

Introduction

The design and manufacturing processes vital to a swivel's quality are the cornerstone of the Quick Coupling Division's day to day operations. The PS Series Swivel is designed to meet the application needs and performance requirements of the market. Pressure capabilities up to 5000 psi, 1/4" through 2" body sizes, a variety of port options, zinc with yellow chromate or nickel plating and a wide range of seal options make the PS Series Swivels ideal for an array of dynamic applications.



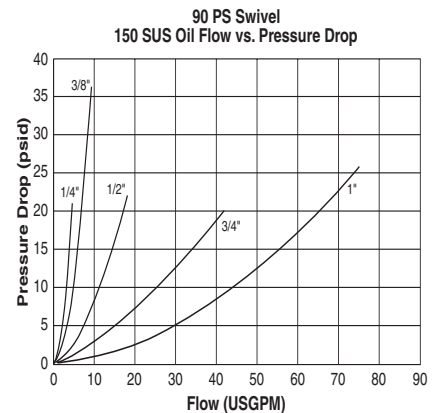
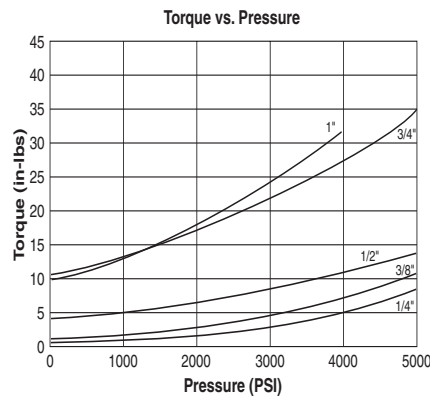
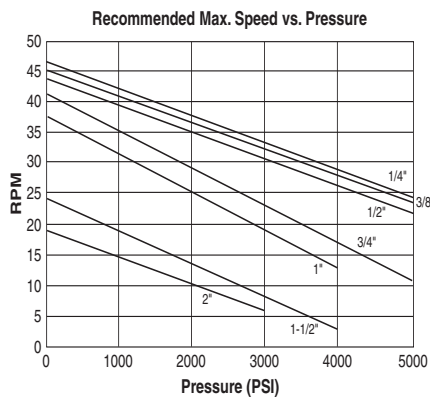
Features

- Hardened bearing races for extended service life.
- Full flow design minimizes pressure drop for optimum system performance.
- Sealed bearing design isolates bearing race from media and environment.
- Reduced bearing load design minimizes wear in the bearing race and extends service life.
- PTFE back-up rings support primary seal for high-pressure applications.
- Zinc with yellow chromate plating for maximum corrosion resistance.
- Variety of seal options available.
- Three piece swivel design for sizes 1 1/4" through 2" for superior performance and service life.
- Precision needle bearings and ball bearings sized 1 1/4" through 2" for additional side load resistance.
- Polyurethane U-Cup primary seal standard for sizes 1 1/4" through 2".
- PS Series Swivels eliminate hose twist and torque that may cause premature hose failure.

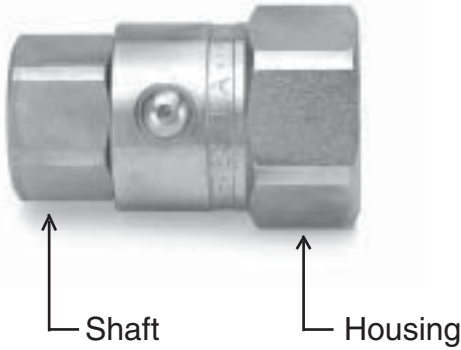
Specifications

Body Size (in.)	1/4	3/8	1/2	3/4	1	1-1/4	1-1/2	2
Maximum Rated Pressure (PSI)	5000	5000	5000	5000	5000	4000	4000	3000
<i>Except the following port options in the noted size</i>								
03 (Male JIC 37°)							3000	2000
05 (Male SAE O-Ring Boss)								2500
06 (Female JIC 37°) 90° Housing Port				4000	3000	3000	2500	2000
06 (Female JIC 37°) In-Line Housing Port							3000	2000
07 (Female NPSM)			4600	3000	2600	2100	1650	1500
Temperature Range (std seals)	-40° to 250° F					-30° to 180° F		

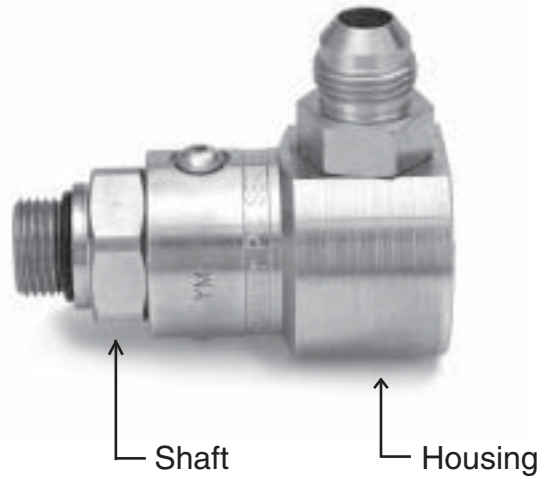
Performance Data



In-Line Swivels

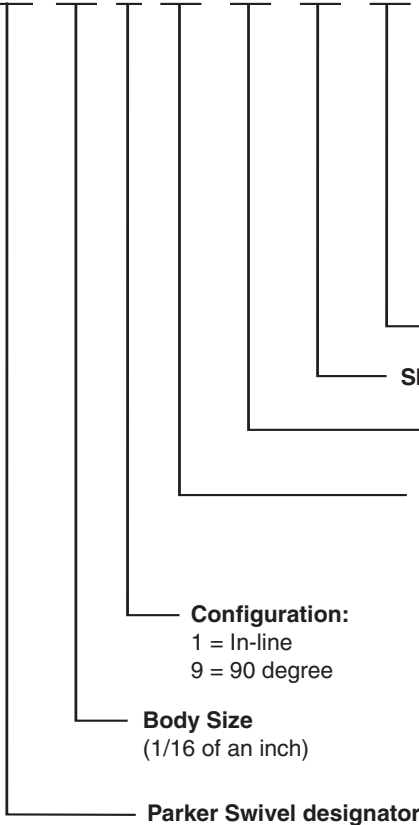


90° Swivels



PS Part Number:

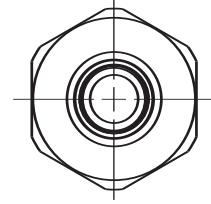
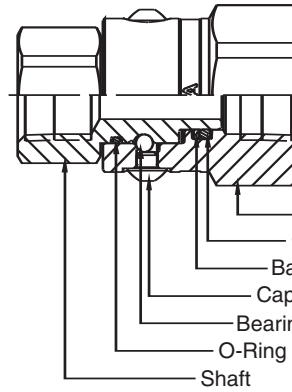
PS 16 1 02 02-16-16 Y-



- Material and Finish:**
 - Blank = Carbon Steel w/Zinc & Yellow Chromate Plating (Std.)
 - NI = Carbon Steel with Electroless Nickel Plating*
 - S3 = 303 Stainless Steel Passivated*
 - S6 = 316 Stainless Steel Electropolished*
- Housing Port Configuration:**
 - 01 = Male NPTF(Non-Standard)*
 - 02 = Female NPTF
 - 03 = Male JIC 37 Degree
 - 05 = Male SAE O-Ring Straight Thread
 - 06 = Female JIC 37 Degree
 - 07 = Female NPSM Pipe Swivel
 - 10 = Female SAE Straight Thread
 - JM = Male Seal-Lok

*Contact Division for price and delivery
[†] On -24 and -32 sizes, Polyurethane U-Cup Seal is standard.
^{††} For -20 Ports, -24 Body is used.

D Swivels



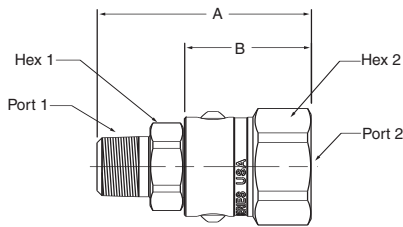
Housing
O-Ring
Back-up Ring
Cap Screw
Bearing
O-Ring
Shaft

Materials Of Construction

Housing*:Carbon Steel
 Shaft*:Carbon Steel
 Plating*:Zinc with Yellow Chromate
 Bearing*:Chrome
 O-Rings*:Nitrile
 Back-Up Ring:.....PTFE

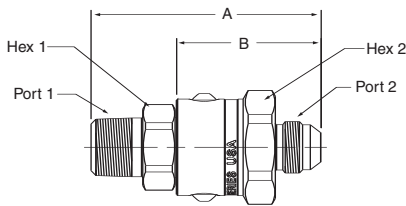
* See How-To-Order for optional material, plating, and seals.

Male Pipe - Female Pipe



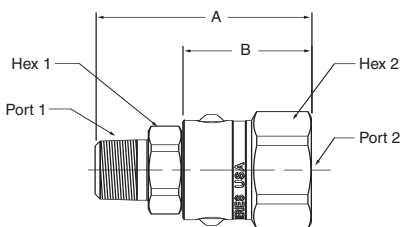
Part Number	A	B	Hex 1	Hex 2	Port 1	Port 2
PS410102-4-4	2.59" 65.8 mm	1.60" 40.6 mm	.75" 19.0 mm	1.19" 30.2 mm	1/4-18 NPTF	1/4-18 NPTF
PS610102-6-6	2.66" 67.5 mm	1.64" 41.7 mm	.88" 22.2 mm	1.31" 33.3 mm	3/8-18 NPTF	3/8-18 NPTF
PS810102-8-8	3.03" 76.8 mm	1.79" 45.5 mm	1.12" 28.6 mm	1.50" 36.5 mm	1/2-14 NPTF	1/2-14 NPTF
PS1210102-12-12	3.10" 78.8 mm	1.85" 47.0 mm	1.38" 35.0 mm	1.69" 42.9 mm	3/4-14 NPTF	3/4-14 NPTF
PS1610102-16-16	3.54" 89.8 mm	2.11" 53.5 mm	1.62" 41.3 mm	1.88" 47.6 mm	1-11 1/2 NPTF	1-11 1/2 NPTF

Male Pipe - Male 37° Flare



Part Number	A	B	Hex 1	Hex 2	Port 1	Port 2
PS410103-4-4	2.86" 72.6 mm	1.87" 47.5 mm	.75" 19.0 mm	1.19" 30.2 mm	1/4-18 NPTF	7/16-20 UNF-2A
PS610103-6-6	2.92" 74.1 mm	1.90" 48.3 mm	.88" 22.2	1.31" 33.3 mm	3/8-18 NPTF	9/16-18 UNF-2A
PS810103-8-8	3.33" 84.5 mm	2.09" 53.1 mm	1.12" 28.6 mm	1.50" 36.5 mm	1/2-14 NPTF	3/4-16 UNF-2A
PS1210103-12-12	3.55" 90.3 mm	2.30" 58.4 mm	1.38" 35.0 mm	1.69" 42.9 mm	3/4-14 NPTF	1-1/16-12 UN-2A
PS1610103-16-16	3.88" 98.6 mm	2.45" 62.2 mm	1.62" 41.3 mm	1.88" 47.6 mm	1-11 1/2 NPTF	1-5/16-12 UN-2A

Male Pipe - Female 37° Flare



Part Number	A	B	Hex 1	Hex 2	Port 1	Port 2
PS410106-4-4	2.72" 69.1 mm	1.73" 43.9 mm	.75" 19.0 mm	1.19" 30.2 mm	1/4-18 NPTF	7/16-20 UNF-2B
PS610106-6-6	2.77" 70.3 mm	1.75" 44.5 mm	.88" 22.2 mm	1.31" 33.3 mm	3/8-18 NPTF	9/16-18 UNF-2B
PS810106-8-8	3.05" 77.3 mm	1.81" 46.0 mm	1.12" 28.6 mm	1.50" 36.5 mm	1/2-14 NPTF	3/4-16 UNF-2B
PS1210106-12-12	3.27" 83.2 mm	2.02" 51.3 mm	1.38" 35.0 mm	1.69" 42.9 mm	3/4-14 NPTF	1-1/16-12 UN-2B
PS1610106-16-16	3.62" 92.0 mm	2.19" 55.6 mm	1.62" 41.3 mm	1.88" 47.6 mm	1-11 1/2 NPTF	1-5/16-12 UN-2B

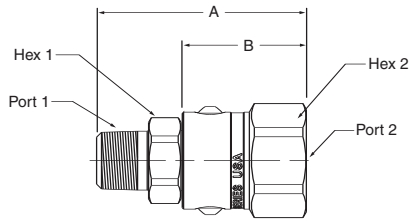


D Swivels

Swivels

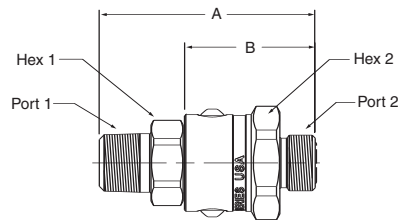
In-Line PS Series

Male Pipe - Female SAE Straight Thread



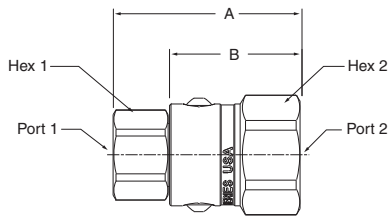
Part Number	A	B	Hex 1	Hex 2	Port 1	Port 2
PS410110-4-4	2.71" 68.8 mm	1.72" 43.7 mm	.75" 19.0 mm	1.19" 30.2 mm	1/4-18 NPTF	7/16-20 UNF-2B
PS610110-6-6	2.74" 69.6 mm	1.72" 43.7 mm	.88" 22.2 mm	1.31" 33.3 mm	3/8-18 NPTF	9/16-18 UNF-2B
PS810110-8-8	3.03" 76.8 mm	1.79" 45.5 mm	1.12" 28.6 mm	1.50" 36.5 mm	1/2-14 NPTF	3/4-16 UNF-2B
PS1210110-12-12	3.33" 84.7 mm	2.08" 52.8 mm	1.38" 35.0 mm	1.69" 42.9 mm	3/4-14 NPTF	1-1/16-12 UN-2B
PS1610110-16-16	3.63" 92.2 mm	2.20" 55.9 mm	1.62" 41.3 mm	1.88" 47.6 mm	1-11 1/2 NPTF	1-5/16-20 UN-2B

Male Pipe - O-Ring Face Seal



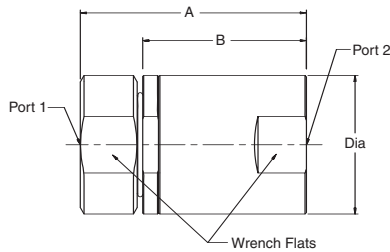
Part Number	A	B	Hex 1	Hex 2	Port 1	Port 2
PS4101JM-4-4	2.74" 69.6 mm	1.75" 44.5 mm	.75" 19.0 mm	1.19" 30.2 mm	1/4-18 NPTF	9/16-18 UNF-2A
PS6101JM-6-6	2.77" 70.3 mm	1.75" 44.5 mm	.88" 22.2 mm	1.31" 33.3 mm	3/8-18 NPTF	11/16-16 UN-2A
PS8101JM-8-8	3.14" 79.6 mm	1.90" 48.3 mm	1.12" 28.6 mm	1.50" 36.5 mm	1/2-14 NPTF	13/16-16 UN-2A
PS12101JM-12-12	3.34" 84.9 mm	2.09" 53.1 mm	1.38" 35.0 mm	1.69" 42.9 mm	3/4-14 NPTF	1-3/16-12 UN-2A
PS16101JM-16-16	3.63" 92.2 mm	2.20" 55.9 mm	1.62" 41.3 mm	1.88" 47.6 mm	1-11 1/2 NPTF	1-7/16-16 UN-2A

Female Pipe - Female Pipe



Part Number	A	B	Hex 1	Hex 2	Port 1	Port 2
PS410202-4-4	2.16" 54.9 mm	1.60" 40.6 mm	.75" 19.0 mm	1.19" 30.2 mm	1/4-18 NPTF	1/4-18 NPTF
PS610202-6-6	2.30" 58.3 mm	1.64" 41.7 mm	.88" 22.2 mm	1.31" 33.3 mm	3/8-18 NPTF	3/8-18 NPTF
PS810202-8-8	2.56" 65.0 mm	1.79" 45.5 mm	1.12" 28.6 mm	1.50" 36.5 mm	1/2-14 NPTF	1/2-14 NPTF
PS1210202-12-12	2.88" 73.1 mm	1.85" 47.0 mm	1.38" 35.0 mm	1.69" 42.9 mm	3/4-14 NPTF	3/4-14 NPTF
PS1610202-16-16	3.16" 80.1 mm	2.11" 53.5 mm	1.62" 41.3 mm	1.88" 47.6 mm	1-11 1/2 NPTF	1-11 1/2 NPTF

3 Piece Design

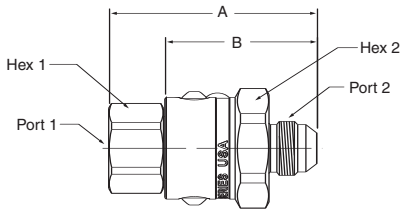


Part Number	A	B	Wrench Flats	Dia.	Port 1	Port 2
PS2410202-20-20	4.67" 118.6 mm	3.38" 85.9 mm	2.63" 66.7 mm	2.88" 73.0 mm	1 1/4-11 1/2 NPTF	1 1/4-11 1/2 NPTF
PS2410202-24-24	4.67" 118.6 mm	3.38" 85.9 mm	2.63" 66.7 mm	2.88" 73.0 mm	1 1/2-11 1/2 NPTF	1 1/2-11 1/2 NPTF
PS3210202-32-32	4.88" 123.9 mm	3.58" 90.8 mm	3.06" 77.6 mm	3.35" 85.1 mm	2-11 1/2 NPTF	2-11 1/2 NPTF

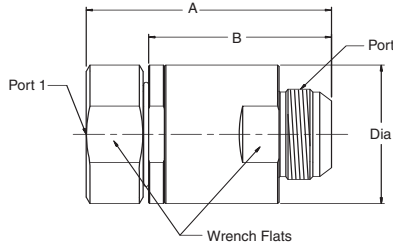
Swivels

In-Line PS Series

Female Pipe - Male 37° Flare



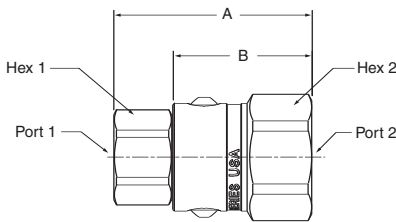
3 Piece Design



Part Number	A	B	Hex 1	Hex 2	Port 1	Port 2
PS410203-4-4	2.43" 61.7 mm	1.87" 47.5 mm	.75" 19.0 mm	1.19" 30.2 mm	1/4-18 NPTF	7/16-20 UNF-2A
PS610203-6-6	2.56" 65.0 mm	1.90" 48.3 mm	.88" 22.2 mm	1.31" 33.3 mm	3/8-18 NPTF	9/16-18 UNF-2A
PS810203-8-8	2.86" 72.7 mm	2.09" 53.1 mm	1.12" 28.6 mm	1.50" 36.5 mm	1/2-14 NPTF	3/4-16 UNF-2A
PS1210203-12-12	3.33" 84.5 mm	2.30" 58.4 mm	1.38" 35.0 mm	1.69" 42.9 mm	3/4-14 NPTF	1-1/16-12 UN-2A
PS1610203-16-16	3.50" 88.9 mm	2.45" 62.2 mm	1.62" 41.3 mm	1.88" 47.6 mm	1-11 1/2 NPTF	1-5/16-12 UN-2A

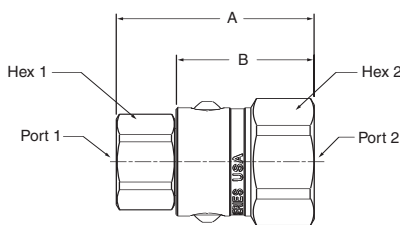
Part Number	A	B	Wrench Flats	Dia.	Port 1	Port 2
PS2410203-20-20	5.06" 128.6 mm	3.78" 95.9 mm	2.63" 66.7 mm	2.88" 73.0 mm	1 1/4-11 1/2 NPTF	1 5/8-12 UN-2A
PS2410203-24-24	5.06" 128.6 mm	3.78" 95.9 mm	2.63" 66.7 mm	2.88" 73.0 mm	1 1/2-11 1/2 NPTF	1 7/8-12 UN-2A
PS3210203-32-32	5.58" 141.7 mm	4.28" 108.6 mm	3.06" 77.6 mm	3.35" 85.1 mm	2-11 1/2 NPTF	2 1/2-12 UN-2A

Female Pipe - Female 37° Flare



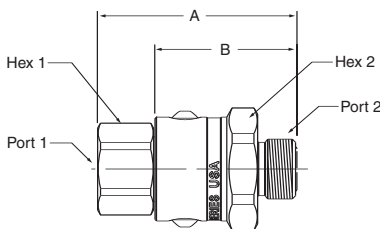
Part Number	A	B	Hex 1	Hex 2	Port 1	Port 2
PS410206-4-4	2.29" 58.2 mm	1.73" 43.9 mm	.75" 19.0 mm	1.19" 30.2 mm	1/4-18 NPTF	7/16-20 UNF-2B
PS610206-6-6	2.41" 61.1 mm	1.75" 44.5 mm	.88" 22.2 mm	1.31" 33.3 mm	3/8-18 NPTF	9/16-18 UNF-2B
PS810206-8-8	2.58" 65.6 mm	1.81" 46.0 mm	1.12" 28.6 mm	1.50" 36.5 mm	1/2-14 NPTF	3/4-16 UNF-2B
PS1210206-12-12	3.05" 77.4 mm	2.02" 51.3 mm	1.38" 35.0 mm	1.69" 42.9 mm	3/4-14 NPTF	1-1/16-12 UN-2B
PS1610206-16-16	3.24" 82.3 mm	2.19" 55.6 mm	1.62" 41.3 mm	1.88" 47.6 mm	1-11 1/2 NPTF	1-5/16-12 UN-2B

Female Pipe - Female SAE Straight Thread



Part Number	A	B	Hex 1	Hex 2	Port 1	Port 2
PS410210-4-4	2.28" 57.9 mm	1.72" 43.7 mm	.75" 19.0 mm	1.19" 30.2 mm	1/4-18 NPTF	7/16-20 UNF-2B
PS610210-6-6	2.38" 60.4 mm	1.72" 43.7 mm	.88" 22.2 mm	1.31" 33.3 mm	3/8-18 NPTF	9/16-18 UNF-2B
PS810210-8-8	2.56" 65.0 mm	1.79" 45.5 mm	1.12" 28.6 mm	1.50" 36.5 mm	1/2-14 NPTF	3/4-16 UNF-2B
PS1210210-12-12	3.11" 78.9 mm	2.08" 52.8 mm	1.38" 35.0 mm	1.69" 42.9 mm	3/4-14 NPTF	1-1/16-12 UN-2B
PS1610210-16-16	3.25" 82.6 mm	2.20" 55.9 mm	1.62" 41.3 mm	1.88" 47.6 mm	1-11 1/2 NPTF	1-5/16-20 UN-2B

Female Pipe - O-Ring Face Seal

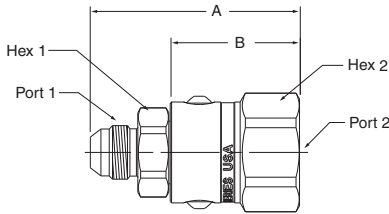


Part Number	A	B	Hex 1	Hex 2	Port 1	Port 2
PS4102JM-4-4	2.31" 58.7 mm	1.75" 44.5 mm	.75" 19.0 mm	1.19" 30.2 mm	1/4-18 NPTF	9/16-18 UNF-2A
PS6102JM-6-6	2.41" 61.1 mm	1.75" 44.5 mm	.88" 22.2 mm	1.31" 33.3 mm	3/8-18 NPTF	11/16-16 UN-2A
PS8102JM-8-8	2.67" 67.9 mm	1.90" 48.3 mm	1.12" 28.6 mm	1.50" 36.5 mm	1/2-14 NPTF	13/16-16 UN-2A
PS12102JM-12-12	3.12" 79.2 mm	2.09" 53.1 mm	1.38" 35.0 mm	1.69" 42.9 mm	3/4-14 NPTF	1-3/16-12 UN-2A
PS16102JM-16-16	3.25" 82.6 mm	2.20" 55.9 mm	1.62" 41.3 mm	1.88" 47.6 mm	1-11 1/2 NPTF	1-7/16-12 UN-2A

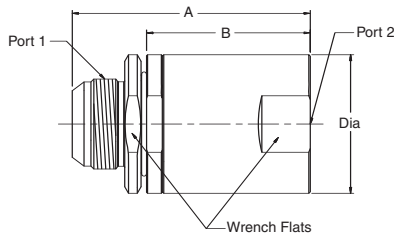
Swivels

In-Line PS Series

Male 37° Flare - Female Pipe



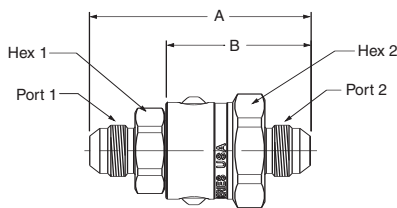
3 Piece Design



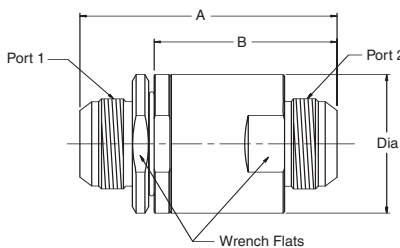
Part Number	A	B	Hex 1	Hex 2	Port 1	Port 2
PS410302-4-4	2.59" 65.8 mm	1.60" 40.6 mm	.75" 19.0 mm	1.19" 30.2 mm	7/16-20 UNF-2A	1/4-18 NPTF
PS610302-6-6	2.66" 67.5 mm	1.64" 41.7 mm	.88" 22.2 mm	1.31" 33.3 mm	9/16-18 UNF-2A	3/8-18 NPTF
PS810302-8-8	2.89" 73.5 mm	1.79" 45.5 mm	1.12" 28.6 mm	1.50" 36.5 mm	3/4-16 UNF-2A	1/2-14 NPTF
PS1210302-12-12	3.21" 81.5 mm	1.85" 47.0 mm	1.38" 35.0 mm	1.69" 42.9 mm	1-1/16-12 UN-2A	3/4-14 NPTF
PS1610302-16-16	3.54" 89.8 mm	2.11" 53.5 mm	1.62" 41.3 mm	1.88" 47.6 mm	1-5/16-12 UN-2A	1-11 1/2 NPTF

Part Number	A	B	Wrench Flats	Dia.	Port 1	Port 2
PS2410302-20-20	4.91" 124.8 mm	3.38" 85.9 mm	2.63" 66.7 mm	2.88" 73.0 mm	1 5/8-12 UN-2A	1 1/4-11 1/2 NPTF
PS2410302-24-24	4.91" 124.8 mm	3.38" 85.9 mm	2.63" 66.7 mm	2.88" 73.0 mm	1 7/8-12 UN-2A	1 1/2-11 1/2 NPTF
PS3210302-32-32	5.50" 139.8 mm	3.58" 90.8 mm	3.06" 77.6 mm	3.35" 85.1 mm	2 1/2-12 UN-2A	2-11 1/2 NPTF

Male 37° Flare - Male 37° Flare



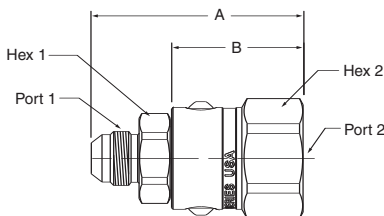
3 Piece Design



Part Number	A	B	Hex 1	Hex 2	Port 1	Port 2
PS410303-4-4	2.86" 72.6 mm	1.87" 47.5 mm	.75" 19.0 mm	1.19" 30.2 mm	7/16-20 UNF-2A	7/16-20 UNF-2A
PS610303-6-6	2.92" 74.1 mm	1.90" 48.3 mm	.88" 22.2 mm	1.31" 33.3 mm	9/16-18 UNF-2A	9/16-18 UNF-2A
PS810303-8-8	3.19" 81.1 mm	2.09" 53.1 mm	1.12" 28.6 mm	1.50" 36.5 mm	3/4-16 UNF-2A	3/4-16 UNF-2A
PS810303-10-10	3.39" 86.2 mm	2.19" 55.6 mm	1.12" 28.6 mm	1.50" 36.5 mm	7/8-14 UNF-2A	7/8-14 UNF-2A
PS1210303-12-12	3.66" 92.9 mm	2.30" 58.4 mm	1.38" 35.0 mm	1.69" 42.9 mm	1-1/16-12 UN-2A	1-1/16-12 UN-2A
PS1610303-16-16	3.88" 98.6 mm	2.45" 62.2 mm	1.62" 41.3 mm	1.88" 47.6 mm	1-5/16-12 UN-2A	1-5/16-12 UN-2A

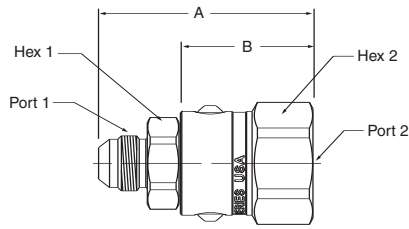
Part Number	A	B	Wrench Flats	Dia.	Port 1	Port 2
PS2410303-20-20	5.31" 134.8 mm	3.78" 95.9 mm	2.63" 66.7 mm	2.88" 73.0 mm	1 5/8-12 UN-2A	1 5/8-12 UN-2A
PS2410303-24-24	5.31" 134.8 mm	3.78" 95.9 mm	2.63" 66.7 mm	2.88" 73.0 mm	1 7/8-12 UN-2A	1 7/8-12 UN-2A
PS3210303-32-32	6.20" 157.5 mm	4.28" 108.6 mm	3.06" 77.6 mm	3.35" 85.1 mm	2 1/2-12 UN-2A	2 1/2-12 UN-2A

Male 37° Flare - Female 37° Flare

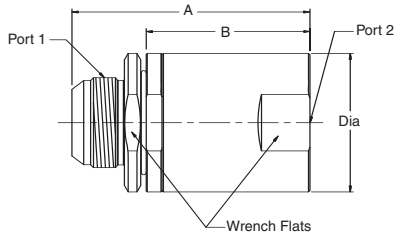


Part Number	A	B	Hex 1	Hex 2	Port 1	Port 2
PS410306-4-4	2.72" 69.1 mm	1.73" 43.9 mm	.75" 19.0 mm	1.19" 30.2 mm	7/16-20 UNF-2A	7/16-20 UNF-2B
PS610306-6-6	2.77" 70.3 mm	1.75" 44.5 mm	.88" 22.2 mm	1.31" 33.3 mm	9/16-18 UNF-2A	9/16-18 UNF-2B
PS810306-8-8	2.91" 74.0 mm	1.81" 46.0 mm	1.12" 28.6 mm	1.50" 36.5 mm	3/4-16 UNF-2A	3/4-16 UNF-2B
PS1210306-12-12	3.38" 85.8 mm	2.02" 51.3 mm	1.38" 35.0 mm	1.69" 42.9 mm	1-1/16-12 UN-2A	1-1/16-12 UN-2B
PS1610306-16-16	3.62" 92.0 mm	2.19" 55.6 mm	1.62" 41.3 mm	1.88" 47.6 mm	1-5/16-12 UN-2A	1-5/16-12 UN-2B

Male 37° Flare - Female SAE Straight Thread



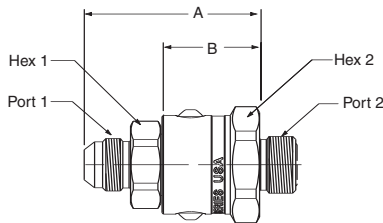
3 Piece Design



Part Number	A	B	Hex 1	Hex 2	Port 1	Port 2
PS410310-4-4	2.71" 68.8 mm	1.72" 43.7 mm	.75" 19.0 mm	1.19" 30.2 mm	7/16-20 UNF-2A	7/16-20 UNF-2B
PS610310-6-6	2.74" 69.6 mm	1.72" 43.7 mm	.88" 22.2 mm	1.31" 33.3 mm	9/16-18 UNF-2A	9/16-18 UNF-2B
PS810310-8-8	2.89" 73.5 mm	1.79" 45.5 mm	1.12" 28.6 mm	1.50" 36.5 mm	3/4-16 UNF-2A	3/4-16 UNF-2B
PS1210310-12-12	3.44" 87.3 mm	2.08" 52.8 mm	1.38" 35.0 mm	1.69" 42.9 mm	1-1/16-12 UN-2A	1-1/16-12 UN-2B
PS1610310-16-16	3.63" 92.2 mm	2.20" 55.9 mm	1.62" 41.3 mm	1.88" 47.6 mm	1-5/16-12 UN-2A	1-5/16-12 UN-2B

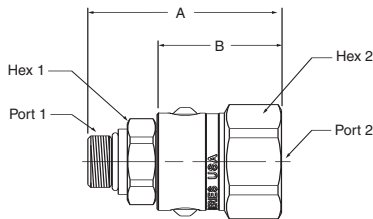
Part Number	A	B	C	D	Dia.	Wrench Flats	Port 1	Port 2
PS2410310-20-20	6.16" 150.2 mm	4.63" 117.5 mm	3.43" 87.0 mm	1.27" 32.3 mm	2.63" 66.7 mm	3.36" 85.2 mm	1 5/8-12 UN-2A	1 5/8-12 UN-2B
PS2410310-24-24	6.16" 150.2 mm	4.63" 117.5 mm	3.43" 87.0 mm	1.27" 32.3 mm	2.63" 66.7 mm	3.36" 85.2 mm	17/8-12 UN-2A	17/8-12 UN-2B
PS3210310-32-32	7.38" 187.4 mm	5.45" 138.4 mm	3.93" 99.7 mm	1.52" 38.5 mm	3.06" 77.6 mm	4.19" 106.4 mm	2 1/2-12 UN-2A	2-1/2-12 UN-2B

Male 37° Flare - O-Ring Face Seal



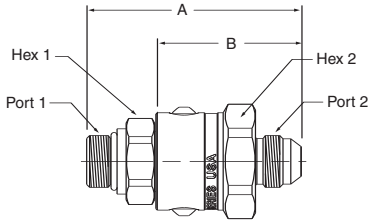
Part Number	A	B	Hex 1	Hex 2	Port 1	Port 2
PS4103JM-4-4	2.74" 69.6 mm	1.75" 44.5 mm	.75" 19.0 mm	1.19" 30.2 mm	7/16-20 UNF-2A	9/16-18 UNF-2A
PS6103JM-6-6	2.77" 70.3 mm	1.75" 44.5 mm	.88" 22.2 mm	1.31" 33.3 mm	9/16-18 UNF-2A	11/16-18 UNF-2A
PS8103JM-8-8	3.00" 76.3 mm	1.90" 48.3 mm	1.12" 28.6 mm	1.50" 36.5 mm	3/4-16 UNF-2A	13/16-16 UNF-2A
PS8103JM-10-10	3.20" 81.2 mm	1.99" 50.5 mm	1.12" 28.6 mm	1.50" 36.5 mm	7/8-14 UNF-2A	7/8-14 UNF-2A
PS12103JM-12-12	3.45" 87.6 mm	2.09" 53.1 mm	1.38" 35.0 mm	1.69" 42.9 mm	1-1/16-12 UN-2A	1-3/16-12 UN-2A
PS16103JM-16-16	3.63" 92.2 mm	2.20" 55.9 mm	1.62" 41.3 mm	1.88" 47.6 mm	1-5/16-12 UN-2A	1-7/16-12 UN-2A

Male SAE O-Ring Straight Thread - Female Pipe



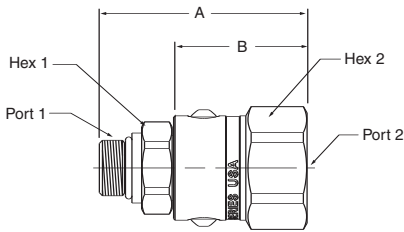
Part Number	A	B	Hex 1	Hex 2	Port 1	Port 2
PS410502-4-4	2.44" 62.1 mm	1.60" 40.6 mm	.75" 19.0 mm	1.19" 30.2 mm	7/16-20 UNF-2A	1/4-18 NPTF
PS610502-6-6	2.48" 63.0 mm	1.64" 41.7 mm	.88" 22.2 mm	1.31" 33.3 mm	9/16-18 UNF-2A	3/8-18 NPTF
PS810502-8-8	2.79" 70.8 mm	1.79" 45.5 mm	1.12" 28.6 mm	1.50" 36.5 mm	3/4-16 UN-2A	1/2-14 NPTF
PS1210502-12-12	3.02" 76.7 mm	1.85" 47.0 mm	1.38" 35.0 mm	1.69" 42.9 mm	1-1/16-12 UN-2A	3/4-14 NPTF
PS1610502-16-16	3.31" 84.1 mm	2.11" 53.5 mm	1.62" 41.3 mm	1.88" 47.6 mm	1-5/16-12 UN-2A	1-11/2 NPTF

Male SAE O-Ring Straight Thread - Male 37° Flare



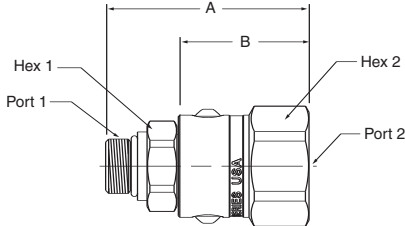
Part Number	A	B	Hex 1	Hex 2	Port 1	Port 2
PS410503-4-4	2.71" 68.9 mm	1.87" 47.5 mm	.75" 19.0 mm	1.19" 30.2 mm	7/16-20 UNF-2A	7/16-20 UNF-2A
PS610503-6-6	2.74" 69.6 mm	1.90" 48.3 mm	.88" 22.2 mm	1.31" 33.3 mm	9/16-18 UNF-2A	9/16-18 UNF-2A
PS810503-8-8	3.09" 78.4 mm	2.09" 53.1 mm	1.12" 28.6 mm	1.50" 36.5 mm	3/4-16 UNF-2A	3/4-16 UNF-2A
PS810503-10-10	3.25" 82.5 mm	2.19" 55.6 mm	1.12" 28.6 mm	1.50" 36.5 mm	7/8-14 UNF-2A	7/8-14 UNF-2A
PS1210503-12-12	3.47" 88.2 mm	2.30" 58.4 mm	1.38" 35.0 mm	1.69" 42.9 mm	1-1/16-12 UN-2A	1-1/16-12 UN-2A
PS1610503-16-16	3.66" 92.9 mm	2.45" 62.2 mm	1.62" 41.3 mm	1.88" 47.6 mm	1-5/16-12 UN-2A	1-5/16-12 UN-2A

Male SAE O-Ring Straight Thread - Female 37° Flare



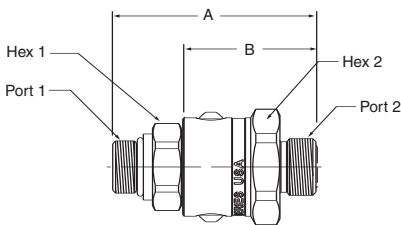
Part Number	A	B	Hex 1	Hex 2	Port 1	Port 2
PS410506-4-4	2.57" 65.4 mm	1.73" 43.9 mm	.75" 19.0 mm	1.19" 30.2 mm	7/16-20 UNF-2A	7/16-20 UNF-2B
PS610506-6-6	2.59" 65.8 mm	1.75" 44.5 mm	.88" 22.2 mm	1.31" 33.3 mm	9/16-18 UNF-2A	9/16-18 UNF-2B
PS810506-8-8	2.81" 71.3 mm	1.81" 46.0 mm	1.12" 28.6 mm	1.50" 36.5 mm	3/4-16 UNF-2A	3/4-16 UNF-2B
PS1210506-12-12	3.19" 81.1 mm	2.02" 51.3 mm	1.38" 35.0 mm	1.69" 42.9 mm	1-1/16-12 UN-2A	1-1/16-12 UN-2B
PS1610506-16-16	3.40" 86.3 mm	2.19" 55.6 mm	1.62" 41.3 mm	1.88" 47.6 mm	1-5/16-12 UN-2A	1-5/16-12 UN-2B

Male SAE O-Ring Straight Thread - Female SAE Straight Thread



Part Number	A	B	Hex 1	Hex 2	Port 1	Port 2
PS410510-4-4	2.56" 65.0 mm	1.72" 43.7 mm	.75" 19.0 mm	1.19" 30.2 mm	7/16-20 UNF-2A	7/16-20 UNF-2B
PS610510-6-6	2.56" 65.0 mm	1.72" 43.7 mm	.88" 22.2 mm	1.31" 33.3 mm	9/16-18 UNF-2A	9/16-18 UNF-2B
PS810510-8-8	2.79" 70.8 mm	1.79" 45.5 mm	1.12" 28.6 mm	1.50" 36.5 mm	3/4-16 UNF-2A	3/4-16 UNF-2B
PS1210510-12-12	3.25" 82.6 mm	2.08" 52.8 mm	1.38" 35.0 mm	1.69" 42.9 mm	1-1/16-12 UN-2A	1-1/16-12 UN-2B
PS1610510-16-16	3.41" 86.5 mm	2.20" 55.9 mm	1.62" 41.3 mm	1.88" 47.6 mm	1-5/16-12 UN-2A	1-5/16-12 UN-2B

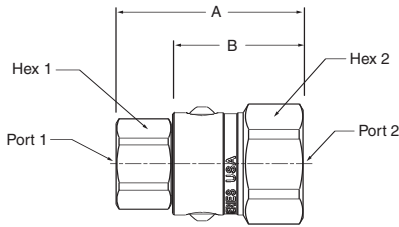
Male SAE O-Ring Straight Thread - O-Ring Face Seal



Part Number	A	B	Hex 1	Hex 2	Port 1	Port 2
PS4105JM-4-4	2.59" 65.8 mm	1.75" 44.5 mm	.75" 19.0 mm	1.19" 30.2 mm	7/16-20 UNF-2A	9/16-18 UNF-2A
PS6105JM-6-6	2.59" 65.8 mm	1.75" 44.5 mm	.88" 22.2 mm	1.31" 33.3 mm	9/16-18 UNF-2A	11/16-16 UNF-2A
PS8105JM-8-8	2.90" 73.6 mm	1.90" 48.3 mm	1.12" 28.6 mm	1.50" 36.5 mm	3/4-16 UNF-2A	13/16-16 UNF-2A
PS8105JM-10-10	3.05" 77.4 mm	1.99" 50.5 mm	1.12" 28.6 mm	1.50" 36.5 mm	7/8-14 UNF-2A	1-14 UNF-2A
PS12105JM-12-12	3.26" 82.8 mm	2.09" 53.1 mm	1.38" 35.0 mm	1.69" 42.9 mm	1-1/16-12 UN-2A	1-3/16-12 UN-2A
PS16105JM-16-16	3.41" 86.5 mm	2.20" 55.9 mm	1.62" 41.3 mm	1.88" 47.6 mm	1-5/16-12 UN-2A	1-7/16-12 UN-2A

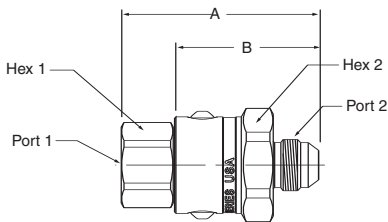
D Swivels

Female SAE Straight Thread - Female Pipe



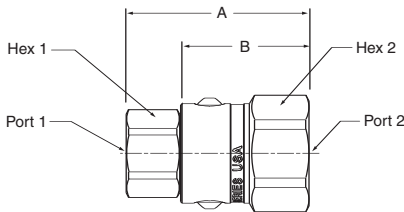
Part Number	A	B	Hex 1	Hex 2	Port 1	Port 2
PS411002-4-4	2.16" 55.0 mm	1.60" 40.6 mm	.75" 19.0 mm	1.19" 30.2 mm	7/16-20 UNF-2B	1/4-18 NPTF
PS611002-6-6	2.30" 58.3 mm	1.64" 41.7 mm	.88" 22.2 mm	1.31" 33.3 mm	9/16-18 UNF-2B	3/8-18 NPTF
PS811002-8-8	2.56" 65.0 mm	1.79" 45.5 mm	1.12" 28.6 mm	1.50" 36.5 mm	3/4-16 UNF-2B	1/2-14 NPTF
PS1211002-12-12	2.88" 73.1 mm	1.85" 47.0 mm	1.38" 35.0 mm	1.69" 42.9 mm	1-1/16-12 UN-2B	3/4-14 NPTF
PS1611002-16-16	3.16" 80.1 mm	2.11" 53.5 mm	1.62" 41.3 mm	1.88" 47.6 mm	1-5/16-12 UN-2B	1-11 1/2 NPTF

Female SAE Straight Thread - Male 37° Flare



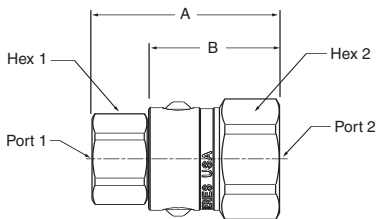
Part Number	A	B	Hex 1	Hex 2	Port 1	Port 2
PS411003-4-4	2.43" 61.8 mm	1.87" 47.5 mm	.75" 19.0 mm	1.19" 30.2 mm	7/16-20 UNF-2B	7/16-20 UNF-2A
PS611003-6-6	2.56" 65.0 mm	1.90" 48.3 mm	.88" 22.2 mm	1.31" 33.3 mm	9/16-18 UNF-2B	9/16-18 UNF-2A
PS811003-8-8	2.86" 72.7 mm	2.09" 53.1 mm	1.12" 28.6 mm	1.50" 36.5 mm	3/4-16 UNF-2B	3/4-16 UNF-2A
PS1211003-12-12	3.33" 84.5 mm	2.30" 58.4 mm	1.38" 35.0 mm	1.69" 42.9 mm	1-1/16-12 UN-2B	1-1/16-12 UN-2A
PS1611003-16-16	3.50" 88.9 mm	2.45" 62.2 mm	1.62" 41.3 mm	1.88" 47.6 mm	1-5/16-12 UN-2B	1-5/16-12 UN-2A

Female SAE Straight Thread - Female 37° Flare



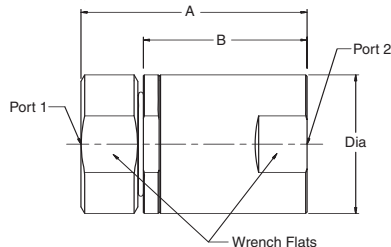
Part Number	A	B	Hex 1	Hex 2	Port 1	Port 2
PS411006-4-4	2.29" 58.3 mm	1.73" 43.9 mm	.75" 19.0 mm	1.19" 30.2 mm	7/16-20 UNF-2B	7/16-20 UNF-2B
PS611006-6-6	2.41" 61.1 mm	1.75" 44.5 mm	.88" 22.2 mm	1.31" 33.3 mm	9/16-18 UNF-2B	9/16-18 UNF-2B
PS811006-8-8	2.58" 65.6 mm	1.81" 46.0 mm	1.12" 28.6 mm	1.50" 36.5 mm	3/4-16 UNF-2B	3/4-16 UNF-2B
PS1211006-12-12	3.05" 77.4 mm	2.02" 51.3 mm	1.38" 35.0 mm	1.69" 42.9 mm	1-1/16-12 UN-2B	1-1/16-12 UN-2B
PS1611006-16-16	3.24" 82.3 mm	2.19" 55.6 mm	1.62" 41.3 mm	1.88" 47.6 mm	1-5/16-12 UN-2B	1-5/16-12 UN-2B

Female SAE Straight Thread - Female SAE Straight Thread



Part Number	A	B	Hex 1	Hex 2	Port 1	Port 2
PS411010-4-4	2.28" 58.0 mm	1.72" 43.7 mm	.75" 19.0 mm	1.19" 30.2 mm	7/16-20 UNF-2B	7/16-20 UNF-2B
PS611010-6-6	2.38" 60.4 mm	1.72" 43.7 mm	.88" 22.2 mm	1.31" 33.3 mm	9/16-18 UNF-2B	9/16-18 UNF-2B
PS811010-8-8	2.56" 65.0 mm	1.79" 45.5 mm	1.12" 28.6 mm	1.50" 36.5 mm	3/4-16 UNF-2B	3/4-16 UNF-2B
PS1211010-12-12	3.11" 78.9 mm	2.08" 52.8 mm	1.38" 35.0 mm	1.69" 42.9 mm	1-1/16-12 UN-2B	1-1/16-12 UN-2B
PS1611010-16-16	3.25" 82.6 mm	2.20" 55.9 mm	1.62" 41.3 mm	1.88" 47.6 mm	1-5/16-12 UN-2B	1-5/16-12 UN-2B

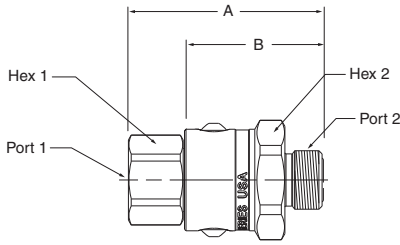
3 Piece Design



Part Number	A	B	C	D	Wrench Flats	Dia.	Port 1	Port 2
PS2411010-20-20	5.91" 150.2 mm	4.63" 117.5 mm	3.43" 87.0 mm	1.27" 32.3 mm	2.63" 66.7 mm	3.36" 85.2 mm	1 5/8-12 UN-2B	1 5/8-12 UN-2B
PS2411010-24-24	5.91" 150.2 mm	4.63" 117.5 mm	3.43" 87.0 mm	1.27" 32.3 mm	2.63" 66.7 mm	3.36" 85.2 mm	1 7/8-12 UN-2B	1 7/8-12 UN-2B
PS3211010-32-32	6.83" 173.6 mm	5.45" 138.4 mm	3.93" 99.7 mm	1.52" 38.5 mm	3.06" 77.6 mm	4.19" 106.4 mm	2 1/2-12 UN-2B	2-1/2-12 UN-2B

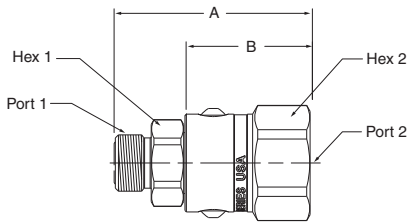
D Swivels

Female SAE Straight Thread - O-Ring Face Seal



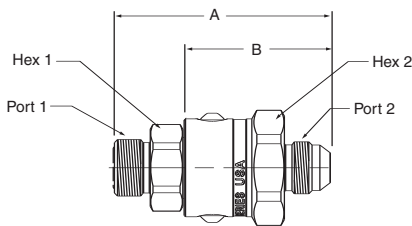
Part Number	A	B	Hex 1	Hex 2	Port 1	Port 2
PS4110JM-4-4	2.31" 58.8 mm	1.75" 44.5 mm	.75" 19.0 mm	1.19" 30.2 mm	7/16-20 UNF-2B	9/16-18 UNF-2A
PS6110JM-6-6	2.41" 61.1 mm	1.75" 44.5 mm	.88" 22.2 mm	1.31" 33.3 mm	9/16-18 UNF-2B	11/16-16 UN-2A
PS8110JM-8-8	2.67" 67.9 mm	1.90" 48.3 mm	1.12" 28.6 mm	1.50" 36.5 mm	3/4-16 UNF-2B	13/16-16 UN-2A
PS12110JM-12-12	3.12" 79.2 mm	2.09" 53.1 mm	1.38" 35.0 mm	1.69" 42.9 mm	1-1/16-12 UN-2B	1-3/16-12 UN-2A
PS16110JM-16-16	3.25" 82.6 mm	2.20" 55.9 mm	1.62" 41.3 mm	1.88" 47.6 mm	1-5/16-12 UN-2B	1-7/16-12 UN-2A

O-Ring Face Seal - Female Pipe



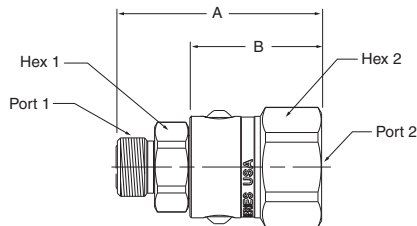
Part Number	A	B	Hex 1	Hex 2	Port 1	Port 2
PS41JM02-4-4	2.44" 62.1 mm	1.60" 40.6 mm	.75" 19.0 mm	1.19" 30.2 mm	9/16-18 UNF-2A	1/4-18 NPTF
PS61JM02-6-6	2.48" 63.0 mm	1.64" 41.7 mm	.88" 22.2 mm	1.31" 33.3 mm	11/16-16 UN-2A	3/8-18 NPTF
PS81JM02-8-8	2.79" 70.8 mm	1.79" 45.5 mm	1.12" 28.6 mm	1.50" 36.5 mm	13/16-16 UN-2A	1/2-14 NPTF
PS121JM02-12-12	3.02" 76.7 mm	1.85" 47.0 mm	1.38" 35.0 mm	1.69" 42.9 mm	1-3/16-12 UN-2A	3/4-14 NPTF
PS161JM02-16-16	3.31" 84.1 mm	2.11" 53.5 mm	1.62" 41.3 mm	1.88" 47.6 mm	1-7/16-12 UN-2A	1-11/2 NPTF

O-Ring Face Seal - Male 37° Flare



Part Number	A	B	Hex 1	Hex 2	Port 1	Port 2
PS41JM03-4-4	2.71" 68.9 mm	1.87" 47.5 mm	.75" 19.0 mm	1.19" 30.2 mm	9/16-18 UN-2A	7/16-20 UN-2A
PS61JM03-6-6	2.74" 69.6 mm	1.90" 48.3 mm	.88" 22.2 mm	1.31" 33.3 mm	11/16-16 UN-2A	9/16-18 UN-2A
PS81JM03-8-8	3.09" 78.4 mm	2.09" 53.1 mm	1.12" 28.6 mm	1.50" 36.5 mm	13/16-16 UN-2A	3/4-16 UN-2A
PS81JM03-10-10	3.29" 83.7 mm	2.19" 55.6 mm	1.12" 28.6 mm	1.50" 36.5 mm	1-14 UN-2A	7/8-14 UN-2A
PS121JM03-12-12	3.47" 88.2 mm	2.30" 58.4 mm	1.38" 35.0 mm	1.69" 42.9 mm	1-3/16-12 UNF-2A	1-1/16-12 UNF-2A
PS161JM03-16-16	3.66" 92.9 mm	2.45" 62.2 mm	1.62" 41.3 mm	1.88" 47.6 mm	1-7/16-12 UNF-2A	1-5/16-12 UNF-2A

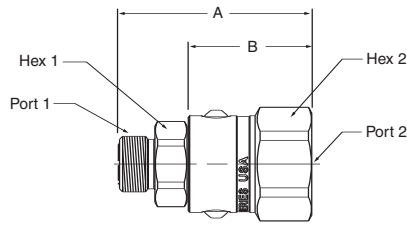
O-Ring Face Seal - Female 37° Flare



Part Number	A	B	Hex 1	Hex 2	Port 1	Port 2
PS41JM06-4-4	2.57" 65.4 mm	1.73" 43.9 mm	.75" 19.0 mm	1.19" 30.2 mm	9/16-18 UNF-2A	7/16-20 UNF-2B
PS61JM06-6-6	2.59" 65.8 mm	1.75" 44.5 mm	.88" 22.2 mm	1.31" 33.3 mm	11/16-16 UNF-2A	9/16-18 UNF-2B
PS81JM06-8-8	2.81" 71.3 mm	1.81" 46.0 mm	1.12" 28.6 mm	1.44" 36.5 mm	13/16-16 UNF-2A	3/4-16 UNF-2B
PS121JM06-12-12	3.19" 81.1 mm	2.02" 51.3 mm	1.38" 35.0 mm	1.69" 42.9 mm	1-3/16-12 UN-2A	1-1/16-12 UN-2B
PS161JM06-16-16	3.40" 86.3 mm	2.19" 55.6 mm	1.62" 41.3 mm	1.88" 47.6 mm	1-7/16-12 UN-2A	1-5/16-12 UN-2B

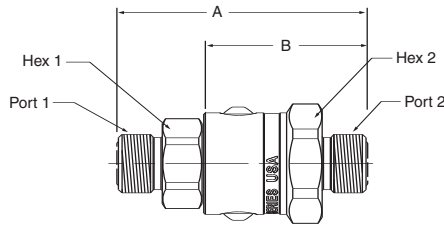
D Swivels

O-Ring Face Seal - Female SAE Straight Thread



Part Number	A	B	Hex 1	Hex 2	Port 1	Port 2
PS41JM10-4-4	2.56" 65.0 mm	1.72" 43.7 mm	.75" 19.0 mm	1.19" 30.2 mm	9/16-18 UNF-2A	7/16-20 UNF-2B
PS61JM10-6-6	2.56" 65.0 mm	1.72" 43.7 mm	.88" 22.2 mm	1.31" 33.3 mm	11/16-16 UN-2A	9/16-18 UNF-2B
PS81JM10-8-8	2.79" 70.8 mm	1.79" 45.5 mm	1.12" 28.6 mm	1.50" 36.5 mm	13/16-16 UN-2A	3/4-16 UNF-2B
PS121JM10-12-12	3.25" 82.6 mm	2.08" 52.8 mm	1.38" 35.0 mm	1.69" 42.9 mm	1-3/16-12 UN-2A	1-1/16-12 UN-2B
PS161JM10-16-16	3.41" 86.5 mm	2.20" 55.9 mm	1.62" 41.3 mm	1.88" 47.6 mm	1-7/16-12 UN-2A	1-5/16-12 UN-2B

O-Ring Face Seal - O-Ring Face Seal

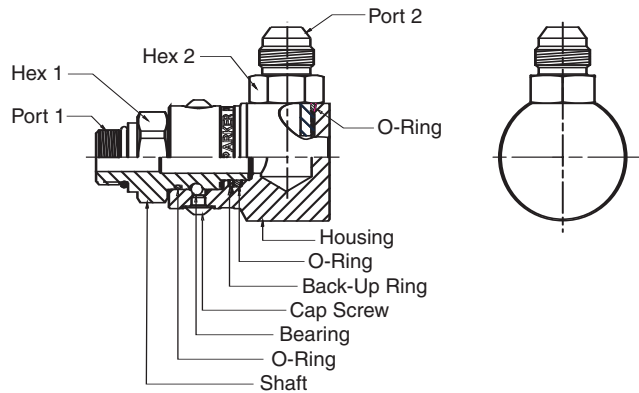


Part Number	A	B	Hex 1	Hex 2	Port 1	Port 2
PS41JMJM-4-4	2.59" 65.8 mm	1.75" 44.5 mm	.75" 19.0 mm	1.19" 30.2 mm	9/16-18 UNF-2A	9/16-18 UNF-2A
PS61JMJM-6-6	2.59" 65.8 mm	1.75" 44.5 mm	.88" 22.2 mm	1.31" 33.3 mm	11/16-16 UN-2A	11/16-16 UN-2A
PS81JMJM-8-8	2.90" 73.6 mm	1.90" 48.3 mm	1.12" 28.6 mm	1.50" 36.5 mm	13/16-16 UN-2A	13/16-16 UN-2A
PS121JMJM-12-12	3.26" 82.8 mm	2.09" 53.1 mm	1.38" 35.0 mm	1.69" 42.9 mm	1-3/16-12 UN-2A	1-3/16-12 UN-2A
PS161JMJM-16-16	3.41" 86.5 mm	2.20" 55.9 mm	1.62" 41.3 mm	1.88" 47.6 mm	1-7/16-12 UN-2A	1-7/16-12 UN-2A

D Swivels

Swivels

90° PS Series

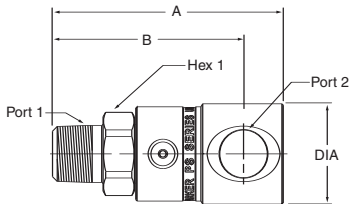


Materials Of Construction

Housing*:Carbon Steel
 Shaft*:Carbon Steel
 Plating*:Zinc with Yellow Chromate
 Bearing*:Chrome
 O-Rings*:Nitrile
 Back-Up Ring:PTFE

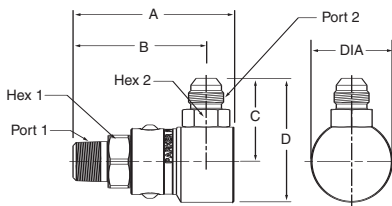
* See How-To-Order for optional material plating and seals.

Male Pipe - Female Pipe



Part Number	A	B	Dia.	Hex 1	Port 1	Port 2
PS490102-4-4	2.85" 72.3 mm	2.44" 62.0 mm	1.20" 30.5 mm	.75" 19.0 mm	1/4-18 NPTF	1/4-18 NPTF
PS690102-6-6	3.05" 77.4 mm	2.54" 64.4 mm	1.29" 32.8 mm	.88" 22.2 mm	3/8-18 NPTF	3/8-18 NPTF
PS890102-8-8	3.43" 87.0 mm	2.84" 72.0 mm	1.49" 37.8 mm	1.12" 28.6 mm	1/2-14 NPTF	1/2-14 NPTF
PS1290102-12-12	3.66" 93.0 mm	3.00" 76.1 mm	1.76" 44.6 mm	1.38" 35.0 mm	3/4-14 NPTF	3/4-14 NPTF
PS1690102-16-16	4.41" 112.0 mm	3.54" 90.0 mm	2.16" 54.9 mm	1.62" 41.3 mm	1-11 1/2 NPTF	1-11 1/2 NPTF

Male Pipe - Male 37° Flare

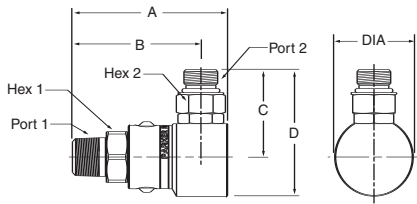


Part Number	A	B	C	D	Dia	Hex 1	Hex 2	Port 1	Port 2
PS490103-4-4	2.85" 72.3 mm	2.44" 62.0 mm	1.39" 35.2 mm	1.99" 50.5 mm	1.20" 30.5 mm	.75" 19.0 mm	.56" 14.3 mm	1/4-18 NPTF	7/16-20 UNF-2A
PS690103-6-6	3.05" 77.4 mm	2.54" 64.4 mm	1.44" 36.6 mm	2.09" 53.0 mm	1.29" 32.8 mm	.88" 22.2 mm	.69" 17.5 mm	3/8-18 NPTF	9/16-18 UNF-2A
PS890103-8-8	3.43" 87.0 mm	2.84" 72.0 mm	1.78" 45.1 mm	2.64" 67.1 mm	1.73" 44.0 mm	1.12" 28.6 mm	.88" 22.2 mm	1/2-14 NPTF	3/4-16 UNF-2A
PS1290103-12-12	3.66" 93.0 mm	3.00" 76.1 mm	2.24" 56.9 mm	3.86" 85.3 mm	2.17" 55.2 mm	1.38" 35.0 mm	1.25" 31.8 mm	3/4-14 NPTF	1-1/16-12 UN-2A
PS1690103-16-16	4.41" 112.0 mm	3.54" 90.0 mm	2.42" 61.3 mm	3.66" 92.9 mm	2.48" 63.0 mm	1.62" 41.3 mm	1.50" 38.1 mm	1-11 1/2 NPTF	1-5/16-12 UN-2A

D Swivels

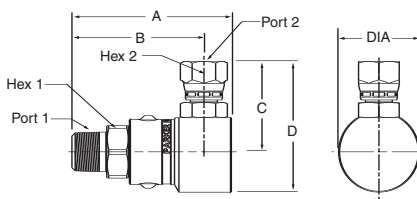


Male Pipe - Male SAE O-Ring Straight Thread



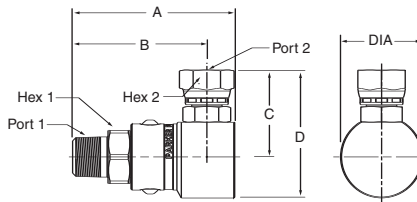
Part Number	A	B	C	D	Dia.	Hex 1	Hex 2	Port 1	Port 2
PS490105-4-4	2.85" 72.3 mm	2.44" 62.0 mm	1.38" 35.0 mm	1.98" 50.2 mm	1.20" 30.5 mm	.75" 19.0 mm	.56" 14.3 mm	1/4-18 NPTF	7/16-20 UNF-2A
PS690105-6-6	3.05" 77.4 mm	2.54" 64.4 mm	1.55" 39.4 mm	2.20" 55.8 mm	1.29" 32.8 mm	.88" 22.2 mm	.69" 17.5 mm	3/8-18 NPTF	9/16-18 UNF-2A
PS890105-8-8	3.43" 87.0 mm	2.84" 72.0 mm	1.86" 47.2 mm	2.72" 69.2 mm	1.73" 44.0 mm	1.12" 28.6 mm	.88" 22.2 mm	1/2-14 NPTF	3/4-16 UNF-2A
PS1290105-12-12	3.66" 93.0 mm	3.00" 76.1 mm	2.40" 61.0 mm	3.49" 88.5 mm	2.17" 55.2 mm	1.38" 35.0 mm	1.25" 31.8 mm	3/4-14 NPTF	1-1/16-12 UN-2A
PS1690105-16-16	4.41" 112.0 mm	3.54" 90.0 mm	2.50" 63.4 mm	3.74" 94.9 mm	2.48" 63.0 mm	1.62" 41.3 mm	1.50" 38.1 mm	1-11/2 NPTF	1-5/16-12 UN-2A

Male Pipe - Female 37° Flare



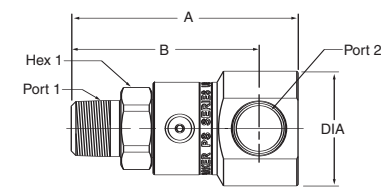
Part Number	A	B	C	D	Dia.	Hex 1	Hex 2	Port 1	Port 2
PS490106-4-4	2.85" 72.3 mm	2.44" 62.0 mm	1.47" 37.3 mm	2.07" 52.5 mm	1.20" 30.5 mm	.75" 19.0 mm	.56" 14.3 mm	1/4-18 NPTF	7/16-20 UNF-2B
PS690106-6-6	3.05" 77.4 mm	2.54" 64.4 mm	1.57" 39.9 mm	2.22" 56.3 mm	1.29" 32.8 mm	.88" 22.2 mm	.69" 17.5 mm	3/8-18 NPTF	9/16-18 UNF-2B
PS890106-8-8	3.43" 87.0 mm	2.84" 72.0 mm	1.91" 48.4 mm	2.77" 70.4 mm	1.73" 44.0 mm	1.12" 28.6 mm	.88" 22.2 mm	1/2-14 NPTF	3/4-16 UNF-2B
PS1290106-12-12	3.66" 93.0 mm	3.00" 76.1 mm	2.34" 59.4 mm	3.43" 87.0 mm	2.17" 55.2 mm	1.38" 35.0 mm	1.25" 31.8 mm	3/4-14 NPTF	1-1/16-12 UN-2B
PS1690106-16-16	4.41" 112.0 mm	3.54" 90.0 mm	2.54" 64.6 mm	3.79" 96.2 mm	2.48" 63.0 mm	1.62" 41.3 mm	1.50" 38.1 mm	1-11/2 NPTF	1-5/16-12 UN-2B

Male Pipe - Female NPSM Pipe Swivel



Part Number	A	B	C	D	Dia.	Hex 1	Hex 2	Port 1	Port 2
PS490107-4-4	2.85" 72.3 mm	2.44" 62.0 mm	1.48" 37.5 mm	2.08" 52.8 mm	1.20" 30.5 mm	.75" 19.0 mm	.69" 17.4 mm	1/4-18 NPTF	1/4-18 NPSM
PS690107-6-6	3.05" 77.4 mm	2.54" 64.4 mm	1.51" 38.4 mm	2.16" 54.8 mm	1.29" 32.8 mm	.88" 22.2 mm	.88" 22.2 mm	3/8-18 NPTF	3/8-18 NPSM
PS890107-8-8	3.43" 87.0 mm	2.84" 72.0 mm	1.86" 47.2 mm	2.72" 69.2 mm	1.73" 44.0 mm	1.12" 28.6 mm	1.00" 25.4 mm	1/2-14 NPTF	1/2-14 NPSM
PS1290107-12-12	3.66" 93.0 mm	3.00" 76.1 mm	2.24" 56.9 mm	3.33" 84.5 mm	2.17" 55.2 mm	1.38" 35.0 mm	1.25" 31.8 mm	3/4-14 NPTF	3/4-14 NPSM
PS1690107-16-16	4.41" 112.0 mm	3.54" 90.0 mm	2.48" 63.1 mm	3.73" 94.6 mm	2.48" 63.0 mm	1.62" 41.3 mm	1.50" 38.1 mm	1-11/2 NPTF	1-11/2 NPSM

Male Pipe - Female SAE Straight Thread

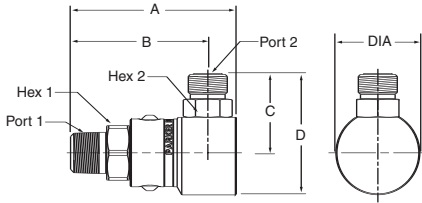


Part Number	A	B	Dia.	Hex 1	Port 1	Port 2
PS490110-4-4	2.85" 72.3 mm	2.44" 62.0 mm	1.20" 30.5 mm	.75" 19.0 mm	1/4-18 NPTF	7/16-20 UNF-2B
PS690110-6-6	3.05" 77.4 mm	2.54" 64.4 mm	1.29" 32.8 mm	.88" 22.2 mm	3/8-18 NPTF	9/16-18 UNF-2B
PS890110-8-8	3.43" 87.0 mm	2.84" 72.0 mm	1.73" 44.0 mm	1.12" 28.6 mm	1/2-14 NPTF	3/4-16 UNF-2B
PS1290110-12-12	3.66" 93.0 mm	3.00" 76.1 mm	2.17" 55.2 mm	1.38" 35.0 mm	3/4-14 NPTF	1-1/16-12 UN-2B
PS1690110-16-16	4.41" 112.0 mm	3.54" 90.0 mm	2.48" 63.0 mm	1.62" 41.3 mm	1-11/2 NPTF	1-5/16-12 UN-2B

Swivels

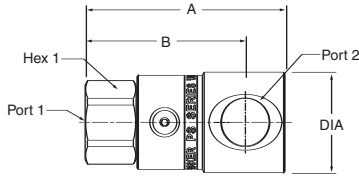
90° PS Series

Male Pipe - O-Ring Face Seal



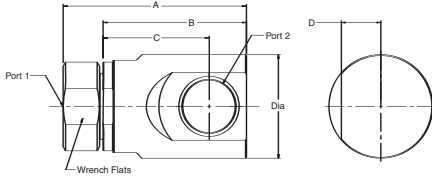
Part Number	A	B	C	D	Dia.	Hex 1	Hex 2	Port 1	Port 2
PS4901JM-4-4	2.85" 72.3 mm	2.44" 62.0 mm	1.29" 32.5 mm	1.89" 47.9 mm	1.20" 30.5 mm	.75" 19.0 mm	.56" 14.3 mm	1/4-18 NPTF	9/16-18 UNF-2A
PS6901JM-6-6	3.05" 77.4 mm	2.54" 64.4 mm	1.40" 35.6 mm	2.05" 52.0 mm	1.29" 32.8 mm	.88" 22.2 mm	.69" 17.5 mm	3/8-18 NPTF	11/16-16 UN-2A
PS8901JM-8-8	3.43" 87.0 mm	2.84" 72.0 mm	1.74" 44.1 mm	2.60" 66.1 mm	1.73" 44.0 mm	1.12" 28.6 mm	.88" 22.2 mm	1/2-14 NPTF	13/16-16 UN-2A
PS12901JM-12-12	3.66" 93.0 mm	3.00" 76.1 mm	2.18" 55.4 mm	3.27" 83.0 mm	2.17" 55.2 mm	1.38" 35.0 mm	1.25" 31.8 mm	3/4-14 NPTF	1-3/16-12 UN-2A
PS16901JM-16-16	4.41" 112.0 mm	3.54" 90.0 mm	2.34" 59.6 mm	3.59" 91.1 mm	2.48" 63.0 mm	1.62" 41.3 mm	1.50" 38.1 mm	1-11/2 NPTF	1-7/16-12 UN-2A

Female Pipe - Female Pipe



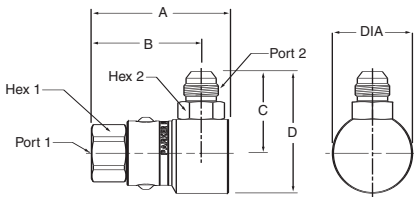
Part Number	A	B	Dia	Hex 1	Port 1	Port 2
PS490202-4-4	2.42" 61.4 mm	2.01" 51.2 mm	1.20" 30.5 mm	.75" 19.0 mm	1/4-18 NPTF	1/4-18 NPTF
PS690202-6-6	2.68" 68.2 mm	2.17" 55.2 mm	1.29" 32.8 mm	.88" 22.2 mm	3/8-18 NPTF	3/8-18 NPTF
PS890202-8-8	2.96" 75.3 mm	2.37" 60.3 mm	1.49" 37.8 mm	1.12" 28.6 mm	1/2-14 NPTF	1/2-14 NPTF
PS1290202-12-12	3.43" 87.2 mm	2.77" 70.4 mm	1.76" 44.6 mm	1.38" 35.0 mm	3/4-14 NPTF	3/4-14 NPTF
PS1690202-16-16	4.03" 102.3 mm	3.16" 80.3 mm	2.16" 54.9 mm	1.62" 41.3 mm	1-11/2 NPTF	1-11/2 NPTF

3 Piece Design



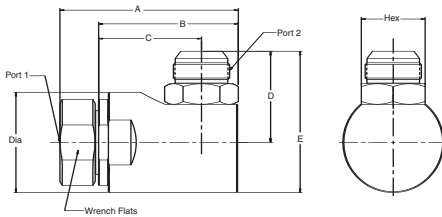
Part Number	A	B	C	D	Wrench Flats	Dia.	Port 1	Port 2
PS2490202-20-20	5.91" 150.2 mm	4.63" 117.5 mm	3.43" 87.0 mm	1.27" 32.3 mm	2.63" 66.7 mm	3.36" 85.2 mm	1 1/4-11 1/2 NPTF	1 1/4-11 1/2 NPTF
PS2490202-24-24	5.91" 150.2 mm	4.63" 117.5 mm	3.43" 87.0 mm	1.27" 32.3 mm	2.63" 66.7 mm	3.36" 85.2 mm	1 1/2-11 1/2 NPTF	1 1/2-11 1/2 NPTF
PS3290202-32-32	6.75" 171.5 mm	5.45" 138.4 mm	3.93" 99.7 mm	1.52" 38.5 mm	3.06" 77.6 mm	4.19" 106.4 mm	2 11-1/2 NPTF	2 11-1/2 NPTF

Female Pipe - Male 37° Flare



Part Number	A	B	C	D	Dia	Hex 1	Hex 2	Port 1	Port 2
PS490203-4-4	2.42" 61.4 mm	2.01" 51.2 mm	1.39" 35.2 mm	1.99" 50.5 mm	1.20" 30.5 mm	.75" 19.0 mm	.56" 14.3 mm	1/4-18 NPTF	7/16-20 UNF-2A
PS690203-6-6	2.68" 68.2 mm	2.17" 55.2 mm	1.44" 36.6 mm	2.09" 53.0 mm	1.29" 32.8 mm	.88" 22.2 mm	.69" 17.5 mm	3/8-18 NPTF	9/16-18 UNF-2A
PS890203-8-8	2.96" 75.3 mm	2.37" 60.3 mm	1.78" 45.1 mm	2.64" 67.1 mm	1.73" 44.0 mm	1.12" 28.6 mm	.88" 22.2 mm	1/2-14 NPTF	3/4-16 UNF-2A
PS1290203-12-12	3.43" 87.2 mm	2.77" 70.4 mm	2.24" 56.9 mm	3.86" 85.3 mm	2.17" 55.2 mm	1.38" 35.0 mm	1.25" 31.8 mm	3/4-14 NPTF	1-1/16-12 UN-2A
PS1690203-16-16	4.03" 102.3 mm	3.16" 80.3 mm	2.42" 61.3 mm	3.66" 92.9 mm	2.48" 63.0 mm	1.62" 41.3 mm	1.50" 38.1 mm	1-11/2 NPTF	1-5/16-12 UN-2A

3 Piece Design

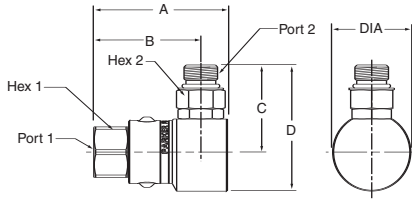


Part Number	A	B	C	D	E	Hex	Wrench Flats	Dia.	Port 1	Port 2
PS2490203-20-20	5.91" 150.2 mm	4.63" 117.5 mm	3.43" 87.0 mm	2.85" 72.4 mm	4.53" 115.0 mm	1.88" 47.6 mm	2.63" 66.7 mm	3.36" 85.2 mm	1 1/4-11 1/2 NPTF	1 5/8-12 UN-2A
PS2490203-24-24	5.94" 150.9 mm	4.65" 118.2 mm	3.43" 87.0 mm	3.05" 77.6 mm	4.73" 120.2 mm	2.13" 54.0 mm	2.63" 66.7 mm	3.36" 85.2 mm	1 1/2-11 1/2 NPTF	17/8-12 UN-2A
PS3290203-32-32	6.82" 173.1 mm	5.51" 140.0 mm	3.93" 99.7 mm	3.70" 94.0 mm	5.80" 147.2 mm	2.75" 69.8 mm	3.06" 77.6 mm	4.19" 106.4 mm	2 11-1/2 NPTF	2 1/2-12 UN-2A

D Swivels

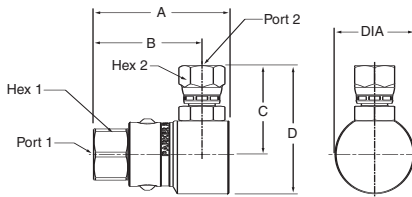


Female Pipe - Male SAE O-Ring Straight Thread



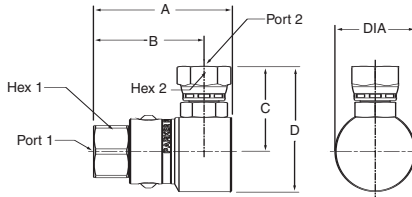
Part Number	A	B	C	D	Dia.	Hex 1	Hex 2	Port 1	Port 2
PS490205-4-4	2.42" 61.4 mm	2.01" 51.2 mm	1.38" 35.0 mm	1.98" 50.2 mm	1.20" 30.5 mm	.75" 19.0 mm	.56" 14.3 mm	1/4-18 NPTF	7/16-20 UNF-2A
PS690205-6-6	2.68" 68.2 mm	2.17" 55.2 mm	1.55" 39.4 mm	2.20" 55.8 mm	1.29" 32.8 mm	.88" 22.2 mm	.69" 17.5 mm	3/8-18 NPTF	9/16-18 UNF-2A
PS890205-8-8	2.96" 75.3 mm	2.37" 60.3 mm	1.86" 47.2 mm	2.72" 69.2 mm	1.73" 44.0 mm	1.12" 28.6 mm	.88" 22.2 mm	1/2-14 NPTF	3/4-16 UNF-2A
PS1290205-12-12	3.43" 87.2 mm	2.77" 70.4 mm	2.40" 61.0 mm	3.49" 88.5 mm	2.17" 55.2 mm	1.38" 35.0 mm	1.25" 31.8 mm	3/4-14 NPTF	1-1/16-12 UN-2A
PS1690205-16-16	4.03" 102.3 mm	3.16" 80.3 mm	2.50" 63.4 mm	3.74" 94.9 mm	2.48" 63.0 mm	1.62" 41.3 mm	1.50" 38.1 mm	1-11/2 NPTF	1-5/16-12 UN-2A

Female Pipe - Female 37° Flare



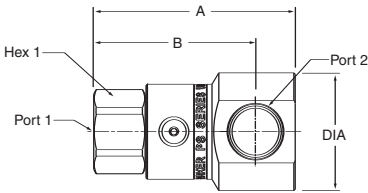
Part Number	A	B	C	D	Dia.	Hex 1	Hex 2	Port 1	Port 2
PS490206-4-4	2.42" 61.4 mm	2.01" 51.2 mm	1.47" 37.3 mm	2.07" 52.5 mm	1.20" 30.5 mm	.75" 19.0 mm	.56" 14.3 mm	1/4-18 NPTF	7/16-20 UNF-2A
PS690206-6-6	2.68" 68.2 mm	2.17" 55.2 mm	1.57" 39.9 mm	2.22" 56.3 mm	1.29" 32.8 mm	.88" 22.2 mm	.69" 17.5 mm	3/8-18 NPTF	9/16-18 UNF-2A
PS890206-8-8	2.96" 75.3 mm	2.37" 60.3 mm	1.91" 48.4 mm	2.77" 70.4 mm	1.73" 44.0 mm	1.12" 28.6 mm	.88" 22.2 mm	1/2-14 NPTF	3/4-16 UNF-2A
PS1290206-12-12	3.43" 87.2 mm	2.77" 70.4 mm	2.34" 59.4 mm	3.43" 87.0 mm	2.17" 55.2 mm	1.38" 35.0 mm	1.25" 31.8 mm	3/4-14 NPTF	1-1/16-12 UN-2A
PS1690206-16-16	4.03" 102.3 mm	3.16" 80.3 mm	2.54" 64.6 mm	3.79" 96.2 mm	2.48" 63.0 mm	1.62" 41.3 mm	1.50" 38.1 mm	1-11/2 NPTF	1-5/16-12 UN-2A

Female Pipe - Female NPSM Pipe Swivel



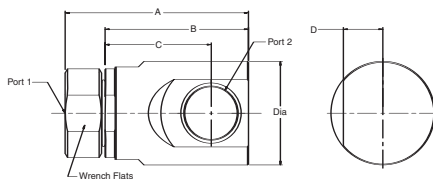
Part Number	A	B	C	D	Dia.	Hex 1	Hex 2	Port 1	Port 2
PS490207-4-4	2.42" 61.4 mm	2.01" 51.2 mm	1.48" 37.5 mm	2.08" 52.8 mm	1.20" 30.5 mm	.75" 19.0 mm	.69" 17.4 mm	1/4-18 NPTF	1/4-18 NPSM
PS690207-6-6	2.68" 68.2 mm	2.17" 55.2 mm	1.51" 38.4 mm	2.16" 54.8 mm	1.29" 32.8 mm	.88" 22.2 mm	.69" 17.5 mm	3/8-18 NPTF	3/8-18 NPSM
PS890207-8-8	2.96" 75.3 mm	2.37" 60.3 mm	1.86" 47.2 mm	2.72" 69.2 mm	1.73" 44.0 mm	1.12" 28.6 mm	1.00" 25.4 mm	1/2-14 NPTF	1/2-14 NPSM
PS1290207-12-12	3.43" 87.2 mm	2.77" 70.4 mm	2.24" 56.9 mm	3.33" 84.5 mm	2.17" 55.2 mm	1.38" 35.0 mm	1.25" 31.8 mm	3/4-14 NPTF	3/4-14 NPSM
PS1690207-16-16	4.03" 102.3 mm	3.16" 80.3 mm	2.48" 63.1 mm	3.73" 94.6 mm	2.48" 63.0 mm	1.62" 41.3 mm	1.50" 38.1 mm	1-11/2 NPTF	1-11/2 NPSM

Female Pipe - Female SAE Straight Thread



Part Number	A	B	Dia.	Hex 1	Port 1	Port 2
PS490210-4-4	2.42" 61.4 mm	2.01" 51.2 mm	1.20" 30.5 mm	.75" 19.0 mm	1/4-18 NPTF	7/16-20 UNF-2B
PS690210-6-6	2.68" 68.2 mm	2.17" 55.2 mm	1.29" 32.8 mm	.88" 22.2 mm	3/8-18 NPTF	9/16-18 UNF-2B
PS890210-8-8	2.96" 75.3 mm	2.37" 60.3 mm	1.73" 44.0 mm	1.12" 28.6 mm	1/2-14 NPTF	3/4-16 UNF-2B
PS1290210-12-12	3.43" 87.2 mm	2.77" 70.4 mm	2.17" 55.2 mm	1.38" 35.0 mm	3/4-14 NPTF	1-1/16-12 UN-2B
PS1690210-16-16	4.03" 102.3 mm	3.16" 80.3 mm	2.48" 63.0 mm	1.62" 41.3 mm	1-11/2 NPTF	1-5/16-12 UN-2B

3 Piece Design

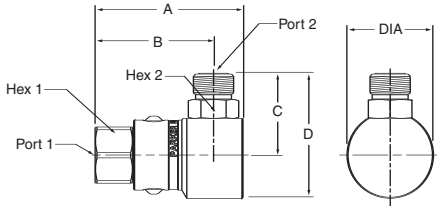


Part Number	A	B	C	D	Wrench Flats	Dia.	Port 1	Port 2
PS2490210-20-20	5.91" 150.2 mm	4.63" 117.5 mm	3.43" 87.0 mm	1.27" 32.3 mm	2.63" 66.7 mm	3.36" 85.2 mm	1 1/4-11 1/2 NPTF	1 5/8-12 UN-2B
PS2490210-24-24	5.91" 150.2 mm	4.63" 117.5 mm	3.43" 87.0 mm	1.27" 32.3 mm	2.63" 66.7 mm	3.36" 85.2 mm	1 1/4-11 1/2 NPTF	1 5/8-12 UN-2B
PS3290210-32-32	6.75" 171.5 mm	5.45" 138.4 mm	3.93" 99.7 mm	1.52" 38.5 mm	3.06" 77.6 mm	4.19" 106.4 mm	2 11/2 NPTF	2-1/2-12 UN-2B

Swivels

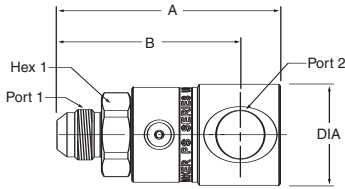
90° PS Series

Female Pipe - O-Ring Face Seal



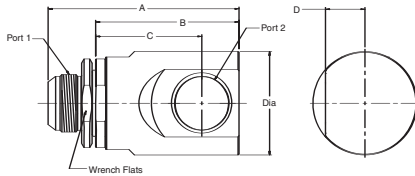
Part Number	A	B	C	D	Dia.	Hex 1	Hex 2	Port 1	Port 2
PS4902JM-4-4	2.42" 61.4 mm	2.01" 51.2 mm	1.29" 32.5 mm	1.89" 47.9 mm	1.20" 30.5 mm	.75" 19.0 mm	.56" 14.3 mm	1/4-18 NPTF	9/16-18 UNF-2A
PS6902JM-6-6	2.68" 68.2 mm	2.17" 55.2 mm	1.40" 35.6 mm	2.05" 52.0 mm	1.29" 32.8 mm	.88" 22.2 mm	.69" 17.5 mm	3/8-18 NPTF	11/16-16 UN-2A
PS8902JM-8-8	2.96" 75.3 mm	2.37" 60.3 mm	1.74" 44.1 mm	2.60" 66.1 mm	1.73" 44.0 mm	1.12" 28.6 mm	.88" 22.2 mm	1/2-14 NPTF	13/16-16 UN-2A
PS12902JM-12-12	3.43" 87.2 mm	2.77" 70.4 mm	2.18" 55.4 mm	3.27" 83.0 mm	2.17" 55.2 mm	1.38" 35.0 mm	1.25" 31.8 mm	3/4-14 NPTF	1-3/16-12 UN-2A
PS16902JM-16-16	4.03" 102.3 mm	3.16" 80.3 mm	2.34" 59.6 mm	3.59" 91.1 mm	2.48" 63.0 mm	1.62" 41.3 mm	1.50" 38.1 mm	1-11/2 NPTF	1-7/16-12 UN-2A

Male 37° Flare - Female Pipe



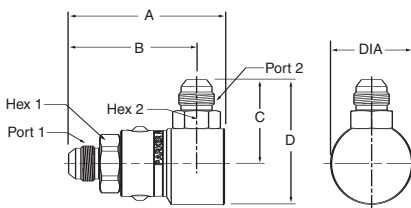
Part Number	A	B	Dia.	Hex 1	Port 1	Port 2
PS490302-4-4	2.85" 72.3 mm	2.44" 62.0 mm	1.20" 30.5 mm	.75" 19.0 mm	7/16-20 UNF-2A	1/4-18 NPTF
PS690302-6-6	3.05" 77.4 mm	2.54" 64.4 mm	1.29" 32.8 mm	.88" 22.2 mm	9/16-18 UNF-2A	3/8-18 NPTF
PS890302-8-8	3.29" 83.7 mm	2.70" 68.7 mm	1.49" 37.8 mm	1.12" 28.6 mm	3/4-16 UNF-2A	1/2-14 NPTF
PS1290302-12-12	3.76" 95.6 mm	3.10" 78.8 mm	1.76" 44.6 mm	1.38" 35.0 mm	1-1/16-12 UN-2A	3/4-14 NPTF
PS1690302-16-16	4.41" 112.0 mm	3.54" 90.0 mm	2.16" 54.9 mm	1.62" 41.3 mm	1-5/16-12 UN-2A	1-11/2 NPTF

3 Piece Design



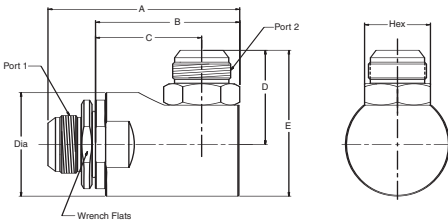
Part Number	A	B	C	D	Wrench Flats	Dia.	Port 1	Port 2
PS2490302-20-20	6.16" 150.2 mm	4.63" 117.5 mm	3.43" 87.0 mm	1.27" 32.3 mm	2.63" 66.7 mm	3.36" 85.2 mm	1 5/8-12 UN-2A	1 1/4-11 1/2 NPTF
PS2490302-24-24	6.16" 150.2 mm	4.63" 117.5 mm	3.43" 87.0 mm	1.27" 32.3 mm	2.63" 66.7 mm	3.36" 85.2 mm	1 7/8-12 UN-2A	1 1/2-11 1/2 NPTF
PS3290302-32-32	7.38" 187.4 mm	5.45" 138.4 mm	3.93" 99.7 mm	1.52" 38.5 mm	3.06" 77.6 mm	4.19" 106.4 mm	2 1/2-12 UN-2A	2-11-1/2 NPTF

Male 37° Flare - Male 37° Flare



Part Number	A	B	C	D	Dia.	Hex 1	Hex 2	Port 1	Port 2
PS490303-4-4	2.85" 72.3 mm	2.44" 62.0 mm	1.39" 35.2 mm	1.99" 50.5 mm	1.20" 30.5 mm	.75" 19.0 mm	.56" 14.3 mm	7/16-20 UNF-2A	7/16-20 UNF-2A
PS690303-6-6	3.05" 77.4 mm	2.54" 64.4 mm	1.44" 36.6 mm	2.09" 53.0 mm	1.29" 32.8 mm	.88" 22.2 mm	.69" 17.5 mm	9/16-18 UNF-2A	9/16-18 UNF-2A
PS890303-8-8	3.29" 83.7 mm	2.70" 68.7 mm	1.78" 45.1 mm	2.64" 67.1 mm	1.73" 44.0 mm	1.12" 28.6 mm	.88" 22.2 mm	3/4-16 UNF-2A	3/4-16 UNF-2A
PS890303-10-10	3.39" 86.2 mm	2.80" 71.2 mm	1.90" 48.4 mm	2.77" 70.4 mm	1.73" 44.0 mm	1.12" 28.6 mm	.88" 22.2 mm	7/8-14 UNF-2A	7/8-14 UNF-2A
PS1290303-12-12	3.76" 95.6 mm	3.10" 78.8 mm	2.24" 56.9 mm	3.86" 98.3 mm	2.17" 55.2 mm	1.38" 35.0 mm	1.25" 31.8 mm	1-1/16-12 UN-2A	1-1/16-12 UN-2A
PS1690303-16-16	4.41" 112.0 mm	3.54" 90.0 mm	2.42" 61.3 mm	3.66" 92.9 mm	2.48" 63.0 mm	1.62" 41.3 mm	1.50" 38.1 mm	1-5/16-12 UN-2A	1-5/16-12 UN-2A

3 Piece Design



Part Number	A	B	C	D	E	Hex	Wrench Flats	Dia.	Port 1	Port 2
PS2490303-20-20	6.16" 156.4 mm	4.63" 117.5 mm	3.43" 87.0 mm	2.85" 72.4 mm	4.53" 115.0 mm	1.88" 47.6 mm	2.63" 66.7 mm	3.36" 85.2 mm	1 5/8-12 UN-2A	1 5/8-12 UN-2A
PS2490303-24-24	5.81" 157.1 mm	4.65" 118.2 mm	3.43" 87.0 mm	3.05" 77.6 mm	4.73" 120.2 mm	2.13" 54.0 mm	2.63" 66.7 mm	3.36" 85.2 mm	1 7/8-12 UN-2A	1 7/8-12 UN-2A
PS3290303-32-32	7.44" 189.0 mm	5.51" 140.0 mm	3.93" 99.7 mm	3.70" 94.0 mm	5.80" 147.2 mm	2.75" 69.8 mm	3.06" 77.6 mm	4.19" 106.4 mm	2 1/2-12 UN-2A	2 1/2-12 UN-2A

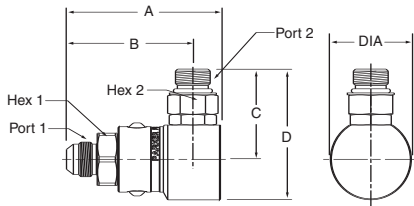
D Swivels



Swivels

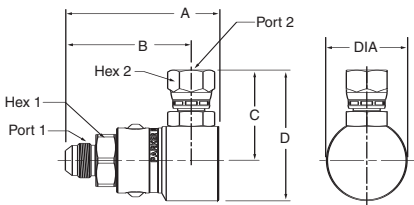
90° PS Series

Male 37° Flare - Male SAE O-Ring Straight Thread



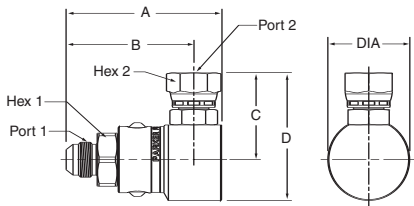
Part Number	A	B	C	D	Dia.	Hex 1	Hex 2	Port 1	Port 2
PS490305-4-4	2.85" 72.3 mm	2.44" 62.0 mm	1.38" 35.0 mm	1.98" 50.2 mm	1.20" 30.5 mm	.75" 19.0 mm	.56" 14.3 mm	7/16-20 UNF-2A	7/16-20 UNF-2A
PS690305-6-6	3.05" 77.4 mm	2.54" 64.4 mm	1.55" 39.4 mm	2.20" 55.8 mm	1.29" 32.8 mm	.88" 22.2 mm	.69" 17.5 mm	9/16-18 UNF-2A	9/16-18 UNF-2A
PS890305-8-8	3.29" 83.7 mm	2.70" 68.7 mm	1.86" 47.2 mm	2.72" 69.2 mm	1.73" 44.0 mm	1.12" 28.6 mm	.88" 22.2 mm	3/4-16 UNF-2A	3/4-16 UNF-2A
PS1290305-12-12	3.76" 95.6 mm	3.10" 78.8 mm	2.40" 61.0 mm	3.49" 88.5 mm	2.17" 55.2 mm	1.38" 35.0 mm	1.25" 31.8 mm	1-1/16-12 UN-2A	1-1/16-12 UN-2A
PS1690305-16-16	4.41" 112.0 mm	3.54" 90.0 mm	2.50" 63.4 mm	3.74" 94.9 mm	2.48" 63.0 mm	1.62" 41.3 mm	1.50" 38.1 mm	1-5/16-12 UN-2A	1-5/16-12 UN-2A

Male 37° Flare - Female 37° Flare



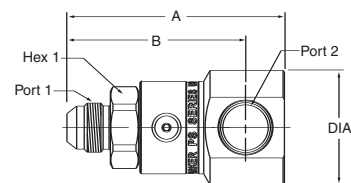
Part Number	A	B	C	D	Dia.	Hex 1	Hex 2	Port 1	Port 2
PS490306-4-4	2.85" 72.3 mm	2.44" 62.0 mm	1.47" 37.3 mm	2.07" 52.5 mm	1.20" 30.5 mm	.75" 19.0 mm	.56" 14.3 mm	7/16-20 UNF-2A	7/16-20 UNF-2B
PS690306-6-6	3.05" 77.4 mm	2.54" 64.4 mm	1.57" 39.9 mm	2.22" 56.3 mm	1.29" 32.8 mm	.88" 22.2 mm	.69" 17.5 mm	9/16-18 UNF-2A	9/16-18 UNF-2B
PS890306-8-8	3.29" 83.7 mm	2.70" 68.7 mm	1.91" 48.4 mm	2.77" 70.4 mm	1.73" 44.0 mm	1.12" 28.6 mm	.88" 22.2 mm	3/4-16 UNF-2A	3/4-16 UNF-2B
PS1290306-12-12	3.76" 95.6 mm	3.10" 78.8 mm	2.34" 59.4 mm	3.43" 87.0 mm	2.17" 55.2 mm	1.38" 35.0 mm	1.25" 31.8 mm	1-1/16-12 UN-2A	1-1/16-12 UN-2B
PS1690306-16-16	4.41" 112.0 mm	3.54" 90.0 mm	2.54" 64.6 mm	3.79" 96.2 mm	2.48" 63.0 mm	1.62" 41.3 mm	1.50" 38.1 mm	1-5/16-12 UN-2A	1-5/16-12 UN-2B

Male 37° Flare - Female NPSM Pipe Swivel



Part Number	A	B	C	D	Dia.	Hex 1	Hex 2	Port 1	Port 2
PS490307-4-4	2.85" 72.3 mm	2.44" 62.0 mm	1.48" 37.5 mm	2.08" 52.8 mm	1.20" 30.5 mm	.75" 19.0 mm	.69" 17.4 mm	7/16-20 UNF-2A	1/4-18 NPSM
PS690307-6-6	3.05" 77.4 mm	2.54" 64.4 mm	1.51" 38.4 mm	2.16" 54.8 mm	1.29" 32.8 mm	.88" 22.2 mm	.88" 22.2 mm	9/16-18 UNF-2A	3/8-18 NPSM
PS890307-8-8	3.29" 83.7 mm	2.70" 68.7 mm	1.86" 47.2 mm	2.72" 69.2 mm	1.73" 44.0 mm	1.12" 28.6 mm	1.00" 25.4 mm	3/4-16 UNF-2A	1/2-14 NPSM
PS1290307-12-12	3.76" 95.6 mm	3.10" 78.8 mm	2.24" 56.9 mm	3.33" 84.5 mm	2.17" 55.2 mm	1.38" 35.0 mm	1.25" 31.8 mm	1-1/16-12 UN-2A	3/4-14 NPSM
PS1690307-16-16	4.41" 112.0 mm	3.54" 90.0 mm	2.48" 63.1 mm	3.73" 94.6 mm	2.48" 63.0 mm	1.62" 41.3 mm	1.50" 38.1 mm	1-5/16-12 UN-2A	1-11/2 NPSM

Male 37° Flare - Female SAE Straight Thread

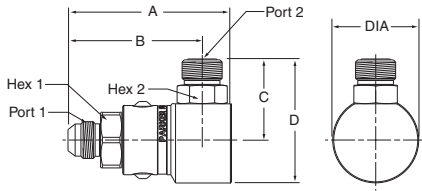


Part Number	A	B	Dia.	Hex 1	Port 1	Port 2
PS490310-4-4	2.85" 72.3 mm	2.44" 62.0 mm	1.20" 30.5 mm	.75" 19.0 mm	7/16-20 UNF-2A	7/16-20 UNF-2B
PS690310-6-6	3.05" 77.4 mm	2.54" 64.4 mm	1.29" 32.8 mm	.88" 22.2 mm	9/16-18 UNF-2A	9/16-18 UNF-2B
PS890310-8-8	3.29" 83.7 mm	2.70" 68.7 mm	1.73" 44.0 mm	1.12" 28.6 mm	3/4-16 UNF-2A	3/4-16 UNF-2B
PS1290310-12-12	3.76" 95.6 mm	3.10" 78.8 mm	2.17" 55.2 mm	1.38" 35.0 mm	1-1/16-12 UN-2A	1-1/16-12 UN-2B
PS1690310-16-16	4.41" 112.0 mm	3.54" 90.0 mm	2.48" 63.0 mm	1.62" 41.3 mm	1-1/16-12 UN-2A	1-1/16-12 UN-2B

Swivels

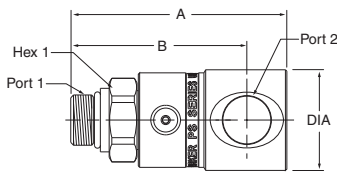
90° PS Series

Male 37° Flare - O-Ring Face Seal



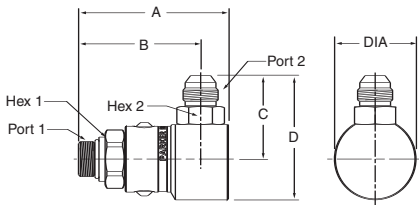
Part Number	A	B	C	D	Dia.	Hex 1	Hex 2	Port 1	Port 2
PS4903JM-4-4	2.85" 72.3 mm	2.44" 62.0 mm	1.29" 32.5 mm	1.89" 47.9 mm	1.20" 30.5 mm	.75" 19.0 mm	.56" 14.3 mm	7/16-20 UNF-2A	9/16-18 UNF-2A
PS6903JM-6-6	3.05" 77.4 mm	2.54" 64.4 mm	1.40" 35.6 mm	2.05" 52.0 mm	1.29" 32.8 mm	.88" 22.2 mm	.69" 17.5 mm	9/16-18 UNF-2A	11/16-16 UN-2A
PS8903JM-8-8	3.29" 83.7 mm	2.70" 68.7 mm	1.74" 44.1 mm	2.60" 66.1 mm	1.73" 44.0 mm	1.12" 28.6 mm	.88" 22.2 mm	3/4-16 UNF-2A	13/16-16 UN-2A
PS8903JM-10-10	3.39" 86.2 mm	2.80" 71.2 mm	1.96" 49.9 mm	2.83" 71.9 mm	1.73" 44.0 mm	1.12" 28.6 mm	.88" 22.2 mm	7/8-14 UNF-2A	1-14 UN-2A
PS12903JM-12-12	3.76" 95.6 mm	3.10" 78.8 mm	2.18" 55.4 mm	3.27" 83.0 mm	2.17" 55.2 mm	1.38" 35.0 mm	1.25" 31.8 mm	1-1/16-12 UN-2A	1-3/16-12 UN-2A
PS16903JM-16-16	4.41" 112.0 mm	3.54" 90.0 mm	2.34" 59.6 mm	3.59" 91.1 mm	2.48" 63.0 mm	1.62" 41.3 mm	1.50" 38.1 mm	1-5/16-12 UN-2A	1-7/16-12 UN-2A

Male SAE O-Ring Straight Thread - Female Pipe



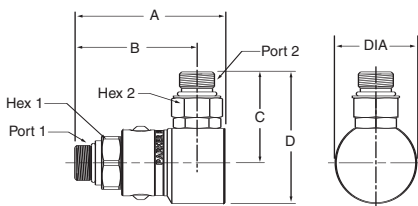
Part Number	A	B	Dia.	Hex 1	Port 1	Port 2
PS490502-4-4	2.70" 68.6 mm	2.29" 58.3 mm	1.20" 30.5 mm	.75" 19.0 mm	7/16-20 UNF-2A	1/4-18 NPTF
PS690502-6-6	2.87" 72.8 mm	2.36" 59.8 mm	1.29" 32.8 mm	.88" 22.2 mm	9/16-18 UNF-2A	3/8-18 NPTF
PS890502-8-8	3.19" 80.9 mm	2.60" 65.9 mm	1.49" 37.8 mm	1.12" 28.6 mm	3/4-16 UNF-2A	1/2-14 NPTF
PS1290502-12-12	3.58" 90.9 mm	2.92" 74.0 mm	1.76" 44.6 mm	1.38" 35.0 mm	1-1/16-12 UN-2A	3/4-14 NPTF
PS1690502-16-16	4.18" 106.3 mm	3.32" 84.3 mm	2.16" 54.9 mm	1.62" 41.3 mm	1-5/16-12 UN-2A	1-11/2 NPTF

Male SAE O-Ring Straight Thread - Male 37° Flare



Part Number	A	B	C	D	Dia.	Hex 1	Hex 2	Port 1	Port 2
PS490503-4-4	2.70" 68.6 mm	2.29" 58.3 mm	1.39" 35.2 mm	1.99" 50.5 mm	1.20" 30.5 mm	.75" 19.0 mm	.56" 14.3 mm	7/16-20 UNF-2A	7/16-20 UNF-2A
PS690503-6-6	2.87" 72.8 mm	2.36" 59.8 mm	1.44" 36.6 mm	2.09" 53.0 mm	1.29" 32.8 mm	.88" 22.2 mm	.69" 17.5 mm	9/16-18 UNF-2A	9/16-18 UNF-2A
PS890503-8-8	3.19" 80.9 mm	2.60" 65.9 mm	1.78" 45.1 mm	2.64" 67.1 mm	1.73" 44.0 mm	1.12" 28.6 mm	.88" 22.2 mm	3/4-16 UNF-2A	3/4-16 UNF-2A
PS890503-10-10	3.25" 82.5 mm	2.66" 67.5 mm	1.90" 48.4 mm	2.77" 70.4 mm	1.73" 44.0 mm	1.12" 28.6 mm	.88" 22.2 mm	7/8-14 UNF-2A	7/8-14 UNF-2A
PS1290503-12-12	3.58" 90.9 mm	2.92" 74.0 mm	2.24" 56.9 mm	3.86" 98.3 mm	2.17" 55.2 mm	1.38" 35.0 mm	1.25" 31.8 mm	1-1/16-12 UN-2A	1-1/16-12 UN-2A
PS1690503-16-16	4.18" 106.3 mm	3.32" 84.3 mm	2.42" 61.3 mm	3.66" 92.9 mm	2.48" 63.0 mm	1.62" 41.3 mm	1.50" 38.1 mm	1-5/16-12 UN-2A	1-5/16-12 UN-2A

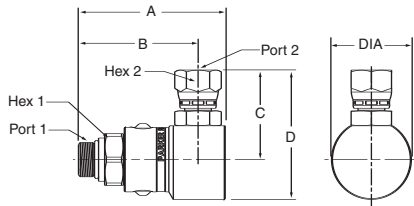
Male SAE O-Ring Straight Thread - Male SAE O-Ring Straight Thread



Part Number	A	B	C	D	Dia.	Hex 1	Hex 2	Port 1	Port 2
PS490505-4-4	2.70" 68.6 mm	2.29" 58.3 mm	1.38" 35.0 mm	1.98" 50.2 mm	1.20" 30.5 mm	.75" 19.0 mm	.56" 14.3 mm	7/16-20 UNF-2A	7/16-20 UNF-2A
PS690505-6-6	2.87" 72.8 mm	2.36" 59.8 mm	1.55" 39.4 mm	2.20" 55.8 mm	1.29" 32.8 mm	.88" 22.2 mm	.69" 17.5 mm	9/16-18 UNF-2A	9/16-18 UNF-2A
PS890505-8-8	3.19" 80.9 mm	2.60" 65.9 mm	1.86" 47.2 mm	2.72" 69.2 mm	1.73" 44.0 mm	1.12" 28.6 mm	.88" 22.2 mm	3/4-16 UNF-2A	3/4-16 UNF-2A
PS1290505-12-12	3.58" 90.9 mm	2.92" 74.0 mm	2.40" 61.0 mm	3.49" 88.5 mm	2.17" 55.2 mm	1.38" 35.0 mm	1.25" 31.8 mm	1-1/16-12 UN-2A	1-1/16-12 UN-2A
PS1690505-16-16	4.18" 106.3 mm	3.32" 84.3 mm	2.50" 63.4 mm	3.74" 94.9 mm	2.48" 63.0 mm	1.62" 41.3 mm	1.50" 38.1 mm	1-5/16-12 UN-2A	1-5/16-12 UN-2A

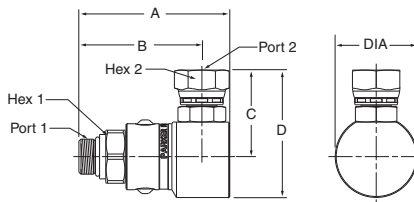
D Swivels

Male SAE O-Ring Straight Thread - Female 37° Flare



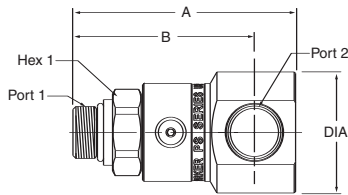
Part Number	A	B	C	D	Dia.	Hex 1	Hex 2	Port 1	Port 2
PS490506-4-4	2.70" 68.6 mm	2.29" 58.3 mm	1.47" 37.3 mm	2.07" 52.5 mm	1.20" 30.5 mm	.75" 19.0 mm	.56" 14.3 mm	7/16-20 UNF-2A	7/16-20 UNF-2B
PS690506-6-6	2.87" 72.8 mm	2.36" 59.8 mm	1.57" 39.9 mm	2.22" 56.3 mm	1.29" 32.8 mm	.88" 22.2 mm	.69" 17.5 mm	9/16-18 UNF-2A	9/16-18 UNF-2B
PS890506-8-8	3.19" 80.9 mm	2.60" 65.9 mm	1.91" 48.4 mm	2.77" 70.4 mm	1.73" 44.0 mm	1.12" 28.6 mm	.88" 22.2 mm	3/4-16 UNF-2A	3/4-16 UNF-2B
PS1290506-12-12	3.58" 90.9 mm	2.92" 74.0 mm	2.34" 59.4 mm	3.43" 87.0 mm	2.17" 55.2 mm	1.38" 35.0 mm	1.25" 31.8 mm	1-1/16-12 UN-2A	1-1/16-12 UN-2B
PS1690506-16-16	4.18" 106.3 mm	3.32" 84.3 mm	2.54" 64.6 mm	3.79" 96.2 mm	2.48" 63.0 mm	1.62" 41.3 mm	1.50" 38.1 mm	1-5/16-12 UN-2A	1-5/16-12 UN-2B

Male SAE O-Ring Straight Thread - Female NPSM Pipe Swivel



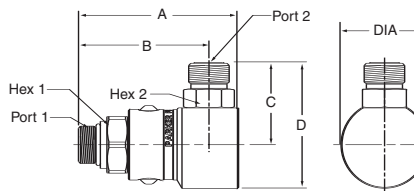
Part Number	A	B	C	D	Dia.	Hex 1	Hex 2	Port 1	Port 2
PS490507-4-4	2.70" 68.6 mm	2.29" 58.3 mm	1.48" 37.5 mm	2.08" 52.8 mm	1.20" 30.5 mm	.75" 19.0 mm	.69" 17.4 mm	7/16-20 UNF-2A	1/4-18 NPSM
PS690507-6-6	2.87" 72.8 mm	2.36" 59.8 mm	1.51" 38.4 mm	2.16" 54.8 mm	1.29" 32.8 mm	.88" 22.2 mm	.88" 22.2 mm	9/16-18 UNF-2A	3/8-18 NPSM
PS890507-8-8	3.19" 80.9 mm	2.60" 65.9 mm	1.86" 47.2 mm	2.72" 69.2 mm	1.73" 44.0 mm	1.12" 28.6 mm	1.00" 25.4 mm	3/4-16 UNF-2A	1/2-14 NPSM
PS1290507-12-12	3.58" 90.9 mm	2.92" 74.0 mm	2.24" 56.9 mm	3.33" 84.5 mm	2.17" 55.2 mm	1.38" 35.0 mm	1.25" 31.8 mm	1-1/16-12 UN-2A	3/4-14 NPSM
PS1690507-16-16	4.18" 106.3 mm	3.32" 84.3 mm	2.48" 63.1 mm	3.73" 94.6 mm	2.48" 63.0 mm	1.62" 41.3 mm	1.50" 38.1 mm	1-5/16-12 UN-2A	1-11/2 NPSM

Male SAE O-Ring Straight Thread - Female SAE Straight Thread



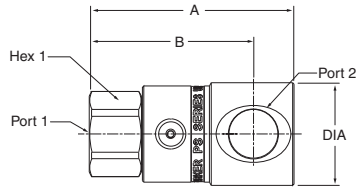
Part Number	A	B	Dia.	Hex 1	Port 1	Port 2
PS490510-4-4	2.70" 68.6 mm	2.29" 58.3 mm	1.20" 30.5 mm	.75" 19.0 mm	7/16-20 UNF-2A	7/16-20 UNF-2B
PS690510-6-6	2.87" 72.8 mm	2.36" 59.8 mm	1.29" 32.8 mm	.88" 22.2 mm	9/16-18 UNF-2A	9/16-18 UNF-2B
PS890510-8-8	3.19" 80.9 mm	2.60" 65.9 mm	1.73" 44.0 mm	1.12" 28.6 mm	3/4-16 UNF-2A	3/4-16 UNF-2B
PS1290510-12-12	3.58" 90.9 mm	2.92" 74.0 mm	2.17" 55.2 mm	1.38" 35.0 mm	1-1/16-12 UN-2A	1-1/16-12 UN-2B
PS1690510-16-16	4.18" 106.3 mm	3.32" 84.3 mm	2.48" 63.0 mm	1.62" 41.3 mm	1-5/16-12 UN-2A	1-5/16-12 UN-2B

Male SAE O-Ring Straight Thread - O-Ring Face Seal



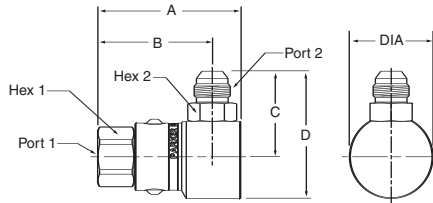
Part Number	A	B	C	D	Dia.	Hex 1	Hex 2	Port 1	Port 2
PS4905JM-4-4	2.70" 68.6 mm	2.29" 58.3 mm	1.29" 32.5 mm	1.89" 47.9 mm	1.20" 30.5 mm	.75" 19.0 mm	.56" 14.3 mm	7/16-20 UNF-2A	9/16-18 UNF-2A
PS6905JM-6-6	2.87" 72.8 mm	2.36" 59.8 mm	1.40" 35.6 mm	2.05" 52.0 mm	1.29" 32.8 mm	.88" 22.2 mm	.69" 17.5 mm	9/16-18 UNF-2A	11/16-16 UN-2A
PS8905JM-8-8	3.19" 80.9 mm	2.60" 65.9 mm	1.74" 44.1 mm	2.60" 66.1 mm	1.73" 44.0 mm	1.12" 28.6 mm	.88" 22.2 mm	3/4-16 UNF-2A	13/16-16 UN-2A
PS8905JM-10-10	3.25" 82.5 mm	2.66" 67.5 mm	1.96" 49.9 mm	2.83" 71.9 mm	1.73" 44.0 mm	1.12" 28.6 mm	.88" 22.2 mm	7/8-14 UNF-2A	1-14 UN-2A
PS12905JM-12-12	3.58" 90.9 mm	2.92" 74.0 mm	2.18" 55.4 mm	3.27" 83.0 mm	2.17" 55.2 mm	1.38" 35.0 mm	1.25" 31.8 mm	1-1/16-12 UN-2A	1-3/16-12 UN-2A
PS16905JM-16-16	4.18" 106.3 mm	3.32" 84.3 mm	2.34" 59.6 mm	3.59" 91.1 mm	2.48" 63.0 mm	1.62" 41.3 mm	1.50" 38.1 mm	1-5/16-12 UN-2A	1-7/16-12 UN-2A

Female SAE Straight Thread - Female Pipe



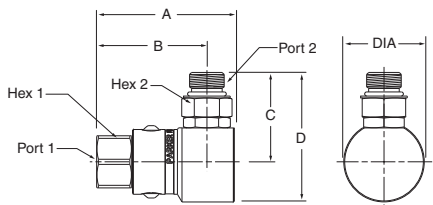
Part Number	A	B	Dia.	Hex 1	Port 1	Port 2
PS491002-4-4	2.42" 61.4 mm	2.01" 51.2 mm	1.20" 30.5 mm	.75" 19.0 mm	7/16-20 UNF-2B	1/4-18 NPTF
PS691002-6-6	2.68" 68.2 mm	2.17" 55.2 mm	1.29" 32.8 mm	.88" 22.2 mm	9/16-18 UNF-2B	3/8-18 NPTF
PS891002-8-8	2.96" 75.3 mm	2.37" 60.3 mm	1.49" 37.8 mm	1.12" 28.6 mm	3/4-16 UNF-2B	1/2-14 NPTF
PS1291002-12-12	3.43" 87.2 mm	2.77" 70.4 mm	1.76" 44.6 mm	1.38" 35.0 mm	1-1/16-12 UN-2B	3/4-14 NPTF
PS1691002-16-16	4.03" 102.3 mm	3.16" 80.3 mm	2.16" 54.9 mm	1.62" 41.3 mm	1-5/16-12 UN-2B	1-11/2 NPTF

Female SAE Straight Thread - Male 37° Flare



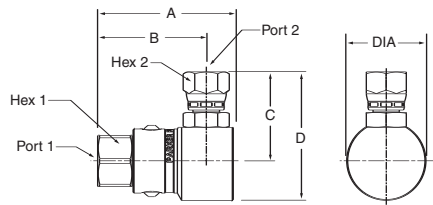
Part Number	A	B	C	D	Dia.	Hex 1	Hex 2	Port 1	Port 2
PS491003-4-4	2.42" 61.4 mm	2.01" 51.2 mm	1.39" 35.2 mm	1.99" 50.5 mm	1.20" 30.5 mm	.75" 19.0 mm	.56" 14.3 mm	7/16-20 UNF-2B	7/16-20 UNF-2A
PS691003-6-6	2.68" 68.2 mm	2.17" 55.2 mm	1.44" 36.6 mm	2.09" 53.0 mm	1.29" 32.8 mm	.88" 22.2 mm	.69" 17.5 mm	9/16-18 UNF-2B	9/16-18 UNF-2A
PS891003-8-8	2.96" 75.3 mm	2.37" 60.3 mm	1.78" 45.1 mm	2.64" 67.1 mm	1.73" 44.0 mm	1.12" 28.6 mm	.88" 22.2 mm	3/4-16 UNF-2B	3/4-16 UNF-2A
PS1291003-12-12	3.43" 87.2 mm	2.77" 70.4 mm	2.24" 56.9 mm	3.86" 98.5 mm	2.17" 55.2 mm	1.38" 35.0 mm	1.25" 31.8 mm	1-1/16-12 UN-2B	1-1/16-12 UN-2A
PS1691003-16-16	4.03" 102.3 mm	3.16" 80.3 mm	2.42" 61.3 mm	3.66" 92.9 mm	2.48" 63.0 mm	1.62" 41.3 mm	1.50" 38.1 mm	1-5/16-12 UN-2B	1-5/16-12 UN-2A

Female SAE Straight Thread - Male SAE O-Ring Straight Thread



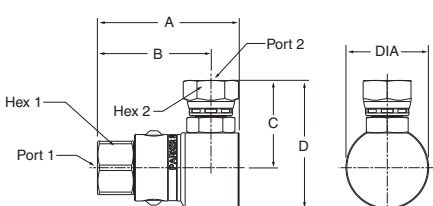
Part Number	A	B	C	D	Dia.	Hex 1	Hex 2	Port 1	Port 2
PS491005-4-4	2.42" 61.4 mm	2.01" 51.2 mm	1.38" 35.0 mm	1.98" 50.2 mm	1.20" 30.5 mm	.75" 19.0 mm	.56" 14.3 mm	7/16-20 UNF-2B	7/16-20 UNF-2A
PS691005-6-6	2.68" 68.2 mm	2.17" 55.2 mm	1.55" 39.4 mm	2.20" 55.8 mm	1.29" 32.8 mm	.88" 22.2 mm	.69" 17.5 mm	9/16-18 UNF-2B	9/16-18 UNF-2A
PS891005-8-8	2.96" 75.3 mm	2.37" 60.3 mm	1.86" 47.2 mm	2.72" 69.2 mm	1.73" 44.0 mm	1.12" 28.6 mm	.88" 22.2 mm	3/4-16 UNF-2B	3/4-16 UNF-2A
PS1291005-12-12	3.43" 87.2 mm	2.77" 70.4 mm	2.40" 61.0 mm	3.49" 88.5 mm	2.17" 55.2 mm	1.38" 35.0 mm	1.25" 31.8 mm	1-1/16-12 UN-2B	1-1/16-12 UN-2A
PS1691005-16-16	4.03" 102.3 mm	3.16" 80.3 mm	2.50" 63.4 mm	3.74" 94.9 mm	2.48" 63.0 mm	1.62" 41.3 mm	1.50" 38.1 mm	1-5/16-12 UN-2B	1-5/16-12 UN-2A

Female SAE Straight Thread - Female 37° Flare



Part Number	A	B	C	D	Dia.	Hex 1	Hex 2	Port 1	Port 2
PS491006-4-4	2.42" 61.4 mm	2.01" 51.2 mm	1.47" 37.3 mm	2.07" 52.5 mm	1.20" 30.5 mm	.75" 19.0 mm	.56" 14.3 mm	7/16-20 UNF-2B	7/16-20 UNF-2B
PS691006-6-6	2.68" 68.2 mm	2.17" 55.2 mm	1.57" 39.9 mm	2.22" 56.3 mm	1.29" 32.8 mm	.88" 22.2 mm	.69" 17.5 mm	9/16-18 UNF-2B	9/16-18 UNF-2B
PS891006-8-8	2.96" 75.3 mm	2.37" 60.3 mm	1.91" 48.4 mm	2.77" 70.4 mm	1.73" 44.0 mm	1.12" 28.6 mm	.88" 22.2 mm	3/4-16 UNF-2B	3/4-16 UNF-2B
PS1291006-12-12	3.43" 87.2 mm	2.77" 70.4 mm	2.34" 59.4 mm	3.43" 87.0 mm	2.17" 55.2 mm	1.38" 35.0 mm	1.25" 31.8 mm	1-1/16-12 UN-2B	1-1/16-12 UN-2B
PS1691006-16-16	4.03" 102.3 mm	3.16" 80.3 mm	2.54" 64.6 mm	3.79" 96.2 mm	2.48" 63.0 mm	1.62" 41.3 mm	1.50" 38.1 mm	1-5/16-12 UN-2B	1-5/16-12 UN-2B

Female SAE Straight Thread - Female NPSM Pipe Swivel

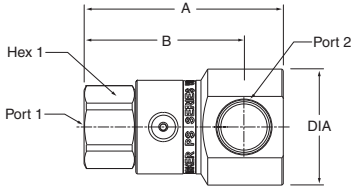


Part Number	A	B	C	D	Dia.	Hex 1	Hex 2	Port 1	Port 2
PS491007-4-4	2.42" 61.4 mm	2.01" 51.2 mm	1.48" 37.5 mm	2.08" 52.8 mm	1.20" 30.5 mm	.75" 19.0 mm	.69" 17.4 mm	7/16-20 UNF-2B	1/4-18 NPSM
PS691007-6-6	2.68" 68.2 mm	2.17" 55.2 mm	1.51" 38.4 mm	2.16" 54.8 mm	1.29" 32.8 mm	.88" 22.2 mm	.88" 22.2 mm	9/16-18 UNF-2B	3/8-18 NPSM
PS891007-8-8	2.96" 75.3 mm	2.37" 60.3 mm	1.86" 47.2 mm	2.72" 69.2 mm	1.73" 44.0 mm	1.12" 28.6 mm	1.00" 25.4 mm	3/4-16 UNF-2B	1/2-14 NPSM
PS1291007-12-12	3.43" 87.2 mm	2.77" 70.4 mm	2.24" 56.9 mm	3.33" 84.5 mm	2.17" 55.2 mm	1.38" 35.0 mm	1.25" 31.8 mm	1-1/16-12 UN-2B	3/4-14 NPSM
PS1691007-16-16	4.03" 102.3 mm	3.16" 80.3 mm	2.48" 63.1 mm	3.73" 94.6 mm	2.48" 63.0 mm	1.62" 41.3 mm	1.50" 38.1 mm	1-5/16-12 UN-2B	1-11/2 NPSM

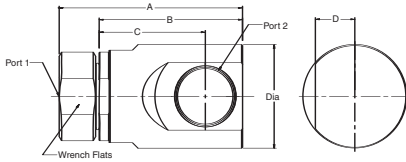
Swivels

90° PS Series

Female SAE Straight Thread - Female SAE Straight Thread



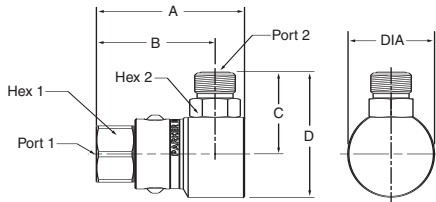
3 Piece Design



Part Number	A	B	Dia.	Hex 1	Port 1	Port 2
PS491010-4-4	2.42" 61.4 mm	2.01" 51.2 mm	1.20" 30.5 mm	.75" 19.0 mm	7/16-20 UNF-2B	7/16-20 UNF-2B
PS691010-6-6	2.68" 68.2 mm	2.17" 55.2 mm	1.29" 32.8 mm	.88" 22.2 mm	9/16-18 UNF-2B	9/16-18 UNF-2B
PS891010-8-8	2.96" 75.3 mm	2.37" 60.3 mm	1.73" 44.0 mm	1.12" 28.6 mm	3/4-16 UNF-2B	3/4-16 UNF-2B
PS1291010-12-12	3.43" 87.2 mm	2.77" 70.4 mm	2.17" 55.2 mm	1.38" 35.0 mm	1-1/16-12 UN-2B	1-1/16-12 UN-2B
PS1691010-16-16	4.03" 102.3 mm	3.16" 80.3 mm	2.48" 63.0 mm	1.62" 41.3 mm	1-5/16-12 UN-2B	1-5/16-12 UN-2B

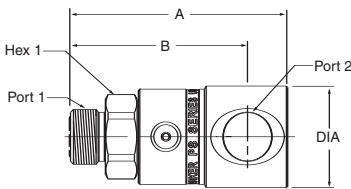
Part Number	A	B	C	D	Wrench Flats	Dia.	Port 1	Port 2
PS2491010-20-20	5.91" 150.2 mm	4.63" 117.5 mm	3.43" 87.0 mm	1.27" 32.3 mm	2.63" 66.7 mm	3.36" 85.2 mm	1 5/8-12 UN-2B	1 5/8-12 UN-2B
PS2491010-24-24	5.91" 150.2 mm	4.63" 117.5 mm	3.43" 87.0 mm	1.27" 32.3 mm	2.63" 66.7 mm	3.36" 85.2 mm	1 7/8-12 UN-2B	1 7/8-12 UN-2B
PS3291010-32-32	6.83" 179.8 mm	5.45" 138.4 mm	3.93" 99.7 mm	1.52" 38.5 mm	3.06" 77.6 mm	4.19" 106.4 mm	2 1/2-12 UN-2B	2 1/2-12 UN-2B

Female SAE Straight Thread - O-Ring Face Seal



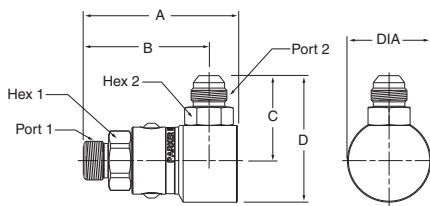
Part Number	A	B	C	D	Dia.	Hex 1	Hex 2	Port 1	Port 2
PS4910JM-4-4	2.42" 61.4 mm	2.01" 51.2 mm	1.29" 32.5 mm	1.89" 47.9 mm	1.20" 30.5 mm	.75" 19.0 mm	.56" 14.3 mm	7/16-20 UNF-2B	9/16-18 UNF-2A
PS6910JM-6-6	2.68" 68.2 mm	2.17" 55.2 mm	1.40" 35.6 mm	2.05" 52.0 mm	1.29" 32.8 mm	.88" 22.2 mm	.69" 17.5 mm	9/16-18 UNF-2B	11/16-16 UNF-2A
PS8910JM-8-8	2.96" 75.3 mm	2.37" 60.3 mm	1.74" 44.1 mm	2.60" 66.1 mm	1.73" 44.0 mm	1.12" 28.6 mm	.88" 22.2 mm	3/4-16 UNF-2B	13/16-16 UN-2A
PS12910JM-12-12	3.43" 87.2 mm	2.77" 70.4 mm	2.18" 55.4 mm	3.27" 83.0 mm	2.17" 55.2 mm	1.38" 35.0 mm	1.25" 31.8 mm	1-1/16-12 UN-2B	1-3/16-12 UN-2A
PS16910JM-16-16	4.03" 102.3 mm	3.16" 80.3 mm	2.34" 59.6 mm	3.59" 91.1 mm	2.48" 63.0 mm	1.62" 41.3 mm	1.50" 38.1 mm	1-5/16-12 UN-2B	1-7/16-12 UN-2A

O-Ring Face Seal - Female Pipe



Part Number	A	B	Dia.	Hex 1	Port 1	Port 2
PS49JM02-4-4	2.70" 68.6 mm	2.29" 58.3 mm	1.20" 30.5 mm	.75" 19.0 mm	9/16-18 UNF-2A	1/4-18 NPTF
PS69JM02-6-6	2.87" 72.8 mm	2.36" 59.8 mm	1.29" 32.8 mm	.88" 22.2 mm	11/16-16 UN-2A	3/8-18 NPTF
PS89JM02-8-8	3.19" 80.9 mm	2.60" 65.9 mm	1.49" 37.8 mm	1.12" 28.6 mm	13/16-16 UN-2A	1/2-14 NPTF
PS129JM02-12-12	3.58" 90.9 mm	2.92" 74.0 mm	1.76" 44.6 mm	1.38" 35.0 mm	1-3/16-12 UN-2A	3/4-14 NPTF
PS169JM02-16-16	4.18" 106.3 mm	3.32" 84.3 mm	2.16" 54.9 mm	1.62" 41.3 mm	1-7/16-12 UN-2A	1-11/2 NPTF

O-Ring Face Seal - Male 37° Flare

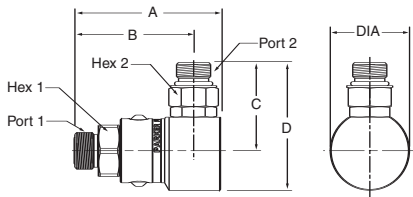


Part Number	A	B	C	D	Dia.	Hex 1	Hex 2	Port 1	Port 2
PS49JM03-4-4	2.70" 68.6 mm	2.29" 58.3 mm	1.39" 35.2 mm	1.99" 50.5 mm	1.20" 30.5 mm	.75" 19.0 mm	.56" 14.3 mm	9/16-18 UNF-2A	7/16-20 UNF-2A
PS69JM03-6-6	2.87" 72.8 mm	2.36" 59.8 mm	1.44" 36.6 mm	2.09" 53.0 mm	1.29" 32.8 mm	.88" 22.2 mm	.69" 17.5 mm	11/16-16 UN-2A	9/16-18 UNF-2A
PS89JM03-8-8	3.19" 80.9 mm	2.60" 65.9 mm	1.78" 45.1 mm	2.64" 67.1 mm	1.73" 44.0 mm	1.12" 28.6 mm	.88" 22.2 mm	13/16-16 UN-2A	3/4-16 UNF-2A
PS89JM03-10-10	3.29" 83.5 mm	2.70" 68.5 mm	1.90" 48.4 mm	2.77" 70.4 mm	1.73" 44.0 mm	1.12" 28.6 mm	.88" 22.2 mm	7/8-14 UN-2A	7/8-14 UNF-2A
PS129JM03-12-12	3.58" 90.9 mm	2.92" 74.0 mm	2.24" 56.9 mm	3.86" 85.3 mm	2.17" 55.2 mm	1.38" 35.0 mm	1.25" 31.8 mm	1-3/16-12 UN-2A	1-1/16-12 UN-2A
PS169JM03-16-16	4.18" 106.3 mm	3.32" 84.3 mm	2.42" 61.3 mm	3.66" 92.9 mm	2.48" 63.0 mm	1.62" 41.3 mm	1.50" 38.1 mm	1-7/16-12 UN-2A	1-5/16-12 UN-2A

Swivels

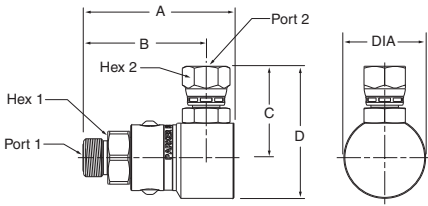
90° PS Series

O-Ring Face Seal - Male SAE O-Ring Straight Thread



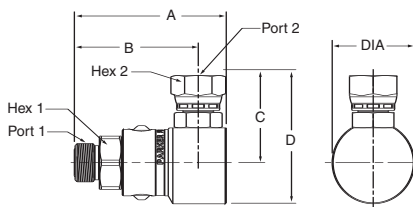
Part Number	A	B	C	D	Dia.	Hex 1	Hex 2	Port 1	Port 2
PS49JM05-4-4	2.70" 68.6 mm	2.29" 58.3 mm	1.38" 35.0 mm	1.98" 50.2 mm	1.20" 30.5 mm	.75" 19.0 mm	.56" 14.3 mm	9/16-18 UNF-2A	7/16-20 UNF-2A
PS69JM05-6-6	2.87" 72.8 mm	2.36" 59.8 mm	1.55" 39.4 mm	2.20" 55.8 mm	1.29" 32.8 mm	.88" 22.2 mm	.69" 17.5 mm	11/16-16 UN-2A	9/16-18 UNF-2A
PS89JM05-8-8	3.19" 80.9 mm	2.60" 65.9 mm	1.86" 47.2 mm	2.72" 69.2 mm	1.73" 44.0 mm	1.12" 28.6 mm	.88" 22.2 mm	13/16-16 UN-2A	3/4-16 UNF-2A
PS129JM05-12-12	3.58" 90.9 mm	2.92" 74.0 mm	2.40" 61.0 mm	3.49" 88.5 mm	2.17" 55.2 mm	1.38" 35.0 mm	1.25" 31.8 mm	1-3/16-12 UN-2A	3/4-12 UN-2A
PS169JM05-16-16	4.18" 106.3 mm	3.32" 84.3 mm	2.50" 63.4 mm	3.74" 94.9 mm	2.48" 63.0 mm	1.62" 41.3 mm	1.50" 38.1 mm	1-7/16-12 UN-2A	1-5/16-12 UN-2A

O-Ring Face Seal - Female 37° Flare



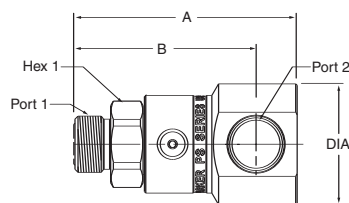
Part Number	A	B	C	D	Dia.	Hex 1	Hex 2	Port 1	Port 2
PS49JM06-4-4	2.70" 68.6 mm	2.29" 58.3 mm	1.47" 37.3 mm	2.07" 52.5 mm	1.20" 30.5 mm	.75" 19.0 mm	.56" 14.3 mm	9/16-18 UNF-2A	7/16-20 UNF-2B
PS69JM06-6-6	2.87" 72.8 mm	2.36" 59.8 mm	1.57" 39.9 mm	2.22" 56.3 mm	1.29" 32.8 mm	.88" 22.2 mm	.69" 17.5 mm	11/16-16 UN-2A	9/16-18 UNF-2B
PS89JM06-8-8	3.19" 80.9 mm	2.60" 65.9 mm	1.91" 48.4 mm	2.77" 70.4 mm	1.73" 44.0 mm	1.12" 28.6 mm	.88" 22.2 mm	13/16-16 UN-2A	3/4-16 UNF-2B
PS129JM06-12-12	3.58" 90.9 mm	2.92" 74.0 mm	2.34" 59.4 mm	3.43" 87.0 mm	2.17" 55.2 mm	1.38" 35.0 mm	1.25" 31.8 mm	1-3/16-12 UN-2A	1-1/16-12 UN-2B
PS169JM06-16-16	4.18" 106.3 mm	3.32" 84.3 mm	2.54" 64.6 mm	3.79" 96.2 mm	2.48" 63.0 mm	1.62" 41.3 mm	1.50" 38.1 mm	1-7/16-12 UN-2A	1-5/16-12 UN-2B

O-Ring Face Seal - Female NPSM Pipe Swivel



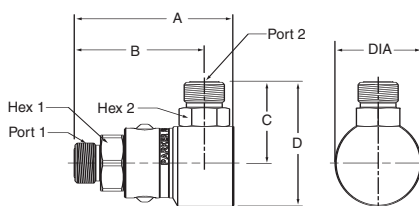
Part Number	A	B	C	D	Dia.	Hex 1	Hex 2	Port 1	Port 2
PS49JM07-4-4	2.70" 68.6 mm	2.29" 58.3 mm	1.48" 37.5 mm	2.08" 52.8 mm	1.20" 30.5 mm	.75" 19.0 mm	.69" 17.4 mm	9/16-18 UNF-2A	1/4-18 NPSM
PS69JM07-6-6	2.87" 72.8 mm	2.36" 59.8 mm	1.51" 38.4 mm	2.16" 54.8 mm	1.29" 32.8 mm	.88" 22.2 mm	.88" 22.2 mm	11/16-16 UN-2A	3/8-18 NPSM
PS89JM07-8-8	3.19" 80.9 mm	2.60" 65.9 mm	1.86" 47.2 mm	2.72" 69.2 mm	1.73" 44.0 mm	1.12" 28.6 mm	1.00" 25.4 mm	13/16-16 UN-2A	1/2-14 NPSM
PS129JM07-12-12	3.58" 90.9 mm	2.92" 74.0 mm	2.24" 56.9 mm	3.33" 84.5 mm	2.17" 55.2 mm	1.38" 35.0 mm	1.25" 31.8 mm	1-3/16-12 UN-2A	3/4-14 NPSM
PS169JM07-16-16	4.18" 106.3 mm	3.32" 84.3 mm	2.48" 63.1 mm	3.73" 94.6 mm	2.48" 63.0 mm	1.62" 41.3 mm	1.50" 38.1 mm	1-7/16-12 UN-2A	1-11/2 NPSM

O-Ring Face Seal - Female SAE Straight Thread



Part Number	A	B	Dia.	Hex 1	Port 1	Port 2
PS49JM10-4-4	2.70" 68.6 mm	2.29" 58.3 mm	1.20" 30.5 mm	.75" 19.0 mm	9/16-18 UNF-2A	7/16-20 UNF-2B
PS69JM10-6-6	2.87" 72.8 mm	2.36" 59.8 mm	1.29" 32.8 mm	.88" 22.2 mm	11/16-16 UN-2A	9/16-18 UNF-2B
PS89JM10-8-8	3.19" 80.9 mm	2.60" 65.9 mm	1.73" 44.0 mm	1.12" 28.6 mm	13/16-16 UN-2A	3/4-16 UNF-2B
PS129JM10-12-12	3.58" 90.9 mm	2.92" 74.0 mm	2.17" 55.2 mm	1.38" 35.0 mm	1-3/16-12 UN-2A	1-1/16-12 UN-2B
PS169JM10-16-16	4.18" 106.3 mm	3.32" 84.3 mm	2.48" 63.0 mm	1.62" 41.3 mm	1-7/16-12 UN-2A	1-5/16-12 UN-2B

O-Ring Face Seal - O-Ring Face Seal



Part Number	A	B	C	D	Dia.	Hex 1	Hex 2	Port 1	Port 2
PS49JMJM-4-4	2.70" 68.6 mm	2.29" 58.3 mm	1.29" 32.5 mm	1.89" 47.9 mm	1.20" 30.5 mm	.75" 19.0 mm	.56" 14.3 mm	9/16-18 UNF-2A	9/16-18 UNF-2A
PS69JMJM-6-6	2.87" 72.8 mm	2.36" 59.8 mm	1.40" 35.6 mm	2.05" 52.0 mm	1.29" 32.8 mm	.88" 22.2 mm	.69" 17.5 mm	11/16-16 UN-2A	11/16-16 UN-2A
PS89JMJM-8-8	3.19" 80.9 mm	2.60" 65.9 mm	1.74" 44.1 mm	2.60" 66.1 mm	1.73" 44.0 mm	1.12" 28.6 mm	.88" 22.2 mm	13/16-16 UN-2A	13/16-16 UN-2A
PS89JMJM-10-10	3.29" 83.5 mm	2.70" 68.5 mm	1.96" 49.9 mm	2.83" 71.9 mm	1.73" 44.0 mm	1.12" 28.6 mm	.88" 22.2 mm	1-14 UN-2A	1-14 UN-2A
PS129JMJM-12-12	3.58" 90.9 mm	2.92" 74.0 mm	2.18" 55.4 mm	3.27" 83.0 mm	2.17" 55.2 mm	1.38" 35.0 mm	1.25" 31.8 mm	1-3/16-12 UN-2A	1-3/16-12 UN-2A
PS169JMJM-16-16	4.18" 106.3 mm	3.32" 84.3 mm	2.34" 59.6 mm	3.59" 91.1 mm	2.48" 63.0 mm	1.62" 41.3 mm	1.50" 38.1 mm	1-7/16-12 UN-2A	1-7/16-12 UN-2A

Repair Kits

Swivels

Repair Kits/Seal Options

Repair Kits come complete with O-Rings, PTFE Back-Up Ring, Cap Screws, Locking Balls, Retaining Ring and grease fitting. Repair kits are suitable for both current and previous design 90° PS Series Swivels.

1/4" Swivel	3/8" Swivel	1/2" Swivel	3/4" Swivel	1" Swivel
PS4-RPR	PS6-RPR	PS8-RPR	PS12-RPR	PS16-RPR
PS4Y-RPR	PS6Y-RPR	PS8Y-RPR	PS12Y-RPR	PS16Y-RPR
PS4A-RPR	PS6A-RPR	PS8A-RPR	PS12A-RPR	PS16A-RPR
PS4W-RPR	PS6W-RPR	PS8W-RPR	PS12W-RPR	PS16W-RPR

H2C-PS = Bearing Removal Pneumatic Nipple

Seal Options

Nitrile (*standard unless otherwise designated*)

A = Aflas™

W = Ethylene Propylene

Y = Fluorocarbon

Z = Neoprene

For **Perfluoroelastomer** seal option contact the division.