	2.620	0.875	1.000	3/4-16 U.N.	1/2-14 N.P.T.F.	1.254	3500	0.290
9 SS 8 MP 50 X FJS 10	3.170	2.620	1.000	1.000	7/8-14 U.N.	1/2-14 N.P.T.F.	1.017	4500	0.320
9 SS 12 MP 75 X FJS 12	3.481	2.760	1.250	1.125	1 1/16-12 U.N.	3/4-14 N.P.T.F.	1.040	4500	0.460
9 SS 16 MP 100 X FJS 16	4.327	3.462	1.500	1.375	1 5/16-12 U.N.	1-11 1/2 N.P.T.F.	1.277	4000	0.650
9 SS 20 MP 125 X FJS 20	4.949	3.795	2.000	1.750	1 5/8-12 U.N.	$1^{1}/_{4}$-11 1/2 N.P.T.F.	1.403	4000	0.790
9 SS 24 MP 150 X FJS 24	5.910	4.620	2.250	2.000	1 7/8-12 U.N.	$1^{1}/_{2}$-11 1/2 N.P.T.F.	1.699	4000	0.920

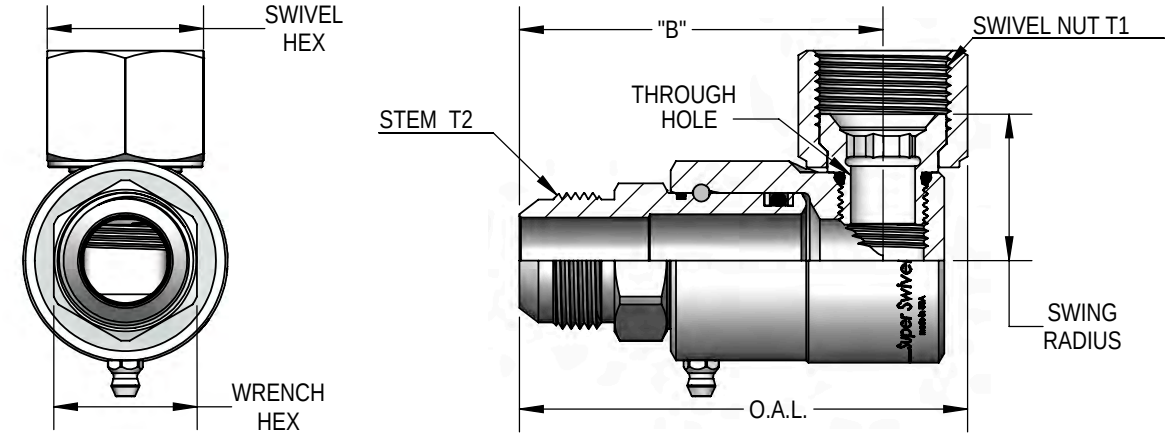
Male O-Ring (O.R.B.) X J.I.C. Swivel Nut (37°)



Not Available In Stainless Steel!

PART NUMBER	O.A.L.	DIM. B	SWIVEL HEX	WRENCH/HEX	SWIVEL NUT T1	STEM T2	SWG. RADIUS	MAX P.S.I.G.	THROUGH HOLE
9 SS 4 MO 6 X FJS 4	2.727	2.215	0.562	0.750	7/16-20 U.N.	9/16-18 U.N.	1.171	3500	0.165
9 SS 4 MO 6 X FJS 6	2.727	2.215	0.687	0.750	9/16-18 U.N.	9/16-18 U.N.	1.167	3500	0.250
9 SS 8 MO 8 X FJS 6	2.923	2.376	0.687	1.000	9/16-18 U.N.	3/4-16 U.N.	1.283	3500	0.290
9 SS 8 MO 8 X FJS 8	2.953	2.376	0.875	1.000	3/4-16 U.N.	3/4-16 U.N.	1.254	3500	0.290
9 SS 8 MO 10 X FJS 10	3.075	2.498	1.000	1.000	7/8-14 U.N.	7/8-14 U.N.	1.017	4500	0.320
9 SS 12 MO 12 X FJS 12	3.470	2.749	1.250	1.375	1 1/16-12 U.N.	1 1/16-12 U.N.	1.040	4500	0.460
9 SS 16 MO 16 X FJS 16	4.276	3.411	1.500	1.625	1 5/16-12 U.N.	1 5/16-12 U.N.	1.277	4000	0.650
9 SS 20 MO 20 X FJS 20	4.909	3.755	2.000	1.875	1 5/8-12 U.N.	1 5/8-12 U.N.	1.403	4000	0.790
9 SS 24 MO 24 X FJS 24	5.830	4.540	2.250	2.125	1 7/8-12 U.N.	1 7/8 -12 U.N.	1.699	4000	0.920

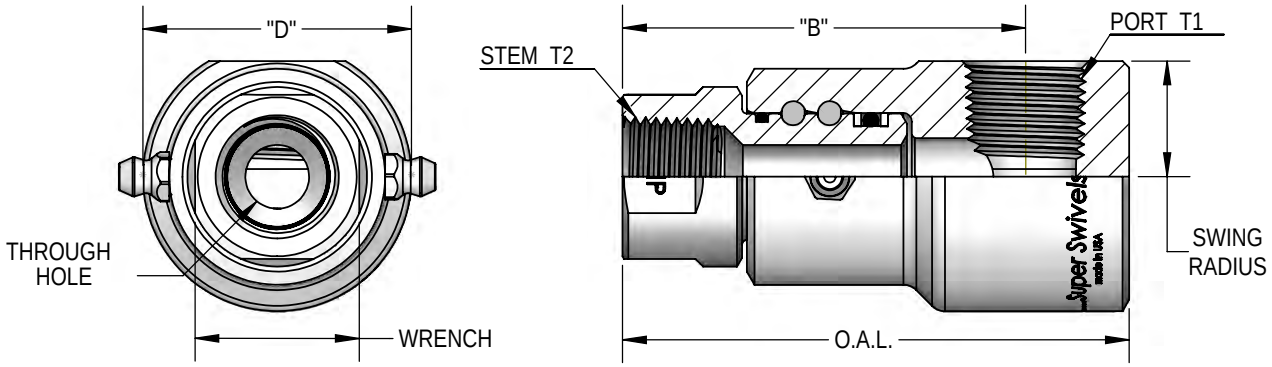
Male J.I.C. (37°) X J.I.C. Swivel Nut (37°)



Not Available In Stainless Steel!

PART NUMBER	O.A.L.	DIM. B	SWIVEL HEX	WRENCH/HEX	SWIVEL NUT T1	STEM T2	SWG. RADIUS	MAX P.S.I.G.	THROUGH HOLE
9 SS 4 MJ 6 X FJS 4	2.887	2.375	0.562	0.625	7/16-20 U.N.	9/16-18 U.N.	1.171	3500	0.165
9 SS 4 MJ 6 X FJS 6	2.887	2.375	0.687	0.625	9/16-18 U.N.	9/16-18 U.N.	1.167	3500	0.250
9 SS 8 MJ 8 X FJS 6	3.070	2.523	0.687	1.000	9/16-18 U.N.	3/4-16 U.N.	1.283	3500	0.290
9 SS 8 MJ 8 X FJS 8	3.100	2.523	0.875	1.000	3/4-16 U.N.	3/4-16 U.N.	1.254	3500	0.290
9 SS 8 MJ 8 X FJS 10	3.100	2.523	1.000	1.000	7/8-14 U.N.	3/4-16 U.N.	1.017	4500	0.320
9 SS 8 MJ 10 X FJS 10	3.200	2.623	1.000	1.000	7/8-14 U.N.	7/8-14 U.N.	1.017	4500	0.320
9 SS 12 MJ 12 X FJS 12	3.606	2.885	1.250	1.125	1 1/16-12 U.N.	1 1/16-12 U.N.	1.040	4500	0.460
9 SS 16 MJ 16 X FJS 16	4.348	3.482	1.500	1.375	1 5/16-12 U.N.	1 5/16-12 U.N.	1.277	4000	0.650
9 SS 20 MJ 20 X FJS 20	4.989	3.835	2.000	1.750	1 5/8-12 U.N.	1 5/8-12 U.N.	1.403	4000	0.790
9 SS 24 MJ 24 X FJS 24	6.000	4.710	2.250	2.000	1 7/8-12 U.N.	1 7/8-12 U.N.	1.699	4000	0.920

10,000 P.S.I. Female Pipe (N.P.T.F.) X Female Pipe N.P.T.F.)

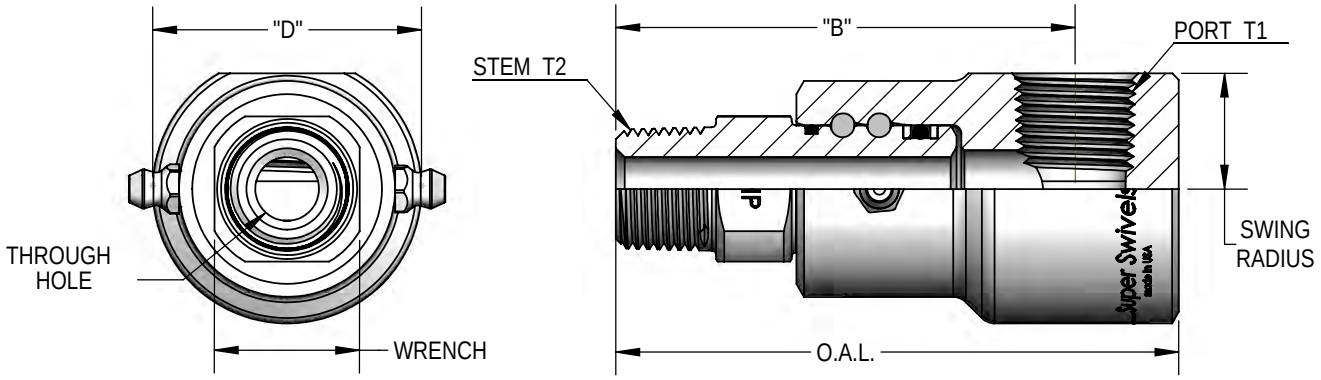


Not Available In Stainless Steel!

PART NUMBER	O.A.L.	DIM. B	DIM. D Ø	WRENCH	PORT T1	STEM T2	SWG. RADIUS	MAX. P.S.I.G.	THROUGH HOLE
9 SS 8 HP FP 38 X FP 38	2.940	2.340	1.520	1.125	3/8-18 N.P.T.F.	3/8-18 N.P.T.F.	0.660	10,000	0.437
9 SS 8 HP FP 50 X FP 50	3.470	2.895	1.842	1.125	1/2-14 N.P.T.F.	1/2-14 N.P.T.F.	1.048	10,000	0.437

HIGH PRESSURE ~ 10,000 P.S.I.

10,000 P.S.I. Male Pipe (N.P.T.F.) X Female Pipe (N.P.T.F.)



Not Available In Stainless Steel!

PART NUMBER	O.A.L.	DIM. B	DIM. D Ø	WRENCH	PORT T1	STEM T2	SWG. RADIUS	MAX. P.S.I.G.	THROUGH HOLE
9 SS 8 HP MP 38 X FP 38	3.375	2.800	1.520	1.000	3/8-18 N.P.T.F.	3/8-18 N.P.T.F.	0.660	10,000	0.312
9 SS 8 HP MP 50 X FP 50	3.855	3.145	1.842	1.000	1/2-14 N.P.T.F.	1/2-14 N.P.T.F.	1.048	10,000	0.437

90° Dual Plane Swivels



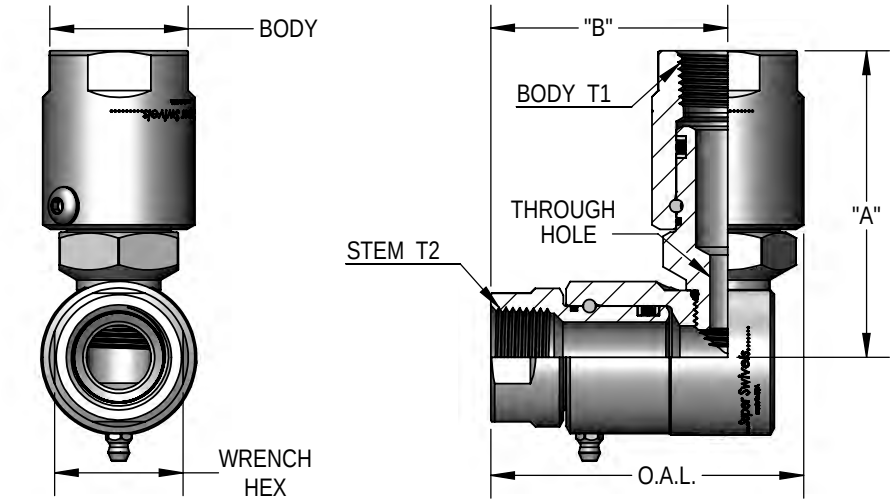
Switch Your Swivel!®



Dual Plane Swivels - 90º Dual Plane Swivels rotating joints provide free rotation on two axis's with a right-angle change of path. By having two lines with full rotation the complexity of hose lines can be reduced providing minimal friction and allowing free movement of hoses and piping. 90º Dual Plane Super Swivels allow for sharp corners with reduced risk of kinks and flow restriction and free rotation on two paths. 90º Dual Plane Swivels sizes range from ¼" through 1½" body thread with various fittings and seal configurations.

www.SuperSwivels.com **763-784-5531**
Email: sales@superswivels.com **Fax: 763-784-7423**

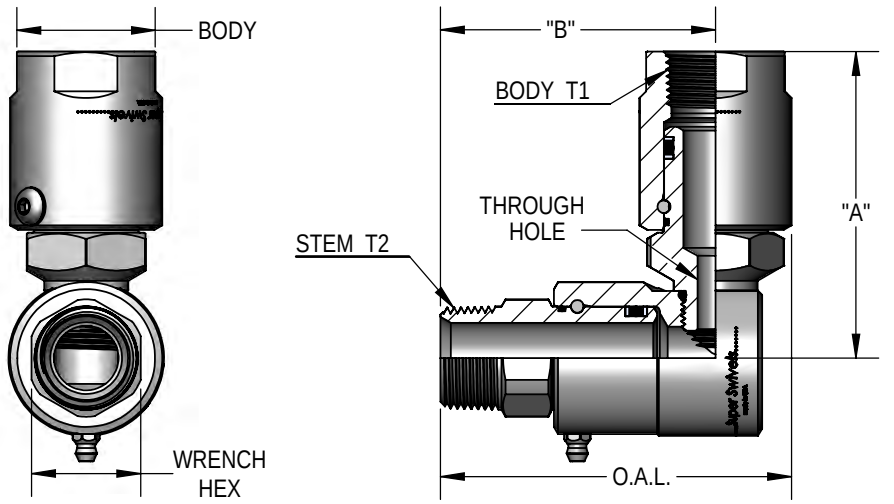
Female Pipe (N.P.T.F.) X Female Pipe (N.P.T.F.)



Not Available In Stainless Steel!

PART NUMBER	O.A.L.	DIM. B	BODY	WRENCH/HEX	BODY T1	STEM T2	DIM. A	MAX. P.S.I.G.	THROUGH HOLE
9 DP 4 FP 25 X FP 25	2.480	2.000	0.875	0.750	1/4-18 N.P.T.F.	1/4-18 N.P.T.F.	2.689	5000	0.250
9 DP 8 FP 38 X FP 38	2.770	2.120	1.125	0.875	3/8-18 N.P.T.F.	3/8-18 N.P.T.F.	3.063	5000	0.297
9 DP 8 FP 50 X FP 50	2.920	2.270	1.250	1.125	1/2-14 N.P.T.F.	1/2-14 NN.P.T.	3.053	5000	0.297
9 DP 12 FP 75 X FP 75	3.200	2.360	1.500	1.375	3/4-14 N.P.T.F.	3/4-14 N.P.T.F.	3.190	4500	0.391
9 DP 16 FP 100 X FP 100	3.940	2.980	1.750	1.625	1-11 1/2 N.P.T.F.	1-11 1/2 N.P.T.F.	4.090	4000	0.484
9 DP 20 FP 125 X FP 125	4.460	3.285	2.125	2.000	1¼-11 1/2 N.P.T.F.	1¼-11 1/2 N.P.T.F.	4.631	4000	0.718
9 DP 24 FP 150 X FP 150	5.310	4.040	2.375	2.375	1½-11 1/2 N.P.T.F.	1½-11 1/2 N.P.T.F.	5.351	4000	0.844

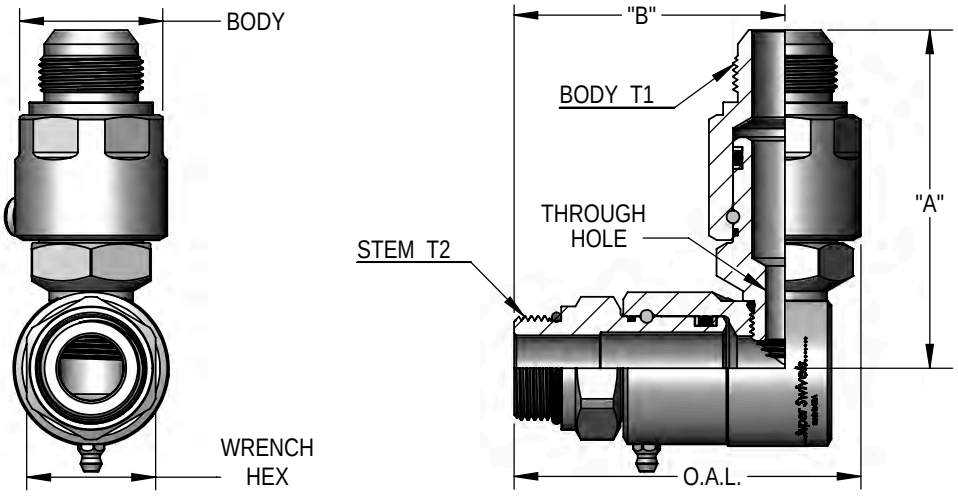
Male Pipe (N.P.T.F.) X Female Pipe (N.P.T.F.)



Not Available In Stainless Steel!

PART NUMBER	O.A.L.	DIM. B	BODY	WRENCH/HEX	BODY T1	STEM T2	DIM. A	MAX. P.S.I.G.	THROUGH HOLE
9 DP 4 MP 25 X FP 25	2.670	2.130	0.875	0.625	1/4-18 N.P.T.F.	1/4-18 N.P.T.F.	2.689	5000	0.250
9 DP 8 MP 38 X FP 38	3.193	2.548	1.125	1.000	3/8-18 N.P.T.F.	3/8-18 N.P.T.F.	3.063	5000	0.297
9 DP 8 MP 50 X FP 50	3.318	2.673	1.250	1.000	1/2-14 N.P.T.F.	1/2-14 N.P.T.F.	3.053	5000	0.297
9 DP 12 MP 75 X FP 75	3.598	2.760	1.500	1.125	3/4-14 N.P.T.F.	3/4-14 N.P.T.F.	3.190	4500	0.391
9 DP 16 MP 100 X FP 100	4.420	3.462	1.750	1.375	1-11 1/2 N.P.T.F.	1-11 1/2 N.P.T.F.	4.090	4000	0.484
9 DP 20 MP 125 X FP 125	4.973	3.795	2.125	1.750	1¼-11 1/2 N.P.T.F.	1¼-11 1/2 N.P.T.F.	4.631	4000	0.718
9 DP 24 MP 150 X FP 150	5.890	4.620	2.375	2.000	1½-11 1/2 N.P.T.F.	1½-11 1/2 N.P.T.F.	5.351	4000	0.844

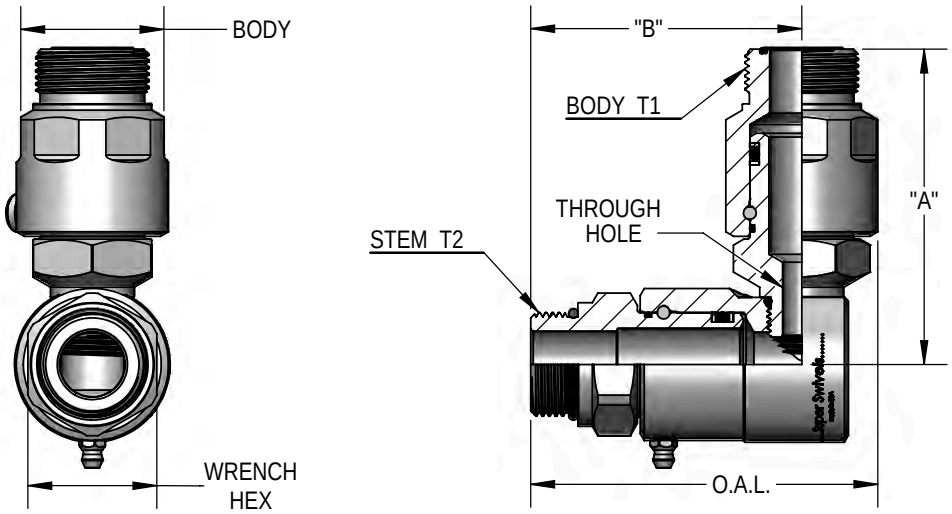
Male O-Ring (O.R.B.) X Male J.I.C. (37°)



Not Available In Stainless Steel!

PART NUMBER	O.A.L.	DIM. B	BODY	WRENCH/HEX	BODY T1	STEM T2	DIM. A	MAX. P.S.I.G.	THROUGH HOLE
9 DP 4 MO 4 X MJ 4	2.792	2.215	1.000	0.625	7/16-20 U.N.	7/16-20 U.N.	2.689	5000	0.172
9 DP 4 MO 6 X MJ 6	2.792	2.215	1.000	0.750	9/16-18 U.N.	9/16-18 U.N.	2.689	5000	0.250
9 DP 8 MO 8 X MJ 8	3.021	2.376	1.375	1.000	3/4-16 U.N.	3/4-16 U.N.	3.103	5000	0.297
9 DP 8 MO 10 X MJ 10	3.291	2.498	1.375	1.000	7/8-14 U.N.	7/8-14 U.N.	3.253	5000	0.297
9 DP 12 MO 12 X MJ 12	3.615	2.749	1.560	1.375	1 1/16-12 U.N.	1 1/16-12 U.N.	3.465	4500	0.391
9 DP 16 MO 16 X MJ 16	4.370	3.411	1.810	1.625	1 5/16-12 U.N.	1 5/16-12 U.N.	4.260	4000	0.484
9 DP 20 MO 20 X MJ 20	4.934	3.755	2.188	1.875	1 5/8-12 U.N.	1 5/8-12 U.N.	4.796	4000	0.718
9 DP 24 MO 24 X MJ 24	5.810	4.540	2.375	2.125	1 7/8-12 U.N.	1 7/8-12 U.N.	5.510	4000	0.844

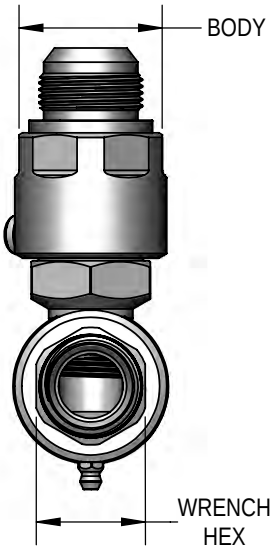
Male O-Ring (O.R.B.) X Male Face Seal (M.F.S.)

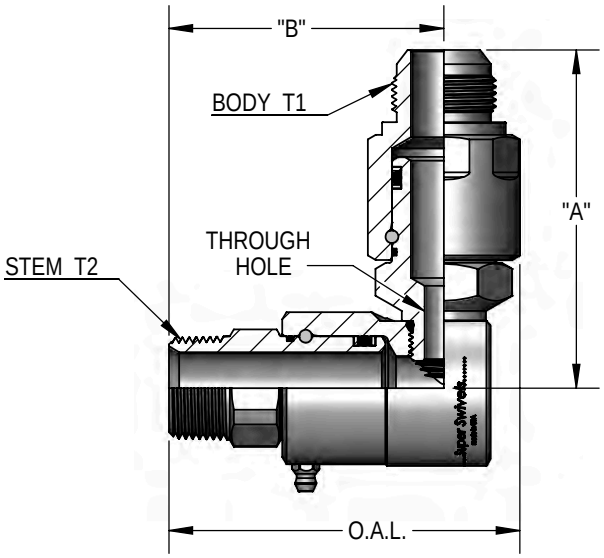


Not Available In Stainless Steel!

PART NUMBER	O.A.L.	DIM. B	BODY	WRENCH/HEX	BODY T1	STEM T2	DIM. A	MAX. P.S.I.G.	THROUGH HOLE
9 DP 4 MO 6 X MFS 6	2.792	2.215	1.000	0.625	11/16-16 U.N.	9/16-18 U.N.	2.609	5000	0.250
9 DP 8 MO 8 X MFS 8	3.169	2.376	1.375	1.000	13/16-16 U.N.	3/4-16 U.N.	2.912	5000	0.297
9 DP 8 MO 10 X MFS 10	3.291	2.498	1.375	1.000	1-14 U.N.	7/8-14 U.N.	3.018	5000	0.291
9 DP 12 MO 12 X MFS 12	3.615	2.749	1.560	1.375	1 3/16-12 U.N.	1 1/16-12 U.N.	3.239	4500	0.391
9 DP 16 MO 16 X MFS 16	4.370	3.411	1.810	1.625	1 7/16-12 U.N.	1 5/16-12 U.N.	3.970	4000	0.484
9 DP 20 MO 20 X MFS 20	4.934	3.755	2.188	1.875	1 11/16-12 U.N.	1 5/8-12 U.N.	4.446	4000	0.718
9 DP 24 MO 24 X MFS 24	5.810	4.540	2.375	2.125	2-12 U.N.	1 7/8-12 U.N.	5.116	4000	0.844

Male Pipe (N.P.T.F.) X Male J.I.C. (37°)

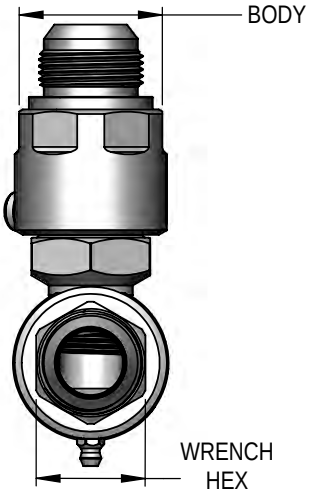


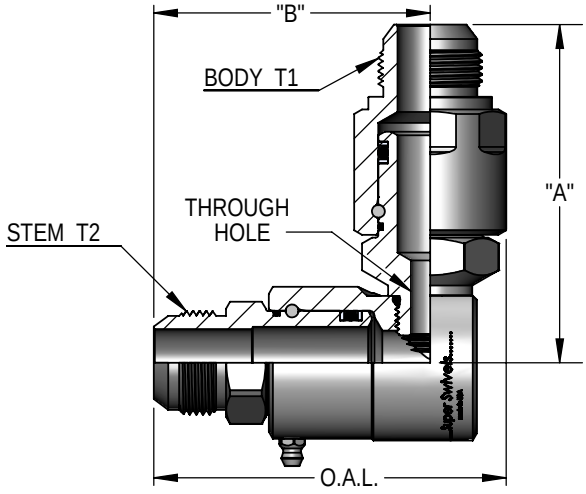


Not Available In Stainless Steel!

PART NUMBER	O.A.L.	DIM. B	BODY	WRENCH/HEX	BODY T1	STEM T2	DIM. A	MAX. P.S.I.G.	THROUGH HOLE
9 DP 4 MP 25 X MJ 4	2.640	2.130	1.000	0.625	7/16-20 U.N.	1/4-18 N.P.T.F.	2.689	5000	0.172
9 DP 4 MP 38 X MJ 6	2.720	2.210	1.000	1.000	9/16-18 U.N.	3/8-18 N.P.T.F.	2.807	5000	0.250
9 DP 8 MP 50 X MJ 8	3.360	2.620	1.375	1.000	3/4-16 U.N.	1/2-14 N.P.T.F.	3.103	5000	0.297
9 DP 8 MP 50 X MJ 10	3.360	2.620	1.375	1.000	7/8-14 U.N.	1/2-14 N.P.T.F.	3.253	5000	0.297
9 DP 12 MP 75 X MJ 12	3.626	2.760	1.560	1.125	1 1/16-12 U.N.	3/4-14 N.P.T.F.	3.465	4500	0.391
9 DP 16 MP 100 X MJ 16	4.420	3.462	1.810	1.375	1 5/16-12 U.N.	1-11 1/2 N.P.T.F.	4.260	4000	0.484
9 DP 20 MP 125 X MJ 20	4.973	3.795	2.188	1.750	1 5/8-12 U.N.	1 1/4-11 1/2 N.P.T.F.	4.796	4000	0.718
9 DP 24 MP 150 X MJ 24	5.890	4.620	2.375	2.000	1 7/8-12 U.N.	1 1/2-11 1/2 N.P.T.F.	5.510	4000	0.844

Male J.I.C. (37°) X Male J.I.C. (37°)

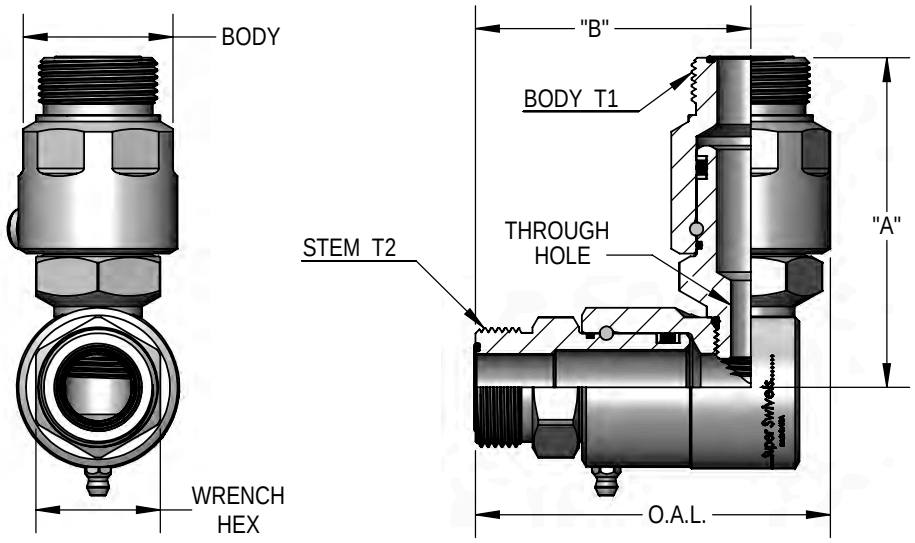




Not Available In Stainless Steel!

PART NUMBER	O.A.L.	DIM. B	BODY	WRENCH/HEX	BODY T1	STEM T2	DIM. A	MAX. P.S.I.G.	THROUGH HOLE
9 DP 4 MJ 4 X MJ 4	2.837	2.325	1.000	0.625	7/16-20 U.N.	7/16-20 U.N.	2.689	5000	0.172
9 DP 4 MJ 6 X MJ 6	2.922	2.345	1.000	0.625	9/16-18 U.N.	9/16-18 U.N.	2.689	5000	0.250
9 DP 8 MJ 8 X MJ 8	3.168	2.523	1.375	1.000	3/4-16 U.N.	3/4-16 U.N.	3.103	5000	0.297
9 DP 8 MJ 10 X MJ 10	3.416	2.623	1.375	1.000	7/8-14 U.N.	7/8-14 U.N.	3.253	5000	0.297
9 DP 12 MJ 12 X MJ 12	3.751	2.885	1.560	1.125	1 1/16-12 U.N.	1 1/16-12 U.N.	3.465	4500	0.391
9 DP 16 MJ 16 X MJ 16	4.441	3.482	1.810	1.375	1 5/16-12 U.N.	1 5/16-12 U.N.	4.260	4000	0.484
9 DP 20 MJ 20 X MJ 20	5.013	3.835	2.188	1.750	1 5/8-12 U.N.	1 5/8-12 U.N.	4.796	4000	0.718
9 DP 24 MJ 24 X MJ 24	5.980	4.710	2.375	2.000	1 7/8-12 U.N.	1 7/8-12 U.N.	5.510	4000	0.844

Male Face Seal (M.F.S.) X Male Face Seal (M.F.S.)



Not Available In Stainless Steel!

PART NUMBER	O.A.L.	DIM. B	BODY	WRENCH/HEX	BODY T1	STEM T2	DIM. A	MAX. P.S.I.G.	THROUGH HOLE
9 DP 4 MFS 6 X MFS 6	2.753	2.176	1.000	0.750	11/16-16 U.N.	11/16-16 U.N.	2.609	5000	0.250
9 DP 8 MFS 8 X MFS 8	3.155	2.362	1.375	1.000	13/16-16 U.N.	13/16-16 U.N.	2.912	5000	0.297
9 DP 8 MFS 10 X MFS 10	3.351	2.558	1.375	1.125	1-14 U.N.	1-14 U.N.	3.018	5000	0.297
9 DP 12 MFS 12 X MFS 12	3.610	2.745	1.560	1.250	13/16-12 U.N.	$1^{3}/_{16}$-12 U.N.	3.239	4500	0.391
9 DP 16 MFS 16 X MFS 16	4.274	3.316	1.810	1.500	$1^{7}/_{16}$-12 U.N.	$1^{7}/_{16}$-12 U.N.	3.970	4000	0.484
9 DP 20 MFS 20 X MFS 20	4.827	3.649	2.188	1.750	$1^{11}/_{16}$-12 U.N.	$1^{11}/_{16}$-12 U.N.	4.446	4000	0.718
9 DP 24 MFS 24 X MFS 24	5.645	4.370	2.375	2.125	2-12 U.N.	2-12 U.N.	5.116	4000	0.844

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BSPP

Inline & 90° Swivels

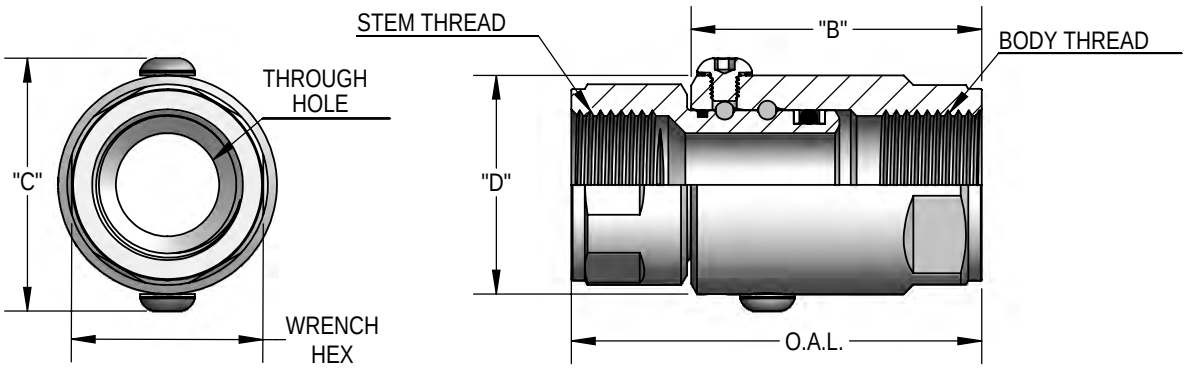


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BSPP Swivels (British Standard Parallel Pipe) are most common in the UK, Europe, Asia, Australia, New Zealand and South Africa. A parallel thread fitting uses a bonded seal ring. This bonded ring seal is sandwiched in-between a shoulder on the male fitting and the face of the female fitting and is squeezed in place with no thread sealant required. Super Swivels ball bearing race design withstands heavy side loads preventing premature seal wear and leaks. BSPP sizes range from 1/4" through 1 1/2" body thread with multiple fittings and seal configurations including Inline and 90º Swivels.

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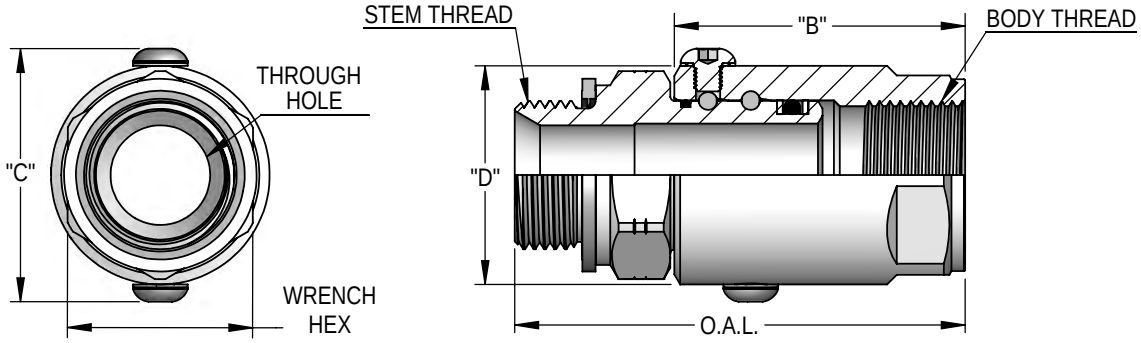
Female BSPP X Female BSPP



Not Available In Stainless Steel!

PART NUMBER	O.A.L.	DIM. B	DIM. D Ø	DIM. C	WRENCH HEX	BODY THREAD	STEM THREAD	MAX. PRES.	THROUGH HOLE
SS 4 FBSPP 4 X FBSPP 4	2.570	1.720	0.992	1.122	0.875	G 1/4-19 BSPP	G 1/4-19 BSPP	5,000 PSI	0.250
	65.3 mm	43.7 mm	25.2 mm	28.5 mm	22.2 mm			345 BAR	6.3 mm
SS 6 FBSPP 6 X FBSPP 6	2.663	1.780	1.302	1.702	1.187	G 3/8-19 BSPP	G 3/8-19 BSPP	5,000 PSI	0.312
	67.6 mm	45.2 mm	33.1 mm	43.2 mm	30.1 mm			345 BAR	7.9 mm
SS 8 DB FBSPP 8 X FBSPP 8	3.007	2.080	1.480	1.880	1.312	G 1/2-14 BSPP	G 1/2-14 BSPP	5,000 PSI	0.406
	76.4 mm	52.8 mm	37.6 mm	47.8 mm	33.3 mm			345 BAR	10.3 mm
SS 12 DB FBSPP 12 X FBSPP 12	3.102	2.100	1.675	2.070	1.500	G 3/4-14 BSPP	G 3/4-14 BSPP	5,000 PSI	0.630
	78.8 mm	53.3 mm	42.5 mm	52.6 mm	38.1 mm			345 BAR	16.0 mm
SS 16 DB FBSPP 16 X FBSPP 16	3.725	2.550	1.917	2.320	1.750	G 1-11 BSPP	G 1-11 BSPP	4,500 PSI	0.787
	94.6 mm	64.8 mm	48.7 mm	58.9 mm	44.4 mm			310 BAR	20.0 mm
SS 20 FBSPP 20 X FBSPP 20	4.040	2.650	2.358	2.760	2.125	G 1 1/4-11 BSPP	G 1 1/4-11 BSPP	4,000 PSI	0.984
	102.6 mm	67.3 mm	59.9 mm	70.1 mm	54.0 mm			275 BAR	25.0 mm
SS 24 FBSPP 24 X FBSPP 24	4.640	3.250	2.548	2.950	2.375	G 1 1/2-11 BSPP	G 1 1/2-11 BSPP	4,000 PSI	1.260
	117.9 mm	82.5 mm	64.7 mm	74.9 mm	60.3 mm			275 BAR	32.0 mm

Male BSPP X Female BSPP

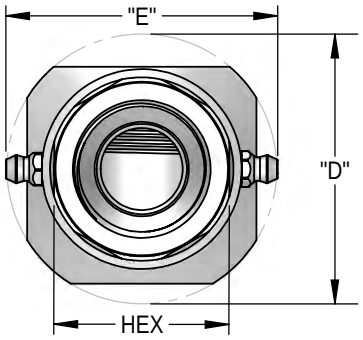


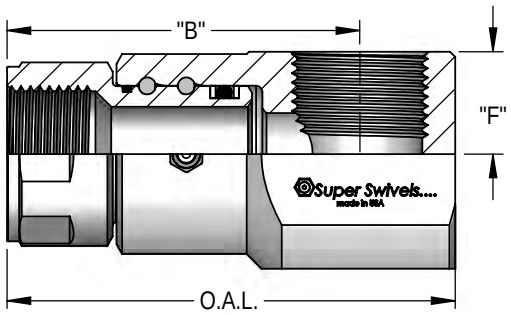
Not Available In Stainless Steel!

PART NUMBER (Inches)	O.A.L.	DIM. B	DIM. D Ø	DIM. C	WRENCH HEX	BODY THREAD	STEM THREAD	MAX. PRES.	THROUGH HOLE
SS 4 MBSPP 4 X FBSPP 4	2.665	1.720	0.992	1.122	0.812	G 1/4-19 BSPP	G 1/4-19 BSPP	5,000 PSI	0.250
	67.7 mm	43.7 mm	25.2 mm	28.4 mm	20.6 mm			345 BAR	6.3 mm
SS 6 MBSPP 6 X FBSPP 6	2.728	1.780	1.302	1.702	0.937	G 3/8-19 BSPP	G 3/8-19 BSPP	5,000 PSI	0.312
	69.3 mm	45.2 mm	33.1 mm	43.2 mm	23.8 mm			345 BAR	7.9 mm
SS 8 DB MBSPP 8 X FBSPP 8	3.102	2.080	1.480	1.880	1.125	G 1/2-14 BSPP	G 1/2-14 BSPP	5,000 PSI	0.406
	78.8 mm	52.8 mm	37.6 mm	47.7 mm	28.6 mm			345 BAR	10.3 mm
SS 12 DB MBSPP 12 X FBSPP 12	3.302	2.100	1.675	2.070	1.312	G 3/4-14 BSPP	G 3/4-14 BSPP	5,000 PSI	0.630
	83.9 mm	53.3 mm	42.5 mm	52.5 mm	33.3 mm			345 BAR	16.0 mm
SS 16 DB MBSPP 16 X FBSPP 16	3.947	2.550	1.917	2.320	1.625	G 1-11 BSPP	G 1-11 BSPP	4,500 PSI	0.787
	100.3 mm	64.8 mm	48.7 mm	58.9 mm	41.3 mm			310 BAR	20.0 mm
SS 20 MBSPP 20 X FBSPP 20	4.265	2.650	2.358	2.760	2.000	G 1 1/4-11 BSPP	G 1 1/4-11 BSPP	4,000 PSI	0.984
	108.3 mm	67.3 mm	59.9 mm	70.1 mm	50.8 mm			275 BAR	25.0 mm
SS 24 MBSPP 24 X FBSPP 24	5.085	3.250	2.548	2.950	2.250	G 1 1/2-11 BSPP	G 1 1/2-11 BSPP	4,000 PSI	1.260
	129.2 mm	82.5 mm	64.7 mm	74.9 mm	57.1 mm			275 BAR	32.0 mm

Female BSPP X Female BSPP

Not Available
In Stainless Steel!

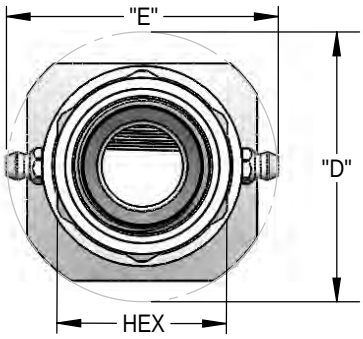


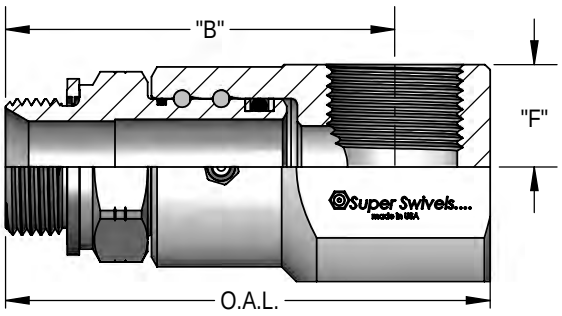


PART NUMBER	O.A.L.	DIM. B	DIM. D Ø	DIM. E	WRENCH HEX	PORT T1	STEM T2	DIM. F	MAX. PRES.	THROUGH HOLE
9 SS 4 FBSPP 4 X FBSPP 4	2.715	2.255	1.318	1.858	0.875	G 1/4-19 BSPP	G 1/4-19 BSPP	0.519	5,000 PSI	0.250
	69.0 mm	57.3 mm	33.5 mm	47.2 mm	22.2 mm			13.2 mm	345 BAR	6.3 mm
9 SS 6 FBSPP 6 X FBSPP 6	2.883	2.313	1.450	1.992	1.187	G 3/8-19 BSPP	G 3/8-19 BSPP	0.552	5,000 PSI	0.312
	73.2 mm	58.8 mm	36.8 mm	50.6 mm	30.1 mm			14.0 mm	345 BAR	7.9 mm
9 SS 8 DB FBSPP 8 X FBSPP 8	3.317	2.686	1.724	2.170	1.312	G 1/2-14 BSPP	G 1/2-14 BSPP	0.653	5,000 PSI	0.406
	84.3 mm	68.2 mm	43.8 mm	55.1 mm	33.3 mm			16.6 mm	345 BAR	10.3 mm
9 SS 12 DB FBSPP 12 X FBSPP 12	3.722	2.942	2.184	2.370	1.500	G 3/4-14 BSPP	G 3/4-14 BSPP	0.849	5,000 PSI	0.630
	94.5 mm	74.7 mm	55.5 mm	60.2 mm	38.1 mm			21.6 mm	345 BAR	16.0 mm
9 SS 16 DB FBSPP 16 X FBSPP 16	4.428	3.513	2.588	2.610	1.750	G 1-11 BSPP	G 1-11 BSPP	0.982	4,500 PSI	0.787
	112.5 mm	89.2 mm	65.7 mm	66.3 mm	44.4 mm			24.9 mm	310 BAR	20.0mm
9 SS 20 FBSPP 20 X FBSPP 20	4.890	3.790	3.088	3.050	2.125	G $1^1/4$-11 BSPP	G $1^1/4$-11 BSPP	1.149	4,000 PSI	0.984
	124.2 mm	96.3 mm	78.4 mm	77.5 mm	54.0 mm			29.2 mm	275 BAR	25.0 mm
9 SS 24 FBSPP 24 X FBSPP 24	5.940	4.670	3.576	3.240	2.375	G $1^1/2$-11 BSPP	G $1^1/2$-11 BSPP	1.366	4,000 PSI	1.260
	150.9 mm	118.6 mm	90.8 mm	82.3 mm	60.3 mm			34.7 mm	275 BAR	32.0 mm

Male BSPP X Female BSPP

Not Available
In Stainless Steel!



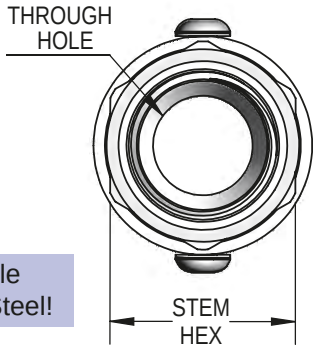


PART NUMBER	O.A.L.	DIM. B	DIM. D Ø	DIM. E	WRENCH HEX	PORT T1	STEM T2	DIM. F	MAX. PRES.	THROUGH HOLE
9 SS 4 MBSPP 4 X FBSPP 4	2.810	2.350	1.318	1.858	0.812	G 1/4-19 BSPP	G 1/4-19 BSPP	0.519	5,000 PSI	0.250
	71.4 mm	59.7 mm	33.5 mm	47.2 mm	20.6 mm			13.2 mm	345 BAR	6.3 mm
9 SS 6 MBSPP 6 X FBSPP 6	2.947	2.367	1.450	1.992	0.937	G 3/8-19 BSPP	G 3/8-19 BSPP	0.552	5,000 PSI	0.312
	74.9 mm	60.1 mm	36.8 mm	50.6 mm	23.8 mm			14.0 mm	345 BAR	7.9 mm
9 SS 8 DB MBSPP 8 X FBSPP 8	3.412	2.781	1.724	2.170	1.125	G 1/2-14 BSPP	G 1/2-14 BSPP	0.653	5,000 PSI	0.406
	86.7 mm	70.6 mm	43.8 mm	55.1 mm	28.6 mm			16.6 mm	345 BAR	10.3 mm
9 SS 12 DB MBSPP 12 X FBSPP 12	3.922	3.142	2.184	2.370	1.312	G 3/4-14 BSPP	G 3/4-14 BSPP	0.849	5,000 PSI	0.630
	99.6 mm	79.8 mm	55.5 mm	60.2 mm	33.3 mm			21.6 mm	345 BAR	16.0 mm
9 SS 16 DB MBSPP 16 X FBSPP 16	4.648	3.733	2.588	2.610	1.625	G 1-11 BSPP	G 1-11 BSPP	0.982	4,500 PSI	0.787
	118.1 mm	94.8 mm	65.7 mm	66.3 mm	41.3 mm			24.9 mm	310 BAR	20.0 mm
9 SS 20 MBSPP 20 X FBSPP 20	5.115	4.015	3.088	3.050	2.000	G $1^1/4$-11 BSPP	G $1^1/4$-11 BSPP	1.149	4,000 PSI	0.984
	129.9 mm	102.0 mm	78.4 mm	77.5 mm	50.8 mm			29.2 mm	275 BAR	25.0 mm
9 SS 24 MBSPP 24 X FBSPP 24	6.385	5.115	3.576	3.240	2.250	G $1^1/2$-11 BSPP	G $1^1/2$-11 BSPP	1.366	4,000 PSI	1.260
	162.2 mm	129.9 mm	90.8 mm	82.3 mm	57.1 mm			34.7 mm	275 BAR	32.0 mm

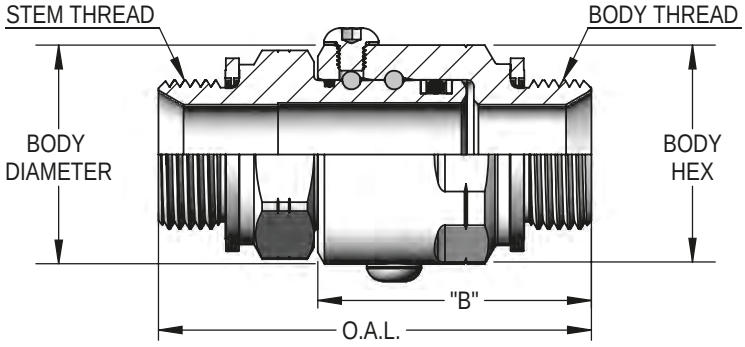
Male BSPP X Male BSPP



Also Available in MPxMP
Now In NPTF
See Page 13



Not Available
In Stainless Steel!



PART NUMBER	O.A.L.	DIM. B	STEM THREAD	Body THREAD	STEM HEX	BODY DIA.	BODY HEX	MAX. PRES.	THROUGH HOLE
SS 4 MBSPP 4 X MBSPP 4	2.600	1.650	G 1/4-19 BSPP	G 1/4-19 BSPP	0.812	HEX	1.000	5,000 PSI	0.250
	66 mm	41.9 mm			20.6 mm		25.4 mm	345 BAR	6.4 mm
SS 6 MBSPP 6 X MBSPP 6	2.670	1.720	G 3/8-19 BSPP	G 3/8-19 BSPP	1.062	1.290	1.187	5,000 PSI	0.313
	67.8 mm	43.7 mm			27 mm	32.8 mm	30.1 mm	345 BAR	8 mm
SS 8 DB MBSPP 8 X MBSPP 8	3.060	2.035	G 1/2-14 BSPP	G 1/2-14 BSPP	1.125	1.480	1.375	5,000 PSI	0.437
	77.7 mm	51.7 mm			28.6 mm	37.6 mm	34.9 mm	345 BAR	11.1 mm
SS 12 DB MBSPP 12 X MBSPP 12	3.270	2.070	G 3/4-14 BSPP	G 3/4-14 BSPP	1.312	1.675	1.562	5,000 PSI	0.657
	83 mm	52.6 mm			33.3 mm	42.5 mm	39.7 mm	345 BAR	16.7 mm
SS 16 DB MBSPP 16 X MBSPP 16	3.800	2.400	G 1-11 BSPP	G 1-11 BSPP	1.625	1.917	1.812	4500 PSI	0.875
	96.5 mm	61 mm			41.3 mm	48.7 mm	46 mm	310 BAR	22.2 mm
SS 20 MBSPP 20 X MBSPP 20	4.190	2.580	G 1 1/4-11 BSPP	G 1 1/4-11 BSPP	2.000	2.357	2.187	4,000 PSI	1.125
	106.4 mm	65.5 mm			50.8 mm	59.9 mm	55.5 mm	275 BAR	28.6 mm
SS 24 MBSPP 24 X MBSPP 24	4.930	3.130	G 1 1/2-11 BSPP	G 1 1/2-11 BSPP	2.250	2.557	2.375	4,000 PSI	1.312
	125.2 mm	79.5 mm			57.2 mm	64.9 mm	60.3 mm	275 BAR	33.3 mm

Extra Heavy Duty
Inline & 90° Swivels



EXTRA Heavy DUTY™

Switch Your Swivel!®

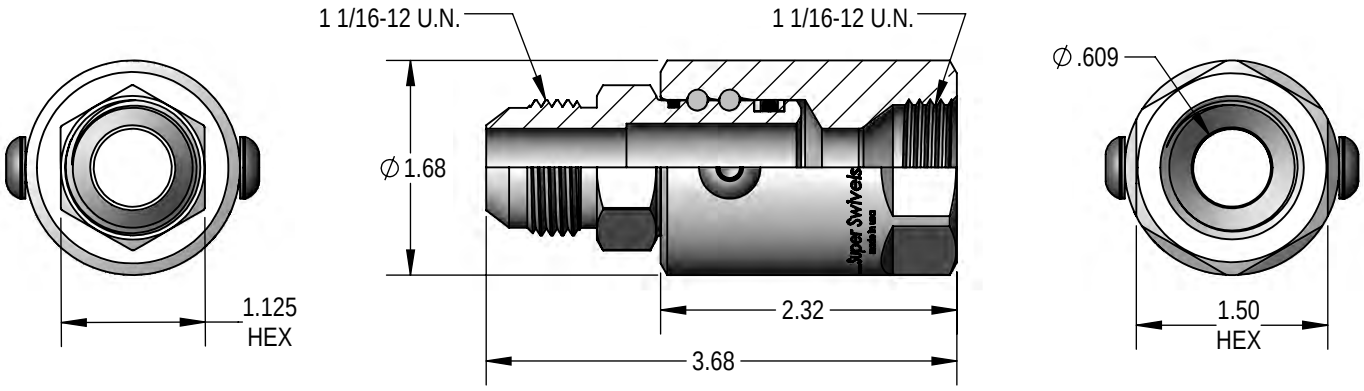
For extreme duty applications **Extra Heavy Duty** swivels offer a multiple bearing race design for superior side load strength and added load bearing support.

The inner and outer race for the ball bearings is integrally designed and machined within tight tolerances into the hardened metal of the male stem and female body, providing a rigid track for the balls to roll freely, yet securely.

Extra Heavy Duty superior design, construction and seals allow for higher maximum pressure ratings than others, even in 90° configuration. Sizes range from 1/4" through 1 1/2" body thread with multiple fittings and seal configurations including Inline and 90º Swivels.

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Email: sales@superswivels.com **Fax: 763-784-7423**

12 Male J.I.C. (37°) X Female J.I.C. (37°)

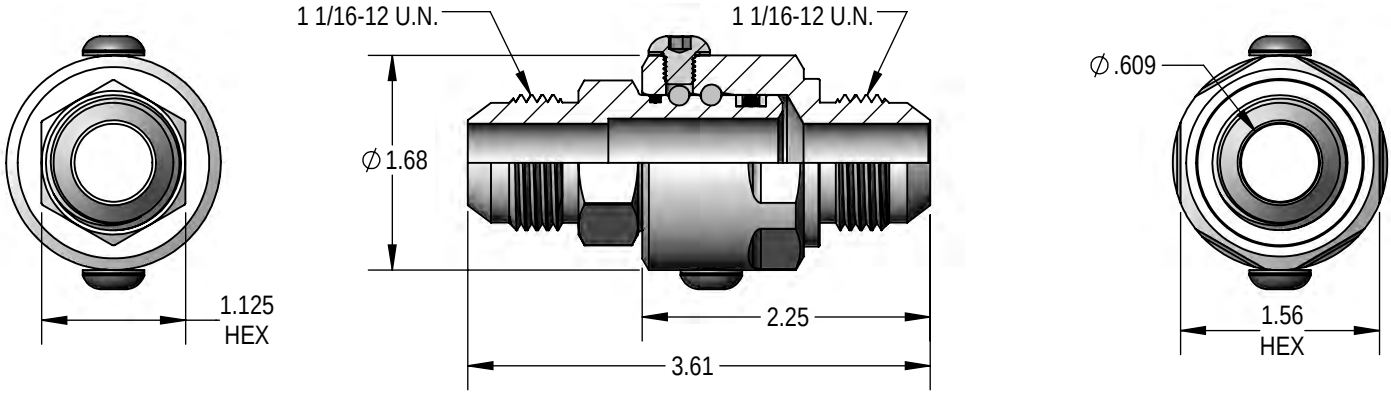


PART NUMBER	MAXIMUM P.S.I.G.
SS 12 DB MJ 12 X FJ 12	5,000

Not Available
In Stainless Steel!

Extra Heavy Duty
Multiple Bearing Race

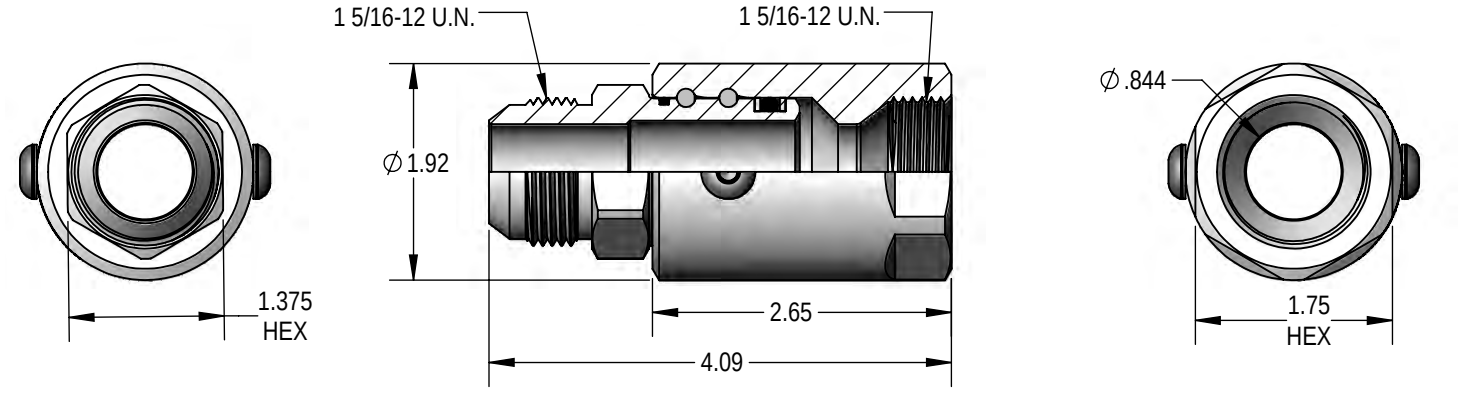
12 Male J.I.C. (37°) X Male J.I.C. (37°)



PART NUMBER	MAXIMUM P.S.I.G.
SS 12 DB MJ 12 X MJ 12	5,000

Not Available
In Stainless Steel!

16 Male J.I.C. (37°) X Female J.I.C. (37°)



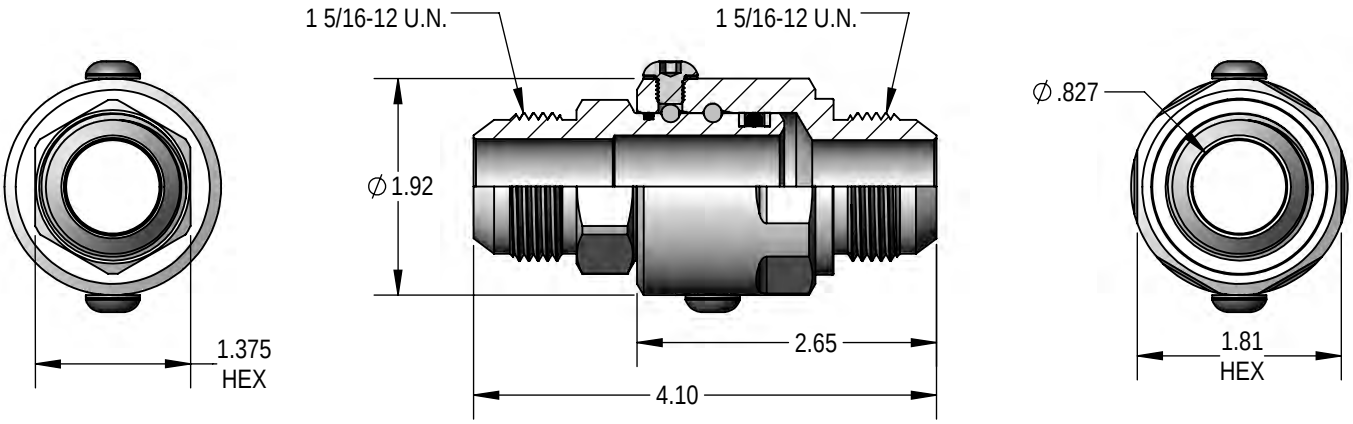
PART NUMBER
SS 16 DB MJ 16 X FJ 16

MAXIMUM P.S.I.G.
4,500

Not Available
In Stainless Steel!

Extra Heavy Duty
Multiple Bearing Race

16 Male J.I.C. (37°) X Male J.I.C. (37°)

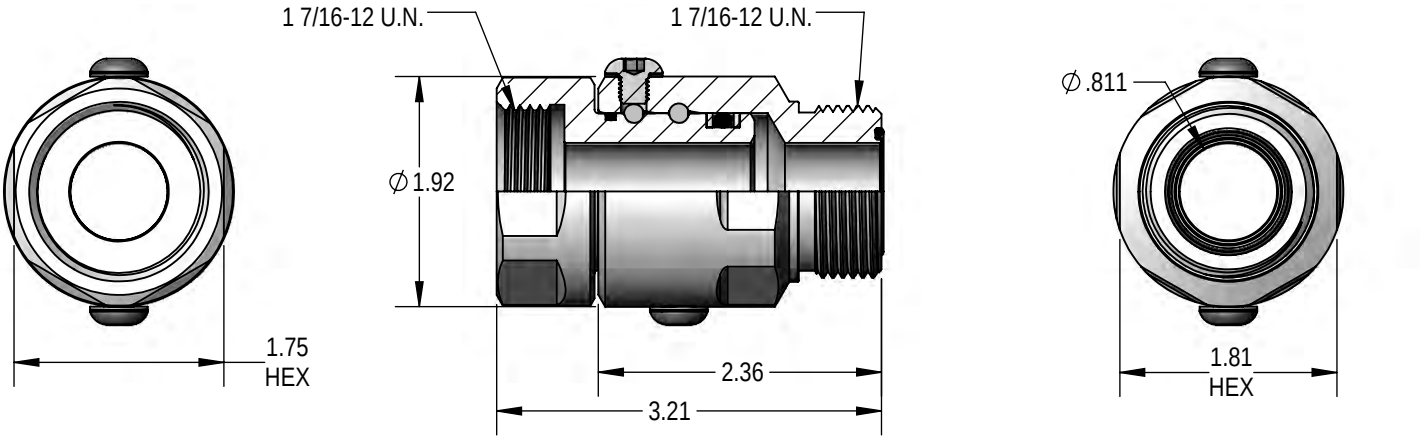


PART NUMBER
SS 16 DB MJ 16 X MJ 16

MAXIMUM P.S.I.G.
4,500

Not Available
In Stainless Steel!

16 Female Face Seal (F.F.S.) X Male Face Seal (M.F.S.)



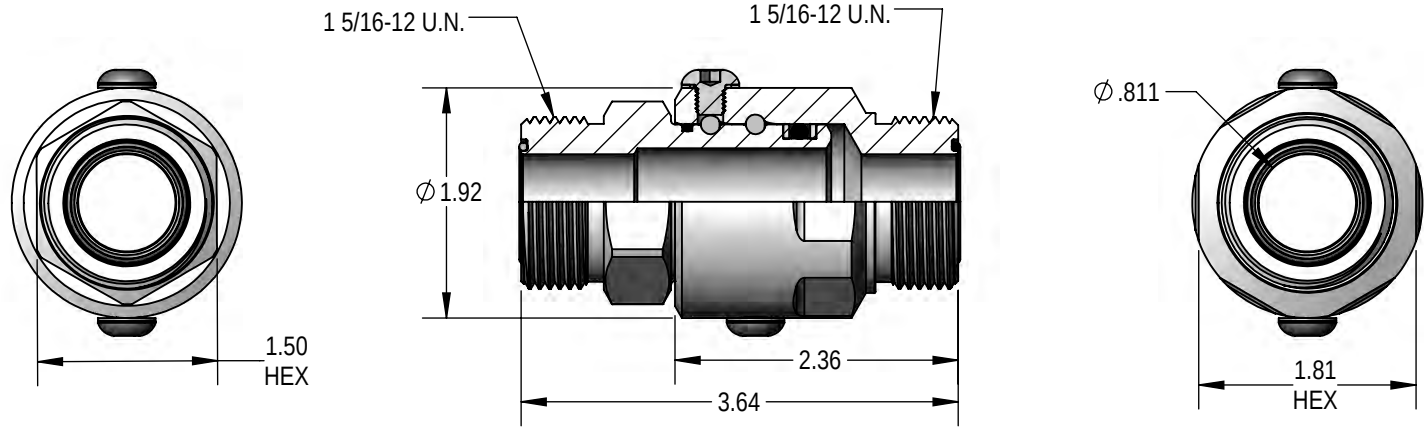
PART NUMBER
SS 16 DB FFS 16 X MFS 16

MAXIMUM P.S.I.G.
4,500

Not Available
In Stainless Steel!

Extra Heavy Duty
Multiple Bearing Race

16 Male Face Seal (M.F.S.) X Male Face Seal (M.F.S.)

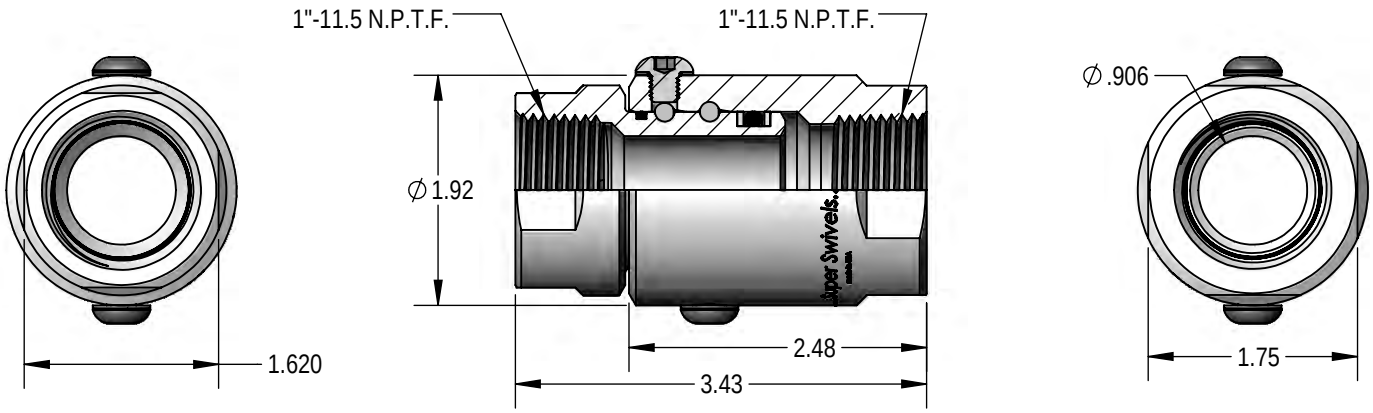


PART NUMBER
SS 16 DB MFS 16 X MFS 16

MAXIMUM P.S.I.G.
4,500

Not Available
In Stainless Steel!

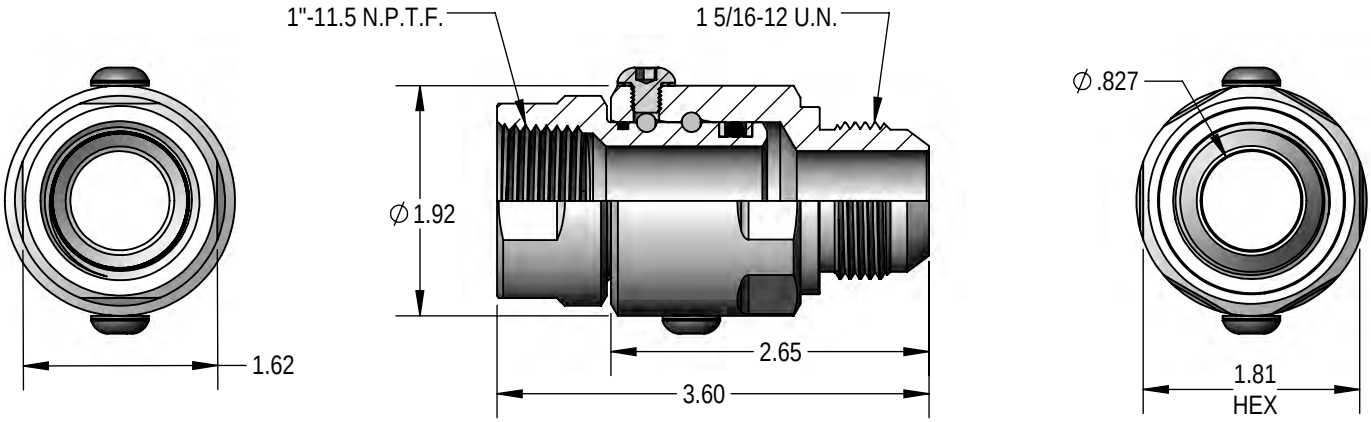
16 Female Pipe (N.P.T.F) X Female Pipe (N.P.T.F)



PART NUMBER	MAXIMUM P.S.I.G.	
SS 16 DB FP 100 X FP 100	4,500	Not Available In Stainless Steel!

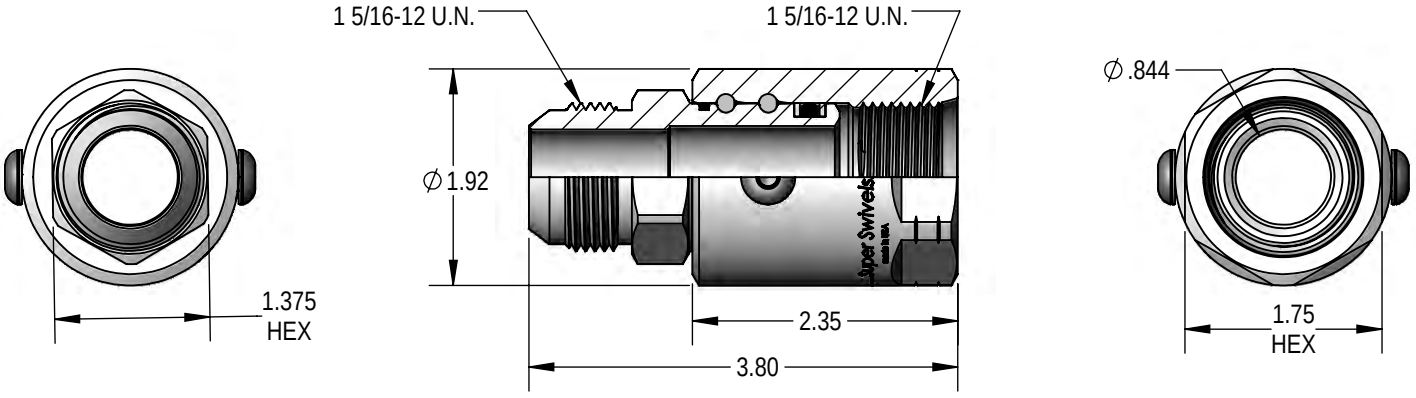
Extra Heavy Duty
Multiple Bearing Race

16 Female Pipe (N.P.T.F) X Male J.I.C. (37°)



PART NUMBER	MAXIMUM P.S.I.G.	
SS 16 DB FP 100 X MJ 16	4,500	Not Available In Stainless Steel!

16 Male J.I.C. (37°) X Female O-Ring (O.R.B.)



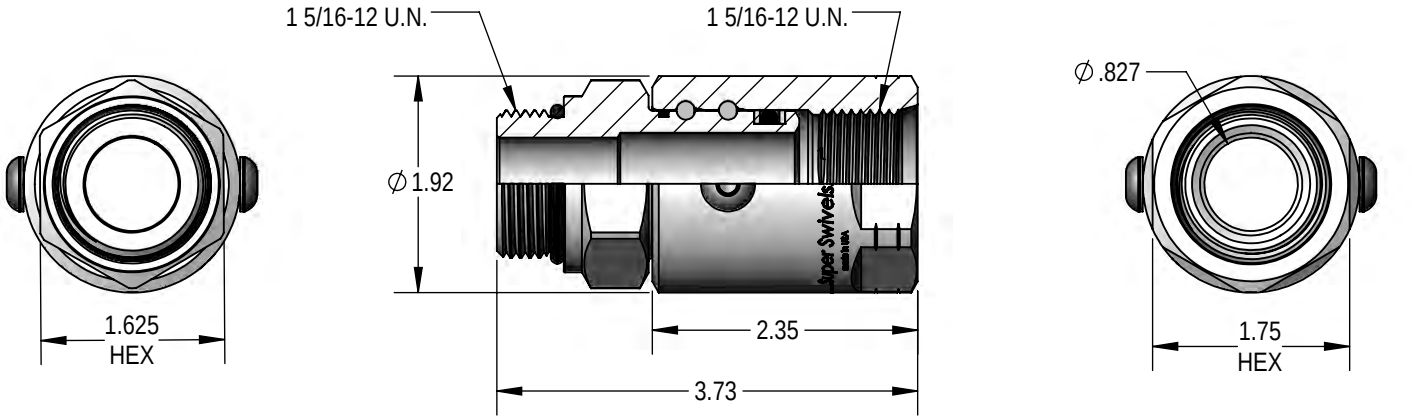
PART NUMBER
SS 16 DB MJ 16 X FO 16

MAXIMUM P.S.I.G.
4,500

Not Available
In Stainless Steel!

Extra Heavy Duty
Multiple Bearing Race

16 Male O-Ring (O.R.B.) X Female O-Ring (O.R.B.)

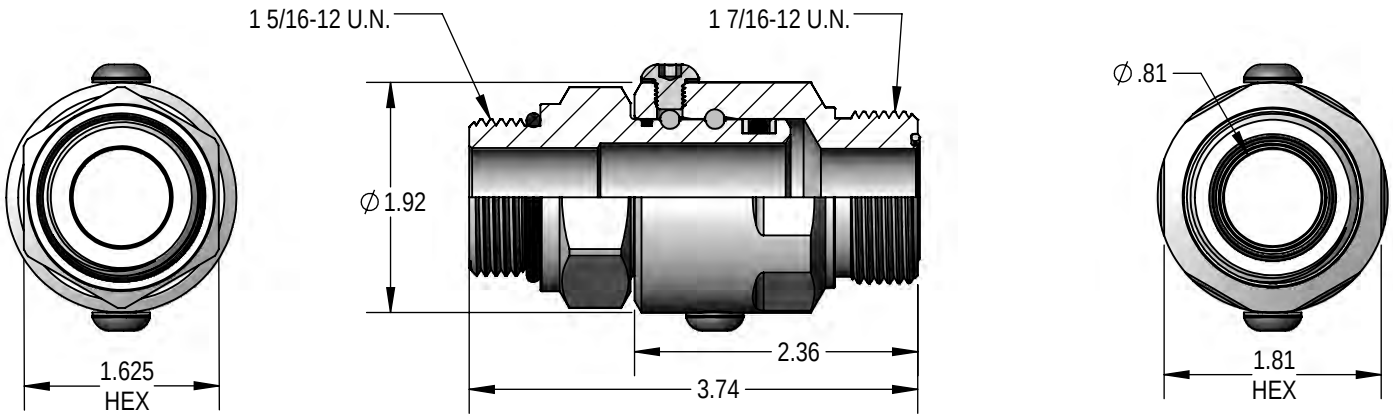


PART NUMBER
SS 16 DB MO 16 X FO 16

MAXIMUM P.S.I.G.
4,500

Not Available
In Stainless Steel!

16 Male O-Ring (O.R.B.) X Male Face Seal (M.F.S.)



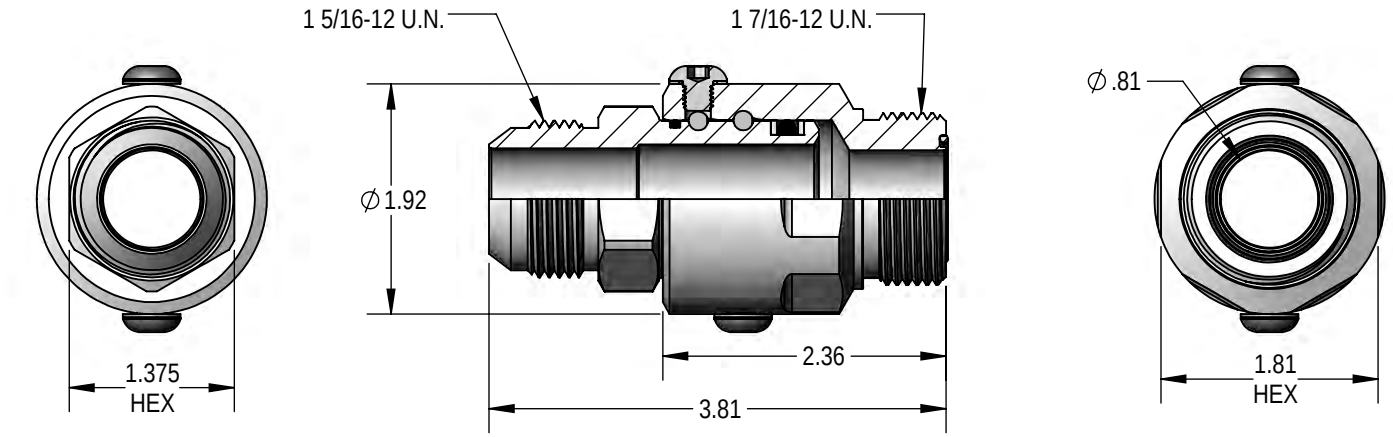
PART NUMBER
SS 16 DB MO 16 X MFS 16

MAXIMUM P.S.I.G.
4,500

Not Available
In Stainless Steel!

Extra Heavy Duty
Multiple Bearing Race

16 Male J.I.C. (37°) X Male Face Seal (M.F.S.)

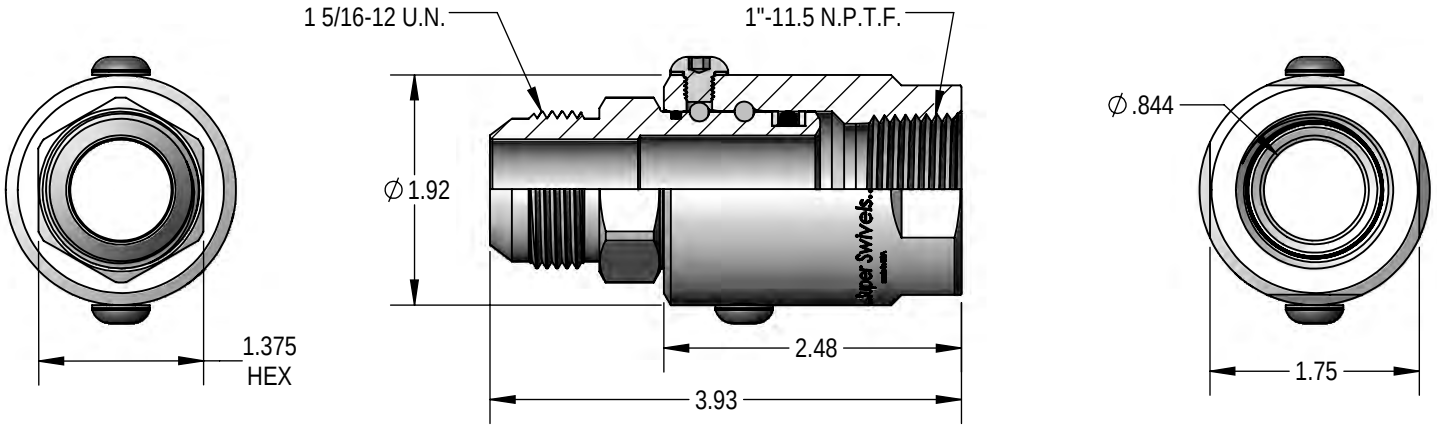


PART NUMBER
SS 16 DB MJ 16 X MFS 16

MAXIMUM P.S.I.G.
4,500

Not Available
In Stainless Steel!

16 Male J.I.C. (37°) X Female Pipe (N.P.T.F.)



PART NUMBER	MAXIMUM P.S.I.G.
SS 16 DB MJ 16 X FP 100	4,500

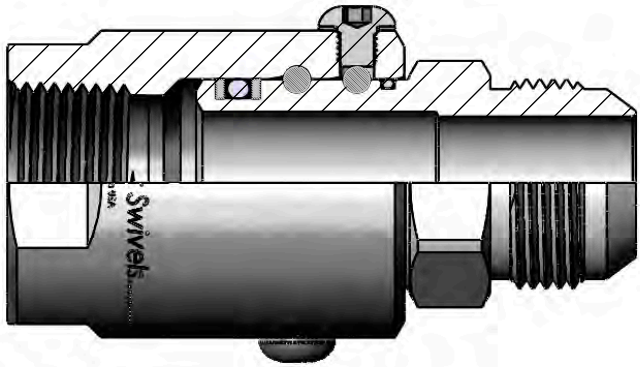
Not Available
In Stainless Steel!

Extra Heavy Duty
Multiple Bearing Race

For extreme duty applications **Extra Heavy Duty** swivels offer a multiple bearing race design for superior side load strength and added load bearing support.

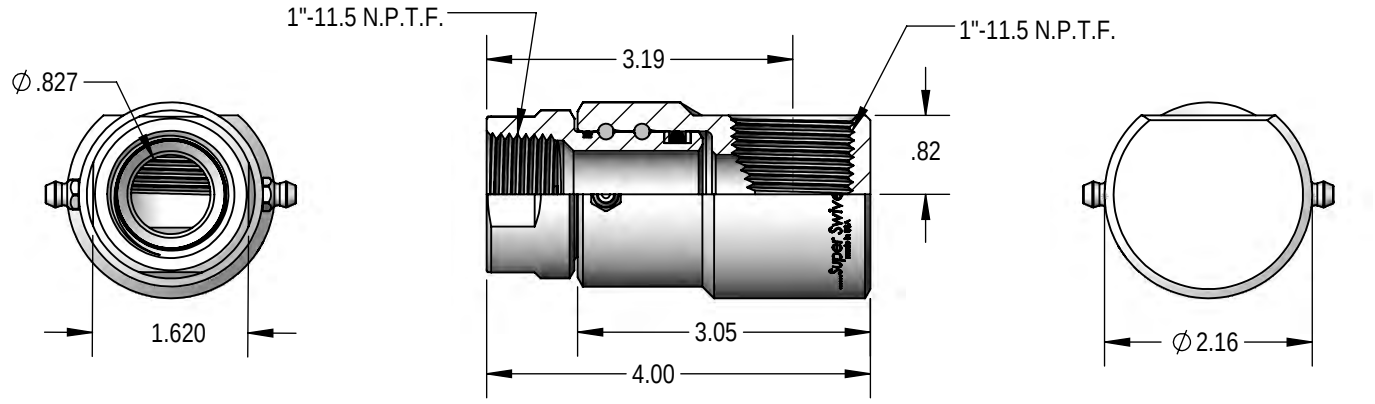
The inner and outer race for the ball bearings is integrally designed and machined within tight tolerances into the hardened metal of the male stem and female body, providing a rigid track for the balls to roll freely, yet securely.

Multiple Bearing Race



Extra Heavy Duty superior design, construction and seals allows for higher maximum pressure ratings than others, even in 90° configuration.

16 Female Pipe (N.P.T.F.) X Female Pipe (N.P.T.F.)



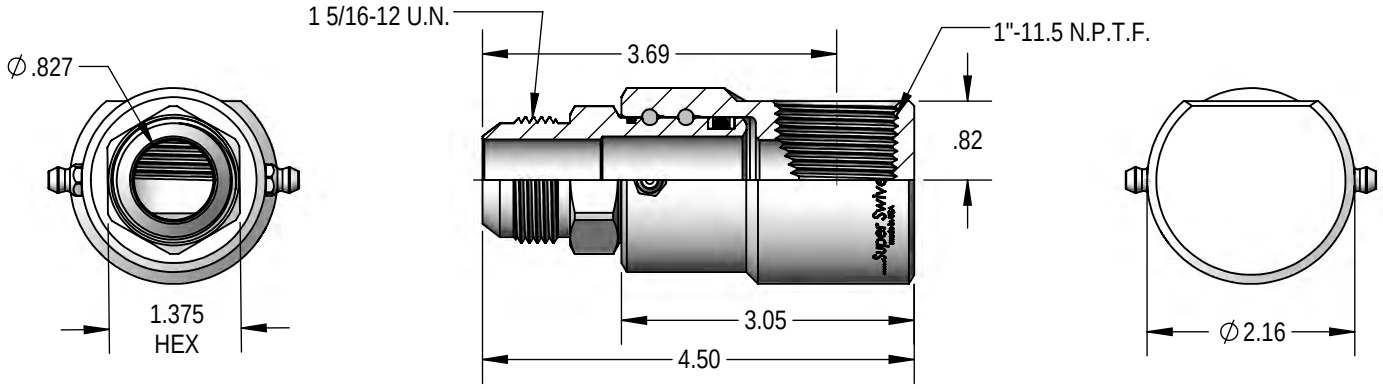
PART NUMBER
9 SS 16 DB FP 100 X FP 100

MAXIMUM P.S.I.G.
4,500

Not Available
In Stainless Steel!

Extra Heavy Duty
Multiple Bearing Race

16 Male J.I.C. (37°) X Female Pipe (N.P.T.F.)



PART NUMBER
9 SS 16 DB MJ 16 X FP 100

MAXIMUM P.S.I.G.
4,500

Not Available
In Stainless Steel!

Cross Reference

Part Item Number - To - Description, - By - Page Number

This Item Number Cross Reference is sorted by:
- Page Number
- then Item Number/Size.

Visit our website to download this list, or sorted by- Description, or by- Item #.

ITEM # - DESCRIPTION

Inline Male Pipe (N.P.T.F.) X Male Pipe (N.P.T.F.) PAGE 13

2700 - SS4MP25XMP25-Z-V
2701 - SS4MP25XMP25-Z-AL
2702 - SS4MP25XMP25-Z-ETP
2703 - SS4MP25XMP25-NI-V
2704 - SS4MP25XMP25-NI-AL
2705 - SS4MP25XMP25-NI-ETP

2780 - SS4MP38XMP38-Z-V
2781 - SS4MP38XMP38-Z-AL
2782 - SS4MP38XMP38-Z-ETP
2783 - SS4MP38XMP38-NI-V
2784 - SS4MP38XMP38-NI-AL
2785 - SS4MP38XMP38-NI-ETP

Inline Female Pipe (N.P.T.F.) X Female Pipe (N.P.T.F.) PAGE 14

1090 - SS2FP12.5XFP12.5-Z-V
1091 - SS2FP12.5XFP12.5-Z-AL
1092 - N/A
1093 - SS2FP12.5XFP12.5-NI-V
1094 - SS2FP12.5XFP12.5-NI-AL
1095 - N/A

1000 - SS4FP25XFP25-Z-V
1001 - SS4FP25XFP25-Z-AL
1002 - SS4FP25XFP25-Z-ETP
1003 - SS4FP25XFP25-Ni-V
1004 - SS4FP25XFP25-Ni-AL
1005 - SS4FP25XFP25-Ni-ETP
1006 - SS4FP25XFP25-440-AL
1007 - SS4FP25XFP25-440-ETP

1010 - SS8FP38XFP38-Z-V
1011 - SS8FP38XFP38-Z-AL
1012 - SS8FP38XFP38-Z-ETP
1013 - SS8FP38XFP38-Ni-V
1014 - SS8FP38XFP38-Ni-AL
1015 - SS8FP38XFP38-Ni-ETP
1016 - SS8FP38XFP38-440-AL
1017 - SS8FP38XFP38-440-ETP

1020 - SS8FP50XFP50-Z-V
1021 - SS8FP50XFP50-Z-AL
1022 - SS8FP50XFP50-Z-ETP
1023 - SS8FP50XFP50-Ni-V
1024 - SS8FP50XFP50-Ni-AL
1025 - SS8FP50XFP50-Ni-ETP
1026 - SS8FP50XFP50-440-AL
1027 - SS8FP50XFP50-440-ETP

1030 - SS12FP75XFP75-Z-V
1031 - SS12FP75XFP75-Z-AL
1032 - SS12FP75XFP75-Z-ETP
1033 - SS12FP75XFP75-Ni-V
1034 - SS12FP75XFP75-Ni-AL
1035 - SS12FP75XFP75-Ni-ETP
1036 - SS12FP75XFP75-440-AL
1037 - SS12FP75XFP75-440-ETP

1040 - SS16FP100XFP100-Z-V
1041 - SS16FP100XFP100-Z-AL
1042 - SS16FP100XFP100-Z-ETP
1043 - SS16FP100XFP100-Ni-V
1044 - SS16FP100XFP100-Ni-AL
1045 - SS16FP100XFP100-Ni-ETP
1046 - SS16FP100XFP100-440-AL
1047 - SS16FP100XFP100-440-ETP

ITEM # - DESCRIPTION

1050 - SS20FP125XFP125-Z-V
1051 - SS20FP125XFP125-Z-AL
1052 - SS20FP125XFP125-Z-ETP
1053 - SS20FP125XFP125-Ni-V
1054 - SS20FP125XFP125-Ni-AL
1055 - SS20FP125XFP125-Ni-ETP
1056 - SS20FP125XFP125-440-AL
1057 - SS20FP125XFP125-440-ETP

1063 - SS24FP150XFP150-Ni-V
1064 - SS24FP150XFP150-Ni-AL
1065 - SS24FP150XFP150-Ni-ETP
1066 - SS24FP150XFP150-440-AL
1067 - SS24FP150XFP150-440-ETP

1073 - SS32FP200XFP200-Ni-V
1074 - SS32FP200XFP200-Ni-AL
1075 - SS32FP200XFP200-Ni-ETP
1076 - SS32FP200XFP200-440-AL
1077 - SS32FP200XFP200-440-ETP

1083 - SS40FP250XFP250-Ni-V
1084 - SS40FP250XFP250-Ni-AL
1085 - SS40FP250XFP250-Ni-ETP

Inline Male Pipe (N.P.T.F.) X Female Pipe (N.P.T.F.) PAGE 14

1280 - SS2MP12.5XFP12.5-Z-V
1281 - SS2MP12.5XFP12.5-Z-AL
1282 - N/A
1283 - SS2MP12.5XFP12.5-NI-V
1284 - SS2MP12.5XFP12.5-NI-AL
1285 - N/A

1200 - SS4MP25XFP25-Z-V
1201 - SS4MP25XFP25-Z-AL
1202 - SS4MP25XFP25-Z-ETP
1203 - SS4MP25XFP25-Ni-V
1204 - SS4MP25XFP25-Ni-AL
1205 - SS4MP25XFP25-Ni-ETP
1206 - SS4MP25XFP25-440-AL
1207 - SS4MP25XFP25-440-ETP

1210 - SS8MP38XFP38-Z-V
1211 - SS8MP38XFP38-Z-AL
1212 - SS8MP38XFP38-Z-ETP
1213 - SS8MP38XFP38-Ni-V
1214 - SS8MP38XFP38-Ni-AL
1215 - SS8MP38XFP38-Ni-ETP
1216 - SS8MP38XFP38-440-AL
1217 - SS8MP38XFP38-440-ETP

1220 - SS8MP50XFP50-Z-V
1221 - SS8MP50XFP50-Z-AL
1222 - SS8MP50XFP50-Z-ETP
1223 - SS8MP50XFP50-Ni-V
1224 - SS8MP50XFP50-Ni-AL
1225 - SS8MP50XFP50-Ni-ETP
1226 - SS8MP50XFP50-440-AL
1227 - SS8MP50XFP50-440-ETP

1230 - SS12MP75XFP75-Z-V
1231 - SS12MP75XFP75-Z-AL
1232 - SS12MP75XFP75-Z-ETP
1233 - SS12MP75XFP75-Ni-V
1234 - SS12MP75XFP75-Ni-AL
1235 - SS12MP75XFP75-Ni-ETP
1236 - SS12MP75XFP75-440-AL
1237 - SS12MP75XFP75-440-ETP

1240 - SS16MP100XFP100-Z-V
1241 - SS16MP100XFP100-Z-AL
1242 - SS16MP100XFP100-Z-ETP
1243 - SS16MP100XFP100-Ni-V
1244 - SS16MP100XFP100-Ni-AL
1245 - SS16MP100XFP100-Ni-ETP
1246 - SS16MP100XFP100-440-AL
1247 - SS16MP100XFP100-440-ETP

1250 - SS20MP125XFP125-Z-V
1251 - SS20MP125XFP125-Z-AL
1252 - SS20MP125XFP125-Z-ETP
1253 - SS20MP125XFP125-Ni-V
1254 - SS20MP125XFP125-Ni-AL
1255 - SS20MP125XFP125-Ni-ETP
1256 - SS20MP125XFP125-440-AL
1257 - SS20MP125XFP125-440-ETP

ITEM # - DESCRIPTION

1263 - SS24MP150XFP150-Ni-V
1264 - SS24MP150XFP150-Ni-AL
1265 - SS24MP150XFP150-Ni-ETP
1266 - SS24MP150XFP150-440-AL
1267 - SS24MP150XFP150-440-ETP

1273 - SS32MP200XFP200-Ni-V
1274 - SS32MP200XFP200-Ni-AL
1275 - SS32MP200XFP200-Ni-ETP
1276 - SS32MP200XFP200-440-AL
1277 - SS32MP200XFP200-440-ETP

Inline Male (J.I.C.) X Female Pipe (N.P.T.F.) PAGE 15

1100 - SS4MJ6XFP25-Z-V
1101 - SS4MJ6XFP25-Z-AL
1102 - SS4MJ6XFP25-Z-ETP
1103 - SS4MJ6XFP25-Ni-V
1104 - SS4MJ6XFP25-Ni-AL
1105 - SS4MJ6XFP25-Ni-ETP

1110 - SS8MJ8XFP38-Z-V
1111 - SS8MJ8XFP38-Z-AL
1112 - SS8MJ8XFP38-Z-ETP
1113 - SS8MJ8XFP38-Ni-V
1114 - SS8MJ8XFP38-Ni-AL
1115 - SS8MJ8XFP38-Ni-ETP

1120 - SS8MJ8XFP50-Z-V
1121 - SS8MJ8XFP50-Z-AL
1122 - SS8MJ8XFP50-Z-ETP
1123 - SS8MJ8XFP50-Ni-V
1124 - SS8MJ8XFP50-Ni-AL
1125 - SS8MJ8XFP50-Ni-ETP

1130 - SS8MJ10XFP50-Z-V
1131 - SS8MJ10XFP50-Z-AL
1132 - SS8MJ10XFP50-Z-ETP
1133 - SS8MJ10XFP50-Ni-V
1134 - SS8MJ10XFP50-Ni-AL
1135 - SS8MJ10XFP50-Ni-ETP

1140 - SS12MJ12XFP75-Z-V
1141 - SS12MJ12XFP75-Z-AL
1142 - SS12MJ12XFP75-Z-ETP
1143 - SS12MJ12XFP75-Ni-V
1144 - SS12MJ12XFP75-Ni-AL
1145 - SS12MJ12XFP75-Ni-ETP

1150 - SS16MJ16XFP100-Z-V
1151 - SS16MJ16XFP100-Z-AL
1152 - SS16MJ16XFP100-Z-ETP
1153 - SS16MJ16XFP100-Ni-V
1154 - SS16MJ16XFP100-Ni-AL
1155 - SS16MJ16XFP100-Ni-ETP

1160 - SS20MJ20XFP125-Z-V
1161 - SS20MJ20XFP125-Z-AL
1162 - SS20MJ20XFP125-Z-ETP
1163 - SS20MJ20XFP125-Ni-V
1164 - SS20MJ20XFP125-Ni-AL
1165 - SS20MJ20XFP125-Ni-ETP

1173 - SS24MJ24XFP150-Ni-V
1174 - SS24MJ24XFP150-Ni-AL
1175 - SS24MJ24XFP150-Ni-ETP

Inline Male (J.I.C.) X Female (J.I.C.) PAGE 15

1370 - SS4MJ4XFJ4-Z-V
1371 - SS4MJ4XFJ4-Z-AL
1372 - SS4MJ4XFJ4-Z-ETP
1373 - SS4MJ4XFJ4-Ni-V
1374 - SS4MJ4XFJ4-Ni-AL
1375 - SS4MJ4XFJ4-Ni-ETP

1380 - SS4MJ5XFJ5-Z-V
1381 - SS4MJ5XFJ5-Z-AL
1382 - SS4MJ5XFJ5-Z-ETP
1383 - SS4MJ5XFJ5-Ni-V
1384 - SS4MJ5XFJ5-Ni-AL
1385 - SS4MJ5XFJ5-Ni-ETP

1300 - SS4MJ6XFJ6-Z-V
1301 - SS4MJ6XFJ6-Z-AL
1302 - SS4MJ6XFJ6-Z-ETP

ITEM # - DESCRIPTION

1303 - SS4MJ6XFJ6-Ni-V
1304 - SS4MJ6XFJ6-Ni-AL
1305 - SS4MJ6XFJ6-Ni-ETP

1310 - SS8MJ8XFJ8-Z-V
1311 - SS8MJ8XFJ8-Z-AL
1312 - SS8MJ8XFJ8-Z-ETP
1313 - SS8MJ8XFJ8-Ni-V
1314 - SS8MJ8XFJ8-Ni-AL
1315 - SS8MJ8XFJ8-Ni-ETP

1320 - SS8MJ10XFJ10-Z-V
1321 - SS8MJ10XFJ10-Z-AL
1322 - SS8MJ10XFJ10-Z-ETP
1323 - SS8MJ10XFJ10-Ni-V
1324 - SS8MJ10XFJ10-Ni-AL
1325 - SS8MJ10XFJ10-Ni-ETP

1330 - SS12MJ12XFJ12-Z-V
1331 - SS12MJ12XFJ12-Z-AL
1332 - SS12MJ12XFJ12-Z-ETP
1333 - SS12MJ12XFJ12-Ni-V
1334 - SS12MJ12XFJ12-Ni-AL
1335 - SS12MJ12XFJ12-Ni-ETP

1340 - SS16MJ16XFJ16-Z-V
1341 - SS16MJ16XFJ16-Z-AL
1342 - SS16MJ16XFJ16-Z-ETP
1343 - SS16MJ16XFJ16-Ni-V
1344 - SS16MJ16XFJ16-Ni-AL
1345 - SS16MJ16XFJ16-Ni-ETP

1350 - SS20MJ20XFJ20-Z-V
1351 - SS20MJ20XFJ20-Z-AL
1352 - SS20MJ20XFJ20-Z-ETP
1353 - SS20MJ20XFJ20-Ni-V
1354 - SS20MJ20XFJ20-Ni-AL
1355 - SS20MJ20XFJ20-Ni-ETP

1363 - SS24MJ24XFJ24-Ni-V
1364 - SS24MJ24XFJ24-Ni-AL
1365 - SS24MJ24XFJ24-Ni-ETP

Inline Male (O.R.B.) X Female Pipe (N.P.T.F.) PAGE 16

1400 - SS4MO6XFP25-Z-V
1401 - SS4MO6XFP25-Z-AL
1402 - SS4MO6XFP25-Z-ETP
1403 - SS4MO6XFP25-Ni-V
1404 - SS4MO6XFP25-Ni-AL
1405 - SS4MO6XFP25-Ni-ETP

1410 - SS8MO8XFP38-Z-V
1411 - SS8MO8XFP38-Z-AL
1412 - SS8MO8XFP38-Z-ETP
1413 - SS8MO8XFP38-Ni-V
1414 - SS8MO8XFP38-Ni-AL
1415 - SS8MO8XFP38-Ni-ETP

1420 - SS8MO10XFP38-Z-V
1421 - SS8MO10XFP38-Z-AL
1422 - SS8MO10XFP38-Z-ETP
1423 - SS8MO10XFP38-Ni-V
1424 - SS8MO10XFP38-Ni-AL
1425 - SS8MO10XFP38-Ni-ETP

1430 - SS8MO8XFP50-Z-V
1431 - SS8MO8XFP50-Z-AL
1432 - SS8MO8XFP50-Z-ETP
1433 - SS8MO8XFP50-Ni-V
1434 - SS8MO8XFP50-Ni-AL
1435 - SS8MO8XFP50-Ni-ETP

1440 - SS8MO10XFP50-Z-V
1441 - SS8MO10XFP50-Z-AL
1442 - SS8MO10XFP50-Z-ETP
1443 - SS8MO10XFP50-Ni-V
1444 - SS8MO10XFP50-Ni-AL
1445 - SS8MO10XFP50-Ni-ETP

1450 - SS12MO12XFP75-Z-V
1451 - SS12MO12XFP75-Z-AL
1452 - SS12MO12XFP75-Z-ETP
1453 - SS12MO12XFP75-Ni-V
1454 - SS12MO12XFP75-Ni-AL
1455 - SS12MO12XFP75-Ni-ETP

ITEM # - DESCRIPTION

1460 - SS16MO16XFP100-Z-V
1461 - SS16MO16XFP100-Z-AL
1462 - SS16MO16XFP100-Z-ETP
1463 - SS16MO16XFP100-Ni-V
1464 - SS16MO16XFP100-Ni-AL
1465 - SS16MO16XFP100-Ni-ETP

1470 - SS20MO20XFP125-Z-V
1471 - SS20MO20XFP125-Z-AL
1472 - SS20MO20XFP125-Z-ETP
1473 - SS20MO20XFP125-Ni-V
1474 - SS20MO20XFP125-Ni-AL
1475 - SS20MO20XFP125-Ni-ETP

1483 - SS24MO24XFP150-Ni-V
1484 - SS24MO24XFP150-Ni-AL
1485 - SS24MO24XFP150-Ni-ETP

Inline Male Bulkhead (J.I.C.) X Female (J.I.C.) PAGE 16

1500 - SS4MJB6XFJ6-Z-V
1501 - SS4MJB6XFJ6-Z-AL
1502 - SS4MJB6XFJ6-Z-ETP2
1503 - SS4MJB6XFJ6-NI-V
1504 - SS4MJB6XFJ6-NI-AL
1505 - SS4MJB6XFJ6-NI-ETP

1510 - SS8MJB8XFJ8-Z-V
1511 - SS8MJB8XFJ8-Z-AL
1512 - SS8MJB8XFJ8-Z-ETP
1513 - SS8MJB8XFJ8-Ni-V
1514 - SS8MJB8XFJ8-Ni-AL
1515 - SS8MJB8XFJ8-Ni-ETP

1520 - SS8MJB10XFJ10-Z-V
1521 - SS8MJB10XFJ10-Z-AL
1522 - SS8MJB10XFJ10-Z-ETP
1523 - SS8MJB10XFJ10-Ni-V
1524 - SS8MJB10XFJ10-Ni-AL
1525 - SS8MJB10XFJ10-Ni-ETP

1530 - SS12MJB12XFJ12-Z-V
1531 - SS12MJB12XFJ12-Z-AL
1532 - SS12MJB12XFJ12-Z-ETP
1533 - SS12MJB12XFJ12-Ni-V
1534 - SS12MJB12XFJ12-Ni-AL
1535 - SS12MJB12XFJ12-Ni-ETP

1540 - SS16MJB16XFJ16-Z-V
1541 - SS16MJB16XFJ16-Z-AL
1542 - SS16MJB16XFJ16-Z-ETP
1543 - SS16MJB16XFJ16-Ni-V
1544 - SS16MJB16XFJ16-Ni-AL
1545 - SS16MJB16XFJ16-Ni-ETP

1550 - SS20MJB20XFJ20-Z-V
1551 - SS20MJB20XFJ20-Z-AL
1552 - SS20MJB20XFJ20-Z-ETP
1553 - SS20MJB20XFJ20-Ni-V
1554 - SS20MJB20XFJ20-Ni-AL
1555 - SS20MJB20XFJ20-Ni-ETP

Inline Male Bulkhead (J.I.C.) X Male (J.I.C.) PAGE 17

1600 - SS4MJB6XMJ6-Z-V
1601 - SS4MJB6XMJ6-Z-AL
1602 - SS4MJB6XMJ6-Z-ETP
1603 - SS4MJB6XMJ6-NI-V
1604 - SS4MJB6XMJ6-NI-AL
1605 - SS4MJB6XMJ6-NI-ETP

1610 - SS8MJB8XMJ8-Z-V
1611 - SS8MJB8XMJ8-Z-AL
1612 - SS8MJB8XMJ8-Z-ETP
1613 - SS8MJB8XMJ8-Ni-V
1614 - SS8MJB8XMJ8-Ni-AL
1615 - SS8MJB8XMJ8-Ni-ETP

1620 - SS8MJB10XMJ10-Z-V
1621 - SS8MJB10XMJ10-Z-AL
1622 - SS8MJB10XMJ10-Z-ETP
1623 - SS8MJB10XMJ10-Ni-V
1624 - SS8MJB10XMJ10-Ni-AL
1625 - SS8MJB10XMJ10-Ni-ETP

ITEM # - DESCRIPTION

1630 - SS12MJB12XMJ12-Z-V
1631 - SS12MJB12XMJ12-Z-AL
1632 - SS12MJB12XMJ12-Z-ETP
1633 - SS12MJB12XMJ12-Ni-V
1634 - SS12MJB12XMJ12-Ni-AL
1635 - SS12MJB12XMJ12-Ni-ETP

1640 - SS16MJB16XMJ16-Z-V
1641 - SS16MJB16XMJ16-Z-AL
1642 - SS16MJB16XMJ16-Z-ETP
1643 - SS16MJB16XMJ16-Ni-V
1644 - SS16MJB16XMJ16-Ni-AL
1645 - SS16MJB16XMJ16-Ni-ETP

1650 - SS20MJB20XMJ20-Z-V
1651 - SS20MJB20XMJ20-Z-AL
1652 - SS20MJB20XMJ20-Z-ETP
1653 - SS20MJB20XMJ20-Ni-V
1654 - SS20MJB20XMJ20-Ni-AL
1655 - SS20MJB20XMJ20-Ni-ETP

Inline Male (O.R.B.) X Male (J.I.C.) PAGE 17

1780 - SS4MO4XMJ4-Z-V
1781 - SS4MO4XMJ4-Z-AL
1782 - SS4MO4XMJ4-Z-ETP
1783 - SS4MO4XMJ4-NI-V
1784 - SS4MO4XMJ4-NI-AL
1785 - SS4MO4XMJ4-NI-ETP

1700 - SS4MO6XMJ6-Z-V
1701 - SS4MO6XMJ6-Z-AL
1702 - SS4MO6XMJ6-Z-ETP
1703 - SS4MO6XMJ6-Ni-V
1704 - SS4MO6XMJ6-Ni-AL
1705 - SS4MO6XMJ6-Ni-ETP

1710 - SS8MO8XMJ8-Z-V
1711 - SS8MO8XMJ8-Z-AL
1712 - SS8MO8XMJ8-Z-ETP
1713 - SS8MO8XMJ8-Ni-V
1714 - SS8MO8XMJ8-Ni-AL
1715 - SS8MO8XMJ8-Ni-ETP

1720 - SS8MO8XMJ10-Z-V
1721 - SS8MO8XMJ10-Z-AL
1722 - SS8MO8XMJ10-Z-ETP
1723 - SS8MO8XMJ10-Ni-V
1724 - SS8MO8XMJ10-Ni-AL
1725 - SS8MO8XMJ10-Ni-ETP

1730 - SS8MO10XMJ8-Z-V
1731 - SS8MO10XMJ8-Z-AL
1732 - SS8MO10XMJ8-Z-ETP
1733 - SS8MO10XMJ8-Ni-V
1734 - SS8MO10XMJ8-Ni-AL
1735 - SS8MO10XMJ8-Ni-ETP

1740 - SS8MO10XMJ10-Z-V
1741 - SS8MO10XMJ10-Z-AL
1742 - SS8MO10XMJ10-Z-ETP
1743 - SS8MO10XMJ10-Ni-V
1744 - SS8MO10XMJ10-Ni-AL
1745 - SS8MO10XMJ10-Ni-ETP

1750 - SS12MO12XMJ12-Z-V
1751 - SS12MO12XMJ12-Z-AL
1752 - SS12MO12XMJ12-Z-ETP
1753 - SS12MO12XMJ12-Ni-V
1754 - SS12MO12XMJ12-Ni-AL
1755 - SS12MO12XMJ12-Ni-ETP

1760 - SS16MO16XMJ16-Z-V
1761 - SS16MO16XMJ16-Z-AL
1762 - SS16MO16XMJ16-Z-ETP
1763 - SS16MO16XMJ16-Ni-V
1764 - SS16MO16XMJ16-Ni-AL
1765 - SS16MO16XMJ16-Ni-ETP

1770 - SS20MO20XMJ20-Z-V
1771 - SS20MO20XMJ20-Z-AL
1772 - SS20MO20XMJ20-Z-ETP
1773 - SS20MO20XMJ20-Ni-V
1774 - SS20MO20XMJ20-Ni-AL
1775 - SS20MO20XMJ20-Ni-ETP
18014 - SS24MO24XMJ24-NI-V

ITEM # - DESCRIPTION

Inline Male Pipe (N.P.T.F.) X Male (J.I.C.) PAGE 18

1800 - SS4MP25XMJ6-Z-V
1801 - SS4MP25XMJ6-Z-AL
1802 - SS4MP25XMJ6-Z-ETP
1803 - SS4MP25XMJ6-Ni-V
1804 - SS4MP25XMJ6-Ni-AL
1805 - SS4MP25XMJ6-Ni-ETP

1880 - SS4MP38XMJ6-Z-V
1881 - SS4MP38XMJ6-Z-AL
1882 - SS4MP38XMJ6-Z-ETP
1883 - SS4MP38XMJ6-Ni-V
1884 - SS4MP38XMJ6-Ni-AL
1885 - SS4MP38XMJ6-Ni-ETP

1810 - SS8MP38XMJ8-Z-V
1811 - SS8MP38XMJ8-Z-AL
1812 - SS8MP38XMJ8-Z-ETP
1813 - SS8MP38XMJ8-Ni-V
1814 - SS8MP38XMJ8-Ni-AL
1815 - SS8MP38XMJ8-Ni-ETP

1820 - SS8MP38XMJ10-Z-V
1821 - SS8MP38XMJ10-Z-AL
1822 - SS8MP38XMJ10-Z-ETP
1823 - SS8MP38XMJ10-Ni-V
1824 - SS8MP38XMJ10-Ni-AL
1825 - SS8MP38XMJ10-Ni-ETP

1830 - SS8MP50XMJ8-Z-V
1831 - SS8MP50XMJ8-Z-AL
1832 - SS8MP50XMJ8-Z-ETP
1833 - SS8MP50XMJ8-Ni-V
1834 - SS8MP50XMJ8-Ni-AL
1835 - SS8MP50XMJ8-Ni-ETP

1840 - SS8MP50XMJ10-Z-V
1841 - SS8MP50XMJ10-Z-AL
1842 - SS8MP50XMJ10-Z-ETP
1843 - SS8MP50XMJ10-Ni-V
1844 - SS8MP50XMJ10-Ni-AL
1845 - SS8MP50XMJ10-Ni-ETP

1850 - SS12MP75XMJ12-Z-V
1851 - SS12MP75XMJ12-Z-AL
1852 - SS12MP75XMJ12-Z-ETP
1853 - SS12MP75XMJ12-Ni-V
1854 - SS12MP75XMJ12-Ni-AL
1855 - SS12MP75XMJ12-Ni-ETP

1860 - SS16MP100XMJ16-Z-V
1861 - SS16MP100XMJ16-Z-AL
1862 - SS16MP100XMJ16-Z-ETP

1863 - SS16MP100XMJ16-Ni-V
1864 - SS16MP100XMJ16-Ni-AL
1865 - SS16MP100XMJ16-Ni-ETP

1870 - SS20MP125XMJ20-Z-V
1871 - SS20MP125XMJ20-Z-AL
1872 - SS20MP125XMJ20-Z-ETP
1873 - SS20MP125XMJ20-Ni-V
1874 - SS20MP125XMJ20-Ni-AL
1875 - SS20MP125XMJ20-Ni-ETP

Inline Male (J.I.C.) X Male (J.I.C.) PAGE 18

1960 - SS4MJ4XMJ4-Z-V
1961 - SS4MJ4XMJ4-Z-AL
1962 - SS4MJ4XMJ4-Z-ETP
1963 - SS4MJ4XMJ4-NI-V
1964 - SS4MJ4XMJ4-NI-AL
1965 - SS4MJ4XMJ4-NI-ETP

1900 - SS4MJ6XMJ6-Z-V
1901 - SS4MJ6XMJ6-Z-AL
1902 - SS4MJ6XMJ6-Z-ETP
1903 - SS4MJ6XMJ6-Ni-V
1904 - SS4MJ6XMJ6-Ni-AL
1905 - SS4MJ6XMJ6-Ni-ETP

1910 - SS8MJ8XMJ8-Z-V
1911 - SS8MJ8XMJ8-Z-AL
1912 - SS8MJ8XMJ8-Z-ETP

ITEM # - DESCRIPTION

1913 - SS8MJ8XMJ8-Ni-V
1914 - SS8MJ8XMJ8-Ni-AL
1915 - SS8MJ8XMJ8-Ni-ETP

1920 - SS8MJ10XMJ10-Z-V
1921 - SS8MJ10XMJ10-Z-AL
1922 - SS8MJ10XMJ10-Z-ETP
1923 - SS8MJ10XMJ10-Ni-V
1924 - SS8MJ10XMJ10-Ni-AL
1925 - SS8MJ10XMJ10-Ni-ETP

1930 - SS12MJ12XMJ12-Z-V
1931 - SS12MJ12XMJ12-Z-AL
1932 - SS12MJ12XMJ12-Z-ETP
1933 - SS12MJ12XMJ12-Ni-V
1934 - SS12MJ12XMJ12-Ni-AL
1935 - SS12MJ12XMJ12-Ni-ETP

1940 - SS16MJ16XMJ16-Z-V
1941 - SS16MJ16XMJ16-Z-AL
1942 - SS16MJ16XMJ16-Z-ETP
1943 - SS16MJ16XMJ16-Ni-V
1944 - SS16MJ16XMJ16-Ni-AL
1945 - SS16MJ16XMJ16-Ni-ETP

1950 - SS20MJ20XMJ20-Z-V
1951 - SS20MJ20XMJ20-Z-AL
1952 - SS20MJ20XMJ20-Z-ETP
1953 - SS20MJ20XMJ20-Ni-V
1954 - SS20MJ20XMJ20-Ni-AL
1955 - SS20MJ20XMJ20-Ni-ETP

Inline Male (O.R.B.) X Female (J.I.C.) PAGE 19

2000 - SS4MO6XFJ6-Z-V
2001 - SS4MO6XFJ6-Z-AL
2002 - SS4MO6XFJ6-Z-ETP
2003 - SS4MO6XFJ6-Ni-V
2004 - SS4MO6XFJ6-Ni-AL
2005 - SS4MO6XFJ6-Ni-ETP

2010 - SS8MO8XFJ8-Z-V
2011 - SS8MO8XFJ8-Z-AL
2012 - SS8MO8XFJ8-Z-ETP
2013 - SS8MO8XFJ8-Ni-V
2014 - SS8MO8XFJ8-Ni-AL
2015 - SS8MO8XFJ8-Ni-ETP

2020 - SS8MO10XFJ10-Z-V
2021 - SS8MO10XFJ10-Z-AL
2022 - SS8MO10XFJ10-Z-ETP
2023 - SS8MO10XFJ10-Ni-V
2024 - SS8MO10XFJ10-Ni-AL
2025 - SS8MO10XFJ10-Ni-ETP

2030 - SS12MO12XFJ12-Z-V
2031 - SS12MO12XFJ12-Z-AL
2032 - SS12MO12XFJ12-Z-ETP
2033 - SS12MO12XFJ12-Ni-V

2034 - SS12MO12XFJ12-Ni-AL
2035 - SS12MO12XFJ12-Ni-ETP

2040 - SS16MO16XFJ16-Z-V
2041 - SS16MO16XFJ16-Z-AL
2042 - SS16MO16XFJ16-Z-ETP
2043 - SS16MO16XFJ16-Ni-V
2044 - SS16MO16XFJ16-Ni-AL
2045 - SS16MO16XFJ16-Ni-ETP

2050 - SS20MO20XFJ20-Z-V
2051 - SS20MO20XFJ20-Z-AL
2052 - SS20MO20XFJ20-Z-ETP
2053 - SS20MO20XFJ20-Ni-V
2054 - SS20MO20XFJ20-Ni-AL
2055 - SS20MO20XFJ20-Ni-ETP

2063 - SS24MO24XFJ24-Ni-V
2064 - SS24MO24XFJ24-Ni-AL
2065 - SS24MO24XFJ24-Ni-ETP

(V) = Viton
(AL) = Aflas
(ETP) = Extreme Viton

ITEM # - DESCRIPTION

Inline Female Face Seal (F.F.S.) X Male Face Seal (M.F.S.) PAGE 19

2300 - SS4FFS6XMFS6-Z-V
2301 - SS4FFS6XMFS6-Z-AL
2302 - SS4FFS6XMFS6-Z-ETP
2303 - SS4FFS6XMFS6-NI-V
2304 - SS4FFS6XMFS6-NI-AL
2305 - SS4FFS6XMFS6-NI-ETP

2310 - SS8FFS8XMFS8-Z-V
2311 - SS8FFS8XMFS8-Z-AL
2312 - SS8FFS8XMFS8-Z-ETP
2313 - SS8FFS8XMFS8-NI-V
2314 - SS8FFS8XMFS8-NI-AL
2315 - SS8FFS8XMFS8-NI-ETP

2320 - SS8FFS10XMFS10-Z-V
2321 - SS8FFS10XMFS10-Z-AL
2322 - SS8FFS10XMFS10-Z-ETP
2323 - SS8FFS10XMFS10-NI-V
2324 - SS8FFS10XMFS10-NI-AL
2325 - SS8FFS10XMFS10-NI-ETP

2330 - SS12FFS12XMFS12-Z-V
2331 - SS12FFS12XMFS12-Z-AL
2332 - SS12FFS12XMFS12-Z-ETP
2333 - SS12FFS12XMFS12-NI-V
2334 - SS12FFS12XMFS12-NI-AL
2335 - SS12FFS12XMFS12-NI-ETP

2340 - SS16FFS16XMFS16-Z-V
2341 - SS16FFS16XMFS16-Z-AL
2342 - SS16FFS16XMFS16-Z-ETP
2343 - SS16FFS16XMFS16-NI-V
2344 - SS16FFS16XMFS16-NI-AL
2345 - SS16FFS16XMFS16-NI-ETP

2350 - SS20FFS20XMFS20-Z-V
2351 - SS20FFS20XMFS20-Z-AL
2352 - SS20FFS20XMFS20-Z-ETP
2353 - SS20FFS20XMFS20-NI-V
2354 - SS20FFS20XMFS20-NI-AL
2355 - SS20FFS20XMFS20-NI-ETP

2363 - SS24FFS24XMFS24-NI-V
2364 - SS24FFS24XMFS24-NI-AL
2365 - SS24FFS24XMFS24-NI-ETP

Inline Male Face Seal (M.F.S.) X Male Face Seal (M.F.S.) PAGE 20

2400 - SS4MFS6XMFS6-Z-V
2401 - SS4MFS6XMFS6-Z-AL
2402 - SS4MFS5XMFS6-Z-ETP
2403 - SS4MFS6XMFS6-NI-V
2404 - SS4MFS6XMFS6-NI-AL
2405 - SS4MFS6XMFS6-NI-ETP

2410 - SS8MFS8XMFS8-Z-V
2411 - SS8MFS8XMFS8-Z-AL
2412 - SS8MFS8XMFS8-Z-ETP
2413 - SS8MFS8XMFS8-NI-V
2414 - SS8MFS8XMFS8-NI-AL
2415 - SS8MFS8XMFS8-NI-ETP

2420 - SS8MFS10XMFS10-Z-V
2421 - SS8MFS10XMFS10-Z-AL
2422 - SS8MFS10XMFS10-Z-ETP
2423 - SS8MFS10XMFS10-NI-V
2424 - SS8MFS10XMFS10-NI-AL
2425 - SS8MFS10XMFS10-NI-ETP

2430 - SS12MFS12XMFS12-Z-V
2431 - SS12MFS12XMFS12-Z-AL
2432 - SS12MFS12XMFS12-Z-ETP
2433 - SS12MFS12XMFS12-NI-V
2434 - SS12MFS12XMFS12-NI-AL
2435 - SS12MFS12XMFS12-NI-ETP

2440 - SS16MFS16XMFS16-Z-V
2441 - SS16MFS16XMFS16-Z-AL
2442 - SS16MFS16XMFS16-Z-ETP
2443 - SS16MFS16XMFS16-NI-V
2444 - SS16MFS16XMFS16-NI-AL
2445 - SS16MFS16XMFS16-NI-ETP

ITEM # - DESCRIPTION

2450 - SS20MFS20XMFS20-Z-V
2451 - SS20MFS20XMFS20-Z-AL
2452 - SS20MFS20XMFS20-Z-ETP
2453 - SS20MFS20XMFS20-NI-V
2454 - SS20MFS20XMFS20-NI-AL
2455 - SS20MFS20XMFS20-NI-ETP

2463 - SS24MFS24XMFS24-NI-V
2464 - SS24MFS24XMFS24-NI-AL
2465 - SS24MFS24XMFS24-NI-ETP

Inline Male (O.R.B.) X Male Face Seal (M.F.S.) PAGE 20

2500 - SS4MO6XMFS6-Z-V
2501 - SS4MO6XMFS6-Z-AL
2502 - SS4MO6XMFS6-Z-ETP
2503 - SS4MO6XMFS6-NI-V
2504 - SS4MO6XMFS6-NI-AL
2505 - SS4MO6XMFS6-NI-ETP

2510 - SS8MO8XMFS8-Z-V
2511 - SS8MO8XMFS8-Z-AL
2512 - SS8MO8XMFS8-Z-ETP
2513 - SS8MO8XMFS8-NI-V
2514 - SS8MO8XMFS8-NI-AL
2515 - SS8MO8XMFS8-NI-ETP

2520 - SS8MO10XMFS10-Z-V
2521 - SS8MO10XMFS10-Z-AL
2522 - SS8MO10XMFS10-Z-ETP
2523 - SS8MO10XMFS10-NI-V
2524 - SS8MO10XMFS10-NI-AL
2525 - SS8MO10XMFS10-NI-ETP

2530 - SS12MO12XMFS12-Z-V
2531 - SS12MO12XMFS12-Z-AL
2532 - SS12MO12XMFS12-Z-ETP
2533 - SS12MO12XMFS12-NI-V
2534 - SS12MO12XMFS12-NI-AL
2535 - SS12MO12XMFS12-NI-ETP

2540 - SS16MO16XMFS16-Z-V
2541 - SS16MO16XMFS16-Z-AL
2542 - SS16MO16XMFS16-Z-ETP
2543 - SS16MO16XMFS16-NI-V
2544 - SS16MO16XMFS16-NI-AL
2545 - SS16MO16XMFS16-NI-ETP

2550 - SS20MO20XMFS20-Z-V
2551 - SS20MO20XMFS20-Z-AL
2552 - SS20MO20XMFS20-Z-ETP
2553 - SS20MO20XMFS20-NI-V
2554 - SS20MO20XMFS20-NI-AL
2555 - SS20MO20XMFS20-NI-ETP

2563 - SS24MO24XMFS24-NI-V
2564 - SS24MO24XMFS24-NI-AL
2565 - SS24MO24XMFS24-NI-ETP

Inline Male Face Seal Bulkhead (M.F.S.B.) X Male Face Seal (M.F.S.) PAGE 21

2600 - SS4MFSB6XMFS6-Z-V
2601 - SS4MFSB6XMFS6-Z-AL
2602 - SS4MFSB6XMFS6-Z-ETP
2603 - SS4MFSB6XMFS6-NI-V
2604 - SS4MFSB6XMFS6-NI-AL
2605 - SS4MFSB6XMFS6-NI-ETP

2610 - SS8MFSB8XMFS8-Z-V
2611 - SS8MFSB8XMFS8-Z-AL
2612 - SS8MFSB8XMFS8-Z-ETP
2613 - SS8MFSB8XMFS8-NI-V
2614 - SS8MFSB8XMFS8-NI-AL
2615 - SS8MFSB8XMFS8-NI-ETP

2620 - SS8MFSB10XMFS10-Z-V
2621 - SS8MFSB10XMFS10-Z-AL
2622 - SS8MFSB10XMFS10-Z-ETP
2623 - SS8MFSB10XMFS10-NI-V
2624 - SS8MFSB10XMFS10-NI-AL
2625 - SS8MFSB10XMFS10-NI-ETP

2630 - SS12MFSB12XMFS12-Z-V
2631 - SS12MFSB12XMFS12-Z-AL
2632 - SS12MFSB12XMFS12-Z-ETP

ITEM # - DESCRIPTION

2633 - SS12MFSB12XMFS12-NI-V
2634 - SS12MFSB12XMFS12-NI-AL
2635 - SS12MFSB12XMFS12-NI-ETP

2640 - SS16MFSB16XMFS16-Z-V
2641 - SS16MFSB16XMFS16-Z-AL
2642 - SS16MFSB16XMFS16-Z-ETP
2643 - SS16MFSB16XMFS16-NI-V
2644 - SS16MFSB16XMFS16-NI-AL
2645 - SS16MFSB16XMFS16-NI-ETP

2650 - SS20MFSB20XMFS20-Z-V
2651 - SS20MFSB20XMFS20-Z-AL
2652 - SS20MFSB20XMFS20-Z-ETP

Inline (H.P.) Female Pipe X Female Pipe (N.P.T.F.) PAGE 22

13039 -SS8HPFP38XFP38-NI-90V
2123 - SS8HPFP50XFP50-Ni-V
2124 - SS8HPFP50XFP50-Ni-AL

Inline (H.P.) Male Pipe X Female Pipe (N.P.T.F.) PAGE 22

13038 -SS8HPMP38XFP38-NI-90V
2223 - SS8HPMP50XFP50-Ni-V
2224 - SS8HPMP50XFP50-Ni-AL

90° Female Pipe (N.P.T.F.) x Female Pipe (N.P.T.F.) PAGE 24

5080 - 9SS2FP12.5XFP12.5-Z-V
5081 - 9SS2FP12.5XFP12.5-Z-AL
5082 - N/A
5083 - 9SS2FP12.5XFP12.5-NI-V
5084 - 9SS2FP12.5XFP12.5-NI-AL
5085 - N/A

5000 - 9SS4FP25XFP25-Z-V
5001 - 9SS4FP25XFP25-Z-AL
5002 - 9SS4FP25XFP25-Z-ETP
5003 - 9SS4FP25XFP25-Ni-V
5004 - 9SS4FP25XFP25-Ni-AL
5005 - 9SS4FP25XFP25-Ni-ETP
5006 - 9SS4FP25XFP25-440-AL
5007 - 9SS4FP25XFP25-440-ETP

5010 - 9SS8FP38XFP38-Z-V
5011 - 9SS8FP38XFP38-Z-AL
5012 - 9SS8FP38XFP38-Z-ETP
5013 - 9SS8FP38XFP38-Ni-V
5014 - 9SS8FP38XFP38-Ni-AL
5015 - 9SS8FP38XFP38-Ni-ETP
5016 - 9SS8FP38XFP38-440-AL
5017 - 9SS8FP38XFP38-440-ETP

5020 - 9SS8FP50XFP50-Z-V
5021 - 9SS8FP50XFP50-Z-AL
5022 - 9SS8FP50XFP50-Z-ETP
5023 - 9SS8FP50XFP50-Ni-V
5024 - 9SS8FP50XFP50-Ni-AL
5025 - 9SS8FP50XFP50-Ni-ETP
5026 - 9SS8FP50XFP50-440-AL
5027 - 9SS8FP50XFP50-440-ETP

5030 - 9SS12FP75XFP75-Z-V
5031 - 9SS12FP75XFP75-Z-AL
5032 - 9SS12FP75XFP75-Z-ETP
5033 - 9SS12FP75XFP75-Ni-V
5034 - 9SS12FP75XFP75-Ni-AL
5035 - 9SS12FP75XFP75-Ni-ETP
5036 - 9SS12FP75XFP75-440-AL
5037 - 9SS12FP75XFP75-440-ETP

5040 - 9SS16FP100XFP100-Z-V
5041 - 9SS16FP100XFP100-Z-AL
5042 - 9SS16FP100XFP100-Z-ETP
5043 - 9SS16FP100XFP100-Ni-V
5044 - 9SS16FP100XFP100-Ni-AL
5045 - 9SS16FP100XFP100-Ni-ETP
5046 - 9SS16FP100XFP100-440-AL
5047 - 9SS16FP100XFP100-440-ETP

5050 - 9SS20FP125XFP125-Z-V
5051 - 9SS20FP125XFP125-Z-AL
5052 - 9SS20FP125XFP125-Z-ETP

ITEM # - DESCRIPTION

5053 - 9SS20FP125XFP125-Ni-V
5054 - 9SS20FP125XFP125-Ni-AL
5055 - 9SS20FP125XFP125-Ni-ETP
5056 - 9SS20FP125XFP125-440-AL
5057 - 9SS20FP125XFP125-440-ETP

5063 - 9SS24FP150XFP150-Ni-V
5064 - 9SS24FP150XFP150-Ni-AL
5065 - 9SS24FP150XFP150-Ni-ETP
5066 - 9SS24FP150XFP150-440-AL
5067 - 9SS24FP150XFP150-440-ETP

5073 - 9SS32FP200XFP200-Ni-V
5074 - 9SS32FP200XFP200-Ni-AL
5075 - 9SS32FP200XFP200-Ni-ETP
5076 - 9SS32FP200XFP200-440-AL
5077 - 9SS32FP200XFP200-440-ETP

90° Male Pipe (N.P.T.F.) X Female Pipe (N.P.T.F.) PAGE 24

21081 - 9SS2MP12.5XFP12.5-Z-V
21084 - 9SS2MP12.5XFP12.5-Z-AL
21090 - 9SS2MP12.5XFP12.5-NI-V
21091 - 9SS2MP12.5XFP12.5-NI-AL

5100 - 9SS4MP25XFP25-Z-V
5101 - 9SS4MP25XFP25-Z-AL
5102 - 9SS4MP25XFP25-Z-ETP
5103 - 9SS4MP25XFP25-Ni-V
5104 - 9SS4MP25XFP25-Ni-AL
5105 - 9SS4MP25XFP25-Ni-ETP
5106 - 9SS4MP25XFP25-440-AL
5107 - 9SS4MP25XFP25-440-ETP

5180 - 9SS4MP38XFP25-Z-V
5181 - 9SS4MP38XFP25-Z-AL
5182 - 9SS4MP38XFP25-Z-ETP
5183 - 9SS4MP38XFP25-Ni-V
5184 - 9SS4MP38XFP25-Ni-AL
5185 - 9SS4MP38XFP25-Ni-ETP

5190 - 9SS7MP38XFP38-Z-V
5191 - 9SS7MP38XFP38-Z-AL
5192 - 9SS7MP38XFP38-Z-ETP
5193 - 9SS7MP38XFP38-Ni-V
5194 - 9SS7MP38XFP38-Ni-AL
5195 - 9SS7MP38XFP38-Ni-ETP

5110 - 9SS8MP38XFP38-Z-V
5111 - 9SS8MP38XFP38-Z-AL
5112 - 9SS8MP38XFP38-Z-ETP
5113 - 9SS8MP38XFP38-Ni-V
5114 - 9SS8MP38XFP38-Ni-AL
5115 - 9SS8MP38XFP38-Ni-ETP
5116 - 9SS8MP38XFP38-440-AL
5117 - 9SS8MP38XFP38-440-ETP

5120 - 9SS8MP50XFP50-Z-V
5121 - 9SS8MP50XFP50-Z-AL
5122 - 9SS8MP50XFP50-Z-ETP
5123 - 9SS8MP50XFP50-Ni-V
5124 - 9SS8MP50XFP50-Ni-AL
5125 - 9SS8MP50XFP50-Ni-ETP
5126 - 9SS8MP50XFP50-440-AL
5127 - 9SS8MP50XFP50-440-ETP

5130 - 9SS12MP75XFP75-Z-V
5131 - 9SS12MP75XFP75-Z-AL
5132 - 9SS12MP75XFP75-Z-ETP
5133 - 9SS12MP75XFP75-Ni-V
5134 - 9SS12MP75XFP75-Ni-AL
5135 - 9SS12MP75XFP75-Ni-ETP
5136 - 9SS12MP75XFP75-440-AL
5137 - 9SS12MP75XFP75-440-ETP

5140 - 9SS16MP100XFP100-Z-V
5141 - 9SS16MP100XFP100-Z-AL
5142 - 9SS16MP100XFP100-Z-ETP
5143 - 9SS16MP100XFP100-Ni-V
5144 - 9SS16MP100XFP100-Ni-AL
5145 - 9SS16MP100XFP100-Ni-ETP

5146 - 9SS16MP100XFP100-440-AL
5147 - 9SS16MP100XFP100-440-ETP

ITEM # - DESCRIPTION

5150 - 9SS20MP125XFP125-Z-V
5151 - 9SS20MP125XFP125-Z-AL
5152 - 9SS20MP125XFP125-Z-ETP
5153 - 9SS20MP125XFP125-Ni-V
5154 - 9SS20MP125XFP125-Ni-AL
5155 - 9SS20MP125XFP125-Ni-ETP
5156 - 9SS20MP125XFP125-440-AL
5157 - 9SS20MP125XFP125-440-ETP

5163 - 9SS24MP150XFP150-Ni-V
5164 - 9SS24MP150XFP150-Ni-AL
5165 - 9SS24MP150XFP150-Ni-ETP
5166 - 9SS24MP150XFP150-440-AL
5167 - 9SS24MP150XFP150-440-ETP

5173 - 9SS32MP200XFP200-Ni-V
5174 - 9SS32MP200XFP200-Ni-AL
5175 - 9SS32MP200XFP200-Ni-ETP
5176 - 9SS32MP200XFP200-440-AL
5177 - 9SS32MP200XFP200-440-ETP

90° Male (O.R.B.)
X Female Pipe (N.P.T.F.) PAGE 25

5690 - 9SS4MO4XFP25-Z-V
5691 - 9SS4MO4XFP25-Z-AL
5692 - 9SS4MO4XFP25-Z-ETP
5693 - 9SS4MO4XFP25-NI-V
5694 - 9SS4MO4XFP25-NI-AL
5695 - 9SS4MO4XFP25-NI-ETP

5600 - 9SS4MO6XFP25-Z-V
5601 - 9SS4MO6XFP25-Z-AL
5602 - 9SS4MO6XFP25-Z-ETP
5603 - 9SS4MO6XFP25-Ni-V
5604 - 9SS4MO6XFP25-Ni-AL
5605 - 9SS4MO6XFP25-Ni-ETP

5610 - 9SS8MO8XFP38-Z-V
5611 - 9SS8MO8XFP38-Z-AL
5612 - 9SS8MO8XFP38-Z-ETP
5613 - 9SS8MO8XFP38-Ni-V
5614 - 9SS8MO8XFP38-Ni-AL
5615 - 9SS8MO8XFP38-Ni-ETP

5620 - 9SS8MO10XFP38-Z-V
5621 - 9SS8MO10XFP38-Z-AL
5622 - 9SS8MO10XFP38-Z-ETP
5623 - 9SS8MO10XFP38-Ni-V
5624 - 9SS8MO10XFP38-Ni-AL
5625 - 9SS8MO10XFP38-Ni-ETP

5630 - 9SS8MO8XFP50-Z-V
5631 - 9SS8MO8XFP50-Z-AL
5632 - 9SS8MO8XFP50-Z-ETP
5633 - 9SS8MO8XFP50-Ni-V
5634 - 9SS8MO8XFP50-Ni-AL
5635 - 9SS8MO8XFP50-Ni-ETP

5640 - 9SS8MO10XFP50-Z-V
5641 - 9SS8MO10XFP50-Z-AL
5642 - 9SS8MO10XFP50-Z-ETP
5643 - 9SS8MO10XFP50-Ni-V
5644 - 9SS8MO10XFP50-Ni-AL
5645 - 9SS8MO10XFP50-Ni-ETP

5650 - 9SS12MO12XFP75-Z-V
5651 - 9SS12MO12XFP75-Z-AL
5652 - 9SS12MO12XFP75-Z-ETP
5653 - 9SS12MO12XFP75-Ni-V
5654 - 9SS12MO12XFP75-Ni-AL
5655 - 9SS12MO12XFP75-Ni-ETP

5660 - 9SS16MO16XFP100-Z-V
5661 - 9SS16MO16XFP100-Z-AL
5662 - 9SS16MO16XFP100-Z-ETP
5663 - 9SS16MO16XFP100-Ni-V
5664 - 9SS16MO16XFP100-Ni-AL
5665 - 9SS16MO16XFP100-Ni-ETP

5670 - 9SS20MO20XFP125-Z-V
5671 - 9SS20MO20XFP125-Z-AL
5672 - 9SS20MO20XFP125-Z-ETP
5673 - 9SS20MO20XFP125-Ni-V
5674 - 9SS20MO20XFP125-Ni-AL
5675 - 9SS20MO20XFP125-Ni-ETP

ITEM # - DESCRIPTION

5683 - 9SS24MO24XFP150-Ni-V
5684 - 9SS24MO24XFP150-Ni-AL
5685 - 9SS24MO24XFP150-Ni-ETP

90° Male (J.I.C.)
X Female Pipe (N.P.T.F.) PAGE 25

5890 - 9SS4MJ4XFP25-Z-V
5891 - 9SS4MJ4XFP25-Z-AL
5892 - 9SS4MJ4XFP25-Z-ETP
5893 - 9SS4MJ4XFP25-NI-V
5894 - 9SS4MJ4XFP25-NI-AL
5895 - 9SS4MJ4XFP25-NI-ETP

5800 - 9SS4MJ6XFP25-Z-V
5801 - 9SS4MJ6XFP25-Z-AL
5802 - 9SS4MJ6XFP25-Z-ETP
5803 - 9SS4MJ6XFP25-Ni-V
5804 - 9SS4MJ6XFP25-Ni-AL
5805 - 9SS4MJ6XFP25-Ni-ETP

5810 - 9SS8MJ8XFP38-Z-V
5811 - 9SS8MJ8XFP38-Z-AL
5812 - 9SS8MJ8XFP38-Z-ETP
5813 - 9SS8MJ8XFP38-Ni-V
5814 - 9SS8MJ8XFP38-Ni-AL
5815 - 9SS8MJ8XFP38-Ni-ETP

5870 - 9SS8MJ10XFP38-Z-V
5871 - 9SS8MJ10XFP38-Z-AL
5872 - 9SS8MJ10XFP38-Z-ETP
5873 - 9SS8MJ10XFP38-Ni-V
5874 - 9SS8MJ10XFP38-Ni-AL
5875 - 9SS8MJ10XFP38-Ni-ETP

5820 - 9SS8MJ8XFP50-Z-V
5821 - 9SS8MJ8XFP50-Z-AL
5822 - 9SS8MJ8XFP50-Z-ETP
5823 - 9SS8MJ8XFP50-Ni-V
5824 - 9SS8MJ8XFP50-Ni-AL
5825 - 9SS8MJ8XFP50-Ni-ETP

5830 - 9SS8MJ10XFP50-Z-V
5831 - 9SS8MJ10XFP50-Z-AL
5832 - 9SS8MJ10XFP50-Z-ETP
5833 - 9SS8MJ10XFP50-Ni-V
5834 - 9SS8MJ10XFP50-Ni-AL
5835 - 9SS8MJ10XFP50-Ni-ETP

5840 - 9SS12MJ12XFP75-Z-V
5841 - 9SS12MJ12XFP75-Z-AL
5842 - 9SS12MJ12XFP75-Z-ETP
5843 - 9SS12MJ12XFP75-Ni-V
5844 - 9SS12MJ12XFP75-Ni-AL
5845 - 9SS12MJ12XFP75-Ni-ETP

5850 - 9SS16MJ16XFP100-Z-V
5851 - 9SS16MJ16XFP100-Z-AL
5852 - 9SS16MJ16XFP100-Z-ETP
5853 - 9SS16MJ16XFP100-Ni-V
5854 - 9SS16MJ16XFP100-Ni-AL
5855 - 9SS16MJ16XFP100-Ni-ETP

5860 - 9SS20MJ20XFP125-Z-V
5861 - 9SS20MJ20XFP125-Z-AL
5862 - 9SS20MJ20XFP125-Z-ETP
5863 - 9SS20MJ20XFP125-Ni-V
5864 - 9SS20MJ20XFP125-Ni-AL
5865 - 9SS20MJ20XFP125-Ni-ETP

5883 - 9SS24MJ24XFP150-Ni-V
5884 - 9SS24MJ24XFP150-Ni-AL
5885 - 9SS24MJ24XFP150-Ni-ETP

90° Male Bulkhead (J.I.C.)
X Female Pipe (N.P.T.F.) PAGE 26

6110 - 9SS8MJB8XFP38-Z-V
6111 - 9SS8MJB8XFP38-Z-AL
6112 - 9SS8MJB8XFP38-Z-ETP
6113 - 9SS8MJB8XFP38-Ni-V
6114 - 9SS8MJB8XFP38-Ni-AL
6115 - 9SS8MJB8XFP38-Ni-ETP

6120 - 9SS8MJB8XFP50-Z-V
6121 - 9SS8MJB8XFP50-Z-AL
6122 - 9SS8MJB8XFP50-Z-ETP

ITEM # - DESCRIPTION

6123 - 9SS8MJB8XFP50-Ni-V
6124 - 9SS8MJB8XFP50-Ni-AL
6125 - 9SS8MJB8XFP50-Ni-ETP

6170 - 9SS8MJB10XFP38-Z-V
6171 - 9SS8MJB10XFP38-Z-AL
6172 - 9SS8MJB10XFP38-Z-ETP
6173 - 9SS8MJB10XFP38-Ni-V
6174 - 9SS8MJB10XFP38-Ni-AL
6175 - 9SS8MJB10XFP38-Ni-ETP

6130 - 9SS8MJB10XFP50-Z-V
6131 - 9SS8MJB10XFP50-Z-AL
6132 - 9SS8MJB10XFP50-Z-ETP
6133 - 9SS8MJB10XFP50-Ni-V
6134 - 9SS8MJB10XFP50-Ni-AL
6135 - 9SS8MJB10XFP50-Ni-ETP

6140 - 9SS12MJB12XFP75-Z-V
6141 - 9SS12MJB12XFP75-Z-AL
6142 - 9SS12MJB12XFP75-Z-ETP
6143 - 9SS12MJB12XFP75-Ni-V
6144 - 9SS12MJB12XFP75-Ni-AL
6145 - 9SS12MJB12XFP75-Ni-ETP

6150 - 9SS16MJB16XFP100-Z-V
6151 - 9SS16MJB16XFP100-Z-AL
6152 - 9SS16MJB16XFP100-Z-ETP
6153 - 9SS16MJB16XFP100-Ni-V
6154 - 9SS16MJB16XFP100-Ni-AL
6155 - 9SS16MJB16XFP100-Ni-ETP

6160 - 9SS20MJB20XFP125-Z-V
6161 - 9SS20MJB20XFP125-Z-AL
6162 - 9SS20MJB20XFP125-Z-ETP
6163 - 9SS20MJB20XFP125-Ni-V
6164 - 9SS20MJB20XFP125-Ni-AL
6165 - 9SS20MJB20XFP125-Ni-ETP

90° Male (O.R.B.)
X Female (O.R.B.) PAGE 26

5780 - 9SS4MO4XFO6-Z-V
5781 - 9SS4MO4XFO6-Z-AL
5782 - 9SS4MO4XFO6-Z-ETP
5783 - 9SS4MO4XFO6-NI-V
5784 - 9SS4MO4XFO6-NI-AL
5785 - 9SS4MO4X FO6-NI-ETP

5700 - 9SS4MO6XFO6-Z-V
5701 - 9SS4MO6XFO6-Z-AL
5702 - 9SS4MO6XFO6-Z-ETP
5703 - 9SS4MO6XFO6-Ni-V
5704 - 9SS4MO6XFO6-Ni-AL
5705 - 9SS4MO6XFO6-Ni-ETP

5710 - 9SS8MO8XFO8-Z-V
5711 - 9SS8MO8XFO8-Z-AL
5712 - 9SS8MO8XFO8-Z-ETP
5713 - 9SS8MO8XFO8-Ni-V
5714 - 9SS8MO8XFO8-Ni-AL
5715 - 9SS8MO8XFO8-Ni-ETP

5720 - 9SS8MO10XFO8-Z-V
5721 - 9SS8MO10XFO8-Z-AL
5722 - 9SS8MO10XFO8-Z-ETP
5723 - 9SS8MO10XFO8-Ni-V
5724 - 9SS8MO10XFO8-Ni-AL
5725 - 9SS8MO10XFO8-Ni-ETP

5730 - 9SS12MO12XFO12-Z-V
5731 - 9SS12MO12XFO12-Z-AL
5732 - 9SS12MO12XFO12-Z-ETP
5733 - 9SS12MO12XFO12-Ni-V
5734 - 9SS12MO12XFO12-Ni-AL
5735 - 9SS12MO12XFO12-Ni-ETP

5740 - 9SS16MO16XFO16-Z-V
5741 - 9SS16MO16XFO16-Z-AL
5742 - 9SS16MO16XFO16-Z-ETP
5743 - 9SS16MO16XFO16-Ni-V
5744 - 9SS16MO16XFO16-Ni-AL
5745 - 9SS16MO16XFO16-Ni-ETP

5750 - 9SS20MO20XFO20-Z-V
5751 - 9SS20MO20XFO20-Z-AL
5752 - 9SS20MO20XFO20-Z-ETP

ITEM # - DESCRIPTION

5753 - 9SS20MO20XFO20-Ni-V
5754 - 9SS20MO20XFO20-Ni-AL
5755 - 9SS20MO20XFO20-Ni-ETP

90° Female Pipe (N.P.T.F.)
X Female (O.R.B.) PAGE 27

5400 - 9SS4FP25XFO6-Z-V
5401 - 9SS4FP25XFO6-Z-AL
5402 - 9SS4FP25XFO6-Z-ETP
5403 - 9SS4FP25XFO6-Ni-V
5404 - 9SS4FP25XFO6-Ni-AL
5405 - 9SS4FP25XFO6-Ni-ETP

5410 - 9SS8FP38XFO8-Z-V
5411 - 9SS8FP38XFO8-Z-AL
5412 - 9SS8FP38XFO8-Z-ETP
5413 - 9SS8FP38XFO8-Ni-V
5414 - 9SS8FP38XFO8-Ni-AL
5415 - 9SS8FP38XFO8-Ni-ETP

5420 - 9SS8FP50XFO8-Z-V
5421 - 9SS8FP50XFO8-Z-AL
5422 - 9SS8FP50XFO8-Z-ETP
5423 - 9SS8FP50XFO8-Ni-V
5424 - 9SS8FP50XFO8-Ni-AL
5425 - 9SS8FP50XFO8-Ni-ETP

5430 - 9SS12FP75XFO12-Z-V
5431 - 9SS12FP75XFO12-Z-AL
5432 - 9SS12FP75XFO12-Z-ETP
5433 - 9SS12FP75XFO12-Ni-V
5434 - 9SS12FP75XFO12-Ni-AL
5435 - 9SS12FP75XFO12-Ni-ETP

5440 - 9SS16FP100XFO16-Z-V
5441 - 9SS16FP100XFO16-Z-AL
5442 - 9SS16FP100XFO16-Z-ETP
5443 - 9SS16FP100XFO16-Ni-V
5444 - 9SS16FP100XFO16-Ni-AL
5445 - 9SS16FP100XFO16-Ni-ETP

5450 - 9SS20FP125XFO20-Z-V
5451 - 9SS20FP125XFO20-Z-AL
5452 - 9SS20FP125XFO20-Z-ETP
5453 - 9SS20FP125XFO20-Ni-V
5454 - 9SS20FP125XFO20-Ni-AL
5455 - 9SS20FP125XFO20-Ni-ETP

90° Male Pipe (N.P.T.F.)
X Female (O.R.B.) PAGE 27

5500 - 9SS4MP25XFO6-Z-V
5501 - 9SS4MP25XFO6-Z-AL
5502 - 9SS4MP25XFO6-Z-ETP
5503 - 9SS4MP25XFO6-Ni-V
5504 - 9SS4MP25XFO6-Ni-AL
5505 - 9SS4MP25XFO6-Ni-ETP

5560 - 9SS4MP38XFO6-Z-V
5561 - 9SS4MP38XFO6-Z-AL
5562 - 9SS4MP38XFO6-Z-ETP
5563 - 9SS4MP38XFO6-Ni-V
5564 - 9SS4MP38XFO6-Ni-AL
5565 - 9SS4MP38XFO6-Ni-ETP

5510 - 9SS8MP38XFO8-Z-V
5511 - 9SS8MP38XFO8-Z-AL
5512 - 9SS8MP38XFO8-Z-ETP
5513 - 9SS8MP38XFO8-Ni-V
5514 - 9SS8MP38XFO8-Ni-AL
5515 - 9SS8MP38XFO8-Ni-ETP

5520 - 9SS8MP50XFO8-Z-V
5521 - 9SS8MP50XFO8-Z-AL
5522 - 9SS8MP50XFO8-Z-ETP
5523 - 9SS8MP50XFO8-Ni-V
5524 - 9SS8MP50XFO8-Ni-AL
5525 - 9SS8MP50XFO8-Ni-ETP

5530 - 9SS12MP75XFO12-Z-V
5531 - 9SS12MP75XFO12-Z-AL
5532 - 9SS12MP75XFO12-Z-ETP
5533 - 9SS12MP75XFO12-Ni-V
5534 - 9SS12MP75XFO12-Ni-AL
5535 - 9SS12MP75XFO12-Ni-ETP

ITEM # - DESCRIPTION

5540 - 9SS16MP100XFO16-Z-V
5541 - 9SS16MP100XFO16-Z-AL
5542 - 9SS16MP100XFO16-Z-ETP
5543 - 9SS16MP100XFO16-Ni-V
5544 - 9SS16MP100XFO16-Ni-AL
5545 - 9SS16MP100XFO16-Ni-ETP

5550 - 9SS20MP125XFO20-Z-V
5551 - 9SS20MP125XFO20-Z-AL
5552 - 9SS20MP125XFO20-Z-ETP
5553 - 9SS20MP125XFO20-Ni-V
5554 - 9SS20MP125XFO20-Ni-AL
5555 - 9SS20MP125XFO20-Ni-ETP

90° Male (J.I.C.)
X Female (O.R.B.) PAGE 28

5260 - 9SS4MJ4XFO6-Z-V
5261 - 9SS4MJ4XFO6-Z-AL
5262 - 9SS4MJ4XFO6-Z-ETP
5263 - 9SS4MJ4XFO6-NI-V
5264 - 9SS4MJ4XFO6-NI-AL
5265 - 9SS4MJ4XFO6-NI-ETP

5200 - 9SS4MJ6XFO6-Z-V
5201 - 9SS4MJ6XFO6-Z-AL
5202 - 9SS4MJ6XFO6-Z-ETP
5203 - 9SS4MJ6XFO6-Ni-V
5204 - 9SS4MJ6XFO6-Ni-AL
5205 - 9SS4MJ6XFO6-Ni-ETP

5210 - 9SS8MJ8XFO8-Z-V
5211 - 9SS8MJ8XFO8-Z-AL
5212 - 9SS8MJ8XFO8-Z-ETP
5213 - 9SS8MJ8XFO8-Ni-V
5214 - 9SS8MJ8XFO8-Ni-AL
5215 - 9SS8MJ8XFO8-Ni-ETP

5220 - 9SS8MJ10XFO8-Z-V
5221 - 9SS8MJ10XFO8-Z-AL
5222 - 9SS8MJ10XFO8-Z-ETP
5223 - 9SS8MJ10XFO8-Ni-V
5224 - 9SS8MJ10XFO8-Ni-AL
5225 - 9SS8MJ10XFO8-Ni-ETP

5230 - 9SS12MJ12XFO12-Z-V
5231 - 9SS12MJ12XFO12-Z-AL
5232 - 9SS12MJ12XFO12-Z-ETP
5233 - 9SS12MJ12XFO12-Ni-V
5234 - 9SS12MJ12XFO12-Ni-AL
5235 - 9SS12MJ12XFO12-Ni-ETP

5240 - 9SS16MJ16XFO16-Z-V
5241 - 9SS16MJ16XFO16-Z-AL
5242 - 9SS16MJ16XFO16-Z-ETP
5243 - 9SS16MJ16XFO16-Ni-V
5244 - 9SS16MJ16XFO16-Ni-AL
5245 - 9SS16MJ16XFO16-Ni-ETP

5250 - 9SS20MJ20XFO20-Z-V
5251 - 9SS20MJ20XFO20-Z-AL
5252 - 9SS20MJ20XFO20-Z-ETP
5253 - 9SS20MJ20XFO20-Ni-V
5254 - 9SS20MJ20XFO20-Ni-AL
5255 - 9SS20MJ20XFO20-Ni-ETP

90° Male Bulkhead (J.I.C.)
X Female (O.R.B.) PAGE 28

5300 - 9SS4MJB6XFO6-Z-V
5301 - 9SS4MJB6XFO6-Z-AL
5302 - 9SS4MJB6XFO6-Z-ETP
5303 - 9SS4MJB6XFO6-NI-V
5304 - 9SS4MJB6XFO6-NI-AL
5305 - 9SS4MJB6XFO6-NI-ETP

5310 - 9SS8MJB8XFO8-Z-V
5311 - 9SS8MJB8XFO8-Z-AL
5312 - 9SS8MJB8XFO8-Z-ETP
5313 - 9SS8MJB8XFO8-Ni-V
5314 - 9SS8MJB8XFO8-Ni-AL
5315 - 9SS8MJB8XFO8-Ni-ETP

5320 - 9SS8MJB10XFO8-Z-V
5321 - 9SS8MJB10XFO8-Z-AL
5322 - 9SS8MJB10XFO8-Z-ETP
5323 - 9SS8MJB10XFO8-Ni-V
5324 - 9SS8MJB10XFO8-Ni-AL
5325 - 9SS8MJB10XFO8-Ni-ETP

ITEM # - DESCRIPTION

5330 - 9SS12MJB12XFO12-Z-V
5331 - 9SS12MJB12XFO12-Z-AL
5332 - 9SS12MJB12XFO12-Z-ETP
5333 - 9SS12MJB12XFO12-Ni-V
5334 - 9SS12MJB12XFO12-Ni-AL
5335 - 9SS12MJB12XFO12-Ni-ETP

5340 - 9SS16MJB16XFO16-Z-V
5341 - 9SS16MJB16XFO16-Z-AL
5342 - 9SS16MJB16XFO16-Z-ETP
5343 - 9SS16MJB16XFO16-Ni-V
5344 - 9SS16MJB16XFO16-Ni-AL
5345 - 9SS16MJB16XFO16-Ni-ETP

5350 - 9SS20MJB20XFO20-Z-V
5351 - 9SS20MJB20XFO20-Z-AL
5352 - 9SS20MJB20XFO20-Z-ETP
5353 - 9SS20MJB20XFO20-Ni-V
5354 - 9SS20MJB20XFO20-Ni-AL
5355 - 9SS20MJB20XFO20-Ni-ETP

90° Female Pipe (N.P.T.F.)
X Pipe Swivel (N.P.S.M.) PAGE 29

6200 - 9SS4FP25XPS25-Z-V
6201 - 9SS4FP25XPS25-Z-AL
6202 - 9SS4FP25XPS25-Z-ETP
6203 - 9SS4FP25XPS25-Ni-V
6204 - 9SS4FP25XPS25-Ni-AL
6205 - 9SS4FP25XPS25-Ni-ETP

6260 - 9SS4FP25XPS38-Z-V
6261 - 9SS4FP25XPS38-Z-AL
6262 - 9SS4FP25XPS38-Z-ETP
6263 - 9SS4FP25XPS38-Ni-V
6264 - 9SS4FP25XPS38-Ni-AL
6265 - 9SS4FP25XPS38-Ni-ETP

6210 - 9SS8FP38XPS38 - Z -V
6211 - 9SS8FP38XPS38 - Z -AL
6212 - 9SS8FP38XPS38 - Z -ETP
6213 - 9SS8FP38XPS38 - Ni-V
6214 - 9SS8FP38XPS38 - Ni-AL
6215 - 9SS8FP38XPS38 - Ni-ETP

6220 - 9SS8FP50XPS50-Z-V
6221 - 9SS8FP50XPS50-Z-AL
6222 - 9SS8FP50XPS50-Z-ETP
6223 - 9SS8FP50XPS50-Ni-V
6224 - 9SS8FP50XPS50-Ni-AL
6225 - 9SS8FP50XPS50-Ni-ETP

6230 - 9SS12FP75XPS75-Z-V
6231 - 9SS12FP75XPS75-Z-AL
6232 - 9SS12FP75XPS75-Z-ETP
6233 - 9SS12FP75XPS75-Ni-V
6234 - 9SS12FP75XPS75-Ni-AL
6235 - 9SS12FP75XPS75-Ni-ETP

6240 - 9SS16FP100XPS100-Z-V
6241 - 9SS16FP100XPS100-Z-AL
6242 - 9SS16FP100XPS100-Z-ETP
6243 - 9SS16FP100XPS100-Ni-V
6244 - 9SS16FP100XPS100-Ni-AL
6245 - 9SS16FP100XPS100-Ni-ETP

6250 - 9SS20FP125XPS125-Z-V
6251 - 9SS20FP125XPS125-Z-AL
6252 - 9SS20FP125XPS125-Z-ETP
6253 - 9SS20FP125XPS125-Ni-V
6254 - 9SS20FP125XPS125-Ni-AL
6255 - 9SS20FP125XPS125-Ni-ETP

6273 - 9SS24FP150XPS150-Ni-V
6274 - 9SS24FP150XPS150-Ni-AL
6275 - 9SS24FP150XPS150-Ni-ETP

90° Male Pipe (N.P.T.F.)
X Pipe Swivel (N.P.S.M.) PAGE 29

6300 - 9SS4MP25XPS25-Z-V
6301 - 9SS4MP25XPS25-Z-AL
6302 - 9SS4MP25XPS25-Z-ETP
6303 - 9SS4MP25XPS25-Ni-V
6304 - 9SS4MP25XPS25-Ni-AL
6305 - 9SS4MP25XPS25-Ni-ETP

ITEM # - DESCRIPTION

6370 - 9SS4MP25XPS38-Z-V
6371 - 9SS4MP25XPS38-Z-AL
6372 - 9SS4MP25XPS38-Z-ETP
6373 - 9SS4MP25XPS38-Ni-V
6374 - 9SS4MP25XPS38-Ni-AL
6375 - 9SS4MP25XPS38-Ni-ETP

6360 - 9SS4MP38XPS25-Z-V
6361 - 9SS4MP38XPS25-Z-AL
6362 - 9SS4MP38XPS25-Z-ETP
6363 - 9SS4MP38XPS25-Ni-V
6364 - 9SS4MP38XPS25-Ni-AL
6365 - 9SS4MP38XPS25-Ni-ETP

6380 - 9SS4MP38XPS38-Z-V
6381 - 9SS4MP38XPS38-Z-AL
6382 - 9SS4MP38XPS38-Z-ETP
6383 - 9SS4MP38XPS38-Ni-V
6384 - 9SS4MP38XPS38-Ni-AL
6385 - 9SS4MP38XPS38-Ni-ETP

6310 - 9SS8MP38XPS38-Z-V
6311 - 9SS8MP38XPS38-Z-AL
6312 - 9SS8MP38XPS38-Z-ETP
6313 - 9SS8MP38XPS38-Ni-V
6314 - 9SS8MP38XPS38-Ni-AL
6315 - 9SS8MP38XPS38-Ni-ETP

6320 - 9SS8MP50XPS50-Z-V
6321 - 9SS8MP50XPS50-Z-AL
6322 - 9SS8MP50XPS50-Z-ETP
6323 - 9SS8MP50XPS50-Ni-V
6324 - 9SS8MP50XPS50-Ni-AL
6325 - 9SS8MP50XPS50-Ni-ETP

6330 - 9SS12MP75XPS75-Z-V
6331 - 9SS12MP75XPS75-Z-AL
6332 - 9SS12MP75XPS75-Z-ETP
6333 - 9SS12MP75XPS75-Ni-V
6334 - 9SS12MP75XPS75-Ni-AL
6335 - 9SS12MP75XPS75-Ni-ETP

6340 - 9SS16MP100XPS100-Z-V
6341 - 9SS16MP100XPS100-Z-AL
6342 - 9SS16MP100XPS100-Z-ETP
6343 - 9SS16MP100XPS100-Ni-V
6344 - 9SS16MP100XPS100-Ni-AL
6345 - 9SS16MP100XPS100-Ni-ETP

6350 - 9SS20MP125XPS125-Z-V
6351 - 9SS20MP125XPS125-Z-AL
6352 - 9SS20MP125XPS125-Z-ETP
6353 - 9SS20MP125XPS125-Ni-V
6354 - 9SS20MP125XPS125-Ni-AL
6355 - 9SS20MP125XPS125-Ni-ETP

6393 - 9SS24MP150XPS150-Ni-V
6394 - 9SS24MP150XPS150-Ni-AL
6395 - 9SS24MP150XPS150-Ni-ETP

90° Male (O.R.B.)
X Pipe Swivel (N.P.S.M.) PAGE 30

6490 - 9SS4MO4XPS25-Z-V
6491 - 9SS4MO4XPS25-Z-AL
6492 - 9SS4MO4XPS25-Z-ETP
6493 - 9SS4MO4XPS25-NI-V
6494 - 9SS4MO4XPS25-NI-AL
6495 - 9SS4MO4XPS25-NI-ETP

6400 - 9SS4MO6XPS25-Z-V
6401 - 9SS4MO6XPS25-Z-AL
6402 - 9SS4MO6XPS25-Z-ETP
6403 - 9SS4MO6XPS25-Ni-V
6404 - 9SS4MO6XPS25-Ni-AL
6405 - 9SS4MO6XPS25-Ni-ETP

6470 - 9SS4MO6XPS38-Z-V
6471 - 9SS4MO6XPS38-Z-AL
6472 - 9SS4MO6XPS38-Z-ETP
6473 - 9SS4MO6XPS38-Ni-V
6474 - 9SS4MO6XPS38-Ni-AL
6475 - 9SS4MO6XPS38-Ni-ETP

6410 - 9SS8MO8XPS38-Z-V
6411 - 9SS8MO8XPS38-Z-AL
6412 - 9SS8MO8XPS38-Z-ETP

ITEM # - DESCRIPTION

6413 - 9SS8MO8XPS38-Ni-V
6414 - 9SS8MO8XPS38-Ni-AL
6415 - 9SS8MO8XPS38-Ni-ETP

6420 - 9SS8MO8XPS50-Z-V
6421 - 9SS8MO8XPS50-Z-AL
6422 - 9SS8MO8XPS50-Z-ETP
6423 - 9SS8MO8XPS50-Ni-V
6424 - 9SS8MO8XPS50-Ni-AL
6425 - 9SS8MO8XPS50-Ni-ETP

6430 - 9SS8MO10XPS50-Z-V
6431 - 9SS8MO10XPS50-Z-AL
6432 - 9SS8MO10XPS50-Z-ETP
6433 - 9SS8MO10XPS50-Ni-V
6434 - 9SS8MO10XPS50-Ni-AL
6435 - 9SS8MO10XPS50-Ni-ETP

6440 - 9SS12MO12XPS75-Z-V
6441 - 9SS12MO12XPS75-Z-AL
6442 - 9SS12MO12XPS75-Z-ETP
6443 - 9SS12MO12XPS75-Ni-V
6444 - 9SS12MO12XPS75-Ni-AL
6445 - 9SS12MO12XPS75-Ni-ETP

6450 - 9SS16MO16XPS100-Z-V
6451 - 9SS16MO16XPS100-Z-AL
6452 - 9SS16MO16XPS100-Z-ETP
6453 - 9SS16MO16XPS100-Ni-V
6454 - 9SS16MO16XPS100-Ni-AL
6455 - 9SS16MO16XPS100-Ni-ETP

6460 - 9SS20MO20XPS125-Z-V
6461 - 9SS20MO20XPS125-Z-AL
6462 - 9SS20MO20XPS125-Z-ETP
6463 - 9SS20MO20XPS125-Ni-V
6464 - 9SS20MO20XPS125-Ni-AL
6465 - 9SS20MO20XPS125-Ni-ETP

6483 - 9SS24MO24XPS150-Ni-V
6484 - 9SS24MO24XPS150-Ni-AL
6485 - 9SS24MO24XPS150-Ni-ETP

90° Male (J.I.C.)
X Pipe Swivel (N.P.S.M.) PAGE 30

6590 - 9SS4MJ4XPS25-Z-V
6591 - 9SS4MJ4XPS25-Z-AL
6592 - 9SS4MJ4XPS25-Z-ETP
6593 - 9SS4MJ4XPS25-NI-V
6594 - 9SS4MJ4XPS25-NI-AL
6595 - 9SS4MJ4XPS25-NI-ETP

6500 - 9SS4MJ6XPS25-Z-V
6501 - 9SS4MJ6XPS25-Z-AL
6502 - 9SS4MJ6XPS25-Z-ETP
6503 - 9SS4MJ6XPS25-Ni-V
6504 - 9SS4MJ6XPS25-Ni-AL
6505 - 9SS4MJ6XPS25-Ni-ETP

6570 - 9SS4MJ6XPS38-Z-V
6571 - 9SS4MJ6XPS38-Z-AL
6572 - 9SS4MJ6XPS38-Z-ETP
6573 - 9SS4MJ6XPS38-Ni-V
6574 - 9SS4MJ6XPS38-Ni-AL
6575 - 9SS4MJ6XPS38-Ni-ETP

6510 - 9SS8MJ8XPS38-Z-V
6511 - 9SS8MJ8XPS38-Z-AL
6512 - 9SS8MJ8XPS38-Z-ETP
6513 - 9SS8MJ8XPS38-Ni-V
6514 - 9SS8MJ8XPS38-Ni-AL
6515 - 9SS8MJ8XPS38-Ni-ETP

6520 - 9SS8MJ8XPS50-Z-V
6521 - 9SS8MJ8XPS50-Z-AL
6522 - 9SS8MJ8XPS50-Z-ETP
6523 - 9SS8MJ8XPS50-Ni-V
6524 - 9SS8MJ8XPS50-Ni-AL
6525 - 9SS8MJ8XPS50-Ni-ETP

(V) = Viton
(AL) = Aflas
(ETP) = Extreme Viton

ITEM # - DESCRIPTION

6530 - 9SS8MJ10XPS50-Z-V
6531 - 9SS8MJ10XPS50-Z-AL
6532 - 9SS8MJ10XPS50-Z-ETP
6533 - 9SS8MJ10XPS50-Ni-V
6534 - 9SS8MJ10XPS50-Ni-AL
6535 - 9SS8MJ10XPS50-Ni-ETP

6540 - 9SS12MJ12XPS75-Z-V
6541 - 9SS12MJ12XPS75-Z-AL
6542 - 9SS12MJ12XPS75-Z-ETP
6543 - 9SS12MJ12XPS75-Ni-V
6544 - 9SS12MJ12XPS75-Ni-AL
6545 - 9SS12MJ12XPS75-Ni-ETP

6550 - 9SS16MJ16XPS100-Z-V
6551 - 9SS16MJ16XPS100-Z-AL
6552 - 9SS16MJ16XPS100-Z-ETP
6553 - 9SS16MJ16XPS100-Ni-V
6554 - 9SS16MJ16XPS100-Ni-AL
6555 - 9SS16MJ16XPS100-Ni-ETP

6560 - 9SS20MJ20XPS125-Z-V
6561 - 9SS20MJ20XPS125-Z-AL
6562 - 9SS20MJ20XPS125-Z-ETP
6563 - 9SS20MJ20XPS125-Ni-V
6564 - 9SS20MJ20XPS125-Ni-AL
6565 - 9SS20MJ20XPS125-Ni-ETP

6583 - 9SS24MJ24XPS150-Ni-V
6584 - 9SS24MJ24XPS150-Ni-AL
6585 - 9SS24MJ24XPS150-Ni-ETP

90° Male Bulkhead (J.I.C.) X Pipe Swivel (N.P.S.M.) PAGE 31

6600 - 9SS4MJB6XPS25-Z-V
6601 - 9SS4MJB6XPS25 – Z-AL
6602 - 9SS4MJB6XPS25 – Z-ETP
6603 - 9SS4MJB6XPS25-NI-V
6604 - 9SS4MJB6XPS25-NI-AL
6605 - 9SS4MJB6XPS25-NI-ETP

6610 - 9SS8MJB8XPS38-Z-V
6611 - 9SS8MJB8XPS38-Z-AL
6612 - 9SS8MJB8XPS38-Z-ETP
6613 - 9SS8MJB8XPS38-Ni-V
6614 - 9SS8MJB8XPS38-Ni-AL
6615 - 9SS8MJB8XPS38-Ni-ETP

6620 - 9SS8MJB8XPS50-Z-V
6621 - 9SS8MJB8XPS50-Z-AL
6622 - 9SS8MJB8XPS50-Z-ETP
6623 - 9SS8MJB8XPS50-Ni-V
6624 - 9SS8MJB8XPS50-Ni-AL
6625 - 9SS8MJB8XPS50-Ni-ETP

6630 - 9SS8MJB10XPS50-Z-V
6631 - 9SS8MJB10XPS50-Z-AL
6632 - 9SS8MJB10XPS50-Z-ETP
6633 - 9SS8MJB10XPS50-Ni-V
6634 - 9SS8MJB10XPS50-Ni-AL
6635 - 9SS8MJB10XPS50-Ni-ETP

6640 - 9SS12MJB12XPS75-Z-V
6641 - 9SS12MJB12XPS75-Z-AL
6642 - 9SS12MJB12XPS75-Z-ETP
6643 - 9SS12MJB12XPS75-Ni-V
6644 - 9SS12MJB12XPS75-Ni-AL
6645 - 9SS12MJB12XPS75-Ni-ETP

6650 - 9SS16MJB16XPS100-Z-V
6651 - 9SS16MJB16XPS100-Z-AL
6652 - 9SS16MJB16XPS100-Z-ETP
6653 - 9SS16MJB16XPS100-Ni-V
6654 - 9SS16MJB16XPS100-Ni-AL
6655 - 9SS16MJB16XPS100-Ni-ETP

6660 - 9SS20MJB20XPS125-Z-V
6661 - 9SS20MJB20XPS125-Z-AL
6662 - 9SS20MJB20XPS125-Z-ETP
6663 - 9SS20MJB20XPS125-Ni-V
6664 - 9SS20MJB20XPS125-Ni-AL
6665 - 9SS20MJB20XPS125-Ni-ETP

ITEM # - DESCRIPTION

90° Female Pipe (N.P.T.F.) X Male (J.I.C.) PAGE 31

6780 - 9SS4FP25XMJ4-Z-V
6781 - 9SS4FP25XMJ4-Z-AL
6782 - 9SS4FP25XMJ4-Z-ETP
6783 - 9SS4FP25XMJ4-NI-V
6784 - 9SS4FP25XMJ4-NI-AL
6785 - 9SS4FP25XMJ4-NI-ETP

6700 - 9SS4FP25XMJ6-Z-V
6701 - 9SS4FP25XMJ6-Z-AL
6702 - 9SS4FP25XMJ6-Z-ETP
6703 - 9SS4FP25XMJ6-Ni-V
6704 - 9SS4FP25XMJ6-Ni-AL
6705 - 9SS4FP25XMJ6-Ni-ETP

6790 - 9SS8FP38XMJ6-Z-V
6791 - 9SS8FP38XMJ6-Z-AL
6792 - 9SS8FP38XMJ6-Z-ETP
6793 - 9SS8FP38XMJ6-NI-V
6794 - 9SS8FP38XMJ6-NI-AL
6795 - 9SS8FP38XMJ6-NI-ETP

6710 - 9SS8FP38XMJ8-Z-V
6711 - 9SS8FP38XMJ8-Z-AL
6712 - 9SS8FP38XMJ8-Z-ETP
6713 - 9SS8FP38XMJ8-Ni-V
6714 - 9SS8FP38XMJ8-Ni-AL
6715 - 9SS8FP38XMJ8-Ni-ETP

6720 - 9SS8FP50XMJ8-Z-V
6721 - 9SS8FP50XMJ8-Z-AL
6722 - 9SS8FP50XMJ8-Z-ETP
6723 - 9SS8FP50XMJ8-Ni-V
6724 - 9SS8FP50XMJ8-Ni-AL
6725 - 9SS8FP50XMJ8-Ni-ETP

6730 - 9SS8FP50XMJ10-Z-V
6731 - 9SS8FP50XMJ10-Z-AL
6732 - 9SS8FP50XMJ10-Z-ETP
6733 - 9SS8FP50XMJ10-Ni-V
6734 - 9SS8FP50XMJ10-Ni-AL
6735 - 9SS8FP50XMJ10-Ni-ETP

6740 - 9SS12FP75XMJ12-Z-V
6741 - 9SS12FP75XMJ12-Z-AL
6742 - 9SS12FP75XMJ12-Z-ETP
6743 - 9SS12FP75XMJ12-Ni-V
6744 - 9SS12FP75XMJ12-Ni-AL
6745 - 9SS12FP75XMJ12-Ni-ETP

6750 - 9SS16FP100XMJ16-Z-V
6751 - 9SS16FP100XMJ16-Z-AL
6752 - 9SS16FP100XMJ16-Z-ETP
6753 - 9SS16FP100XMJ16-Ni-V
6754 - 9SS16FP100XMJ16-Ni-AL
6755 - 9SS16FP100XMJ16-Ni-ETP

6760 - 9SS20FP125XMJ20-Z-V
6761 - 9SS20FP125XMJ20-Z-AL
6762 - 9SS20FP125XMJ20-Z-ETP
6763 - 9SS20FP125XMJ20-Ni-V
6764 - 9SS20FP125XMJ20-Ni-AL
6765 - 9SS20FP125XMJ20-Ni-ETP

6773 - 9SS24FP150XMJ24-Ni-V
6774 - 9SS24FP150XMJ24-Ni-AL
6775 - 9SS24FP150XMJ24-Ni-ETP

90° Male Pipe (N.P.T.F.) X Male (J.I.C.) PAGE 32

6890 - 9SS4MP25XMJ4-Z-V
6891 - 9SS4MP25XMJ4-Z-AL
6892 - 9SS4MP25XMJ4-Z-ETP
6893 - 9SS4MP25XMJ4-NI-V
6894 - 9SS4MP25XMJ4-NI-AL
6895 - 9SS4MP25XMJ4-NI-ETP

6800 - 9SS4MP25XMJ6-Z-V
6801 - 9SS4MP25XMJ6-Z-AL
6802 - 9SS4MP25XMJ6-Z-ETP
6803 - 9SS4MP25XMJ6-Ni-V
6804 - 9SS4MP25XMJ6-Ni-AL
6805 - 9SS4MP25XMJ6-Ni-ETP

ITEM # - DESCRIPTION

6870 - 9SS4MP38XMJ6-Z-V
6871 - 9SS4MP38XMJ6-Z-AL
6872 - 9SS4MP38XMJ6-Z-ETP
6873 - 9SS4MP38XMJ6-Ni-V
6874 - 9SS4MP38XMJ6-Ni-AL
6875 - 9SS4MP38XMJ6-Ni-ETP

6810 - 9SS8MP38XMJ8-Z-V
6811 - 9SS8MP38XMJ8-Z-AL
6812 - 9SS8MP38XMJ8-Z-ETP
6813 - 9SS8MP38XMJ8-Ni-V
6814 - 9SS8MP38XMJ8-Ni-AL
6815 - 9SS8MP38XMJ8-Ni-ETP

6820 - 9SS8MP50XMJ8-Z-V
6821 - 9SS8MP50XMJ8-Z-AL
6822 - 9SS8MP50XMJ8-Z-ETP
6823 - 9SS8MP50XMJ8-Ni-V
6824 - 9SS8MP50XMJ8-Ni-AL
6825 - 9SS8MP50XMJ8-Ni-ETP

6830 - 9SS8MP50XMJ10-Z-V
6831 - 9SS8MP50XMJ10-Z-AL
6832 - 9SS8MP50XMJ10-Z-ETP
6833 - 9SS8MP50XMJ10-Ni-V
6834 - 9SS8MP50XMJ10-Ni-AL
6835 - 9SS8MP50XMJ10-Ni-ETP

6840 - 9SS12MP75XMJ12-Z-V
6841 - 9SS12MP75XMJ12-Z-AL
6842 - 9SS12MP75XMJ12-Z-ETP
6843 - 9SS12MP75XMJ12-Ni-V
6844 - 9SS12MP75XMJ12-Ni-AL
6845 - 9SS12MP75XMJ12-Ni-ETP

6850 - 9SS16MP100XMJ16-Z-V
6851 - 9SS16MP100XMJ16-Z-AL
6852 - 9SS16MP100XMJ16-Z-ETP
6853 - 9SS16MP100XMJ16-Ni-V
6854 - 9SS16MP100XMJ16-Ni-AL
6855 - 9SS16MP100XMJ16-Ni-ETP

6860 - 9SS20MP125XMJ20-Z-V
6861 - 9SS20MP125XMJ20-Z-AL
6862 - 9SS20MP125XMJ20-Z-ETP
6863 - 9SS20MP125XMJ20-Ni-V
6864 - 9SS20MP125XMJ20-Ni-AL
6865 - 9SS20MP125XMJ20-Ni-ETP

6883 - 9SS24MP150XMJ24-Ni-V
6884 - 9SS24MP150XMJ24-Ni-AL
6885 - 9SS24MP150XMJ24-Ni-ETP

90° Male (O.R.B.) X Male (J.I.C.) PAGE 32

6970 - 9SS4MO4XMJ4-Z-V
6971 - 9SS4MO4XMJ4-Z-AL
6972 - 9SS4MO4XMJ4-Z-ETP
6973 - 9SS4MO4XMJ4-NI-V
6974 - 9SS4MO4XMJ4-NI-AL
6975 - 9SS4MO4XMJ4-NI-ETP

6900 - 9SS4MO6XMJ6-Z-V
6901 - 9SS4MO6XMJ6-Z-AL
6902 - 9SS4MO6XMJ6-Z-ETP
6903 - 9SS4MO6XMJ6-Ni-V
6904 - 9SS4MO6XMJ6-Ni-AL
6905 - 9SS4MO6XMJ6-Ni-ETP

6910 - 9SS8MO8XMJ8-Z-V
6911 - 9SS8MO8XMJ8-Z-AL
6912 - 9SS8MO8XMJ8-Z-ETP
6913 - 9SS8MO8XMJ8-Ni-V
6914 - 9SS8MO8XMJ8-Ni-AL
6915 - 9SS8MO8XMJ8-Ni-ETP

6920 - 9SS8MO10XMJ10-Z-V
6921 - 9SS8MO10XMJ10-Z-AL
6922 - 9SS8MO10XMJ10-Z-ETP
6923 - 9SS8MO10XMJ10-Ni-V
6924 - 9SS8MO10XMJ10-Ni-AL
6925 - 9SS8MO10XMJ10-Ni-ETP

ITEM # - DESCRIPTION

6930 - 9SS12MO12XMJ12-Z-V
6931 - 9SS12MO12XMJ12-Z-AL
6932 - 9SS12MO12XMJ12-Z-ETP
6933 - 9SS12MO12XMJ12-Ni-V
6934 - 9SS12MO12XMJ12-Ni-AL
6935 - 9SS12MO12XMJ12-Ni-ETP

6940 - 9SS16MO16XMJ16-Z-V
6941 - 9SS16MO16XMJ16-Z-AL
6942 - 9SS16MO16XMJ16-Z-ETP
6943 - 9SS16MO16XMJ16-Ni-V
6944 - 9SS16MO16XMJ16-Ni-AL
6945 - 9SS16MO16XMJ16-Ni-ETP

6950 - 9SS20MO20XMJ20-Z-V
6951 - 9SS20MO20XMJ20-Z-AL
6952 - 9SS20MO20XMJ20-Z-ETP
6953 - 9SS20MO20XMJ20-Ni-V
6954 - 9SS20MO20XMJ20-Ni-AL
6955 - 9SS20MO20XMJ20-Ni-ETP

6963 - 9SS24MO24XMJ24-Ni-V
6964 - 9SS24MO24XMJ24-Ni-AL
6965 - 9SS24MO24XMJ24-Ni-ETP

90° Male (J.I.C.) X Male (J.I.C.) PAGE 33

7070 - 9SS4MJ4XMJ4-Z-V
7071 - 9SS4MJ4XMJ4-Z-AL
7072 - 9SS4MJ4XMJ4-Z-ETP
7073 - 9SS4MJ4XMJ4-NI-V
7074 - 9SS4MJ4XMJ4-NI-AL
7075 - 9SS4MJ4XMJ4-NI-ETP

7000 - 9SS4MJ6XMJ6-Z-V
7001 - 9SS4MJ6XMJ6-Z-AL
7002 - 9SS4MJ6XMJ6-Z-ETP
7003 - 9SS4MJ6XMJ6-Ni-V
7004 - 9SS4MJ6XMJ6-Ni-AL
7005 - 9SS4MJ6XMJ6-Ni-ETP

7010 - 9SS8MJ8XMJ8-Z-V
7011 - 9SS8MJ8XMJ8-Z-AL
7012 - 9SS8MJ8XMJ8-Z-ETP
7013 - 9SS8MJ8XMJ8-Ni-V
7014 - 9SS8MJ8XMJ8-Ni-AL
7015 - 9SS8MJ8XMJ8-Ni-ETP

7020 - 9SS8MJ10XMJ10-Z-V
7021 - 9SS8MJ10XMJ10-Z-AL
7022 - 9SS8MJ10XMJ10-Z-ETP
7023 - 9SS8MJ10XMJ10-Ni-V
7024 - 9SS8MJ10XMJ10-Ni-AL
7025 - 9SS8MJ10XMJ10-Ni-ETP

7030 - 9SS12MJ12XMJ12-Z-V
7031 - 9SS12MJ12XMJ12-Z-AL
7032 - 9SS12MJ12XMJ12-Z-ETP
7033 - 9SS12MJ12XMJ12-Ni-V
7034 - 9SS12MJ12XMJ12-Ni-AL
7035 - 9SS12MJ12XMJ12-Ni-ETP

7040 - 9SS16MJ16XMJ16-Z-V
7041 - 9SS16MJ16XMJ16-Z-AL
7042 - 9SS16MJ16XMJ16-Z-ETP
7043 - 9SS16MJ16XMJ16-Ni-V
7044 - 9SS16MJ16XMJ16-Ni-AL
7045 - 9SS16MJ16XMJ16-Ni-ETP

7050 - 9SS20MJ20XMJ20-Z-V
7051 - 9SS20MJ20XMJ20-Z-AL
7052 - 9SS20MJ20XMJ20-Z-ETP
7053 - 9SS20MJ20XMJ20-Ni-V
7054 - 9SS20MJ20XMJ20-Ni-AL
7055 - 9SS20MJ20XMJ20-Ni-ETP

7063 - 9SS24MJ24XMJ24-Ni-V
7064 - 9SS24MJ24XMJ24-Ni-AL
7065 - 9SS24MJ24XMJ24-Ni-ETP

(V) = Viton
(AL) = Aflas
(ETP) = Extreme Viton

ITEM # - DESCRIPTION

90° Male Bulkhead (J.I.C.) X Male (J.I.C.) PAGE 33

8010 - 9SS8MJB8XMJ8-Z-V
8011 - 9SS8MJB8XMJ8-Z-AL
8012 - 9SS8MJB8XMJ8-Z-ETP
8013 - 9SS8MJB8XMJ8-Ni-V
8014 - 9SS8MJB8XMJ8-Ni-AL
8015 - 9SS8MJB8XMJ8-Ni-ETP

8020 - 9SS8MJB10XMJ10-Z-V
8021 - 9SS8MJB10XMJ10-Z-AL
8022 - 9SS8MJB10XMJ10-Z-ETP
8023 - 9SS8MJB10XMJ10-Ni-V
8024 - 9SS8MJB10XMJ10-Ni-AL
8025 - 9SS8MJB10XMJ10-Ni-ETP

8030 - 9SS12MJB12XMJ12-Z-V
8031 - 9SS12MJB12XMJ12-Z-AL
8032 - 9SS12MJB12XMJ12-Z-ETP
8033 - 9SS12MJB12XMJ12-Ni-V
8034 - 9SS12MJB12XMJ12-Ni-AL
8035 - 9SS12MJB12XMJ12-Ni-ETP

8040 - 9SS16MJB16XMJ16-Z-V
8041 - 9SS16MJB16XMJ16-Z-AL
8042 - 9SS16MJB16XMJ16-Z-ETP
8043 - 9SS16MJB16XMJ16-Ni-V
8044 - 9SS16MJB16XMJ16-Ni-AL
8045 - 9SS16MJB16XMJ16-Ni-ETP

8050 - 9SS20MJB20XMJ20-Z-V
8051 - 9SS20MJB20XMJ20-Z-AL
8052 - 9SS20MJB20XMJ20-Z-ETP
8053 - 9SS20MJB20XMJ20-Ni-V
8054 - 9SS20MJB20XMJ20-Ni-AL
8055 - 9SS20MJB20XMJ20-Ni-ETP

90° Female Pipe (N.P.T.F.) X Male Pipe (N.P.T.F.) PAGE 34

7100 - 9SS4FP25XMP25-Z-V
7101 - 9SS4FP25XMP25-Z-AL
7102 - 9SS4FP25XMP25-Z-ETP
7103 - 9SS4FP25XMP25-Ni-V
7104 - 9SS4FP25XMP25-Ni-AL
7105 - 9SS4FP25XMP25-Ni-ETP

7110 - 9SS8FP38XMP38-Z-V
7111 - 9SS8FP38XMP38-Z-AL
7112 - 9SS8FP38XMP38-Z-ETP
7113 - 9SS8FP38XMP38-Ni-V
7114 - 9SS8FP38XMP38-Ni-AL
7115 - 9SS8FP38XMP38-Ni-ETP

7120 - 9SS8FP38XMP50-Z-V
7121 - 9SS8FP38XMP50-Z-AL
7122 - 9SS8FP38XMP50-Z-ETP
7123 - 9SS8FP38XMP50-Ni-V
7124 - 9SS8FP38XMP50-Ni-AL
7125 - 9SS8FP38XMP50-Ni-ETP

7130 - 9SS8FP50XMP38-Z-V
7131 - 9SS8FP50XMP38-Z-AL
7132 - 9SS8FP50XMP38-Z-ETP
7133 - 9SS8FP50XMP38-Ni-V
7134 - 9SS8FP50XMP38-Ni-AL
7135 - 9SS8FP50XMP38-Ni-ETP

7140 - 9SS8FP50XMP50-Z-V
7141 - 9SS8FP50XMP50-Z-AL
7142 - 9SS8FP50XMP50-Z-ETP
7143 - 9SS8FP50XMP50-Ni-V
7144 - 9SS8FP50XMP50-Ni-AL
7145 - 9SS8FP50XMP50-Ni-ETP

7150 - 9SS12FP75XMP75-Z-V
7151 - 9SS12FP75XMP75-Z-AL
7152 - 9SS12FP75XMP75-Z-ETP
7153 - 9SS12FP75XMP75-Ni-V
7154 - 9SS12FP75XMP75-Ni-AL
7155 - 9SS12FP75XMP75-Ni-ETP

7160 - 9SS16FP100XMP100-Z-V
7161 - 9SS16FP100XMP100-Z-AL
7162 - 9SS16FP100XMP100-Z-ETP
7163 - 9SS16FP100XMP100-Ni-V
7164 - 9SS16FP100XMP100-Ni-AL
7165 - 9SS16FP100XMP100-Ni-ETP

ITEM # - DESCRIPTION

7170 - 9SS20FP125XMP125-Z-V
7171 - 9SS20FP125XMP125-Z-AL
7172 - 9SS20FP125XMP125-Z-ETP
7173 - 9SS20FP125XMP125-Ni-V
7174 - 9SS20FP125XMP125-Ni-AL
7175 - 9SS20FP125XMP125-Ni-ETP

7183 - 9SS24FP150XMP150-Ni-V
7184 - 9SS24FP150XMP150-Ni-AL
7185 - 9SS24FP150XMP150-Ni-ETP

90° Male Pipe (N.P.T.F.) X Male Pipe (N.P.T.F.) PAGE 34

7200 - 9SS4MP25XMP25-Z-V
7201 - 9SS4MP25XMP25-Z-AL
7202 - 9SS4MP25XMP25-Z-ETP
7203 - 9SS4MP25XMP25-Ni-V
7204 - 9SS4MP25XMP25-Ni-AL
7205 - 9SS4MP25XMP25-Ni-ETP

7290 - 9SS4MP38XMP38-Z-V
7291 - 9SS4MP38XMP38-Z-AL
7292 - 9SS4MP38XMP38-Z-ETP
7293 - 9SS4MP38XMP38-Ni-V
7294 - 9SS4MP38XMP38-Ni-AL
7295 - 9SS4MP38XMP38-Ni-ETP

7210 - 9SS8MP38XMP38-Z-V
7211 - 9SS8MP38XMP38-Z-AL
7212 - 9SS8MP38XMP38-Z-ETP
7213 - 9SS8MP38XMP38-Ni-V
7214 - 9SS8MP38XMP38-Ni-AL
7215 - 9SS8MP38XMP38-Ni-ETP

7220 - 9SS8MP38XMP50-Z-V
7221 - 9SS8MP38XMP50-Z-AL
7222 - 9SS8MP38XMP50-Z-ETP
7223 - 9SS8MP38XMP50-Ni-V
7224 - 9SS8MP38XMP50-Ni-AL
7225 - 9SS8MP38XMP50-Ni-ETP

7230 - 9SS8MP50XMP38-Z-V
7231 - 9SS8MP50XMP38-Z-AL
7232 - 9SS8MP50XMP38-Z-ETP
7233 - 9SS8MP50XMP38-Ni-V
7234 - 9SS8MP50XMP38-Ni-AL
7235 - 9SS8MP50XMP38-Ni-ETP

7240 - 9SS8MP50XMP50-Z-V
7241 - 9SS8MP50XMP50-Z-AL
7242 - 9SS8MP50XMP50-Z-ETP
7243 - 9SS8MP50XMP50-Ni-V
7244 - 9SS8MP50XMP50-Ni-AL
7245 - 9SS8MP50XMP50-Ni-ETP

7250 - 9SS12MP75XMP75-Z-V
7251 - 9SS12MP75XMP75-Z-AL
7252 - 9SS12MP75XMP75-Z-ETP
7253 - 9SS12MP75XMP75-Ni-V
7254 - 9SS12MP75XMP75-Ni-AL
7255 - 9SS12MP75XMP75-Ni-ETP

7260 - 9SS16MP100XMP100-Z-V
7261 - 9SS16MP100XMP100-Z-AL
7262 - 9SS16MP100XMP100-Z-ETP
7263 - 9SS16MP100XMP100-Ni-V
7264 - 9SS16MP100XMP100-Ni-AL
7265 - 9SS16MP100XMP100-Ni-ETP

7270 - 9SS20MP125XMP125-Z-V
7271 - 9SS20MP125XMP125-Z-AL
7272 - 9SS20MP125XMP125-Z-ETP
7273 - 9SS20MP125XMP125-Ni-V
7274 - 9SS20MP125XMP125-Ni-AL
7275 - 9SS20MP125XMP125-Ni-ETP

7283 - 9SS24MP150XMP150-Ni-V
7284 - 9SS24MP150XMP150-Ni-AL
7285 - 9SS24MP150XMP150-Ni-ETP

90° Male (O.R.B.) X Male Pipe (N.P.T.F.) PAGE 35

21034 - 9SS4MO4XMP25-Z-V
7300 - 9SS4MO6XMP25-Z-V
7301 - 9SS4MO6XMP25-Z-AL
7302 - 9SS4MO6XMP25-Z-ETP

ITEM # - DESCRIPTION

7303 - 9SS4MO6XMP25-Ni-V
7304 - 9SS4MO6XMP25-Ni-AL
7305 - 9SS4MO6XMP25-Ni-ETP

7390 - 9SS4MO6XMP38-Z-V
7391 - 9SS4MO6XMP38-Z-AL
7392 - 9SS4MO6XMP38-Z-ETP
7393 - 9SS4MO6XMP38-Ni-V
7394 - 9SS4MO6XMP38-Ni-AL
7395 - 9SS4MO6XMP38-Ni-ETP

7310 - 9SS8MO8XMP38-Z-V
7311 - 9SS8MO8XMP38-Z-AL
7312 - 9SS8MO8XMP38-Z-ETP
7313 - 9SS8MO8XMP38-Ni-V
7314 - 9SS8MO8XMP38-Ni-AL
7315 - 9SS8MO8XMP38-Ni-ETP

7320 - 9SS8MO8XMP50-Z-V
7321 - 9SS8MO8XMP50-Z-AL
7322 - 9SS8MO8XMP50-Z-ETP
7323 - 9SS8MO8XMP50-Ni-V
7324 - 9SS8MO8XMP50-Ni-AL
7325 - 9SS8MO8XMP50-Ni-ETP

7330 - 9SS8MO10XMP38-Z-V
7331 - 9SS8MO10XMP38-Z-AL
7332 - 9SS8MO10XMP38-Z-ETP
7333 - 9SS8MO10XMP38-Ni-V
7334 - 9SS8MO10XMP38-Ni-AL
7335 - 9SS8MO10XMP38-Ni-ETP

7340 - 9SS8MO10XMP50-Z-V
7341 - 9SS8MO10XMP50-Z-AL
7342 - 9SS8MO10XMP50-Z-ETP
7343 - 9SS8MO10XMP50-Ni-V
7344 - 9SS8MO10XMP50-Ni-AL
7345 - 9SS8MO10XMP50-Ni-ETP

7350 - 9SS12MO12XMP75-Z-V
7351 - 9SS12MO12XMP75-Z-AL
7352 - 9SS12MO12XMP75-Z-ETP
7353 - 9SS12MO12XMP75-Ni-V
7354 - 9SS12MO12XMP75-Ni-AL
7355 - 9SS12MO12XMP75-Ni-ETP

7360 - 9SS16MO16XMP100-Z-V
7361 - 9SS16MO16XMP100-Z-AL
7362 - 9SS16MO16XMP100-Z-ETP
7363 - 9SS16MO16XMP100-Ni-V
7364 - 9SS16MO16XMP100-Ni-AL
7365 - 9SS16MO16XMP100-Ni-ETP

7370 - 9SS20MO20XMP125-Z-V
7371 - 9SS20MO20XMP125-Z-AL
7372 - 9SS20MO20XMP125-Z-ETP
7373 - 9SS20MO20XMP125-Ni-V
7374 - 9SS20MO20XMP125-Ni-AL
7375 - 9SS20MO20XMP125-Ni-ETP

7383 - 9SS24MO24XMP150-Ni-V
7384 - 9SS24MO24XMP150-Ni-AL
7385 - 9SS24MO24XMP150-Ni-ETP

90° Male (J.I.C.) X Male Pipe (N.P.T.F.) PAGE 35

21057 - 9SS4MJ4XMP25-Z-V
7400 - 9SS4MJ6XMP25-Z-V
7401 - 9SS4MJ6XMP25-Z-AL
7402 - 9SS4MJ6XMP25-Z-ETP
7403 - 9SS4MJ6XMP25-Ni-V
7404 - 9SS4MJ6XMP25-Ni-AL
7405 - 9SS4MJ6XMP25-Ni-ETP

7490 - 9SS4MJ6XMP38-Z-V
7491 - 9SS4MJ6XMP38-Z-AL
7492 - 9SS4MJ6XMP38-Z-ETP
7493 - 9SS4MJ6XMP38-Ni-V
7494 - 9SS4MJ6XMP38-Ni-AL
7495 - 9SS4MJ6XMP38-Ni-ETP

7410 - 9SS8MJ8XMP38-Z-V
7411 - 9SS8MJ8XMP38-Z-AL
7412 - 9SS8MJ8XMP38-Z-ETP
7413 - 9SS8MJ8XMP38-Ni-V
7414 - 9SS8MJ8XMP38-Ni-AL
7415 - 9SS8MJ8XMP38-Ni-ETP

ITEM # - DESCRIPTION

7420 - 9SS8MJ8XMP50-Z-V
7421 - 9SS8MJ8XMP50-Z-AL
7422 - 9SS8MJ8XMP50-Z-ETP
7423 - 9SS8MJ8XMP50-Ni-V
7424 - 9SS8MJ8XMP50-Ni-AL
7425 - 9SS8MJ8XMP50-Ni-ETP

7430 - 9SS8MJ10XMP38-Z-V
7431 - 9SS8MJ10XMP38-Z-AL
7432 - 9SS8MJ10XMP38-Z-ETP
7433 - 9SS8MJ10XMP38-Ni-V
7434 - 9SS8MJ10XMP38-Ni-AL
7435 - 9SS8MJ10XMP38-Ni-ETP

7440 - 9SS8MJ10XMP50-Z-V
7441 - 9SS8MJ10XMP50-Z-AL
7442 - 9SS8MJ10XMP50-Z-ETP
7443 - 9SS8MJ10XMP50-Ni-V
7444 - 9SS8MJ10XMP50-Ni-AL
7445 - 9SS8MJ10XMP50-Ni-ETP

7450 - 9SS12MJ12XMP75-Z-V
7451 - 9SS12MJ12XMP75-Z-AL
7452 - 9SS12MJ12XMP75-Z-ETP
7453 - 9SS12MJ12XMP75-Ni-V
7454 - 9SS12MJ12XMP75-Ni-AL
7455 - 9SS12MJ12XMP75-Ni-ETP

7460 - 9SS16MJ16XMP100-Z-V
7461 - 9SS16MJ16XMP100-Z-AL
7462 - 9SS16MJ16XMP100-Z-ETP
7463 - 9SS16MJ16XMP100-Ni-V
7464 - 9SS16MJ16XMP100-Ni-AL
7465 - 9SS16MJ16XMP100-Ni-ETP

7470 - 9SS20MJ20XMP125-Z-V
7471 - 9SS20MJ20XMP125-Z-AL
7472 - 9SS20MJ20XMP125-Z-ETP
7473 - 9SS20MJ20XMP125-Ni-V
7474 - 9SS20MJ20XMP125-Ni-AL
7475 - 9SS20MJ20XMP125-Ni-ETP

7483 - 9SS24MJ24XMP150-Ni-V
7484 - 9SS24MJ24XMP150-Ni-AL
7485 - 9SS24MJ24XMP150-Ni-ETP

90° Male Bulkhead (J.I.C.) X Male Pipe (N.P.T.F.) PAGE 36

7500 - 9SS8MJB8XMP38-Z-V
7501 - 9SS8MJB8XMP38-Z-AL
7502 - 9SS8MJB8XMP38-Z-ETP
7503 - 9SS8MJB8XMP38-Ni-V
7504 - 9SS8MJB8XMP38-Ni-AL
7505 - 9SS8MJB8XMP38-Ni-ETP

7510 - 9SS8MJB8XMP50-Z-V
7511 - 9SS8MJB8XMP50-Z-AL
7512 - 9SS8MJB8XMP50-Z-ETP
7513 - 9SS8MJB8XMP50-Ni-V
7514 - 9SS8MJB8XMP50-Ni-AL
7515 - 9SS8MJB8XMP50-Ni-ETP

7520 - 9SS8MJB10XMP50-Z-V
7521 - 9SS8MJB10XMP50-Z-AL
7522 - 9SS8MJB10XMP50-Z-ETP
7523 - 9SS8MJB10XMP50-Ni-V
7524 - 9SS8MJB10XMP50-Ni-AL
7525 - 9SS8MJB10XMP50-Ni-ETP

7530 - 9SS12MJB12XMP75-Z-V
7531 - 9SS12MJB12XMP75-Z-AL
7532 - 9SS12MJB12XMP75-Z-ETP
7533 - 9SS12MJB12XMP75-Ni-V
7534 - 9SS12MJB12XMP75-Ni-AL
7535 - 9SS12MJB12XMP75-Ni-ETP

7540 - 9SS16MJB16XMP100-Z-V
7541 - 9SS16MJB16XMP100-Z-AL
7542 - 9SS16MJB16XMP100-Z-ETP
7543 - 9SS16MJB16XMP100-Ni-V
7544 - 9SS16MJB16XMP100-Ni-AL
7545 - 9SS16MJB16XMP100-Ni-ETP

7550 - 9SS20MJB20XMP125-Z-V
7551 - 9SS20MJB20XMP125-Z-AL
7552 - 9SS20MJB20XMP125-Z-ETP
7553 - 9SS20MJB20XMP125-Ni-V
7554 - 9SS20MJB20XMP125-Ni-AL
7555 - 9SS20MJB20XMP125-Ni-ETP

ITEM # - DESCRIPTION

90° Wheel Motor Swivels

PAGE 36

5760 - 9SS4MO10XFO6-Z-V
5770 - 9SS4MO10XFO6-Z-V-001

90° Female Pipe (N.P.T.F.) X Male Face Seal (M.F.S.)

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8400 - 9SS4FP25XMFS6-Z-V
8401 - 9SS4FP25XMFS6-Z-AL
8402 - 9SS4FP25XMFS6-Z-ETP
8403 - 9SS4FP25XMFS6-Ni-V
8404 - 9SS4FP25XMFS6-Ni-AL
8405 - 9SS4FP25XMFS6-Ni-ETP

8410 - 9SS8FP38XMFS6-Z-V
8411 - 9SS8FP38XMFS6-Z-AL
8412 - 9SS8FP38XMFS6-Z-ETP
8413 - 9SS8FP38XMFS6-Ni-V
8414 - 9SS8FP38XMFS6-Ni-AL
8415 - 9SS8FP38XMFS6-Ni-ETP

8420 - 9SS8FP38XMFS8-Z-V
8421 - 9SS8FP38XMFS8-Z-AL
8422 - 9SS8FP38XMFS8-Z-ETP
8423 - 9SS8FP38XMFS8-Ni-V
8424 - 9SS8FP38XMFS8-Ni-AL
8425 - 9SS8FP38XMFS8-Ni-ETP

8430 - 9SS8FP50XMFS8-Z-V
8431 - 9SS8FP50XMFS8-Z-AL
8432 - 9SS8FP50XMFS8-Z-ETP
8433 - 9SS8FP50XMFS8-Ni-V
8434 - 9SS8FP50XMFS8-Ni-AL
8435 - 9SS8FP50XMFS8-Ni-ETP

8440 - 9SS8FP50XMFS10-Z-V
8441 - 9SS8FP50XMFS10-Z-AL
8442 - 9SS8FP50XMFS10-Z-ETP
8443 - 9SS8FP50XMFS10-Ni-V
8444 - 9SS8FP50XMFS10-Ni-AL
8445 - 9SS8FP50XMFS10-Ni-ETP

8450 - 9SS12FP75XMFS12-Z-V
8451 - 9SS12FP75XMFS12-Z-AL
8452 - 9SS12FP75XMFS12-Z-ETP
8453 - 9SS12FP75XMFS12-Ni-V
8454 - 9SS12FP75XMFS12-Ni-AL
8455 - 9SS12FP75XMFS12-Ni-ETP

8460 - 9SS16FP100XMFS16-Z-V
8461 - 9SS16FP100XMFS16-Z-AL
8462 - 9SS16FP100XMFS16-Z-ETP
8463 - 9SS16FP100XMFS16-Ni-V
8464 - 9SS16FP100XMFS16-Ni-AL
8465 - 9SS16FP100XMFS16-Ni-ETP

8470 - 9SS20FP125XMFS20-Z-V
8471 - 9SS20FP125XMFS20-Z-AL
8472 - 9SS20FP125XMFS20-Z-ETP
8473 - 9SS20FP125XMFS20-Ni-V
8474 - 9SS20FP125XMFS20-Ni-AL
8475 - 9SS20FP125XMFS20-Ni-ETP

8483 - 9SS24FP150XMFS24-Ni-V
8484 - 9SS24FP150XMFS24-Ni-AL
8485 - 9SS24FP150XMFS24-Ni-ETP

90° Male Pipe (N.P.T.F.) X Male Face Seal (M.F.S.)

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8500 - 9SS4MP25XMFS6-Z-V
8501 - 9SS4MP25XMFS6-Z-AL
8502 - 9SS4MP25XMFS6-Z-ETP
8503 - 9SS4MP25XMFS6-Ni-V
8504 - 9SS4MP25XMFS6-Ni-AL
8505 - 9SS4MP25XMFS6-Ni-ETP

8510 - 9SS4MP38XMFS6-Z-V
8511 - 9SS4MP38XMFS6-Z-AL
8512 - 9SS4MP38XMFS6-Z-ETP
8513 - 9SS4MP38XMFS6-Ni-V
8514 - 9SS4MP38XMFS6-Ni-AL
8515 - 9SS4MP38XMFS6-Ni-ETP

ITEM # - DESCRIPTION

8520 - 9SS8MP38XMFS6-Z-V
8521 - 9SS8MP38XMFS6-Z-AL
8522 - 9SS8MP38XMFS6-Z-ETP
8523 - 9SS8MP38XMFS6-Ni-V
8524 - 9SS8MP38XMFS6-Ni-AL
8525 - 9SS8MP38XMFS6-Ni-ETP

8530 - 9SS8MP38XMFS8-Z-V
8531 - 9SS8MP38XMFS8-Z-AL
8532 - 9SS8MP38XMFS8-Z-ETP
8533 - 9SS8MP38XMFS8-Ni-V
8534 - 9SS8MP38XMFS8-Ni-AL
8535 - 9SS8MP38XMFS8-Ni-ETP

8540 - 9SS8MP50XMFS8-Z-V
8541 - 9SS8MP50XMFS8-Z-AL
8542 - 9SS8MP50XMFS8-Z-ETP
8543 - 9SS8MP50XMFS8-Ni-V
8544 - 9SS8MP50XMFS8-Ni-AL
8545 - 9SS8MP50XMFS8-Ni-ETP

8550 - 9SS8MP50XMFS10-Z-V
8551 - 9SS8MP50XMFS10-Z-AL
8552 - 9SS8MP50XMFS10-Z-ETP
8553 - 9SS8MP50XMFS10-Ni-V
8554 - 9SS8MP50XMFS10-Ni-AL
8555 - 9SS8MP50XMFS10-Ni-ETP

8560 - 9SS12MP75XMFS12-Z-V
8561 - 9SS12MP75XMFS12-Z-AL
8562 - 9SS12MP75XMFS12-Z-ETP
8563 - 9SS12MP75XMFS12-Ni-V
8564 - 9SS12MP75XMFS12-Ni-AL
8565 - 9SS12MP75XMFS12-Ni-ETP

8570 - 9SS16MP100XMFS16-Z-V
8571 - 9SS16MP100XMFS16-Z-AL
8572 - 9SS16MP100XMFS16-Z-ETP
8573 - 9SS16MP100XMFS16-Ni-V
8574 - 9SS16MP100XMFS16-Ni-AL
8575 - 9SS16MP100XMFS16-Ni-ETP

8580 - 9SS20MP125XMFS20-Z-V
8581 - 9SS20MP125XMFS20-Z-AL
8582 - 9SS20MP125XMFS20-Z-ETP
8583 - 9SS20MP125XMFS20-Ni-V
8584 - 9SS20MP125XMFS20-Ni-AL
8585 - 9SS20MP125XMFS20-Ni-ETP

8593 - 9SS24MP150XMFS24-Ni-V
8594 - 9SS24MP150XMFS24-Ni-AL
8595 - 9SS24MP150XMFS24-Ni-ETP

90° Male (J.I.C.) X Male Face Seal (M.F.S.)

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21036 - 9SS4MJ4XMFS4-Z-V
8200 - 9SS4MJ6XMFS6-Z-V
8201 - 9SS4MJ6XMFS6-Z-AL
8202 - 9SS4MJ6XMFS6-Z-ETP
8203 - 9SS4MJ6XMFS6-Ni-V
8204 - 9SS4MJ6XMFS6-Ni-AL
8205 - 9SS4MJ6XMFS6-Ni-ETP

8210 - 9SS8MJ8XMFS6-Z-V
8211 - 9SS8MJ8XMFS6-Z-AL
8212 - 9SS8MJ8XMFS6-Z-ETP
8213 - 9SS8MJ8XMFS6-Ni-V
8214 - 9SS8MJ8XMFS6-Ni-AL
8215 - 9SS8MJ8XMFS6-Ni-ETP

8220 - 9SS8MJ8XMFS8-Z-V
8221 - 9SS8MJ8XMFS8-Z-AL
8222 - 9SS8MJ8XMFS8-Z-ETP
8223 - 9SS8MJ8XMFS8-Ni-V
8224 - 9SS8MJ8XMFS8-Ni-AL
8225 - 9SS8MJ8XMFS8-Ni-ETP

8230 - 9SS8MJ8XMFS10-Z-V
8231 - 9SS8MJ8XMFS10-Z-AL
8232 - 9SS8MJ8XMFS10-Z-ETP
8233 - 9SS8MJ8XMFS10-Ni-V
8234 - 9SS8MJ8XMFS10-Ni-AL
8235 - 9SS8MJ8XMFS10-Ni-ETP

ITEM # - DESCRIPTION

8240 - 9SS8MJ10XMFS8-Z-V
8241 - 9SS8MJ10XMFS8-Z-AL
8242 - 9SS8MJ10XMFS8-Z-ETP
8243 - 9SS8MJ10XMFS8-Ni-V
8244 - 9SS8MJ10XMFS8-Ni-AL
8245 - 9SS8MJ10XMFS8-Ni-ETP

8250 - 9SS8MJ10XMFS10-Z-V
8251 - 9SS8MJ10XMFS10-Z-AL
8252 - 9SS8MJ10XMFS10-Z-ETP
8253 - 9SS8MJ10XMFS10-Ni-V
8254 - 9SS8MJ10XMFS10-Ni-AL
8255 - 9SS8MJ10XMFS10-Ni-ETP

8260 - 9SS12MJ12XMFS12-Z-V
8261 - 9SS12MJ12XMFS12-Z-AL
8262 - 9SS12MJ12XMFS12-Z-ETP
8263 - 9SS12MJ12XMFS12-Ni-V
8264 - 9SS12MJ12XMFS12-Ni-AL
8265 - 9SS12MJ12XMFS12-Ni-ETP

8270 - 9SS16MJ16XMFS16-Z-V
8271 - 9SS16MJ16XMFS16-Z-AL
8272 - 9SS16MJ16XMFS16-Z-ETP
8273 - 9SS16MJ16XMFS16-Ni-V
8274 - 9SS16MJ16XMFS16-Ni-AL
8275 - 9SS16MJ16XMFS16-Ni-ETP

8280 - 9SS20MJ20XMFS20-Z-V
8281 - 9SS20MJ20XMFS20-Z-AL
8282 - 9SS20MJ20XMFS20-Z-ETP
8283 - 9SS20MJ20XMFS20-Ni-V
8284 - 9SS20MJ20XMFS20-Ni-AL
8285 - 9SS20MJ20XMFS20-Ni-ETP

8293 - 9SS24MJ24XMFS24-Ni-V
8294 - 9SS24MJ24XMFS24-Ni-AL
8295 - 9SS24MJ24XMFS24-Ni-ETP

90° Male Bulkhead (J.I.C.) X Male Face Seal (M.F.S.)

PAGE 38

8300 - 9SS8MJB8XMFS6-Z-V
8301 - 9SS8MJB8XMFS6-Z-AL
8302 - 9SS8MJB8XMFS6-Z-ETP
8303 - 9SS8MJB8XMFS6-Ni-V
8304 - 9SS8MJB8XMFS6-Ni-AL
8305 - 9SS8MJB8XMFS6-Ni-ETP

8310 - 9SS8MJB8XMFS8-Z-V
8311 - 9SS8MJB8XMFS8-Z-AL
8312 - 9SS8MJB8XMFS8-Z-ETP
8313 - 9SS8MJB8XMFS8-Ni-V
8314 - 9SS8MJB8XMFS8-Ni-AL
8315 - 9SS8MJB8XMFS8-Ni-ETP

8320 - 9SS8MJB8XMFS10-Z-V
8321 - 9SS8MJB8XMFS10-Z-AL
8322 - 9SS8MJB8XMFS10-Z-ETP

8323 - 9SS8MJB8XMFS10-Ni-V
8324 - 9SS8MJB8XMFS10-Ni-AL
8325 - 9SS8MJB8XMFS10-Ni-ETP

8330 - 9SS8MJB10XMFS6-Z-V
8331 - 9SS8MJB10XMFS6-Z-AL
8332 - 9SS8MJB10XMFS6-Z-ETP
8333 - 9SS8MJB10XMFS6-Ni-V
8334 - 9SS8MJB10XMFS6-Ni-AL
8335 - 9SS8MJB10XMFS6-Ni-ETP

8340 - 9SS8MJB10XMFS8-Z-V
8341 - 9SS8MJB10XMFS8-Z-AL
8342 - 9SS8MJB10XMFS8-Z-ETP
8343 - 9SS8MJB10XMFS8-Ni-V
8344 - 9SS8MJB10XMFS8-Ni-AL
8345 - 9SS8MJB10XMFS8-Ni-ETP

8350 - 9SS8MJB10XMFS10-Z-V
8351 - 9SS8MJB10XMFS10-Z-AL
8352 - 9SS8MJB10XMFS10-Z-ETP
8353 - 9SS8MJB10XMFS10-Ni-V
8354 - 9SS8MJB10XMFS10-Ni-AL
8355 - 9SS8MJB10XMFS10-Ni-ETP

8360 - 9SS12MJB12XMFS12-Z-V
8361 - 9SS12MJB12XMFS12-Z-AL
8362 - 9SS12MJB12XMFS12-Z-ETP
8363 - 9SS12MJB12XMFS12-Ni-V

ITEM # - DESCRIPTION

8364 - 9SS12MJB12XMFS12-Ni-AL
8365 - 9SS12MJB12XMFS12-Ni-ETP

8370 - 9SS16MJB16XMFS16-Z-V
8371 - 9SS16MJB16XMFS16-Z-AL
8372 - 9SS16MJB16XMFS16-Z-ETP
8373 - 9SS16MJB16XMFS16-Ni-V
8374 - 9SS16MJB16XMFS16-Ni-AL
8375 - 9SS16MJB16XMFS16-Ni-ETP

8380 - 9SS20MJB20XMFS20-Z-V
8381 - 9SS20MJB20XMFS20-Z-AL
8382 - 9SS20MJB20XMFS20-Z-ETP
8383 - 9SS20MJB20XMFS20-Ni-V
8384 - 9SS20MJB20XMFS20-Ni-AL
8385 - 9SS20MJB20XMFS20-Ni-ETP

90° Male (O.R.B.) X Male Face Seal (M.F.S.)

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21037 - 9SS4MO4XMFS4-Z-V
8600 - 9SS4MO6XMFS6-Z-V
8601 - 9SS4MO6XMFS6-Z-AL
8602 - 9SS4MO6XMFS6-Z-ETP
8603 - 9SS4MO6XMFS6-Ni-V
8604 - 9SS4MO6XMFS6-Ni-AL
8605 - 9SS4MO6XMFS6-Ni-ETP

8610 - 9SS8MO8XMFS6-Z-V
8611 - 9SS8MO8XMFS6-Z-AL
8612 - 9SS8MO8XMFS6-Z-ETP
8613 - 9SS8MO8XMFS6-Ni-V
8614 - 9SS8MO8XMFS6-Ni-AL
8615 - 9SS8MO8XMFS6-Ni-ETP

8620 - 9SS8MO8XMFS8-Z-V
8621 - 9SS8MO8XMFS8-Z-AL
8622 - 9SS8MO8XMFS8-Z-ETP
8623 - 9SS8MO8XMFS8-Ni-V
8624 - 9SS8MO8XMFS8-Ni-AL
8625 - 9SS8MO8XMFS8-Ni-ETP

8630 - 9SS8MO8XMFS10-Z-V
8631 - 9SS8MO8XMFS10-Z-AL
8632 - 9SS8MO8XMFS10-Z-ETP
8633 - 9SS8MO8XMFS10-Ni-V
8634 - 9SS8MO8XMFS10-Ni-AL
8635 - 9SS8MO8XMFS10-Ni-ETP

8640 - 9SS8MO10XMFS8-Z-V
8641 - 9SS8MO10XMFS8-Z-AL
8642 - 9SS8MO10XMFS8-Z-ETP
8643 - 9SS8MO10XMFS8-Ni-V
8644 - 9SS8MO10XMFS8-Ni-AL
8645 - 9SS8MO10XMFS8-Ni-ETP

8650 - 9SS8MO10XMFS10-Z-V
8651 - 9SS8MO10XMFS10-Z-AL
8652 - 9SS8MO10XMFS10-Z-ETP
8653 - 9SS8MO10XMFS10-Ni-V
8654 - 9SS8MO10XMFS10-Ni-AL
8655 - 9SS8MO10XMFS10-Ni-ETP

8660 - 9SS12MO12XMFS12-Z-V
8661 - 9SS12MO12XMFS12-Z-AL
8662 - 9SS12MO12XMFS12-Z-ETP
8663 - 9SS12MO12XMFS12-Ni-V
8664 - 9SS12MO12XMFS12-Ni-AL
8665 - 9SS12MO12XMFS12-Ni-ETP

8670 - 9SS16MO16XMFS16-Z-V
8671 - 9SS16MO16XMFS16-Z-AL
8672 - 9SS16MO16XMFS16-Z-ETP
8673 - 9SS16MO16XMFS16-Ni-V
8674 - 9SS16MO16XMFS16-Ni-AL
8675 - 9SS16MO16XMFS16-Ni-ETP

8680 - 9SS20MO20XMFS20-Z-V
8681 - 9SS20MO20XMFS20-Z-AL
8682 - 9SS20MO20XMFS20-Z-ETP
8683 - 9SS20MO20XMFS20-Ni-V
8684 - 9SS20MO20XMFS20-Ni-AL
8685 - 9SS20MO20XMFS20-Ni-ETP

8693 - 9SS24MO24XMFS24-Ni-V
8694 - 9SS24MO24XMFS24-Ni-AL
8695 - 9SS24MO24XMFS24-Ni-ETP

ITEM # - DESCRIPTION

90° Male Face Seal (M.F.S.) X Male Face Seal (M.F.S.) PAGE 39

7600 - 9SS4MFS6XMFS6-Z-V
7601 - 9SS4MFS6XMFS6-Z-AL
7602 - 9SS4MFS6XMFS6-Z-ETP
7603 - 9SS4MFS6XMFS6-NI-V
7604 - 9SS4MFS6XMFS6-NI-AL
7605 - 9SS4MFS6XMFS6-NI-ETP

7610 - 9SS8MFS8XMFS8-Z-V
7611 - 9SS8MFS8XMFS8-Z-AL
7612 - 9SS8MFS8XMFS8-Z-ETP
7613 - 9SS8MFS8XMFS8-NI-V
7614 - 9SS8MFS8XMFS8-NI-AL
7615 - 9SS8MFS8XMFS8-NI-ETP

7620 - 9SS8MFS10XMFS10-Z-V
7621 - 9SS8MFS10XMFS10-Z-AL
7622 - 9SS8MFS10XMFS10-Z-ETP
7623 - 9SS8MFS10XMFS10-NI-V
7624 - 9SS8MFS10XMFS10-NI-AL
7625 - 9SS8MFS10XMFS10-NI-ETP

7630 - 9SS12MFS12XMFS12-Z-V
7631 - 9SS12MFS12XMFS12-Z-AL
7632 - 9SS12MFS12XMFS12-Z-ETP
7633 - 9SS12MFS12XMFS12-NI-V
7634 - 9SS12MFS12XMFS12-NI-AL
7635 - 9SS12MFS12XMFS12-NI-ETP

7640 - 9SS16MFS16XMFS16-Z-V
7641 - 9SS16MFS16XMFS16-Z-AL
7642 - 9SS16MFS16XMFS16-Z-ETP
7643 - 9SS16MFS16XMFS16-NI-V
7644 - 9SS16MFS16XMFS16-NI-AL
7645 - 9SS16MFS16XMFS16-NI-ETP

7650 - 9SS20MFS20XMFS20-Z-V
7651 - 9SS20MFS20XMFS20-Z-AL
7652 - 9SS20MFS20XMFS20-Z-ETP
7653 - 9SS20MFS20XMFS20-NI-V
7654 - 9SS20MFS20XMFS20-NI-AL
7655 - 9SS20MFS20XMFS20-NI-ETP

7663 - 9SS24MFS24XMFS24-NI-V
7664 - 9SS24MFS24XMFS24-NI-AL
7665 - 9SS24MFS24XMFS24-NI-ETP

90° Female Face Seal (F.F.S.) X Male Face Seal (M.F.S.) PAGE 40

7700 - 9SS4FFS6XMFS6-Z-V
7701 - 9SS4FFS6XMFS6-Z-AL
7702 - 9SS4FFS6XMFS6-Z-ETP
7703 - 9SS4FFS6XMFS6-NI-V
7704 - 9SS4FFS6XMFS6-NI-AL
7705 - 9SS4FFS6XMFS6-NI-ETP

7710 - 9SS8FFS8XMFS8-Z-V
7711 - 9SS8FFS8XMFS8-Z-AL
7712 - 9SS8FFS8XMFS8-Z-ETP
7713 - 9SS8FFS8XMFS8-NI-V
7714 - 9SS8FFS8XMFS8-NI-AL
7715 - 9SS8FFS8XMFS8-NI-ETP

7720 - 9SS8FFS10XMFS10-Z-V
7721 - 9SS8FFS10XMFS10-Z-AL
7722 - 9SS8FFS10XMFS10-Z-ETP
7723 - 9SS8FFS10XMFS10-NI-V
7724 - 9SS8FFS10XMFS10-NI-AL
7725 - 9SS8FFS10XMFS10-NI-ETP

7730 - 9SS12FFS12XMFS12-Z-V
7731 - 9SS12FFS12XMFS12-Z-AL
7732 - 9SS12FFS12XMFS12-Z-ETP
7733 - 9SS12FFS12XMFS12-NI-V
7734 - 9SS12FFS12XMFS12-NI-AL
7735 - 9SS12FFS12XMFS12-NI-ETP

7740 - 9SS16FFS16XMFS16-Z-V
7741 - 9SS16FFS16XMFS16-Z-AL
7742 - 9SS16FFS16XMFS16-Z-ETP
7743 - 9SS16FFS16XMFS16-NI-V
7744 - 9SS16FFS16XMFS16-NI-AL
7745 - 9SS16FFS16XMFS16-NI-ETP

7750 - 9SS20FFS20XMFS20-Z-V
7751 - 9SS20FFS20XMFS20-Z-AL
7752 - 9SS20FFS20XMFS20-Z-ETP
7753 - 9SS20FFS20XMFS20-NI-V
7754 - 9SS20FFS20XMFS20-NI-AL
7755 - 9SS20FFS20XMFS20-NI-ETP

7763 - 9SS24FFS24XMFS24-NI-V
7764 - 9SS24FFS24XMFS24-NI-AL
7765 - 9SS24FFS24XMFS24-NI-ETP

90° Male Face Seal Bulkhead (M.F.S.B.) X Male Face Seal (M.F.S.) PAGE 40

7800 - 9SS4MFSB6XMFS6-Z-V
7801 - 9SS4MFSB6XMFS6-Z-AL
7802 - 9SS4MFSB6XMFS6-Z-ETP
7803 - 9SS4MFSB6XMFS6-NI-V
7804 - 9SS4MFSB6XMFS6-NI-AL
7805 - 9SS4MFSB6XMFS6-NI-ETP

7810 - 9SS8MFSB8XMFS8-Z-V
7811 - 9SS8MFSB8XMFS8-Z-AL
7812 - 9SS8MFSB8XMFS8-Z-ETP
7813 - 9SS8MFSB8XMFS8-NI-V
7814 - 9SS8MFSB8XMFS8-NI-AL
7815 - 9SS8MFSB8XMFS8-NI-ETP

7820 - 9SS8MFSB10XMFS10-Z-V
7821 - 9SS8MFSB10XMFS10-Z-AL
7822 - 9SS8MFSB10XMFS10-Z-ETP
7823 - 9SS8MFSB10XMFS10-NI-V
7824 - 9SS8MFSB10XMFS10-NI-AL
7825 - 9SS8MFSB10XMFS10-NI-ETP

7830 - 9SS12MFSB12XMFS12-Z-V
7831 - 9SS12MFSB12XMFS12-Z-AL
7832 - 9SS12MFSB12XMFS12-Z-ETP
7833 - 9SS12MFSB12XMFS12-NI-V
7834 - 9SS12MFSB12XMFS12-NI-AL
7835 - 9SS12MFSB12XMFS12-NI-ETP

7840 - 9SS16MFSB16XMFS16-Z-V
7841 - 9SS16MFSB16XMFS16-Z-AL
7842 - 9SS16MFSB16XMFS16-Z-ETP
7843 - 9SS16MFSB16XMFS16-NI-V
7844 - 9SS16MFSB16XMFS16-NI-AL
7845 - 9SS16MFSB16XMFS16-NI-ETP

7850 - 9SS20MFSB20XMFS20-Z-V
7851 - 9SS20MFSB20XMFS20-Z-AL
7852 - 9SS20MFSB20XMFS20-Z-ETP
7853 - 9SS20MFSB20XMFS20-NI-V
7854 - 9SS20MFSB20XMFS20-NI-AL
7855 - 9SS20MFSB20XMFS20-NI-ETP

90° FEMALE PIPE (N.P.T.F.) X FEMALE (J.I.C.) SWIVEL NUT PAGE 41

8100 - 9SS4FP25XFJS4-Z-V
8101 - 9SS4FP25XFJS4-Z-AL
8102 - 9SS4FP25XFJS4-Z-ETP
8103 - 9SS4FP25XFJS4-NI-V
8104 - 9SS4FP25XFJS4-NI-AL
8105 - 9SS4FP25XFJS4-NI-ETP

8110 - 9SS4FP25XFJS6-Z-V
8111 - 9SS4FP25XFJS6-Z-AL
8112 - 9SS4FP25XFJS6-Z-ETP
8113 - 9SS4FP25XFJS6-NI-V
8114 - 9SS4FP25XFJS6-NI-AL
8115 - 9SS4FP25XFJS6-NI-ETP

8120 - 9SS8FP38XFJS6-Z-V
8121 - 9SS8FP38XFJS6-Z-AL
8122 - 9SS8FP38XFJS6-Z-ETP
8123 - 9SS8FP38XFJS6-NI-V
8124 - 9SS8FP38XFJS6-NI-AL
8125 - 9SS8FP38XFJS6-NI-AL

8130 - 9SS8FP50XFJS8-Z-V
8131 - 9SS8FP50XFJS8-Z-AL
8132 - 9SS8FP50XFJS8-Z-ETP
8133 - 9SS8FP50XFJS8-NI-V
8134 - 9SS8FP50XFJS8-NI-AL
8135 - 9SS8FP50XFJS8-NI-ETP

8140 - 9SS8FP50XFJS10-Z-V
8141 - 9SS8FP50XFJS10-Z-AL
8142 - 9SS8FP50XFJS10-Z-ETP
8143 - 9SS8FP50XFJS10-NI-V
8144 - 9SS8FP50XFJS10-NI-AL
8145 - 9SS8FP50XFJS10-NI-ETP
8150 - 9SS12FP75XFJS12-Z-V
8151 - 9SS12FP75XFJS12-Z-AL
8152 - 9SS12FP75XFJS12-Z-ETP
8153 - 9SS12FP75XFJS12-NI-V
8154 - 9SS12FP75XFJS12-NI-AL
8155 - 9SS12FP75XFJS12-NI-ETP

8160 - 9SS16FP100XFJS16-Z-V
8161 - 9SS16FP100XFJS16-Z-AL
8162 - 9SS16FP100XFJS16-Z-ETP
8163 - 9SS16FP100XFJS16-NI-V
8164 - 9SS16FP100XFJS16-NI-AL
8165 - 9SS16FP100XFJS16-NI-ETP

8170 - 9SS20FP125XFJS20-Z-V
8171 - 9SS20FP125XFJS20-Z-AL
8172 - 9SS20FP125XFJS20-Z-ETP
8173 - 9SS20FP125XFJS20-NI-V
8174 - 9SS20FP125XFJS20-NI-AL
8175 - 9SS20FP125XFJS20-NI-ETP

8183 - 9SS24FP150XFJS24-NI-V
8184 - 9SS24FP150XFJS24-NI-AL
8185 - 9SS24FP150XFJS24-NI-ETP

90° MALE PIPE (N.P.T.F.) X FEMALE (J.I.C.) SWIVEL NUT PAGE 41

8700 - 9SS4MP25XFJS4-Z-V
8701 - 9SS4MP25XFJS4-Z-AL
8702 - 9SS4MP25XFJS4-Z-ETP
8703 - 9SS4MP25XFJS4-NI-V
8704 - 9SS4MP25XFJS4-NI-AL
8705 - 9SS4MP25XFJS4-NI-ETP

8710 - 9SS4MP25XFJS6-Z-V
8711 - 9SS4MP25XFJS6-Z-AL
8712 - 9SS4MP25XFJS6-Z-ETP
8713 - 9SS4MP25XFJS6-NI-V
8714 - 9SS4MP25XFJS6-NI-AL
8715 - 9SS4MP25XFJS6-NI-ETP

8720 - 9SS4MP38XFJS6-Z-V
8721 - 9SS4MP38XFJS6-Z-AL
8722 - 9SS4MP38XFJS6-Z-ETP
8723 - 9SS4MP38XFJS6-NI-V
8724 - 9SS4MP38XFJS6-NI-AL
8725 - 9SS4MP38XFJS6-NI-ETP

8730 - 9SS8MP50XFJS8-Z-V
8731 - 9SS8MP50XFJS8-Z-AL
8732 - 9SS8MP50XFJS8-Z-ETP
8733 - 9SS8MP50XFJS8-NI-V
8734 - 9SS8MP50XFJS8-NI-AL
8735 - 9SS8MP50XFJS8-NI-ETP

8740 - 9SS8MP50XFJS10-Z-V
8741 - 9SS8MP50XFJS10-Z-AL
8742 - 9SS8MP50XFJS10-Z-ETP
8743 - 9SS8MP50XFJS10-NI-V
8744 - 9SS8MP50XFJS10-NI-AL
8745 - 9SS8MP50XFJS10-NI-ETP

8750 - 9SS12MP75XFJS12-Z-V
8751 - 9SS12MP75XFJS12-Z-AL
8752 - 9SS12MP75XFJS12-Z-ETP
8753 - 9SS12MP75XFJS12-NI-V
8754 - 9SS12MP75XFJS12-NI-AL
8755 - 9SS12MP75XFJS12-NI-ETP

8760 - 9SS16MP100XFJS16-Z-V
8761 - 9SS16MP100XFJS16-Z-AL
8762 - 9SS16MP100XFJS16-Z-ETP
8763 - 9SS16MP100XFJS16-NI-V
8764 - 9SS16MP100XFJS16-NI-AL
8765 - 9SS16MP100XFJS16-NI-ETP

8770 - 9SS20MP125XFJS20-Z-V
8771 - 9SS20MP125XFJS20-Z-AL
8772 - 9SS20MP125XFJS20-Z-ETP
8773 - 9SS20MP125XFJS20-NI-V
8774 - 9SS20MP125XFJS20-NI-AL
8775 - 9SS20MP125XFJS20-NI-ETP

8783 - 9SS24MP150XFJS24-NI-V
8784 - 9SS24MP150XFJS24-NI-AL
8785 - 9SS24MP150XFJS24-NI-ETP

90° MALE (O.R.B.) X FEMALE (J.I.C.) SWIVEL NUT PAGE 42

8800 - 9SS4MO4XFJS4-Z-V
8801 - 9SS4MO4XFJS4-Z-AL
8802 - 9SS4MO4XFJS4-Z-ETP
8803 - 9SS4MO4XFJS4-NI-V
8804 - 9SS4MO4XFJS4-NI-AL
8805 - 9SS4MO4XFJS4-NI-ETP

8810 - 9SS4MO6XFJS6-Z-V
8811 - 9SS4MO6XFJS6-Z-AL
8812 - 9SS4MO6XFJS6-Z-ETP
8813 - 9SS4MO6XFJS6-NI-V
8814 - 9SS4MO6XFJS6-NI-AL
8815 - 9SS4MO6XFJS6-NI-ETP

8820 - 9SS8MO8XFJS8-Z-V
8821 - 9SS8MO8XFJS8-Z-AL
8822 - 9SS8MO8XFJS8-Z-ETP
8823 - 9SS8MO8XFJS8-NI-V
8824 - 9SS8MO8XFJS8-NI-AL
8825 - 9SS8MO8XFJS8-NI-ETP

8830 - 9SS8MO10XFJS8-Z-V
8831 - 9SS8MO10XFJS8-Z-AL
8832 - 9SS8MO10XFJS8-Z-ETP
8833 - 9SS8MO10XFJS8-NI-V
8834 - 9SS8MO10XFJS8-NI-AL
8835 - 9SS8MO10XFJS8-NI-ETP

8840 - 9SS8MO8XFJS10-Z-V
8841 - 9SS8MO8XFJS10-Z-AL
8842 - 9SS8MO8XFJS10-Z-ETP
8843 - 9SS8MO8XFJS10-NI-V
8844 - 9SS8MO8XFJS10-NI-AL
8845 - 9SS8MO8XFJS10-NI-ETP

8850 - 9SS8MO10XFJS10-Z-V
8851 - 9SS8MO10XFJS10-Z-AL
8852 - 9SS8MO10XFJS10-Z-ETP
8853 - 9SS8MO10XFJS10-NI-V
8854 - 9SS8MO10XFJS10-NI-AL
8855 - 9SS8MO10XFJS10-NI-ETP

8860 - 9SS12MO12XFJS12-Z-V
8861 - 9SS12MO12XFJS12-Z-AL
8862 - 9SS12MO12XFJS12-Z-ETP
8863 - 9SS12MO12XFJS12-NI-V
8864 - 9SS12MO12XFJS12-NI-AL
8865 - 9SS12MO12XFJS12-NI-ETP

8870 - 9SS16MO16XFJS16-Z-V
8871 - 9SS16MO16XFJS16-Z-AL
8872 - 9SS16MO16XFJS16-Z-ETP
8873 - 9SS16MO16XFJS16-NI-V
8874 - 9SS16MO16XFJS16-NI-AL
8875 - 9SS16MO16XFJS16-NI-ETP

8880 - 9SS20MO20XFJS20-Z-V
8881 - 9SS20MO20XFJS20-Z-AL
8882 - 9SS20MO20XFJS20-Z-ETP
8883 - 9SS20MO20XFJS20-NI-V
8884 - 9SS20MO20XFJS20-NI-AL
8885 - 9SS20MO20XFJS20-NI-ETP

8893 - 9SS24MO24XFJS24-NI-V
8894 - 9SS24MO24XFJS24-NI-AL
8895 - 9SS24MO24XFJS24-NI-ETP

90° MALE (J.I.C.) X FEMALE (J.I.C.) SWIVEL NUT PAGE 42

8900 - 9SS4MJ4XFJS4-Z-V
8901 - 9SS4MJ4XFJS4-Z-AL
8902 - 9SS4MJ4XFJS4-Z-ETP
8903 - 9SS4MJ4XFJS4-NI-V
8904 - 9SS4MJ4XFJS4-NI-AL
8905 - 9SS4MJ4XFJS4-NI-ETP

8910 - 9SS4MJ6XFJS6-Z-V
8911 - 9SS4MJ6XFJS6-Z-AL
8912 - 9SS4MJ6XFJS6-Z-ETP
8913 - 9SS4MJ6XFJS6-NI-V
8914 - 9SS4MJ6XFJS6-NI-AL
8915 - 9SS4MJ6XFJS6-NI-ETP

ITEM # - DESCRIPTION

8920 - 9SS8MJ8XFJS8-Z-V
8921 - 9SS8MJ8XFJS8-Z-AL
8922 - 9SS8MJ8XFJS8-Z-ETP
8923 - 9SS8MJ8XFJS8-NI-V
8924 - 9SS8MJ8XFJS8-NI-AL
8925 - 9SS8MJ8XFJS8-NI-ETP

8930 - 9SS8MJ10XFJS8-Z-V
8931 - 9SS8MJ10XFJS8-Z-AL
8932 - 9SS8MJ10XFJS8-Z-ETP
8933 - 9SS8MJ10XFJS8-NI-V
8934 - 9SS8MJ10XFJS8-NI-AL
8935 - 9SS8MJ10XFJS8-NI-ETP

8940 - 9SS8MJ8XFJS10-Z-V
8941 - 9SS8MJ8XFJS10-Z-AL
8942 - 9SS8MJ8XFJS10-Z-ETP
8943 - 9SS8MJ8XFJS10-NI-V
8944 - 9SS8MJ8XFJS10-NI-AL
8945 - 9SS8MJ8XFJS10-NI-ETP

8950 - 9SS8MJ10XFJS10-Z-V
8951 - 9SS8MJ10XFJS10-Z-AL
8952 - 9SS8MJ10XFJS10-Z-ETP
8953 - 9SS8MJ10XFJS10-NI-V
8954 - 9SS8MJ10XFJS10-NI-AL
8955 - 9SS8MJ10XFJS10-NI-ETP

8960 - 9SS12MJ12XFJS12-Z-V
8961 - 9SS12MJ12XFJS12-Z-AL
8962 - 9SS12MJ12XFJS12-Z-ETP
8963 - 9SS12MJ12XFJS12-NI-V
8964 - 9SS12MJ12XFJS12-NI-AL
8965 - 9SS12MJ12XFJS12-NI-ETP

8970 - 9SS16MJ16XFJS16-Z-V
8971 - 9SS16MJ16XFJS16-Z-AL
8972 - 9SS16MJ16XFJS16-Z-ETP
8973 - 9SS16MJ16XFJS16-NI-V
8974 - 9SS16MJ16XFJS16-NI-AL
8975 - 9SS16MJ16XFJS16-NI-ETP

8980 - 9SS20MJ20XFJS20-Z-V
8981 - 9SS20MJ20XFJS20-Z-AL
8982 - 9SS20MJ20XFJS20-Z-ETP
8983 - 9SS20MJ20XFJS20-NI-V
8984 - 9SS20MJ20XFJS20-NI-AL
8985 - 9SS20MJ20XFJS20-NI-ETP

8993 - 9SS24MJ24XFJS24-NI-V
8994 - 9SS24MJ24XFJS24-NI-AL
8995 - 9SS24MJ24XFJS24-NI-ETP

90° (H.P.) Female Pipe (N.P.T.F.) X Female Pipe (N.P.T.F.) PAGE 43

23270 -9SS8HPFP38XFP38-NI-90V
5923 - 9SS8HPFP50XFP50-Ni-V
5924 - 9SS8HPFP50XFP50-Ni-AL

90° (H.P.) Male Pipe (N.P.T.F.) X Female Pipe (N.P.T.F.) PAGE 43

23263 -9SS8HPMP38XFP38-NI-90V
6023 - 9SS8HPMP50XFP50-Ni-V
6024 - 9SS8HPMP50XFP50-Ni-AL

90° Dual Plane Female Pipe (N.P.T.F.) X Female Pipe (N.P.T.F.) PAGE 45

DP5000 - 9DP4FP25XFP25-Z-V
DP5001 - 9DP4FP25XFP25-Z-AL
DP5002 - 9DP4FP25XFP25-Z-ETP
DP5003 - 9DP4FP25XFP25-NI-V
DP5004 - 9DP4FP25XFP25-NI-AL
DP5005 - 9DP4FP25XFP25-NI-ETP

DP5010 - 9DP8FP38XFP38-Z-V
DP5011 - 9DP8FP38XFP38-Z-AL
DP5012 - 9DP8FP38XFP38-Z-ETP
DP5013 - 9DP8FP38XFP38-NI-V
DP5014 - 9DP8FP38XFP38-NI-AL
DP5015 - 9DP8FP38XFP38-NI-ETP

ITEM # - DESCRIPTION

DP5020 - 9DP8FP50XFP50-Z-V
DP5021 - 9DP8FP50XFP50-Z-AL
DP5022 - 9DP8FP50XFP50-Z-ETP
DP5023 - 9DP8FP50XFP50-NI-V
DP5024 - 9DP8FP50XFP50-NI-AL
DP5025 - 9DP8FP50XFP50-NI-ETP

DP5030 - 9DP12FP75XFP75-Z-V
DP5031 - 9DP12FP75XFP75-Z-AL
DP5032 - 9DP12FP75XFP75-Z-ETP
DP5033 - 9DP12FP75XFP75-NI-V
DP5034 - 9DP12FP75XFP75-NI-AL
DP5035 - 9DP12FP75XFP75-NI-ETP

DP5040 - 9DP16FP100XFP100-Z-V
DP5041 - 9DP16FP100XFP100-Z-AL
DP5042 - 9DP16FP100XFP100-Z-ETP
DP5043 - PDP16FP100XFP100-NI-V
DP5044 - 9DP16FP100XFP100-NI-AL
DP5045 - 9DP16FP100XFP100-NI-ETP

DP5050 - 9DP20FP125XFP125-Z-V
DP5051 - 9DP20FP125XFP125-Z-AL
DP5052 - 9DP20FP125XFP125-Z-ETP
DP5053 - 9DP20FP125XFP125-NI-V
DP5054 - 9DP20FP125XFP125-NI-AL
DP5055 - 9DP20FP125XFP125-NI-ETP

DP5063 - 9DP24FP150XFP150-NI-V
DP5064 - 9DP24FP150XFP150-NI-AL
DP5065 - 9DP24FP150XFP150-NI-ETP

90° Dual Plane Male Pipe (N.P.T.F.) X Female Pipe (N.P.T.F.) PAGE 45

DP5100 - 9DP4MP25XFP25-Z-V
DP5101 - 9DP4MP25XFP25-Z-AL
DP5102 - 9DP4MP25XFP25-Z-ETP
DP5103 - 9DP4MP25XFP25-NI-V
DP5104 - 9DP4MP25XFP25-NI-AL
DP5105 - 9DP4MP25XFP25-NI-ETP

DP5110 - 9DP8MP38XFP38-Z-V
DP5111 - 9DP8MP38XFP38-Z-AL
DP5112 - 9DP8MP38XFP38-Z-ETP
DP5113 - 9DP8MP38XFP38-NI-V
DP5114 - 9DP8MP38XFP38-NI-AL
DP5115 - 9DP8MP38XFP38-NI-ETP

DP5120 - 9DP8MP50XFP50-Z-V
DP5121 - 9DP8MP50XFP50-Z-AL
DP5122 - 9DP8MP50XFP50-Z-ETP
DP5123 - 9DP8MP50XFP50-NI-V
DP5124 - 9DP8MP50XFP50-NI-AL
DP5125 - 9DP8MP50XFP50-NI-ETP

DP5130 - 9DP12MP75XFP75-Z-V
DP5131 - 9DP12MP75XFP75-Z-AL
DP5132 - 9DP12MP75XFP75-Z-ETP
DP5133 - 9DP12MP75XFP75-NI-V
DP5134 - 9DP12MP75XFP75-NI-AL
DP5135 - 9DP12MP75XFP75-NI-ETP

DP5140 - 9DP16MP100XFP100-Z-V
DP5141 - 9DP16MP100XFP100-Z-AL
DP5142 - 9DP16MP100XFP100-Z-ETP
DP5143 - 9DP16MP100XFP100-NI-V
DP5144 - 9DP16MP100XFP100-NI-AL
DP5145 - 9DP16MP100XFP100-NI-ETP

DP5150 - 9DP20MP125XFP125-Z-V
DP5151 - 9DP20MP125XFP125-Z-AL
DP5152 - 9DP20MP125XFP125-Z-ETP
DP5153 - 9DP20MP125XFP125-NI-V
DP5154 - 9DP20MP125XFP125-NI-AL
DP5155 - 9DP20MP125XFP125-NI-ETP

DP5163 - 9DP24MP150XFP150-NI-V
DP5164 - 9DP24MP150XFP150-NI-AL
DP5165 - 9DP24MP150XFP150-NI-ETP

(V) = Viton
(AL) = Aflas
(ETP) = Extreme Viton

ITEM # - DESCRIPTION

90° Dual Plane Male (O.R.B.) X Male (J.I.C) PAGE 46

DP6900 - 9DP4MO6XMJ6-Z-V
DP6901 - 9DP4MO6XMJ6-Z-AL
DP6902 - 9DP4MO6XMJ6-Z-ETP
DP6903 - 9DP4MO6XMJ6-NI-V
DP6904 - 9DP4MO6XMJ6-NI-AL
DP6905 - 9DP4MO6XMJ6-NI-ETP

DP6910 - 9DP8MO8XMJ8-Z-V
DP6911 - 9DP8MO8XMJ8-Z-AL
DP6912 - 9DP8MO8XMJ8-Z-ETP
DP6913 - 9DP8MO8XMJ8-NI-V
DP6914 - 9DP8MO8XMJ8-NI-AL
DP6915 - 9DP8MO8XMJ8-NI-ETP

DP6920 - 9DP8MO10XMJ10-Z-V
DP6921 - 9DP8MO10XMJ10-Z-AL
DP6922 - 9DP8MO10XMJ10-Z-ETP
DP6923 - 9DP8MO10XMJ10-NI-V
DP6924 - 9DP8MO10XMJ10-NI-AL
DP6925 - 9DP8MO10XMJ10-NI-ETP

DP6930 - 9DP12MO12XMJ12-Z-V
DP6931 - 9DP12MO12XMJ12-Z-AL
DP6932 - 9DP12MO12XMJ12-Z-ETP
DP6933 - 9DP12MO12XMJ12-NI-V
DP6934 - 9DP12MO12XMJ12-NI-AL
DP6935 - 9DP12MO12XMJ12-NI-ETP

DP6940 - 9DP16MO16XMJ16-Z-V
DP6941 - 9DP16MO16XMJ16-Z-AL
DP6942 - 9DP16MO16XMJ16-Z-ETP
DP6943 - 9DP16MO16XMJ16-NI-V
DP6944 - 9DP16MO16XMJ16-NI-AL
DP6945 - 9DP16MO16XMJ16-NI-ETP

DP6950 - 9DP20MO20XMJ20-Z-V
DP6951 - 9DP20MO20XMJ20-Z-AL
DP6952 - 9DP20MO20XMJ20-Z-ETP
DP6953 - 9DP20MO20XMJ20-NI-V
DP6954 - 9DP20MO20XMJ20-NI-AL
DP6955 - 9DP20M020XMJ20-NI-ETP

DP6963 - 9DP24MO24XMJ24-NI-V
DP6964 - 9DP24MO24XMJ24-NI-AL
DP6965 - 9DP24MO24XMJ24-NI-ETP

DP6970 - 9DP4MO4XMJ4-Z-V
DP6971 - 9DP4MO4XMJ4-Z-AL
DP6972 - 9DP4MO4XMJ4-Z-ETP
DP6973 - 9DP4MO4XMJ4-NI-V
DP6974 - 9DP4MO4XMJ4-NI-AL
DP6975 - 9DP4MO4XMJ4-NI-ETP

90° Dual Plane Male (O.R.B.) X Male Face Seal (M.F.S.) PAGE 46

DP8600 - 9DP4MO6XMFS6-Z-V
DP8601 - 9DP4MO6XMFS6-Z-AL
DP8602 - 9DP4MO6XMFS6-Z-ETP
DP8603 - 9DP4MO6XMFS6-NI-V
DP8604 - 9DP4MO6XMFS6-NI-AL
DP8605 - 9DP4MO6XMFS6-NI-ETP

DP8620 - 9DP8MO8XMFS8-Z-V
DP8621 - 9DP8MO8XMFS8-Z-AL
DP8622 - 9DP8MO8XMFS8-Z-ETP
DP8623 - 9DP8MO8XMFS8-NI-V
DP8624 - 9DP8MO8XMFS8-NI-AL
DP8625 - 9DP8MO8XMFS8-NI-ETP

DP8650 - 9DP8MO10XMFS10-Z-V
DP8651 - 9DP8MO10XMFS10-Z-AL
DP8652 - 9DP8MO10XMFS10-Z-ETP
DP8653 - 9DP8MO10XMFS10-NI-V
DP8654 - 9DP8MO10XMFS10-NI-AL
DP8655 - 9DP8MO10XMFS10-NI-ETP

DP8660 - 9DP12MO12XMFS12-Z-V
DP8661 - 9DP12MO12XMFS12-Z-AL
DP8662 - 9DP12MO12XMFS12-Z-ETP
DP8663 - 9DP12MO12XMFS12-NI-V
DP8664 - 9DP12MO12XMFS12-NI-AL
DP8665 - 9DP12MO12XMFS12-NI-ETP

ITEM # - DESCRIPTION

DP8670 - 9DP16MO16XMFS16-Z-V
DP8671 - 9DP16MO16XMFS16-Z-AL
DP8672 - 9DP16MO16XMFS16-Z-ETP
DP8673 - 9DP16MO16XMFS16-NI-V
DP8674 - 9DP16MO16XMFS16-NI-AL
DP8675 - 9DP16MO16XMFS16-NI-ETP

DP8680 - 9DP20MO20XMFS20-Z-V
DP8681 - 9DP20MO20XMFS20-Z-AL
DP8682 - 9DP20MO20XMFS20-Z-ETP
DP8683 - 9DP20MO20XMFS20-NI-V
DP8684 - 9DP20MO20XMFS20-NI-AL
DP8685 - 9DP20MO20XMFS20-NI-ETP

DP8693 - 9DP24MO24XMFS24-NI-V
DP8694 - 9DP24MO24XMFS24-NI-AL
DP8695 - 9DP24MO24XMFS24-NI-ETP

90° Dual Plane Male Pipe (N.P.T.F.) X Male (J.I.C.) PAGE 47

DP6800 - 9DP4MP25XMJ6-Z-V
DP6801 - 9DP4MP25XMJ6-Z-AL
DP6802 - 9DP4MP25XMJ6-Z-ETP
DP6803 - 9DP4MP25XMJ6-NI-V
DP6804 - 9DP4MP25XMJ6-NI-AL
DP6805 - 9DP4MP25XMJ6-NI-ETP

DP6810 - 9DP8MP38XMJ8-Z-V
DP6811 - 9DP8MP38XMJ8-Z-AL
DP6812 - 9DP8MP38XMJ8-Z-ETP
DP6813 - 9DP8MP38XMJ8-NI-V
DP6814 - 9DP8MP38XMJ8-NI-AL
DP6815 - 9DP8MP38XMJ8-NI-ETP

DP6820 - 9DP8MP50XMJ8-Z-V
DP6821 - 9DP8MP50XMJ8-Z-AL
DP6822 - 9DP8MP50XMJ8-Z-ETP
DP6823 - 9DP8MP50XMJ8-NI-V
DP6824 - 9DP8MP50XMJ8-NI-AL
DP6825 - 9DP8MP50XMJ8-NI-ETP

DP6830 - 9DP8MP50XMJ10-Z-V
DP6831 - 9DP8MP50XMJ10-Z-AL
DP6832 - 9DP8MP50XMJ10-Z-ETP
DP6833 - 9DP8MP50XMJ10-NI-V
DP6834 - 9DP8MP50XMJ10-NI-AL
DP6835 - 9DP8MP50XMJ10-NI-ETP

DP6840 - 9DP12MP75XMJ12-Z-V
DP6841 - 9DP12MP75XMJ12-Z-AL
DP6842 - 9DP12MP75XMJ12-Z-ETP
DP6843 - 9DP12MP75XMJ12-NI-V
DP6844 - 9DP12MP75XMJ12-NI-AL
DP6845 - 9DP12MP75XMJ12-NI-ETP

DP6850 - 9DP16MP100XMJ16-Z-V
DP6851 - 9DP16MP100XMJ16-Z-AL
DP6852 - 9DP16MP100XMJ16-Z-ETP
DP6853 - 9DP16MP100XMJ16-NI-V
DP6854 - 9DP16MP100XMJ16-NI-AL
DP6855 - 9DP16MP100XMJ16-NI-ETP

DP6860 - 9DP20MP125XMJ20-Z-V
DP6861 - 9DP20MP125XMJ20-Z-AL
DP6862 - 9DP20MP125XMJ20-Z-ETP
DP6863 - 9DP20MP125XMJ20-NI-V
DP6864 - 9DP20MP125XMJ20-NI-AL
DP6865 - 9DP20MP125XMJ20-NI-ETP

DP6873 - 9DP24MP150XMJ24-NI-V
DP6874 - 9DP24MP150XMJ24-NI-AL
DP6875 - 9DP24MP150XMJ24-NI-ETP

DP6880 - 9DP4MP38XMJ6-Z-V
DP6881 - 9DP4MP38XMJ6-Z-AL
DP6882 - 9DP4MP38XMJ6-Z-ETP
DP6883 - 9DP4MP38XMJ6-NI-V
DP6884 - 9DP4MP38XMJ6-NI-AL
DP6885 - 9DP4MP38XMJ6-NI-ETP

DP6890 - 9DP4MP25XMJ4-Z-V
DP6891 - 9DP4MP25XMJ4-Z-AL
DP6892 - 9DP4MP25XMJ4-Z-ETP
DP6893 - 9DP4MP25XMJ4-NI-V
DP6894 - 9DP4MP25XMJ4-NI-AL
DP6895 - 9DP4MP25XMJ4-NI-ETP

Cross Reference

ITEM # - DESCRIPTION

90° Dual Plane Male (J.I.C.) X Male (J.I.C.) PAGE 47

DP7000 - 9DP4MJ6XMJ6-Z-V
DP7001 - 9DP4MJ6XMJ6-Z-AL
DP7002 - 9DP4MJ6XMJ6-Z-ETP
DP7003 - 9DP4MJ6XMJ6-NI-V
DP7004 - 9DP4MJ6XMJ6-NI-AL
DP7005 - 9DP4MJ6XMJ6-NI-ETP

DP7010 - 9DP8MJ8XMJ8-Z-V
DP7011 - 9DP8MJ8XMJ8-Z-AL
DP7012 - 9DP8MJ8XMJ8-Z-ETP
DP7013 - 9DP8MJ8XMJ8-NI-V
DP7014 - 9DP8MJ8XMJ8-NI-AL
DP7015 - 9DP8MJ8XMJ8-NI-ETP

DP7020 - 9DP8MJ10XMJ10-Z-V
DP7021 - 9DP8MJ10XMJ10-Z-AL
DP7022 - 9DP8MJ10XMJ10-Z-ETP
DP7023 - 9DP8MJ10XMJ10-NI-V
DP7024 - 9DP8MJ10XMJ10-NI-AL
DP7025 - 9DP8MJ10XMJ10-NI-ETP

DP7030 - 9DP12MJ12XMJ12-Z-V
DP7031 - 9DP12MJ12XMJ12-Z-AL
DP7032 - 9DP12MJ12XMJ12-Z-ETP
DP7033 - 9DP12MJ12XMJ12-NI-V
DP7034 - 9DP12MJ12XMJ12-NI-AL
DP7035 - 9DP12MJ12XMJ12-NI-ETP

DP7040 - 9DP16MJ16XMJ16-Z-V
DP7041 - 9DP16MJ16XMJ16-Z-AL
DP7042 - 9DP16MJ16XMJ16-Z-ETP
DP7043 - 9DP16MJ16XMJ16-NI-V
DP7044 - 9DP16MJ16XMJ16-NI-AL
DP7045 - 9DP16MJ16XMJ16-NI-ETP

DP7050 - 9DP20MJ20XMJ20-Z-V
DP7051 - 9DP20MJ20XMJ20-Z-AL
DP7052 - 9DP20MJ20XMJ20-Z-ETP
DP7053 - 9DP20MJ20XMJ20-NI-V
DP7054 - 9DP20MJ20XMJ20-NI-AL
DP7055 - 9DP20MJ20XMJ20-NI-ETP

DP7063 - 9DP24MJ24XMJ24-NI-V
DP7064 - 9DP24MJ24XMJ24-NI-AL
DP7065 - 9DP24MJ24XMJ24-NI-ETP

DP7070 - 9DP4MJ4XMJ4-Z-V
DP7071 - 9DP4MJ4XMJ4-Z-AL
DP7072 - 9DP4MJ4XMJ4-Z-ETP
DP7073 - 9DP4MJ4XMJ4-NI-V
DP7074 - 9DP4MJ4XMJ4-NI-AL
DP7075 - 9DP4MJ4XMJ4-NI-ETP

90° Dual Plane Male Face Seal (M.F.S.) X Male Face Seal (M.F.S.) PAGE 48

DP7600 - 9DP4MFS6XMFS6-Z-V
DP7601 - 9DP4MFS6XMFS6-Z-AL
DP7602 - 9DP4MFS6XMFS6-Z-ETP
DP7603 - 9DP4MFS6XMFS6-NI-V
DP7604 - 9DP4MFS6XMFS6-NI-AL
DP7605 - 9DP4MFS6XMFS6-NI-ETP

DP7610 - 9DP8MFS8XMFS8-Z-V
DP7611 - 9DP8MFS8XMFS8-Z-AL
DP7612 - 9DP8MFS8XMFS8-Z-ETP
DP7613 - 9DP8MFS8XMFS8-NI-V
DP7614 - 9DP8MFS8XMFS8-NI-AL
DP7615 - 9DP8MFS8XMFS8-NI-ETP

DP7620 - 9DP8MFS10XMFS10-Z-V
DP7621 - 9DP8MFS10XMFS10-Z-AL
DP7622 - 9DP8MFS10XMFS10-Z-ETP
DP7623 - 9DP8MFS10XMFS10-NI-V
DP7624 - 9DP8MFS10XMFS10-NI-AL
DP7625 - 9DP8MFS10XMFS10-NI-ETP

DP7630 - 9DP12MFS12XMFS12-Z-V
DP7631 - 9DP12MFS12XMFS12-Z-AL
DP7632 - 9DP12MFS12XMFS12-Z-ETP

DP7633 - 9DP12MFS12XMFS12-NI-V
DP7634 - 9DP12MFS12XMFS12-NI-AL
DP7635 - 9DP12MFS12XMFS12-NI-ETP

ITEM # - DESCRIPTION

DP7640 - 9DP16MFS16XMFS16-Z-V
DP7641 - 9DP16MFS16XMFS16-Z-AL
DP7642 - 9DP16MFS16XMFS16-Z-ETP
DP7643 - 9DP16MFS16XMFS16-NI-V
DP7644 - 9DP16MFS16XMFS16-NI-AL
DP7645 - 9DP16MFS16XMFS16-NI-ETP

DP7650 - 9DP20MFS20XMFS20-Z-V
DP7651 - 9DP20MFS20XMFS20-Z-AL
DP7652 - 9DP20MFS20XMFS20-Z-ETP
DP7653 - 9DP20MFS20XMFS20-NI-V
DP7654 - 9DP20MFS20XMFS20-NI-AL
DP7655 - 9DP20MFS20XMFS20-NI-ETP
DP7663 - 9DP24MFS24XMFS24-NI-V
DP7664 - 9DP24MFS24XMFS24-NI-AL
DP7665 - 9DP24MFS24XMFS24-NI-ETP

Inline Female BSPP X Female BSPP PAGE 50

60000 - SS4FBSPP4XFBSPP4-Z-V
60001 - SS4FBSPP4XFBSPP4-Z-AL
60200 - SS6FBSPP6XFBSPP6-Z-V
60201 - SS6FBSPP6XFBSPP6-Z-AL
60300 - SS8DBFBSPP8XFBSPP8-Z-V
60301 - SS8DBFBSPP8XFBSPP8-Z-AL
60500 - SS12DBFBSPP12XBSPP12-Z-V
60501 - SS12DBFBSPP12XBSPP12-Z-AL
60600 - SS16DBFBSPP16XFBSPP16-Z-V
60601 - SS16DBFBSPP16XFBSPP16-Z-AL

60700 - SS20FBSPP20XFBSPP20-Z-V
60701 - SS20FBSPP20XFBSPP20-Z-AL
60803 - SS24FBSPP24XFBSPP24-NI-V
60804 - SS24FBSPP24XFBSPP24-NI-AL

Inline Male BSPP X Female BSPP PAGE 50

50000 - SS4MBSPP4XFBSPP4-Z-V
50001 - SS4MBSPP4XFBSPP4-Z-AL
50200 - SS6MBSPP6XFBSPP6-Z-V
50201 - SS6MBSPP6XFBSPP6-Z-AL
50300 - SS8DBMBSPP8XFBSPP8-Z-V
50301 - SS8DBMBSPP8XFBSPP8-Z-AL
50500 - SS12DBMBSPP12XFBSPP12-Z-V
50501 - SS12DBMBSPP12XFBSPP12-Z-AL
50600 - SS16DBMBSPP16XFBSPP16-Z-V
50601 - SS16DBMBSPP16XFBSPP16-Z-AL
50700 - SS20MBSPP20XFBSPP20-Z-V
50701 - SS20MBSPP20XFBSPP20-Z-AL
50803 - SS24MBSPP24XFBSPP24-NI-V
50804 - SS24MBSPP24XFBSPP24-NI-AL

90° Female BSPP X Female BSPP PAGE 51

30000 - 9SS4FBSPP4XFBSPP4-Z-V
30001 - 9SS4FBSPP4XFBSPP4-Z-AL
30200 - 9SS6FBSPP6XFBSPP6-Z-V
30201 - 9SS6FBSPP6XFBSPP6-Z-AL
30300 - 9SS8DBFBSPP8XFBSPP8-Z-V
30301 - 9SS8DBFBSPP8XFBSPP8-Z-AL
30500 - 9SS12DBFBSPP12XBSPP12-Z-V
30501 - 9SS12DBFBSPP12XBSPP12-Z-AL
30600 - 9SS16DBFBSPP16XFBSPP16-Z-V
30601 - 9SS16DBFBSPP16XFBSPP16-Z-AL
30700 - 9SS20FBSPP20XFBSPP20-Z-V
30701 - 9SS20FBSPP20XFBSPP20-Z-AL
30803 - 9SS24FBSPP24XFBSPP24-NI-V
30804 - 9SS24FBSPP24XFBSPP24-NI-AL

90° Male BSPP X Female BSPP PAGE 51

40000 - 9SS4MBSPP4XFBSPP4-Z-V
40001 - 9SS4MBSPP4XFBSPP4-Z-AL
40200 - 9SS6MBSPP6XFBSPP6-Z-V
40201 - 9SS6MBSPP6XFBSPP6-Z-AL
40300 - 9SS8DBMBSPP8XFBSPP8-Z-V
40301 - 9SS8DBMBSPP8XFBSPP8-Z-AL
40500 - 9SS12DBMBSPP12XBSPP12-Z-V
40501 - 9SS12DBMBSPP12XBSPP12-Z-AL
40600 - 9SS16DBMBSPP16XFBSPP16-Z-V
40601 - 9SS16DBMBSPP16XFBSPP16-Z-AL
40700 - 9SS20MBSPP20XFBSPP20-Z-V
40701 - 9SS20MBSPP20XFBSPP20-Z-AL
40803 - 9SS24MBSPP24XFBSPP24-NI-V
40804 - 9SS24MBSPP24XFBSPP24-NI-AL

ITEM # - DESCRIPTION

Inline Male Pipe BSPP X Male Pipe BSPP PAGE 52

51000 - SS4MBSPP4XMBSPP4-Z-V
51001 - SS4MBSPP4XMBSPP4-Z-AL
51002 - SS4MBSPP4XMBSPP4-Z-ETP
51003 - SS4MBSPP4XMBSPP4-NI-V
51004 - SS4MBSPP4XMBSPP4-NI-AL
51005 - SS4MBSPP4XMBSPP4-NI-ETP

51200 - SS6MBSPP6XMBSPP6-Z-V
51201 - SS6MBSPP6XMBSPP6-Z-AL
51203 - SS6MBSPP6XMBSPP6-NI-V
51204 - SS6MBSPP6XMBSPP6-NI-AL
51205 - SS6MBSPP6XMBSPP6-NI-ETP

51300 - SS8DBMBSPP8XMBSPP8-Z-V
51301 - SS8DBMBSPP8XMBSPP8-Z-AL
51302 - SS8DBMBSPP8XMBSPP8-Z-ETP
51303 - SS8DBMBSPP8XMBSPP8-NI-V
51304 - SS8DBMBSPP8XMBSPP8-NI-AL
51305 - SS8DBMBSPP8XMBSPP8-NI-ETP

51500 - SS12DBMBSPP12XMBSPP12-Z-V
51501 - SS12DBMBSPP12XMBSPP12-Z-AL
51502 - SS12DBMBSPP12XMBSPP12-Z-ETP
51503 - SS12DBMBSPP12XMBSPP12-NI-V
51504 - SS12DBMBSPP12XMBSPP12-NI-AL
51505 - SS12DBMBSPP12XMBSPP12-NI-ETP

51600 - SS16DBMBSPP16XMBSPP16-Z-V
51601 - SS16DBMBSPP16XMBSPP16-Z-AL
51602 - SS16DBMBSPP16XMBSPP16-Z-ETP
51603 - SS16DBMBSPP16XMBSPP16-NI-V
51604 - SS16DBMBSPP16XMBSPP16-NI-AL
51605 - SS16DBMBSPP16XMBSPP16-NI-ETP

51700 - SS20MBSPP20XMBSPP20-Z-V
51701 - SS20MBSPP20XMBSPP20-Z-AL
51702 - SS20MBSPP20XMBSPP20-Z-ETP
51703 - SS20MBSPP20XMBSPP20-NI-V
51704 - SS20MBSPP20XMBSPP20-NI-AL
51705 - SS20MBSPP20XMBSPP20-NI-ETP

51803 - SS24MBSPP24XMBSPP24-NI-V
51804 - SS24MBSPP24XMBSPP24-NI-AL
51805 - SS24MBSPP24XMBSPP24-NI-ETP

Seal Rebuilding Kits PAGE 75

3690 - SS-2-KIT-VITON

3600 - SS-4-KIT-VITON
3601 - SS-4-KIT-AFLAS
3602 - SS-4-KIT-ETP

3680 - SS-7-KIT-VITON
3681 - SS-7-KIT-AFLAS
3682 - SS-7-KIT-ETP

3610 - SS-8-KIT-VITON
3611 - SS-8-KIT-AFLAS
3612 - SS-8-KIT-ETP

3615 - SS-8-HP-KIT-VITON
3616 - SS-8-HP-KIT-AFLAS

3620 - SS-12-KIT-VITON
3621 - SS-12-KIT-AFLAS
3622 - SS-12-KIT-ETP

3630 - SS-16-KIT-VITON
3631 - SS-16-KIT-AFLAS
3632 - SS-16-KIT-ETP

3640 - SS-20-KIT-VITON
3641 - SS-20-KIT-AFLAS
3642 - SS-20-KIT-ETP

3650 - SS-24-KIT-VITON
3651 - SS-24-KIT-AFLAS
3652 - SS-24-KIT-ETP

3660 - SS-32-KIT-VITON
3661 - SS-32-KIT-AFLAS
3662 - SS-32-KIT-ETP

3670 - SS-40-KIT-VITON
3671 - SS-40-KIT-AFLAS
3672 - SS-40-KIT-ETP

ITEM # - DESCRIPTION

EXTRA Heavy DUTY™

EXTRA HEAVY DUTY INLINE

Inline Male J.I.C. (37°) X Female J.I.C. (37°) E-H-DUTY PAGE 54
15092 - SS12DBMJ12XFJ12-Z-90V

Inline Male J.I.C. (37°) X Male J.I.C. (37°)
15067 - SS12DBMJ12XMJ12-Z-90V

Inline Male J.I.C. (37°) X Female J.I.C. (37°) E-H-DUTY PAGE 55
16020 - SS16DBMJ16XFJ16-Z-90V

Inline Male J.I.C. (37°) X Male J.I.C. (37°)
16004 - SS16DBMJ16XMJ16-Z-90V

Inline Female Face Seal (F.F.S.) X Male Face Seal (M.F.S.) E-H-DUTY PAGE 56
16062 - SS16DBFFS16XMFS16-Z-90V

Inline Male Face Seal (M.F.S.) X Male Face Seal (M.F.S.)
16073 - SS16DBMFS16XMFS16-Z-90V

Inline Female Pipe (N.P.T.F) X Female Pipe (N.P.T.F) E-H-DUTY PAGE 57
16001 - SS16DBFP100XFP100-NI-90V

Inline Female Pipe (N.P.T.F) X Male J.I.C. (37°)
16110 - SS16DBFP100XMJ16-Z-90V

Inline Male J.I.C. (37°) X Female O-Ring (O.R.B.) E-H-DUTY PAGE 58
16100 - SS16DBMJ16XFO16-Z-90V

Inline Male O-Ring (O.R.B.) Female O-Ring (O.R.B.)
16107 - SS16DBMO16XFO16-Z-90V

Inline Male O-Ring (O.R.B.) X Male Face Seal (M.F.S.) E-H-DUYT PAGE 59
16074 - SS16DBMO16XMFS16-Z-90V

Inline Male J.I.C. (37°) X Male Face Seal (M.F.S.)
16084 - SS16DBMJ16XMFS16-Z-90V

Inline Male J.I.C. (37°) X Female Pipe (N.P.T.F.) E-H-DUTY PAGE 60
16014 - SS16DBMJ16XFP100-Z-90V

EXTRA HEAVY DUTY 90°

90° Female Pipe (N.P.T.F.) X Female Pipe (N.P.T.F.) E-H-DUTY PAGE 61
25100 - 9SS16DBFP100XFP100-NI-90V

90° Male J.I.C. (37°) X Female Pipe (N.P.T.F.)
25122 - 9SS16DBMJ16XFP100-Z-90V

(V) = Viton
(AL) = Aflas
(ETP) = Extreme Viton

Competitors Cross Reference Guides

Below is part of a Competitors Cross Reference Guide which is available on our website to download and refer to when making order selections.

ITEM #	S S DESCRIPTION	AEROQUIP	HYDRAULICS INC.	PARKER (PS)	SWIVEL TYPE
6430	9SS8MO10XPS50-Z-V	BD5004-0810	9S8PU8-O10		90° MALE O-RING X PIPE SWIVEL
6300	9SS4MP25XPS25-Z-V	BD55000-0404	9S6PU4-P4	PS490107-4-4	90° MALE PIPE X PIPE SWIVEL
6310	9SS8MP38XPS38-Z-V	BD55000-0606	9S6PU6-P6	PS690107-6-6	90° MALE PIPE X PIPE SWIVEL
6320	9SS8MP50XPS50-Z-V	BD55000-0808	9S8OU8-P8	PS890107-8-8	90° MALE PIPE X PIPE SWIVEL
6330	9SS12MP75XPS75-Z-V	BD55000-1212	9S12PU12-P12	PS1290107-12-12	90° MALE PIPE X PIPE SWIVEL
6340	9SS16MP100XPS100-Z-V	BD55000-1616	9S16PU16-P16	PS1290107-16-16	90° MALE PIPE X PIPE SWIVEL
6350	9SS20MP125XPS125-Z-V	BD55000-2020	9S20PU20-P20		90° MALE PIPE X PIPE SWIVEL
6393	9SS24MP150XPS150-Ni-V	BD55000-2424	9S24PU24-P24		90° MALE PIPE X PIPE SWIVEL
6570	9SS4MJ6XPS38-Z-V	BD55001-0606	9S6PU6-J6	PS690307-6-6	90° MALE JIC X PIPE SWIVEL
6510	9SS8MJ8XPS38-Z-V	BD55001-0608	9S6PU6-J8		90° MALE JIC X PIPE SWIVEL
6520	9SS8MJ8XPS50-Z-V	BD55001-0808		PS890307-8-8	90° MALE JIC X PIPE SWIVEL
6530	9SS8MJ10XPS50-Z-V	BD55001-0810	9S8PU8-J10		90° MALE JIC X PIPE SWIVEL
6540	9SS12MJ12XPS75-Z-V	BD55001-1212	9S12PU12-J12	PS1290307-12-12	90° MALE JIC X PIPE SWIVEL
6550	9SS16MJ16XPS100-Z-V	BD55001-1616	9S16PU16-J16	PS1690307-16-16	90° MALE JIC X PIPE SWIVEL
6560	9SS20MJ20XPS125-Z-V	BD55001-2020	9S20PU20-J20		90° MALE JIC X PIPE SWIVEL
6410	9SS8MO8XPS38-Z-V	BD55004-0608	9S6PU6-O8		90° MALE O-RING X PIPE SWIVEL
6420	9SS8MO8XPS50-Z-V	BD55004-0808		PS890507-8-8	90° MALE O-RING X PIPE SWIVEL
6440	9SS12MO12XPS75-Z-V	BD55004-1212	9S12PU12-O12	PS1290507-12-12	90° MALE O-RING X PIPE SWIVEL
6450	9SS16MO16XPS100-Z-V	BD55004-1616	9S16PU16-O16	PS1690507-16-16	90° MALE O-RING X PIPE SWIVEL
6460	9SS20MO20XPS125-Z-V	BD55004-2020	9S20PU20-O20		90° MALE O-RING X PIPE SWIVEL
6483	9SS24MO24XPS150-Ni-V	BD55004-2424	9S24PU24-O24		90° MALE O-RING X PIPE SWIVEL
6870	9SS4MP38XMJ6-Z-V	BD55005-0606	9S6J6-P6		90° MALE PIPE X MALE JIC
6810	9SS8MP38XMJ8-Z-V	BD55005-0806	9S6J8-P6		90° MALE PIPE X MALE JIC
6820	9SS8MP50XMJ8-Z-V	BD55005-0808		PS890103-8-8	90° MALE PIPE X MALE JIC
6830	9SS8MP50XMJ10-Z-V	BD55005-1008	9S8J10-P8		90° MALE PIPE X MALE JIC
6840	9SS12MP75XMJ12-Z-V	BD55005-1212	9S12J12-P12	PS1290103-12-12	90° MALE PIPE X MALE JIC
6850	9SS16MP100XMJ16-Z-V	BD55005-1616	9S16J16-P16	PS1690103-16-16	90° MALE PIPE X MALE JIC
6860	9SS20MP125XMJ20-Z-V	BD55005-2020	9S20J20-P20		90° MALE PIPE X MALE JIC
6883	9SS24MP150XMJ24-Ni-V	BD55005-2424	9S24J24-P24		90° MALE PIPE X MALE JIC
7000	9SS4MJ6XMJ6-Z-V	BD55009-0606	9S6J6-J6	PS690302-6-6	90° MALE JIC X MALE JIC
7010	9SS8MJ8XMJ8-Z-V	BD55009-0808	9S6J8-J8	PS890302-8-8	90° MALE JIC X MALE JIC
7020	9SS8MJ10XMJ10-Z-V	BD55009-1010	9S8J10-J10	PS890302-10-10	90° MALE JIC X MALE JIC
7030	9SS12MJ12XMJ12-Z-V	BD55009-1212	9S12J12-J12	PS1290302-12-12	90° MALE JIC X MALE JIC
7040	9SS16MJ16XMJ16-Z-V	BD55009-1616	9S16J16-J16	PS1690302-16-16	90° MALE JIC X MALE JIC
7050	9SS20MJ20XMJ20-Z-V	BD55009-2020	9S20J20-J20		90° MALE JIC X MALE JIC
7063	9SS24MJ24XMJ24-Ni-V	BD55009-2424	9S24J24-J24		90° MALE JIC X MALE JIC

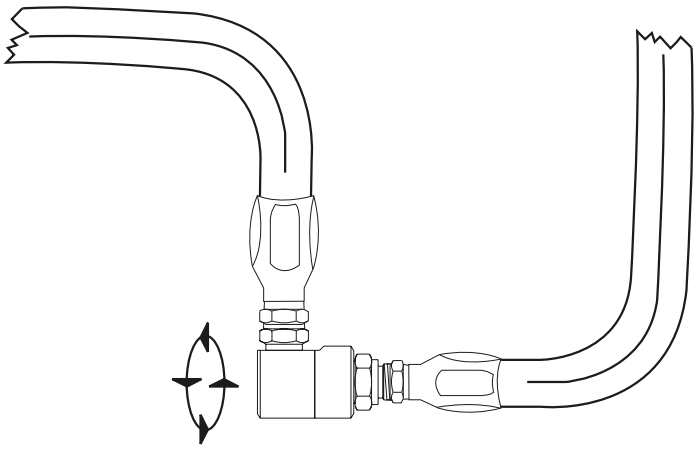
This Partial Cross Reference Refers To End Configurations Only!
Consult Catalogs For Pressure Ratings, Dimensions, Seals, Plating, Ect.

Above is a sample of a cross reference. Full listings available on web site: www.SuperSwivels.com

Super Swivels' Advantages

Simplified Connections:

- Super Swivels can connect directly to hose lines which would do away with adapters.
- Super Swivels reduce the complexity of hose lines for 90° connections.
- Less hose is required with Super Swivels live swivels reducing space needs.





Reduced Hose Twisting:

- Super Swivels live swivel action reduces risk of hose twisting and kinking even in 90° angel connections.

Less System Shock:

- The increased hose movement allowed by Super Swivels superior design reduces system rigidity and helps absorb some system impulses.

Reduce Maintenance and Downtime:

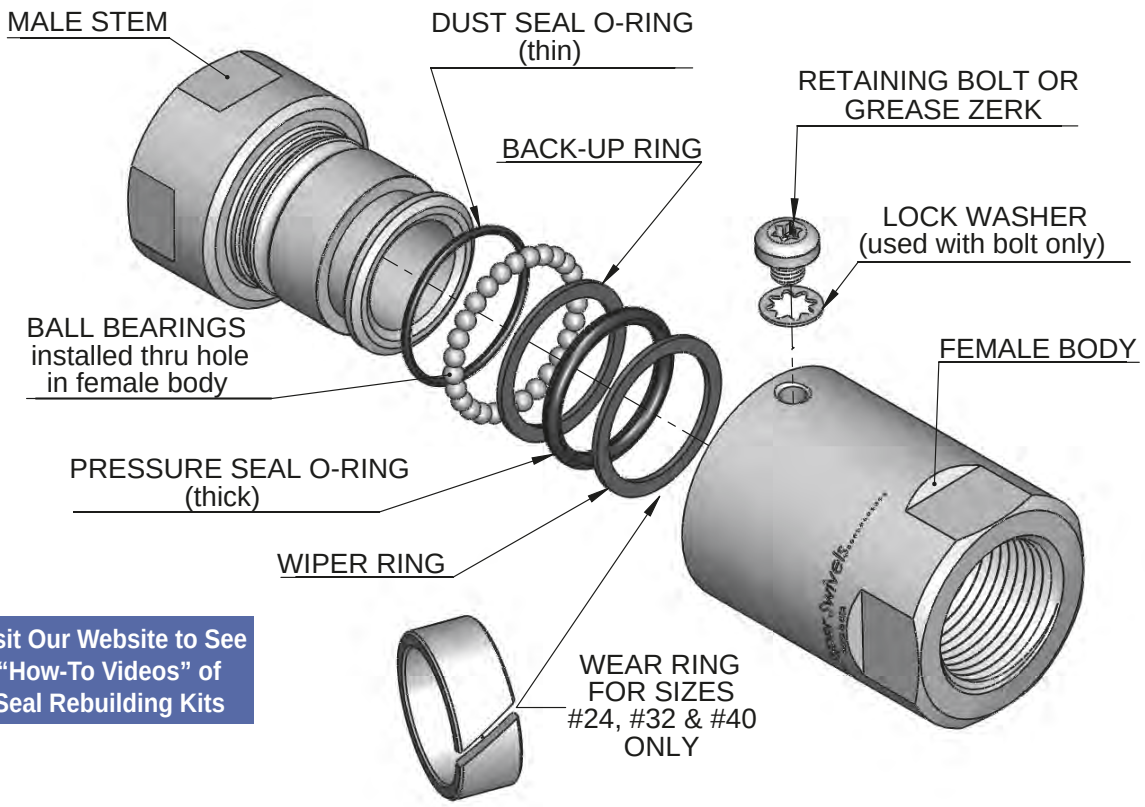
- Less hydraulic line congestion, hose kinking, shock damage and twisting means lower maintenance costs and less downtime.

Reduced Cost:

- Simplified hose configuration, less hose and adapters when combined with reduced repairs and downtime reduce the overall cost of hydraulics.



Hydraulic Inline and 90º Live Swivels Seal Rebuilding Kit Instructions



Visit Our Website to See "How-To Videos" of Seal Rebuilding Kits

1. Remove retaining bolt or grease zerk (some models have a permanent grease zerk).

2. Wash swivel in solvent and rotate while immersed to remove grease from the ball bearing groove.

3. Remove ball bearings by rotating swivel with ball loading hole pointed downward. If remaining grease in ball groove prevents balls from falling free when centered over loading hole, tap swivel on work bench with loading hole facing down on bench.

4. With all ball bearings removed (check by rotating while looking into ball loading hole), pull the two halves apart and discard old rings, ball bearings and seals.

5. Clean and dry swivel thoroughly, install new seal and wear rings when required, and lubricate the female bore and male outside diameter before assembly. Load retainer ball bearings and install grease zerk (a temporary zerk is provided for models with a retaining bolt). Use lithium based grease with moly (do not over grease).

Note: The temporary grease zerk must be removed and replaced with the original retaining bolt and new lock washer on swivels which didn't originally have a permanent grease zerk.

Seal Rebuilding Kits Item Number/Part Number... Page 72

Switch Your Swivel!®

We Thrive Under Pressure

Custom Design Live Swivels

Inline • 90° • Dual Plane



THOUSANDS OF SWIVEL OPTIONS

Our heat treating process and patented design enables higher working pressure ratings. Super Swivels are engineered for simplified connections, allowing direct connections to hose lines doing away with adapters.

Super Swivels live swivel action reduces risk of hose twisting and kinking even in 90º angel connections. This simplification reduces the complication of hose line connections so less hose is required, and reducing space needs. The increased hose movement allowed by Super Swivels' superior design reduces system rigidity and helps to absorb system impulses. Less hydraulic line congestion, reduced hose kinking, lower risk of shock damage and twisting which means lower maintenance costs and less downtime.

By engineering the best heavy duty and compact live swivel designs Super Swivels allows manufactures to create the most efficient and smallest products possible. The design and reliability features allow for the most efficient aftermarket modifications and repairs.

Swivel stems will fit into any body of the same series, creating many combinations not listed in our catalogs. Our expansive options with the added possibilities of our custom design service makes your opportunities nearly limitless.

Base Material and Plating includes: Zinc or Nickel Plated Carbon Steel, or 304 and 440c Stainless Steel (in Pipe Thread Only).

Seal Material includes: (V) Viton® (Fluorocarbon), (AL) Aflas® (Tetrafluoroethylene-propylene copolymer), (ETP) Extreme Viton®. Other seals available upon request: Buna, EPR, Neoprene and Markez®.

Switch Your Swivel!®

WARRANTY & LIMITATION OF LIABILITY

Super Swivels® products are warranted for a period of twelve (12) months from date of shipment from seller's plant to be free from defects in material and workmanship under correct use, normal operating conditions, and proper application.

CAR WASH / CORROSIVE MEDIA APPLICATIONS. SEALS WILL BE WARRANTED FOR SIX (6) MONTHS WHEN USED WITH FRESH, CLEAN, SOFT, FLUIDS WITH A ph BETWEEN 8 -11.5. SEALS WILL BE WARRANTED FOR THREE (3) MONTHS WHEN USED WITH ANY RECLAIMED FLUIDS. MINIMUM FILTRATION REQUIREMENTS, 10 MICRONS. WARRANTY VOIDED IF SPECIFIED R.P.M. EXCEEDED.

Seller's obligation under this warranty shall be limited to the repair or exchange, at seller's option, F.O.B. seller's factory, of any Super Swivels® product or part which proves to be defective as provided herein. Seller reserves the right to either inspect the product at buyer's location or require it to be returned to the factory for inspection. The above warranty does not extend to goods damaged, or subjected to accident, abuse, or misuse after shipment from seller's factory, nor to goods altered or repaired by anyone other than authorized Super Swivels® representatives.

SELLER MAKES NO EXPRESS WARRANTIES OTHER THAN THOSE WHICH ARE SPECIFICALLY DESCRIBED HEREIN. Any description of the goods sold hereunder, including any references to buyer's specifications and any descriptions in catalogs, circulars and other written material published by Seller is for the sole purpose of identifying such goods and shall not create an express warranty that the goods shall conform to such description. Any sample or model is for illustrative purposes only and shall not create any express warranty that the goods shall conform to the sample or model. BUYER IS SOLELY RESPONSIBLE FOR DETERMINING THE SUITABILITY OF GOODS SOLD HEREUNDER FOR USE BY BUYER.

THE SUITABILITY OF GOODS SOLD HEREUNDER FOR USE BY BUYER. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED. THERE ARE NO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THIS WARRANTY STATES SELLERS ENTIRE AND EXCLUSIVE LIABILITY AND BUYERS EXCLUSIVE REMEDY FOR ANY CLAIM FOR DAMAGES IN CONNECTION WITH THE SALE OF FURNISHINGS OF SUPER SWIVELS® PRODUCTS, THEIR DESIGN, SUITABILITY FOR USE, INSTALLATION OR OPERATION, OR FOR ANY CLAIMED DEFECTS HEREIN. SELLER WILL IN NO EVENT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES WHATSOEVER, NOR FOR ANY SUM IN EXCESS OF THE PRICE RECEIVED FOR THE GOODS FOR WHICH LIABILITY IS CLAIMED.

SUPER SWIVELS® ARE NOT DESIGNED FOR AND SHOULD NOT BE USED AS A STRUCTURAL OR LOAD BEARING COMPONENT. ALL DIMENSIONAL INFORMATION SUBJECT TO CHANGE WITHOUT NOTICE.

Super Swivels®

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90° Swivels
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Dual Plane Swivels
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BSPP Swivels
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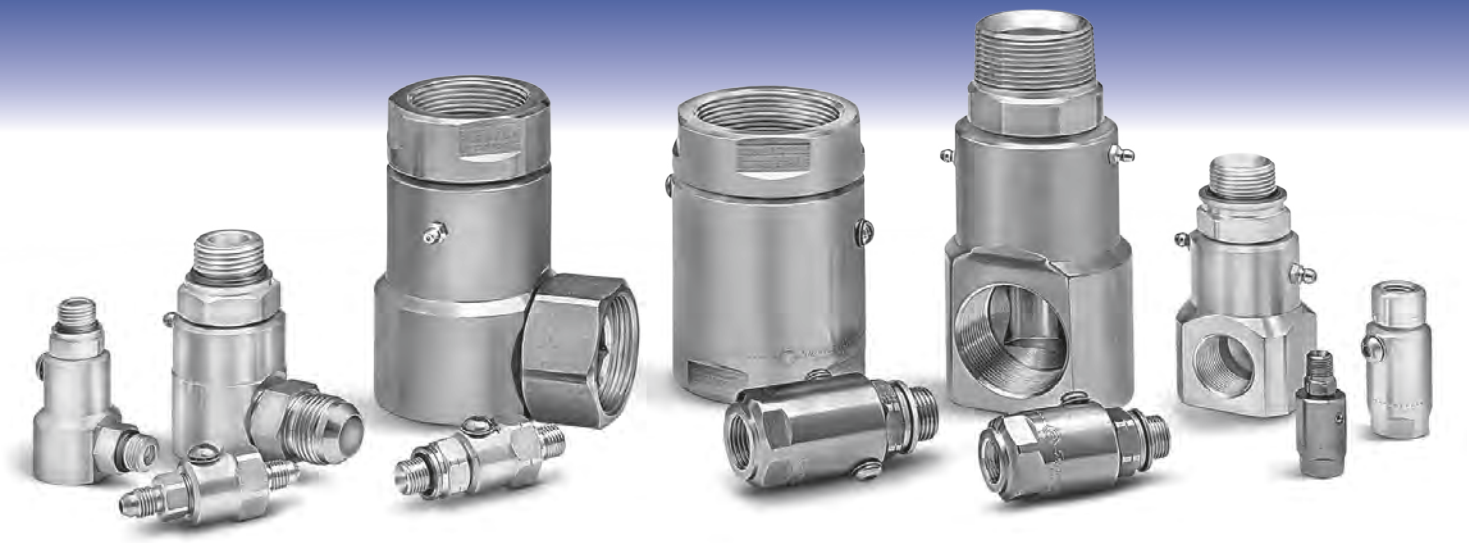


Extra Heavy Duty Swivels
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Switch Your Swivel!®

SuperSwivels®



Inline & 90° Hydraulic Live Swivels

- Available In Sizes From 1/8" Through 2 1/2"
- Rated To 10,000 P.S.I.
- Heat Treated
- Rebuilding Kits Available
- Superior Quality Alloy Steel
- Side Load Resistant
- Full Flow — Low Pressure Drop
- Burnished (Micro Smooth) Barrel Bores
- Chrome Or Stainless Steel Ball Bearings
- Viton,® Viton Extreme,® Aflas,® Markez,® Buna, Or EPDM Seals
- Available in 304 & 440c Stainless Steel (pipe thread only)



Quality Products Made In The U.S.A., Patent No. 5547233

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Email: sales@superswivels.com Fax: 763-784-7423

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