



2015

PRODUCT CATALOG



TAIMI HYDRAULICS

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1. THINK SAFETY



When assembling or doing maintenance on hydraulic systems and hose assemblies, it is of uttermost importance to be properly trained, use appropriate tools, components and equipment, follow specifications and think safety. Otherwise, serious injury may happen or even worse.

Taimi swivels and cartridges (other than stainless steel) have pressure capabilities of:

Sizes	PSI	Bar
06 – 08 – 10 – 12 – 16	6250	430
20	5600	386
24	4500	310
32	3000	205

Pressure capabilities of Taimi products must be respected for safety purposes.

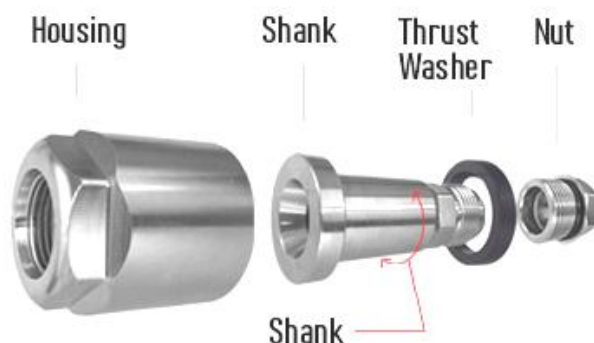
You may have to replace the seal kit inside your Taimi products at some point. Please refer to section 13 of this catalog for instructions. It is important to torque Taimi cartridges according to the torque chart indicated in section 13. If Taimi cartridges are overtorqued, a housing failure may happen over time causing serious injuries. An undertorqued swivel may dismantle causing serious injuries.

Visually inspect your Taimi products for evidence of leakage, wear, or damage. Replace damaged swivels immediately.



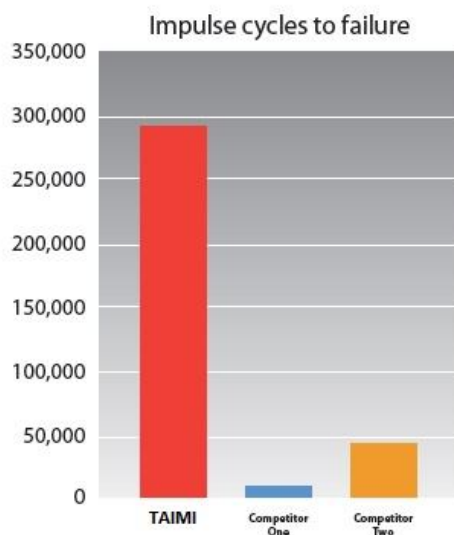
2. ADVANTAGES

TAIMI's unique ball-less design swivel products brings reliability to your hydraulic systems, increasing service life and cutting out leakages. This translates in higher productivity and lower operating costs.



Our exclusive shank-nut assembly (cartridge) is key to the effectiveness of our design.

- 1 - The long span of the shank allows for optimal load distribution and contact surfaces. This shank is inserted through the bottom of the nut. The slick thrust washer is built out of a low friction self-lubricating polymer yielding high performance shock absorption characteristics.
- 2 - The sturdy nut securely fastens the rotating shank to a housing, a block or a manifold, and prevents it from ever dismantling during operation.
- 3 - Superior sealing is achieved in two stages; by two (2) sets of oversized Viton o-rings and Teflon backups and then by the contact under pressure on our thrust washer effectively protecting against pressure spikes for an unmatched reliability.



The **T2** is the second generation of Taimi swivels, featuring better reliability, increased operating pressure and easier rotation.



SWIVEL COMPARISON CHART

	 TAIMI	 A	 B	 C	 D	 E
Max Operating Pressure-Size 16 (PSI)	6250	5000	3000/5000	4000/5000	3000/5000	3000
Wear Resistance	Best	Fair	Fair	Poor	Poor	Poor
Side Load Resistance	Best	Fair	Fair	Poor	Poor	Poor
Dismantling / Pulling Apart Resistance	Best	Fair	Poor	Poor	Poor	Poor
Possible Heavy Oil Spill Caused by Failure	No	No	Yes	Yes	Yes	Yes
Resistance to Leakage	Best	Fair	Fair	Poor	Poor	Poor
Quick, Cheap and Easy Maintenance	Yes	Average	Average	No	No	No
Good performance from -40 °C to 50 °C	Best	Fair	Poor	Poor	Poor	Poor
Body Size	Medium	Compact	Large	Compact	Compact	Compact
Size of Tools Required to Service	Small	Small	Large	Medium	Medium	Medium
Protections against Outside Contamination	Best	Average	Poor	Average	Average	Average
Seal Protection against Pressure Peaks	High	Poor	Poor	Poor	Poor	Poor
Outside Lock Screw that Can Be Damaged	No	No	Yes	Yes	Yes	Yes
Spare Parts Availability	Yes	No	No	No	No	No
Durability	Best	Good	Good	Poor	Poor	Poor
Available in 90 degrees	Yes	No	Yes	Yes	Yes	Yes
Available Sizes	up to 32	up to 20	up to 16	up to 32	Up to 32	Up to 32

This chart is based on our interpretation of products characteristics, lab and field test data, and customers testimonies

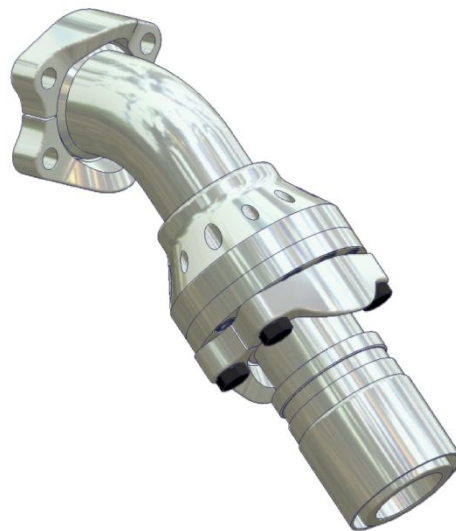
3. TAIMI RESEARCH & DEVELOPMENT

Our engineering staff has been working closely with machine manufacturers, owners and operators from the outset. We developed our products by listening to our customers and understanding their challenges.

Online and in the field support can be provided for designing and testing new applications. New products are designed according to customers' specifications.

CAD files of all our existing products can be provided upon request.

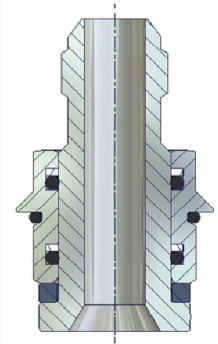
Our promise is to help increase productivity and reduce operating costs, help protect the environment by reducing oil leaks and fluid consumption, and offer hydraulic peace of mind in the challenging environment we live in.



4. SWIWELL CARTRIDGE



The Swiwell Cartridge™ is designed to be integrated into hydraulic manifolds. It simply screws in, becoming a short and very sturdy swiveling coupling that will live through high pressure and side loads. It offers new hydraulic setup possibilities with unequalled reliability. The Swiwell Cartridge eliminates hose torsion, reduces leakage and extends hose life



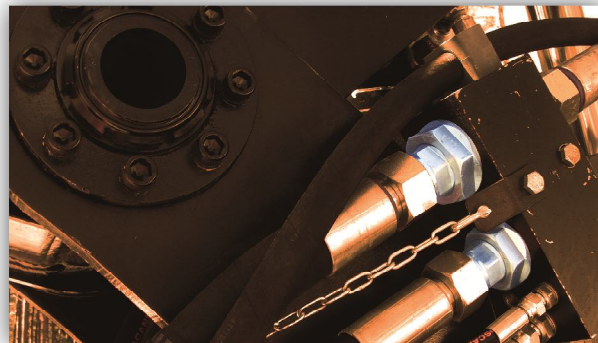
MATERIAL OPTIONS

	Standard	Options
Shank, Nut	Carbon steel	Stainless
Plating	White (Blue) Zinc	Nickel, Arcor ®
Seals	Viton ®	AFLAS ®

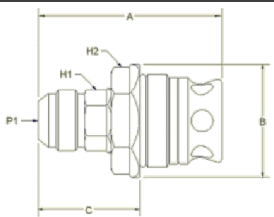
HOW TO ORDER

SZ4 – 12– J 01 M - _

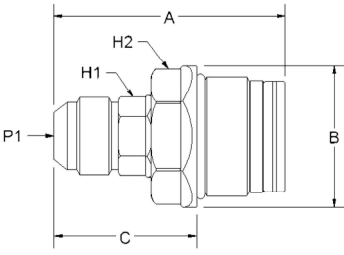
	Seal Code:	Blank = Viton ®
	Shank Configuration	• M Male
	Assembly number	
	Shank Thread Configuration	• J JIC 37° Flare • F NPTF • P BSPP • S ORFS (O-ring face Seal) • M METRIC
	Shank Size (1/16 of an inch)	
Swiwell Cartridge Designator		



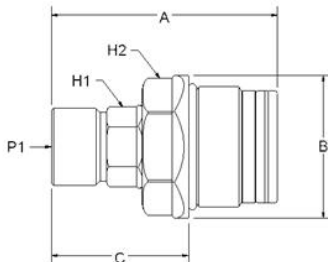
Side Feed Cartridge Male JIC - 37° Flare

	Part no.	A	B	C	P1	H1	H2	Seal kit
	SZ4-12-J10M	3.19"	1.97"	1.75"	1 1/16"- 12 UN	15/16"	1 5/8"	SZ-12-110SK-A
	SZ4-16-J10M	3.47"	2.22"	1.94"	1 5/16"- 12 UN	1 3/16"	1 7/8"	SZ-16-110SK-A

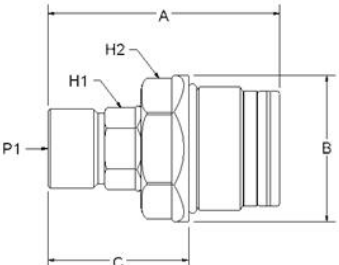
Male JIC - 37° Flare

	Part no.	A	B	C	P1	H1	H2	Seal kit
	SZ4-06-J01M	1.90"	1.25"	1.13"	9/16" – 18 UNF	1/2"	1"	SZ-06-001SK-A
	SZ4-08-J01M	2.53"	1.50"	1.56"	3/4" – 16 UNF	11/16"	1 1/4"	SZ-08-001SK-A
	SZ4-10-J01M	2.59"	1.73"	1.63"	7/8" – 14 UNF	13/16"	1 1/2"	SZ-10-001SK-A
	SZ4-12-J01M	3.15"	2.00"	1.95"	1 1/16"- 12 UN	15/16"	1 5/8"	SZ-12-001SK-A
	SZ4-16-J01M	3.63"	2.22"	2.38"	1 5/16"- 12 UN	1 3/16"	1 7/8"	SZ-16-001SK-A
	SZ4-20-J01M	3.96"	2.75"	2.55"	1 5/8"- 12 UN	1 1/2"	2 3/8"	SZ-20-001SK-A
	SZ4-24-J01M	4.17"	3.00"	2.68"	1 7/8"- 12 UN	1 3/4"	2 1/2"	SZ-24-001SK-A
	SZ4-32-J01M	5.03"	3.88"	3.28"	2 1/2"- 12 UN	2 5/16"	3 1/4"	SZ-32-001SK-A

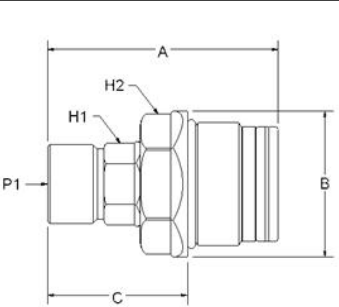
Male Pipe (NPTF)

	Part no.	A	B	C	P1	H1	H2	Seal kit
	SZ4-08-F01M	2.38"	1.53"	1.41"	1/2" NPTF	3/4"	1 5/16"	SZ-08-002SK-A
	SZ4-12-F01M	3.06"	2.00"	1.86"	3/4" NPTF	15/16"	1 5/8"	SZ-12-001SK-A
	SZ4-16-F01M	3.25"	2.22"	2.00"	1" NPTF	1 3/16"	1 7/8"	SZ-16-001SK-A
	SZ4-20-F01M	3.63"	2.75"	2.22"	1 1/4" NPTF	1 1/2"	2 3/8"	SZ-20-001SK-A
	SZ4-24-F01M	3.78"	3.00"	2.30"	1 1/2" NPTF	1 3/4"	2 1/2"	SZ-24-001SK-A
	SZ4-32-F01M	4.53"	3.88"	2.78"	2" NPTF	2 5/16"	3 1/4"	SZ-32-001SK-A

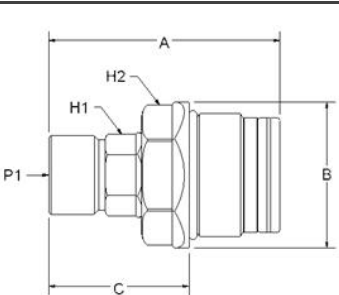
Male BSPP

	Part no.	A	B	C	P1	H1	H2	Seal kit
	SZ4-06-P01M	1.81"	1.35"	1.05"	G 3/8	5/8"	1 1/4"	SZ-06-002SK-A
	SZ4-08-P01M	2.36"	1.53"	1.39"	G 1/2	3/4"	1 5/16"	SZ-08-002SK-A
	SZ4-12-P01M	3.00"	2.00"	1.86"	G 3/4	15/16"	1 5/8"	SZ-12-001SK-A
	SZ4-16-P01M	3.50"	2.22"	2.25"	G 1	1 3/16"	1 7/8"	SZ-16-001SK-A
	SZ4-20-P01M	3.63"	2.75"	2.25"	G 1 1/4	1 1/2"	2 3/8"	SZ-20-001SK-A

Male ORFS (O-Ring Face Seal / Flat Face O-Ring)

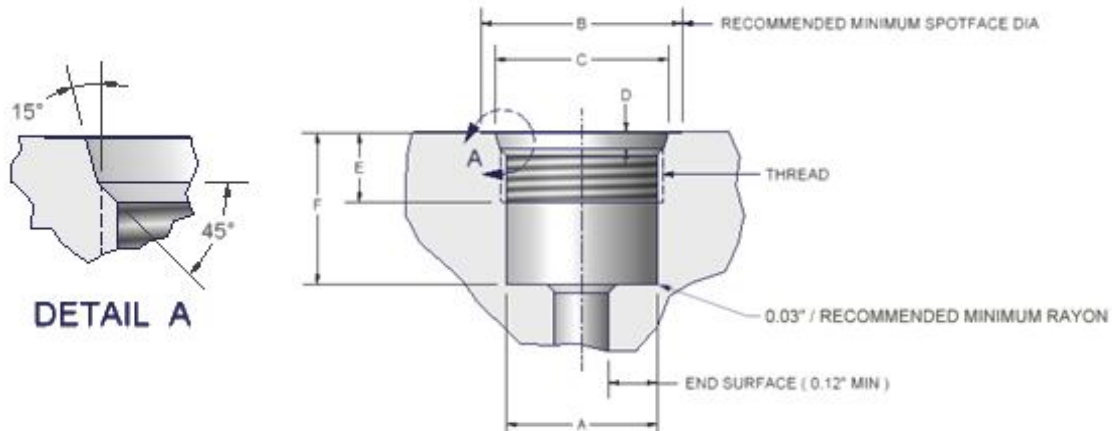
	Part no.	A	B	C	P1	H1	H2	Seal kit
	SZ4-06-S01M	1.83"	1.35"	1.07"	11/16" - 16 UNF	5/8"	1 1/8"	SZ-06-002SK-A
	SZ4-08-S01M	2.41"	1.53"	1.44"	13/16" - 16 UNF	3/4"	1 5/16"	SZ-08-002SK-A
	SZ4-10-S01M	2.51"	1.86"	1.55"	1" - 14 UNF	15/16"	1 5/8"	SZ-10-002SK-A
	SZ4-12-S01M	3.06"	2.09"	1.86"	1 3/16" - 12 UN	1 1/16"	1 3/4"	SZ-12-002SK-A
	SZ4-16-S01M	3.50"	2.31"	2.25"	1 7/16" - 12 UN	1 5/16"	2"	SZ-16-002SK-A
	SZ4-20-S01M	3.69"	2.75"	2.29"	1 11/16" - 12 UN	1 9/16"	2 3/8"	SZ-20-002SK-A
	SZ4-24-S01M	3.91"	3.19"	2.42"	2.00" - 12 UN	1 7/8"	2 3/4"	SZ-24-002SK-A

Male Metric (DIN 3852)

	Part no.	A	B	C	P1	H1	H2	Seal kit
	SZ4-20S-M01M	2.38"	1.53"	1.43"	M20 X 1.5	3/4"	1 5/16"	SZ-08-002SK-A
	SZ4-24S-M01M	2.56"	1.86"	1.57"	M24 X 1.5	15/16"	1 5/8"	SZ-10-002SK-A
	SZ4-30S-M01M	3.03"	2.09"	1.83"	M30 X 2.0	1 1/16"	1 3/4"	SZ-12-002SK-A
	SZ4-36S-M01M	3.46"	2.41"	2.21"	M36 X 2.0	1 5/16"	2"	SZ-16-002SK-A
	SZ4-42S-M01M	3.72"	2.72"	2.32"	M42 X 2.0	1 9/16"	2 3/8"	SZ-20-002SK-A



CARTRIDGES BORING DIMENSIONS CHART



Sizes & Configuration	A	B	C	D	E	F	Thread
J06, F06	0.920"-0.925"	1.28"	1.068"-1.073"	0.100"-0.105"	0.50"-0.53"	0.808"-0.818"	1.00" – 12 UN – 1B
P06, S06, M18	1.045"-1.050"	1.38"	1.183"-1.188"	0.100"-0.105"	0.50"-0.53"	0.808"-0.818"	1.12" – 12 UN – 1B
J08, F08	1.170"-1.175"	1.53"	1.310"-1.315"	0.100"-0.105"	0.69"-0.72"	1.010"-1.020"	1.25" – 12 UN – 1B
P08, S08, M20	1.235"-1.240"	1.56"	1.373"-1.378"	0.100"-0.105"	0.69"-0.72"	1.010"-1.020"	1.31" – 12 UN – 1B
S10, M24	1.490"-1.495"	1.94"	1.645"-1.650"	0.125"-0.130"	0.69"-0.72"	1.010"-1.020"	1.56" – 12 UN – 1B
J10, P10, F10	1.355"-1.360"	1.78"	1.520"-1.525"	0.100"-0.105"	0.69"-0.72"	1.010"-1.020"	1.44" – 12 UN – 1B
J12, P12, F12	1.545"-1.550"	2.03"	1.690"-1.695"	0.125"-0.130"	0.81"-0.84"	1.260"-1.270"	1.63" – 12 UN – 1B
S12, M30	1.670"-1.675"	2.13"	1.860"-1.865"	0.125"-0.130"	0.81"-0.84"	1.260"-1.270"	1.75" – 12 UN – 1B
J16, F16, P16	1.795"-1.800"	2.25"	1.940"-1.945"	0.125"-0.130"	0.81"-0.84"	1.325"-1.335"	1.88" – 12 UN – 1B
S16, M36	1.915"-1.920"	2.38"	2.107"-2.112"	0.125"-0.130"	0.81"-0.84"	1.325"-1.335"	2.00" – 12 UN – 1B
J20, P20, S20, F20, M42	2.295"-2.300"	2.78"	2.430"-2.435"	0.125"-0.130"	1.00"-1.03"	1.475"-1.485"	2.38" – 12 UN – 1B
J24, F24	2.545"-2.550"	3.03"	2.690"-2.695"	0.125"-0.130"	1.00"-1.03"	1.575"-1.585"	2.63" – 12 UN – 1B
S24	2.660"-2.665"	3.21"	2.815"-2.820"	0.125"-0.130"	1.00"-1.03"	1.575"-1.585"	2.75" – 12 UN – 1B
J32, F32	3.295"-3.300"	3.94"	3.460"-3.465"	0.125"-0.130"	1.12"-1.15"	1.835"-1.845"	3.38" – 12 UN – 1B

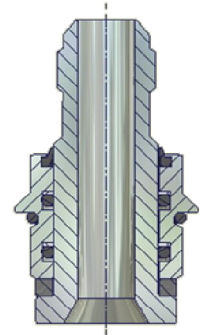
SHANK INTERCHANGE				
Sizes	JIC	BSPP	NPTF	ORFS
06	-	x	x	x
08	-	x	x	x
10	x	x	na	-
12	x	x	x	-
16	x	x	x	-
20	x	x	x	x
24	x	na	x	na
32	x	na	x	na
x shank interchange			na (not available)	

SWIWELL CARTRIDGE TORQUE		
Sizes	Ft-lbs	Nm
06	125	170 Nm
08	215	290 Nm
10	300	405 Nm
12	390	530 Nm
16	490	665 Nm
20	800	1080 Nm
24	900	1215 Nm
32	1000	1350 Nm
- Dry torque - Lubricate external o-ring		

5. MINING SWIWELL CARTRIDGE



We also offer an Extra Heavy Duty Cartridge made especially for the highly abrasive underground mining environment. They are also designed to be integrated into hydraulic manifolds. The boring dimensions are exactly the same as the standard cartridges. Compared to the standard cartridges, these Mining Swiwell Cartridges have the following characteristics:



1. Extra wiper ring to keep abrasive material away from components
2. Increased contact surfaces for optimum side load resistance
3. Harder steel



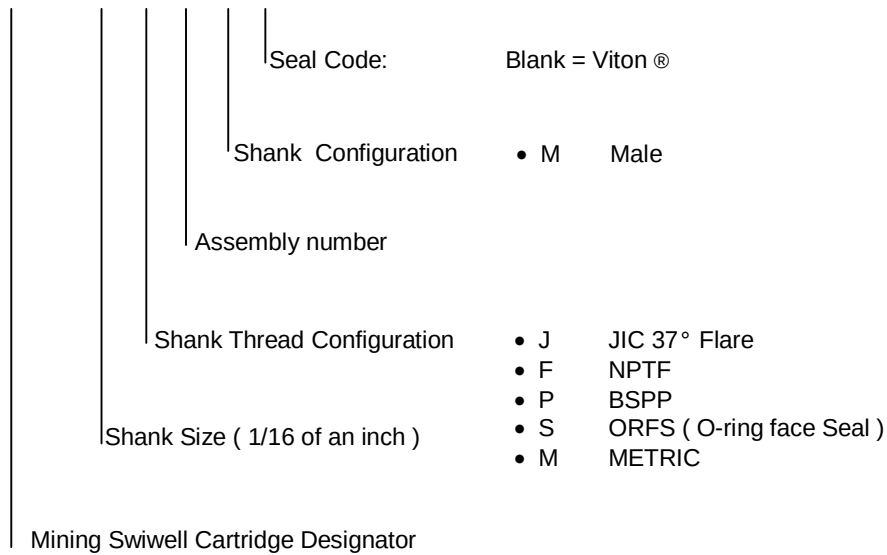
MATERIAL OPTIONS

Standard

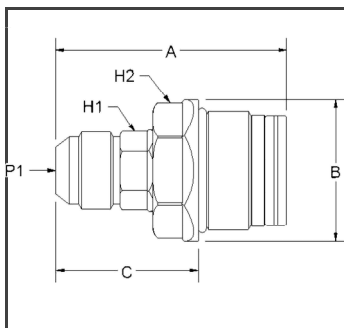
Shank, Nut	Carbon steel
Plating	ARCOR NITRIDING
Seals	Viton ®

HOW TO ORDER

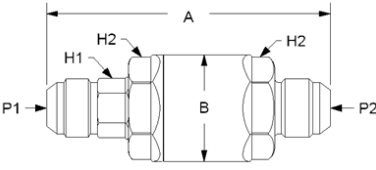
SZ4H – 12– J 01 M – _



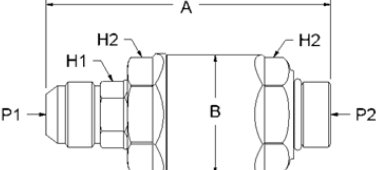
Male JIC - 37° Flare

	Part no.	A	B	C	P1	H1	H2	Seal kit
	SZ4HD-08-J01M	2.53"	1.50"	1.56"	3/4" – 16 UNF	11/16"	1 1/4"	SZH-08-001SK-A
	SZ4HD-10-J01M	2.69"	1.75"	1.63"	7/8" – 14 UNF	13/16"	1 1/2"	SZH-10-001SK-A
	SZ4HD-12-J01M	3.15"	2.00"	1.95"	1 1/16" – 12 UN	15/16"	1 5/8"	SZH-12-001SK-A
	SZ4HD-16-J01M	3.63"	2.22"	2.38"	1 5/16" – 12 UN	1 3/16"	1 7/8"	SZH-16-001SK-A
	SZ4HD-20-J01M	4.25"	2.75"	2.80"	1 5/8" – 12 UN	1 1/2"	2 3/8"	SZH-20-001SK-A

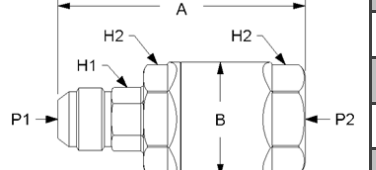
Male JIC (37° Flare) - Male JIC (37° Flare)

	Part no.	A	B	P1	P2	H1	H2	Seal kit
	SZ-J06M-J06M	2.91"	1.25"	9/16" – 18 UNF	9/16" – 18 UNF	1/2"	1"	SZ-06-001SK-A
	SZ-J08M-J08M	3.88"	1.50"	3/4" – 16 UNF	3/4" – 16 UNF	11/16"	1 1/4"	SZ-08-001SK-A
	SZ-J12M-J12M	4.94"	2.00"	1 1/16" – 12 UN	1 1/16" – 12 UN	15/16"	1 5/8"	SZ-12-001SK-A
	SZ-J16M-J16M	5.56"	2.22"	1 5/16" – 12 UN	1 5/16" – 12 UN	1 3/16"	1 7/8"	SZ-16-001SK-A
	SZ-J20M-J20M	6.06"	2.75"	1 5/8" – 12 UN	1 5/8" – 12 UN	1 1/2"	2 3/8"	SZ-20-001SK-A
	SZ-J24M-J24M	6.44"	3.00"	1 7/8" – 12 UN	1 7/8" – 12 UN	1 3/4"	2 1/2"	SZ-24-001SK-A
	SZ-J32M-J32M	7.69"	3.88"	2 1/2" – 12 UN	2 1/2" – 12 UN	2 5/16"	3 1/4"	SZ-32-001SK-A

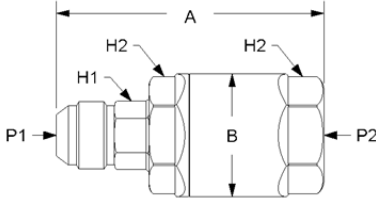
Male JIC (37° Flare) - Male O-Ring Boss (ORB)

	Part no.	A	B	P1	P2	H1	H2	Seal kit
	SZ-J08M-B08M	3.56"	1.50"	3/4" – 16 UNF	3/4" – 16 UNF	11/16"	1 1/4"	SZ-08-001SK-A
	SZ-J12M-B12M	4.63"	2.00"	1 1/16" – 12 UN	1 1/16" – 12 UN	15/16"	1 5/8"	SZ-12-001SK-A
	SZ-J16M-B16M	5.12"	2.22"	1 5/16" – 12 UN	1 5/16" – 12 UN	1 3/16"	1 7/8"	SZ-16-001SK-A
	SZ-J20M-B20M	5.44"	2.75"	1 5/8" – 12 UN	1 5/8" – 12 UN	1 1/2"	2 3/8"	SZ-20-001SK-A
	SZ-J24M-B24M	5.69"	3.00"	1 7/8" – 12 UN	1 7/8" – 12 UN	1 3/4"	2 1/2"	SZ-24-001SK-A
	SZ-J32M-B32M	6.81"	3.88"	2 1/2" – 12 UN	2 1/2" – 12 UN	2 5/16"	3 1/4"	SZ-32-001SK-A

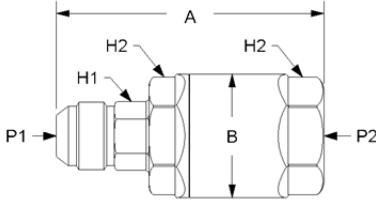
Male JIC (37° Flare) – Combo – Female JIC (37° Flare) / Female O-Ring Boss (ORB) / SAE J1926-3

	Part no.	A	B	P1	P2	H1	H2	Seal kit
	SZ-J08M-JB08F	3.31"	1.50"	3/4" – 16 UNF	3/4" – 16 UNF	11/16"	1 1/4"	SZ-08-001SK-A
	SZ-J10M-JB10F	3.45"	1.73"	7/8" – 14 UNF	7/8" – 14 UNF	13/16"	1 1/2"	SZ-10-001SK-A
	SZ-J12M-JB12F	4.12"	2.00"	1 1/16" – 12 UN	1 1/16" – 12 UN	15/16"	1 5/8"	SZ-12-001SK-A
	SZ-J16M-JB16F	4.63"	2.22"	1 5/16" – 12 UN	1 5/16" – 12 UN	1 3/16"	1 7/8"	SZ-16-001SK-A
	SZ-J20M-JB20F	5.12"	2.75"	1 5/8" – 12 UN	1 5/8" – 12 UN	1 1/2"	2 3/8"	SZ-20-001SK-A
	SZ-J24M-JB24F	5.34"	3.00"	1 7/8" – 12 UN	1 7/8" – 12 UN	1 3/4"	2 1/2"	SZ-24-001SK-A
	SZ-J32M-JB32F	6.50"	3.88"	2 1/2" – 12 UN	2 1/2" – 12 UN	2 5/16"	3 1/4"	SZ-32-001SK-A

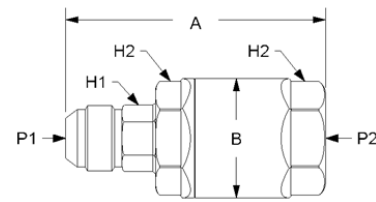
Male JIC (37° Flare) – Female O-Ring Boss (ORB) / SAE J1926-2

	Part no.	A	B	P1	P2	H1	H2	Seal kit
	SZ-J08M-B08F	3.31"	1.50"	3/4" – 16 UNF	3/4" – 16 UNF	11/16"	1 1/4"	SZ-08-001SK-A
	SZ-J12M-B12F	4.12"	2.00"	1 1/16"-12 UN	1 1/16"-12 UN	15/16"	1 5/8"	SZ-12-001SK-A
	SZ-J16M-B16F	4.63"	2.22"	1 5/16"-12 UN	1 5/16"-12 UN	1 3/16"	1 7/8"	SZ-16-001SK-A
	SZ-J20M-B20F	5.12"	2.75"	1 5/8"-12 UN	1 5/8"-12 UN	1 1/2"	2 3/8"	SZ-20-001SK-A
	SZ-J24M-B24F	5.34"	3.00"	1 7/8"-12 UN	1 7/8"-12 UN	1 3/4"	2 1/2"	SZ-24-001SK-A
	SZ-J32M-B32F	6.50"	3.88"	2 1/2"-12 UN	2 1/2"-12 UN	2 5/16"	3 1/4"	SZ-32-001SK-A

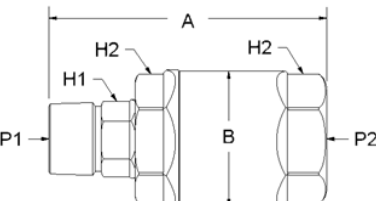
Male JIC (37° Flare) – Female Pipe (NPTF)

	Part no.	A	B	P1	P2	H1	H2	Seal kit
	SZ-J08M-F08F	3.31"	1.50"	3/4" – 16 UNF	1/2" NPTF	11/16"	1 1/4"	SZ-08-001SK-A
	SZ-J12M-F12F	4.19"	2.00"	1 1/16"-12 UN	3/4" NPTF	15/16"	1 5/8"	SZ-12-001SK-A
	SZ-J16M-F16F	4.88"	2.22"	1 5/16"-12 UN	1" NPTF	1 3/16"	1 7/8"	SZ-16-001SK-A
	SZ-J20M-F20F	5.37"	2.75"	1 5/8"-12 UN	1 1/4" NPTF	1 1/2"	2 3/8"	SZ-20-001SK-A
	SZ-J24M-F24F	5.62"	3.00"	1 7/8"-12 UN	1 1/2" NPTF	1 3/4"	2 1/2"	SZ-24-001SK-A
	SZ-J32M-F32F	6.65"	3.88"	2 1/2"-12 UN	2" NPTF	2 5/16"	3 1/4"	SZ-32-001SK-A

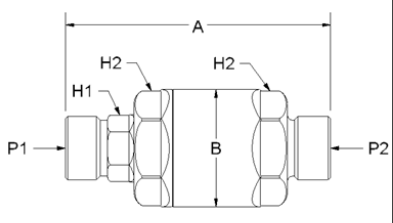
Male JIC (37° Flare) – Female BSPP

	Part no.	A	B	P1	P2	H1	H2	Seal kit
	SZ-J12M-P12F	4.19"	2.00"	1 1/16"-12 UN	G 3/4	15/16"	1 5/8"	SZ-12-001SK-A
	SZ-J16M-P16F	4.88"	2.22"	1 5/16"-12 UN	G 1	1 3/16"	1 7/8"	SZ-16-001SK-A
	SZ-J20M-P20F	5.37"	2.75"	1 5/8"-12 UN	G1 1/4	1 1/2"	2 3/8"	SZ-20-001SK-A

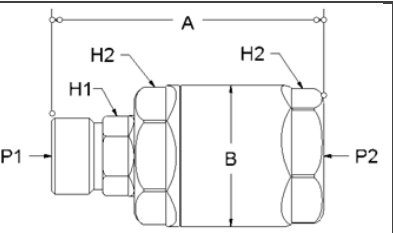
Male Pipe (NPTF) – Female Pipe (NPTF)

	Part no.	A	B	P1	P2	H1	H2	Seal kit
	SZ-F08M-F08F	3.00"	1.53"	1/2" NPTF	1/2" NPTF	3/4"	1 5/16"	SZ-08-002SK-A
	SZ-F12M-F12F	3.88"	2.00"	3/4" NPTF	3/4" NPTF	15/16"	1 5/8"	SZ-12-001SK-A
	SZ-F16M-F16F	4.12"	2.22"	1" NPTF	1" NPTF	1 3/16"	1 7/8"	SZ-16-001SK-A
	SZ-F20M-F20F	4.88"	2.75"	1 1/4" NPTF	1 1/4" NPTF	1 1/2"	2 3/8"	SZ-20-001SK-A
	SZ-F24M-F24F	5.06"	3.00"	1 1/2" NPTF	1 1/2" NPTF	1 3/4"	2 1/2"	SZ-24-001SK-A
	SZ-F32M-F32F	5.75"	3.88"	2" NPTF	2" NPTF	2 5/16"	3 1/4"	SZ-32-001SK-A

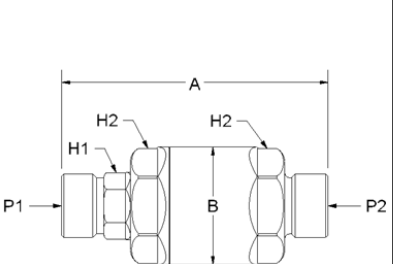
Male BSPP – Male BSPP

	Part no.	A	B	P1	P2	H1	H2	Seal kit
	SZ-P08M-P08M	3.44"	1.53"	G 1/2	G 1/2	3/4"	1 5/16"	SZ-08-002SK-A
	SZ-P12M-P12M	4.52"	2.00"	G 3/4	G 3/4	15/16"	1 5/8"	SZ-12-001SK-A
	SZ-P16M-P16M	5.06"	2.22"	G 1	G 1	1 3/16"	1 7/8"	SZ-16-001SK-A
	SZ-P20M-P20M	5.25"	2.75"	G 1 1/4	G 1 1/4	1 1/2"	2 3/8"	SZ-20-001SK-A

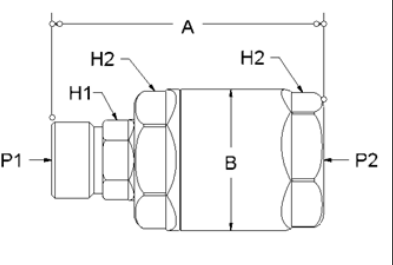
Male BSPP – Female BSPP

	Part no.	A	B	P1	P2	H1	H2	Seal kit
	SZ-P08M-P08F	2.94"	1.53"	G 1/2	G 1/2	3/4"	1 5/16"	SZ-08-002SK-A
	SZ-P12M-P12F	3.81"	2.00"	G 3/4	G 3/4	15/16"	1 5/8"	SZ-12-001SK-A
	SZ-P16M-P16F	4.31"	2.22"	G 1	G 1	1 3/16"	1 7/8"	SZ-16-001SK-A
	SZ-P20M-P20F	4.50"	2.75"	G 1 1/4	G 1 1/4	1 1/2"	2 3/8"	SZ-20-001SK-A

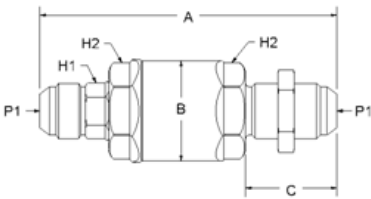
Male ORFS (O-Ring Face Seal) – Male ORFS (O-Ring Face Seal)

	Part no.	A	B	P1	P2	H1	H2	Seal kit
	SZ-S06M-S06M	2.77"	1.35"	11/16" – 16 UNF	11/16" – 16 UNF	5/8"	1 1/8"	SZ-06-002SK-A
	SZ-S08M-S08M	3.50"	1.53"	13/16" – 16 UNF	13/16" – 16 UNF	3/4"	1 5/16"	SZ-08-002SK-A
	SZ-S10M-S10M	3.79"	1.86"	1" - 14 UNS	1" - 14 UNS	15/16"	1 5/8"	SZ-10-002SK-A
	SZ-S12M-S12M	4.52"	2.09"	1 3/16"- 12 UN	1 3/16"- 12 UN	1 1/16"	1 3/4"	SZ-12-002SK-A
	SZ-S16M-S16M	5.12"	2.31"	1 7/16"- 12 UN	1 7/16"- 12 UN	1 5/16"	2"	SZ-16-002SK-A
	SZ-S20M-S20M	5.46"	2.75"	1 11/16"- 12 UN	1 11/16"- 12 UN	1 9/16"	2 3/8"	SZ-20-002SK-A
	SZ-S24M-S24M	5.80"	3.19"	2.00"- 12 UN	2.00"- 12 UN	1 7/8"	2 3/4"	SZ-24-002SK-A

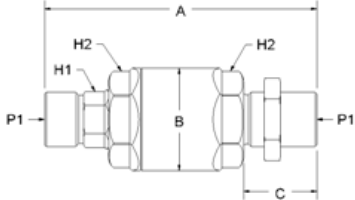
Male ORFS (O-Ring Face Seal) – Female ORFS (O-Ring Face Seal)

	Part no.	A	B	P1	P2	H1	H2	Seal kit
	SZ-S08M-S08F	3.00"	1.53"	13/16" – 16 UNF	13/16" – 16 UNF	3/4"	1 5/16"	SZ-08-002SK-A
	SZ-S12M-S12F	3.86"	2.09"	1 3/16"- 12 UN	1 3/16"- 12 UN	1 1/16"	1 3/4"	SZ-12-002SK-A
	SZ-S16M-S16F	4.38"	2.31"	1 7/16"- 12 UN	1 7/16"- 12 UN	1 5/16"	2"	SZ-16-002SK-A
	SZ-S20M-S20F	4.68"	2.75"	1 11/16"- 12 UN	1 11/16"- 12 UN	1 9/16"	2 3/8"	SZ-20-002SK-A

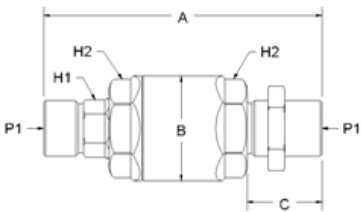
Male JIC (37° Flare) – Male JIC (37° Flare) Bulkhead

	Part no.	A	B	C	P1	H1	H2	Seal kit
	SZ-J08M-J08MB	4.63"	1.50"	1.50"	3/4" – 16 UNF	11/16"	1 1/4"	SZ-08-001SK-A
	SZ-J10M-J10MB	4.92"	1.73"	1.63"	7/8" - 14 UNF	13/16"	1 1/2"	SZ-10-001SK-A
	SZ-J12M-J12MB	5.69"	2.00"	1.75"	1 1/16" – 12 UN	15/16"	1 5/8"	SZ-12-001SK-A
	SZ-J16M-J16MB	6.31"	2.22"	1.88"	1 5/16" – 12 UN	1 3/16"	1 7/8"	SZ-16-001SK-A
	SZ-J20M-J20MB	6.94"	2.73"	2"	1 5/8" - 12 UN	1 1/2"	2 3/8"	SZ-20-001SK-A

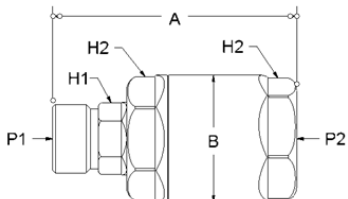
Male ORFS (O-Ring Face Seal) – Male ORFS Bulkhead

	Part no.	A	B	C	P1	H1	H2	Seal kit
	SZ-S08M-S08MB	4.25"	1.53"	1.31"	13/16" – 12 UNF	3/4"	1 5/16"	SZ-08-002SK-A
	SZ-S10M-S10MB	4.54"	1.86"	1.38"	1" - 14 UNS	15/16"	1 5/8"	SZ-10-002SK-A
	SZ-S12M-S12MB	5.25"	2.09"	1.41"	1 3/16" - 12 UN	1 1/16"	1 3/4"	SZ-12-002SK-A
	SZ-S16M-S16MB	5.88"	2.31"	1.56"	1 7/16" - 12 UN	1 5/16"	2"	SZ-16-002SK-A
	SZ-S20M-S20MB	6.29"	2.88"	1.63"	1 11/16" - 12 UN	1 9/16"	2 3/8"	SZ-20-002SK-A

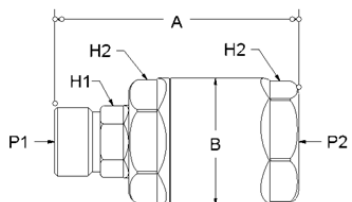
Male BSPP – Male BSPP Bulkhead

	Part no.	A	B	C	P1	H1	H2	Seal kit
	SZ-P08M-P08MB	4.25"	1.53"	1.31"	G 1/2	3/4"	1 5/16"	SZ-08-002SK-A
	SZ-P12M-P12MB	5.25"	2.00"	1.41"	G 3/4	15/16"	1 5/8"	SZ-12-001SK-A
	SZ-P16M-P16MB	5.88"	2.22"	1.56"	G 1	1 3/16"	1 7/8"	SZ-16-001SK-A

Male Metric (DIN 3852) – Female BSPP

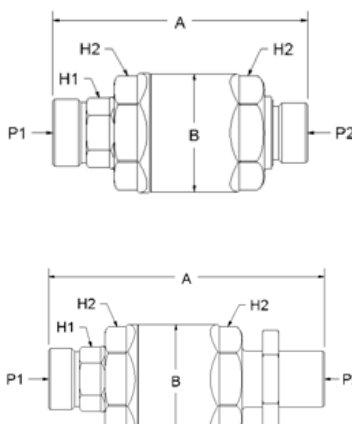
	Part no.	A	B	P1	P2	H1	H2	Seal kit
	SZ-M30SM-P12F	3.77"	2.09"	M30 X 2.0	G 3/4	1 1/16"	1 3/4"	SZ-12-002SK-A
	SZ-M36SM-P16F	4.27"	2.34"	M36 X 2.0	G 1	1 5/16"	2"	SZ-16-002SK-A
	SZ-M42SM-P20F	4.57"	2.73"	M42 X 2.0	G 1 1/4	1 9/16"	2 3/8"	SZ-20-001SK-A

Male Metric (DIN 3852) – Female ORFS (O-Ring Face Seal)

	Part no.	A	B	P1	P2	H1	H2	Seal kit
	SZ-M30SM-S12F	3.83"	2.31"	M30 X 2.0	G 3/4	1 1/16"	1 3/4"	SZ-16-002SK-A
	SZ-M36SM-S16F	4.33"	2.31"	M36 X 2.0	G 1	1 5/16"	2"	SZ-16-002SK-A
	SZ-M42SM-S20F	4.70"	2.73"	M42 X 2.0	G 1 1/4	1 9/16"	2 3/8"	SZ-20-001SK-A

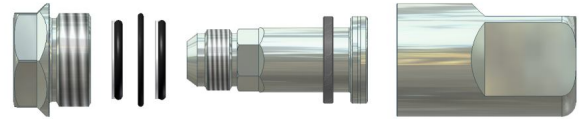
Male Metric – Male Metric (DIN 3852)

Male Metric – Male Metric Bulkhead (DIN 3852)

	Part no.	A	B	P1	P2	H1	H2	Seal kit
	SZ-M20SM-M20SM	3.52"	1.53"	M20 X 1.5	M20 X 1.5	3/4"	1 5/16"	SZ-08-002SK-A
	SZ-M24SM-M24SM	3.74"	1.86"	M24 X 1.5	M24 X 1.5	15/16"	1 5/8"	SZ-10-002SK-A
	SZ-M30SM-M27M	4.58"	2.09"	M30 X 2.0	M27 X 2.0	1 1/16"	1 3/4"	SZ-12-002SK-A
	SZ-M30SM-M30SM	4.75"	2.09"	M30 X 2.0	M30 X 2.0	1 1/16"	1 3/4"	SZ-12-002SK-A
	SZ-M30SM-M30SMB	5.25"	2.09"	M30 X 2.0	M30 X 2.0	1 1/16"	1 3/4"	SZ-12-002SK-A
	SZ-M42SM-M42SM	5.45"	2.73"	M42 X 2.0	M42 X 2.0	1 9/16"	2 3/8"	SZ-20-001SK-A
	SZ-M42SM-M42SMB	7.07"	2.73"	M42 X 2.0	M42 X 2.0	1 9/16"	2 3/8"	SZ-20-001SK-A

Other sizes and configurations available upon request

7. 90° SWIVELS – STANDARD SERIES



MATERIAL OPTIONS

Shank. Nut, Housing
Plating
Seals

Standard

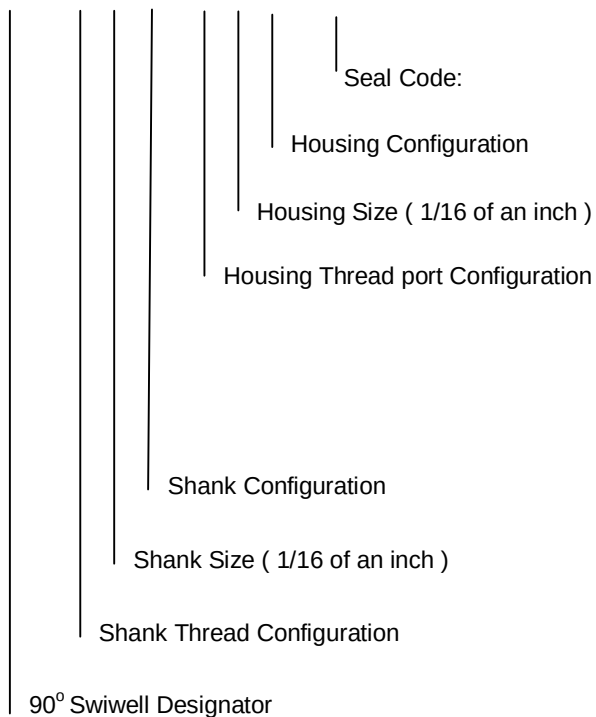
Carbon steel
White (Blue) Zinc
VITON ®

Options

Stainless
Nickel, Arcor ®
AFLAS ®

HOW TO ORDER

SZ90 – J 12 M – B 12 F – _



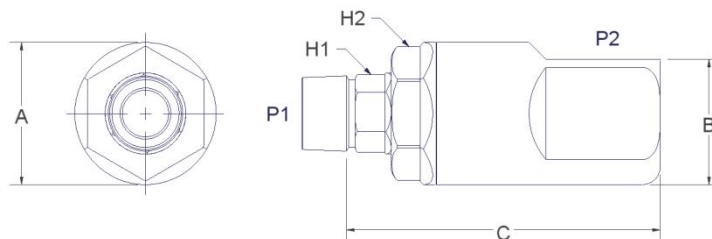
Blank = Standard

- J JIC 37° Flare
- B SAE (O-ring Boss)
- F NPTF
- P BSPP
- S ORFS (O-ring face Seal)
- M METRIC

- M Male

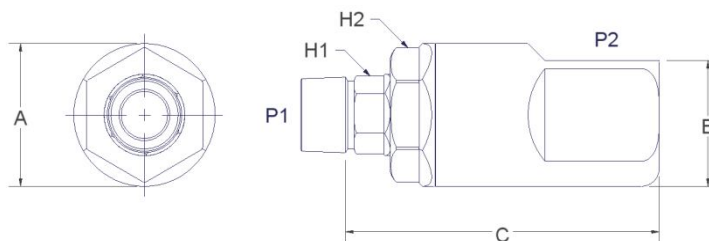
- J JIC 37° Flare
- F NPTF
- P BSPP
- S ORFS (O-ring face Seal)
- M METRIC

Male Pipe (NPTF) - Female Pipe (NPTF)



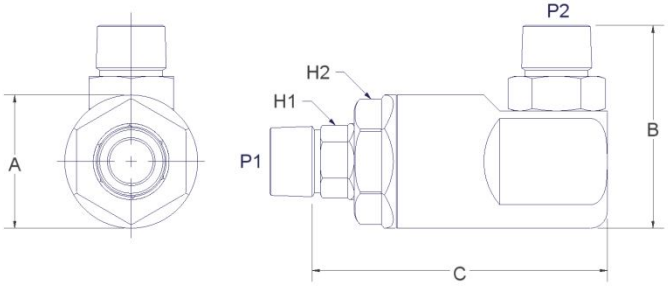
Part no.	A	B	C	P1	P2	H1	H2	Seal kit
SZ90-F06M-F06F	1.35"	1.21"	2.62"	3/8" NPTF	3/8" NPTF	0.63"	1.12"	SZ-06-002SK-A
SZ90-F08M-F08F	1.53"	1.33"	3.31"	1/2" NPTF	1/2" NPTF	0.75"	1.31"	SZ-08-002SK-A
SZ90-F12M-F12F	1.97"	1.74"	4.34"	3/4" NPTF	3/4" NPTF	0.94"	1.63"	SZ-12-001SK-A
SZ90-F16M-F16F	2.22"	1.92"	4.88"	1" NPTF	1" NPTF	1.19"	1.88"	SZ-16-001SK-A
SZ90-F20M-F20F	2.73"	2.37"	5.84"	1 1/4" NPTF	1 1/4" NPTF	1.50"	2.38"	SZ-20-001SK-A
SZ90-F24M-F24F	2.97"	2.55"	6.43"	1 1/2" NPTF	1 1/2" NPTF	1.75"	2.50"	SZ-24-001SK-A
SZ90-F32M-F32F	3.97"	3.36"	7.97"	2" NPTF	2" NPTF	2.31"	3.25"	SZ-32-001SK-A

Male Pipe (NPTF) - Female O-ring Boss (ORB) / SAE J1926-3

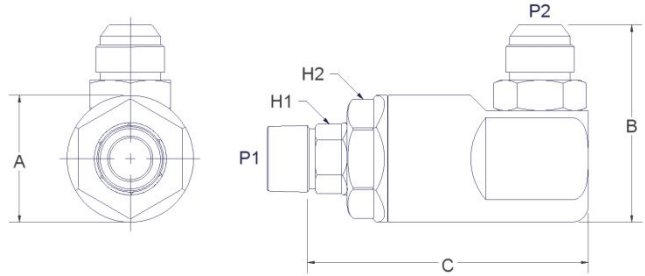


Part no.	A	B	C	P1	P2	H1	H2	Seal kit
SZ90-F06M-B06F	1.35"	1.21"	2.62"	3/8" NPTF	SAE 06	0.63"	1.12"	SZ-06-002SK-A
SZ90-F08M-B08F	1.53"	1.33"	3.31"	1/2" NPTF	SAE 08	0.75"	1.31"	SZ-08-002SK-A
SZ90-F12M-B12F	1.97"	1.74"	4.34"	3/4" NPTF	SAE 12	0.94"	1.63"	SZ-12-001SK-A
SZ90-F16M-B16F	2.22"	1.92"	4.88"	1" NPTF	SAE 16	1.19"	1.88"	SZ-16-001SK-A
SZ90-F20M-B20F	2.73"	2.37"	5.84"	1 1/4" NPTF	SAE 20	1.50"	2.38"	SZ-20-001SK-A
SZ90-F24M-B24F	2.97"	2.55"	6.43"	1 1/2" NPTF	SAE 24	1.75"	2.50"	SZ-24-001SK-A
SZ90-F32M-B32F	3.97"	3.36"	7.97"	2" NPTF	SAE 32	2.31"	3.25"	SZ-32-001SK-A

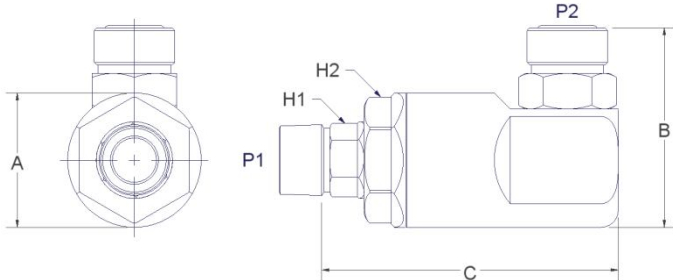
Male Pipe (NPTF) – Male Pipe (NPTF)

								
Part no.	A	B	C	P1	P2	H1	H2	Seal kit
SZ90-F06M-F06M	1.35"	2.00"	2.62"	3/8" NPTF	3/8" NPTF	0.63"	1.12"	SZ-06-002SK-A
SZ90-F08M-F08M	1.53"	2.14"	3.31"	1/2" NPTF	1/2" NPTF	0.75"	1.31"	SZ-08-002SK-A
SZ90-F12M-F12M	1.97"	2.88"	4.34"	3/4" NPTF	3/4" NPTF	0.94"	1.63"	SZ-12-001SK-A
SZ90-F16M-F16M	2.22"	3.25"	4.88"	1" NPTF	1" NPTF	1.19"	1.88"	SZ-16-001SK-A
SZ90-F20M-F20M	2.73"	3.80"	5.84"	1 1/4" NPTF	1 1/4" NPTF	1.50"	2.38"	SZ-20-001SK-A
SZ90-F24M-F24M	2.97"	4.08"	6.43"	1 1/2" NPTF	1 1/2" NPTF	1.75"	2.50"	SZ-24-001SK-A
SZ90-F32M-F32M	3.97"	5.08"	7.97"	2" NPTF	2" NPTF	2.31"	3.25"	SZ-32-001SK-A

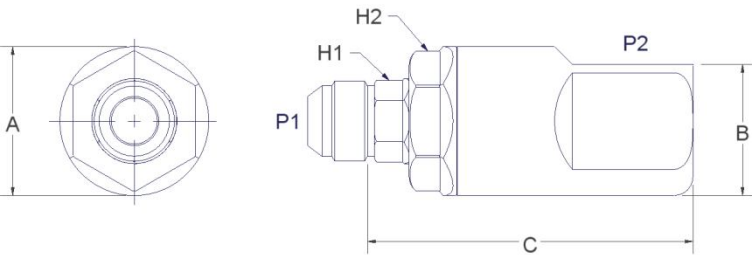
Male Pipe (NPTF) - Male JIC (37° Flare)

								
Part no.	A	B	C	P1	P2	H1	H2	Seal kit
SZ90-F06M-J06M	1.35"	2.09"	2.62"	3/8" NPTF	9/16" – 18 UNF	0.63"	1.12"	SZ-06-002SK-A
SZ90-F08M-J08M	1.53"	2.33"	3.31"	1/2" NPTF	3/4" – 16 UNF	0.75"	1.31"	SZ-08-002SK-A
SZ90-F12M-J12M	1.97"	3.07"	4.34"	3/4" NPTF	1 1/16" – 12 UN	0.94"	1.63"	SZ-12-001SK-A
SZ90-F16M-J16M	2.22"	3.31"	4.88"	1" NPTF	1 5/16" – 12 UN	1.19"	1.88"	SZ-16-001SK-A
SZ90-F20M-J20M	2.73"	3.91"	5.84"	1 1/4" NPTF	1 5/8" – 12 UN	1.50"	2.38"	SZ-20-001SK-A
SZ90-F24M-J24M	2.97"	4.32"	6.43"	1 1/2" NPTF	1 7/8" – 12 UN	1.75"	2.50"	SZ-24-001SK-A
SZ90-F32M-J32M	3.97"	5.44"	7.97"	2" NPTF	2 1/2" – 12 UN	2.31"	3.25"	SZ-32-001SK-A

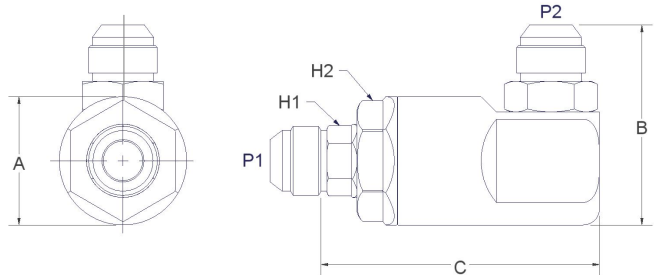
Male Pipe (NPTF) - Male ORFS (O-Ring Face Seal)

								
Part no.	A	B	C	P1	P2	H1	H2	Seal kit
SZ90-F06M-S06M	1.35"	2.00"	2.62"	3/8" NPTF	11/16" – 16 UNF	0.63"	1.12"	SZ-06-002SK-A
SZ90-F08M-S08M	1.53"	2.17"	3.31"	1/2" NPTF	13/16" – 16 UNF	0.75"	1.31"	SZ-08-002SK-A
SZ90-F12M-S12M	1.97"	2.93"	4.34"	3/4" NPTF	1 3/16" – 12 UN	0.94"	1.63"	SZ-12-001SK-A
SZ90-F16M-S16M	2.22"	3.17"	4.88"	1" NPTF	1 7/16" – 12 UN	1.19"	1.88"	SZ-16-001SK-A
SZ90-F20M-S20M	2.73"	3.70"	5.84"	1 1/4" NPTF	1 11/16" – 12 UN	1.50"	2.38"	SZ-20-001SK-A
SZ90-F24M-S24M	2.97"	3.95"	6.43"	1 1/2" NPTF	2.00" – 12 UN	1.75"	2.50"	SZ-24-001SK-A

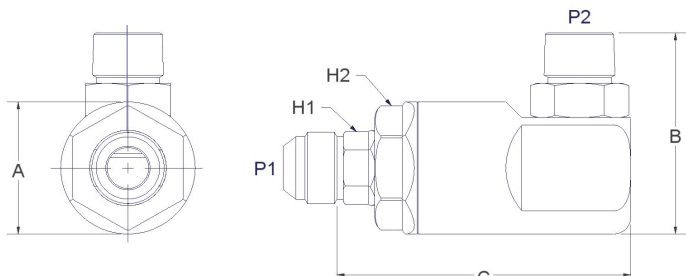
Male JIC (37° Flare) - Female O-Ring Boss (ORB) / SAE J1926-3

								
Part no.	A	B	C	P1	P2	H1	H2	Seal kit
SZ90-J06M-B06F	1.22"	1.09"	2.53"	9/16" – 18 UNF	SAE 06	0.50"	1.00"	SZ-06-001SK-A
SZ90-J08M-B08F	1.47"	1.30"	3.28"	3/4" – 16 UNF	SAE 08	0.69"	1.25"	SZ-08-001SK-A
SZ90-J12M-B12F	1.97"	1.74"	4.34"	1 1/16" – 12 UN	SAE 12	0.94"	1.63"	SZ-12-001SK-A
SZ90-J16M-B16F	2.22"	1.92"	4.88"	1 5/16" – 12 UN	SAE 16	1.19"	1.88"	SZ-16-001SK-A
SZ90-J20M-B20F	2.73"	2.37"	5.84"	1 5/8" – 12 UN	SAE 20	1.50"	2.38"	SZ-20-001SK-A
SZ90-J24M-B24F	2.97"	2.55"	6.43"	1 7/8" – 12 UN	SAE 24	1.75"	2.50"	SZ-24-001SK-A
SZ90-J32M-B32F	3.97"	3.36"	7.97"	2 1/2" – 12 UN	SAE 32	2.31"	3.25"	SZ-32-001SK-A

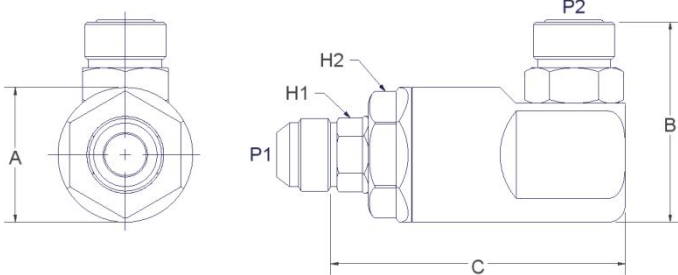
Male JIC (37° Flare) - Male JIC (37° Flare)

								
Part no.	A	B	C	P1	P2	H1	H2	Seal kit
SZ90-J06M-J06M	1.22"	1.97"	2.53"	9/16" – 18 UNF	9/16" – 18 UNF	0.50"	1.00"	SZ-06-001SK-A
SZ90-J08M-J08M	1.47"	2.30"	3.28"	3/4" – 16 UNF	3/4" – 16 UNF	0.69"	1.25"	SZ-08-001SK-A
SZ90-J12M-J12M	1.97"	3.07"	4.34"	1 1/16" – 12 UN	1 1/16" – 12 UN	0.94"	1.63"	SZ-12-001SK-A
SZ90-J16M-J16M	2.22"	3.31"	4.88"	1 5/16" – 12 UN	1 5/16" – 12 UN	1.19"	1.88"	SZ-16-001SK-A
SZ90-J20M-J20M	2.73"	3.91"	5.84"	1 5/8" – 12 UN	1 5/8" – 12 UN	1.50"	2.38"	SZ-20-001SK-A
SZ90-J24M-J24M	2.97"	4.32"	6.43"	1 7/8" – 12 UN	1 7/8" – 12 UN	1.75"	2.50"	SZ-24-001SK-A
SZ90-J32M-J32M	3.97"	5.44"	7.97"	2 1/2" – 12 UN	2 1/2" – 12 UN	2.31"	3.25"	SZ-32-001SK-A

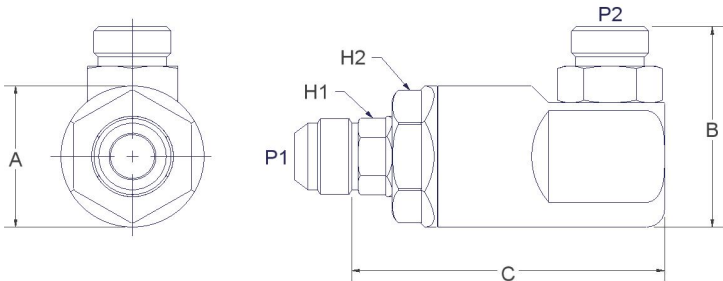
Male JIC (37° Flare) – Male Pipe (NPTF)

								
Part no.	A	B	C	P1	P2	H1	H2	Seal kit
SZ90-J06M-F06M	1.22"	1.88"	2.53"	9/16" – 18 UNF	3/8" NPTF	0.50"	1.00"	SZ-06-001SK-A
SZ90-J08M-F08M	1.47"	2.11"	3.28"	3/4" – 16 UNF	1/2" NPTF	0.69"	1.25"	SZ-08-001SK-A
SZ90-J12M-F12M	1.97"	2.88"	4.34"	1 1/16" – 12 UN	3/4" NPTF	0.94"	1.63"	SZ-12-001SK-A
SZ90-J16M-F16M	2.22"	3.25"	4.88"	1 5/16" – 12 UN	1" NPTF	1.19"	1.88"	SZ-16-001SK-A
SZ90-J20M-F20M	2.73"	3.80"	5.84"	1 5/8" – 12 UN	1 1/4" NPTF	1.50"	2.38"	SZ-20-001SK-A
SZ90-J24M-F24M	2.97"	4.08"	6.43"	1 7/8" – 12 UN	1 1/2" NPTF	1.75"	2.50"	SZ-24-001SK-A
SZ90-J32M-F32M	3.97"	5.08"	7.97"	2 1/2" – 12 UN	2" NPTF	2.31"	3.25"	SZ-32-001SK-A

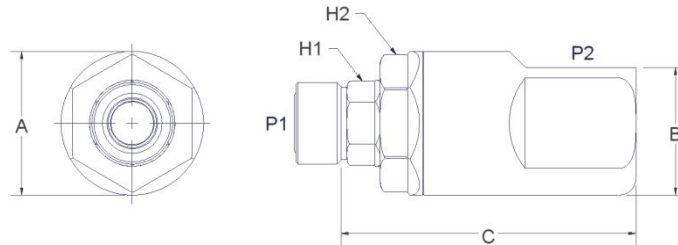
Male JIC (37° Flare) - Male ORFS (O-Ring Face Seal)

								
Part no.	A	B	C	P1	P2	H1	H2	Seal kit
SZ90-J06M-S06M	1.22"	1.88"	2.53"	9/16" – 18 UNF	11/16" – 16 UNF	0.50"	1.00"	SZ-06-001SK-A
SZ90-J08M-S08M	1.47"	2.14"	3.28"	3/4" – 16 UNF	13/16" – 16 UNF	0.69"	1.25"	SZ-08-001SK-A
SZ90-J12M-S12M	1.97"	2.93"	4.34"	1 1/16" – 12 UN	1 3/16" – 12 UN	0.94"	1.63"	SZ-12-001SK-A
SZ90-J16M-S16M	2.22"	3.17"	4.88"	1 5/16" – 12 UN	1 7/16" – 12 UN	1.19"	1.88"	SZ-16-001SK-A
SZ90-J20M-S20M	2.73"	3.70"	5.84"	1 5/8" – 12 UN	1 11/16" – 12 UN	1.50"	2.38"	SZ-20-001SK-A
SZ90-J24M-S24M	2.97"	3.95"	6.43"	1 7/8" – 12 UN	2.00" – 12 UN	1.75"	2.50"	SZ-24-001SK-A

Male JIC (37° Flare) - Male BSPP

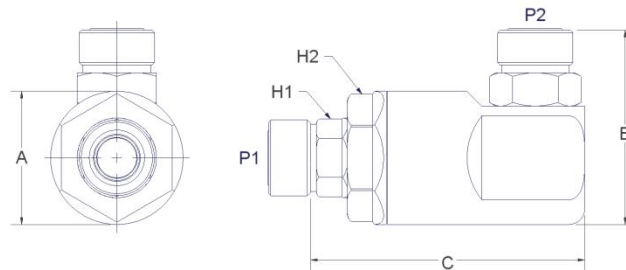
								
Part no.	A	B	C	P1	P2	H1	H2	Seal kit
SZ90-J06M-P06M	1.22"	1.81"	2.53"	9/16" – 18 UNF	G 3/8	0.50"	1.00"	SZ-06-001SK-A
SZ90-J08M-P08M	1.47"	2.09"	3.28"	3/4" – 16 UNF	G 1/2	0.69"	1.25"	SZ-08-001SK-A
SZ90-J12M-P12M	1.97"	2.80"	4.34"	1 1/16" – 12 UN	G 3/4	0.94"	1.63"	SZ-12-001SK-A
SZ90-J16M-P16M	2.22"	3.06"	4.88"	1 5/16" – 12 UN	G 1	1.19"	1.88"	SZ-16-001SK-A
SZ90-J20M-P20M	2.73"	3.82"	5.84"	1 5/8" – 12 UN	G 1 1/4	1.50"	2.38"	SZ-20-001SK-A

Male ORFS (O-Ring Face Seal) - Female O-Ring Boss (ORB) / SAE J1926-3



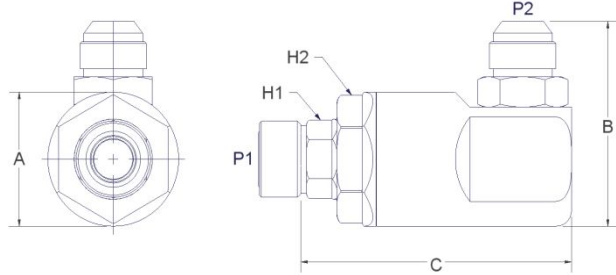
Part no.	A	B	C	P1	P2	H1	H2	Seal kit
SZ90-S06M-B06F	1.35"	1.21"	2.83"	11/16" – 16 UNF	SAE 06	0.63"	1.12"	SZ-06-002SK-A
SZ90-S08M-B08F	1.53"	1.33"	3.34"	13/16" – 16 UNF	SAE 08	0.75"	1.31"	SZ-08-002SK-A
SZ90-S12M-B12F	2.09"	1.89"	4.34"	1 3/16" – 12 UN	SAE 12	1.06"	1.75"	SZ-12-002SK-A
SZ90-S16M-B16F	2.34"	2.05"	5.00"	1 7/16" – 12 UN	SAE 16	1.31"	2.00"	SZ-16-002SK-A
SZ90-S20M-B20F	2.88"	2.37"	5.84"	1 11/16"-12 UN	SAE 20	1.56"	2.38"	SZ-20-002SK-A

Male ORFS (O-Ring Face Seal) - Male ORFS (O-Ring Face Seal)

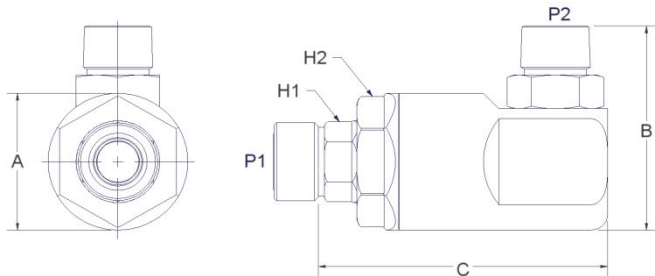


Part no.	A	B	C	P1	P2	H1	H2	Seal kit
SZ90-S06M-S06M	1.35"	2.00"	2.83"	11/16" – 16 UNF	11/16" – 16 UNF	0.63"	1.12"	SZ-06-002SK-A
SZ90-S08M-S08M	1.53"	2.17"	3.34"	13/16" – 16 UNF	13/16" – 16 UNF	0.75"	1.31"	SZ-08-002SK-A
SZ90-S12M-S12M	2.09"	3.09"	4.34"	1 3/16" – 12 UN	1 3/16" – 12 UN	1.06"	1.75"	SZ-12-002SK-A
SZ90-S16M-S16M	2.34"	3.30"	5.00"	1 7/16" – 12 UN	1 7/16" – 12 UN	1.31"	2.00"	SZ-16-002SK-A
SZ90-S20M-S20M	2.88"	3.70"	5.84"	1 11/16"-12 UN	1 11/16"-12 UN	1.56"	2.38"	SZ-20-002SK-A

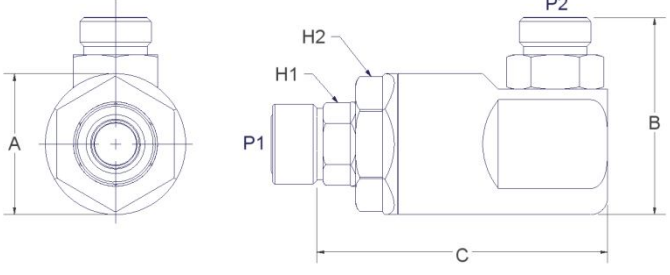
Male ORFS (O-Ring Face Seal) - Male JIC (37° Flare)

								
Part no.	A	B	C	P1	P2	H1	H2	Seal kit
SZ90-S06M-J06M	1.35"	2.00"	2.83"	11/16" – 16 UNF	9/16" – 18 UNF	0.63"	1.12"	SZ-06-002SK-A
SZ90-S08M-J08M	1.53"	2.17"	3.34"	13/16" – 16 UNF	3/4" – 16 UNF	0.75"	1.31"	SZ-08-002SK-A
SZ90-S12M-J12M	2.09"	3.22"	4.34"	1 3/16" – 12 UN	1 1/16" – 12 UN	1.06"	1.75"	SZ-12-002SK-A
SZ90-S16M-J16M	2.34"	3.44"	5.00"	1 7/16" – 12 UN	1 5/16" – 12 UN	1.31"	2.00"	SZ-16-002SK-A
SZ90-S20M-J20M	2.88"	3.91"	5.84"	1 11/16" – 12 UN	1 5/8" – 12 UN	1.56"	2.38"	SZ-20-002SK-A

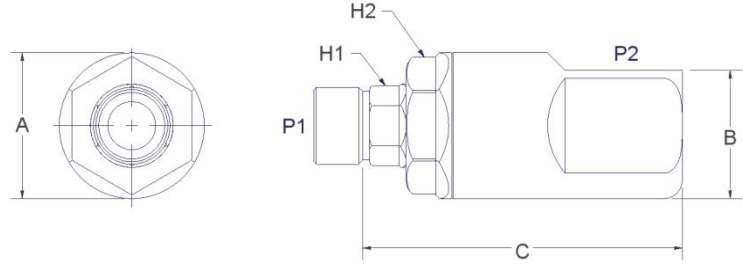
Male ORFS (O-Ring Face Seal) – Male Pipe (NPTF)

								
Part no.	A	B	C	P1	P2	H1	H2	Seal kit
SZ90-S06M-F06M	1.35"	2.00"	2.83"	11/16" – 16 UNF	3/8" NPTF	0.63"	1.12"	SZ-06-002SK-A
SZ90-S08M-F08M	1.53"	2.17"	3.34"	13/16" – 16 UNF	1/2" NPTF	0.75"	1.31"	SZ-08-002SK-A
SZ90-S12M-F12M	2.09"	3.02"	4.34"	1 3/16" – 12 UN	3/4" NPTF	1.06"	1.75"	SZ-12-002SK-A
SZ90-S16M-F16M	2.34"	3.38"	5.00"	1 7/16" – 12 UN	1" NPTF	1.31"	2.00"	SZ-16-002SK-A
SZ90-S20M-F20M	2.88"	3.80"	5.84"	1 11/16" – 12 UN	1 1/4" NPTF	1.56"	2.38"	SZ-20-002SK-A

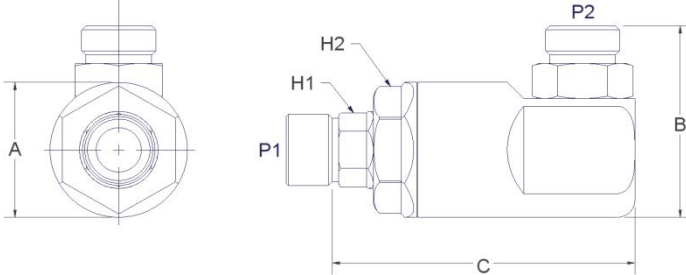
Male ORFS (O-Ring Face Seal) – Male BSPP

								
Part no.	A	B	C	P1	P2	H1	H2	Seal kit
SZ90-S06M-P06M	1.35"	2.00"	2.83"	1 1/16" – 16 UNF	G 3/8	0.63"	1.12"	SZ-06-002SK-A
SZ90-S08M-P08M	1.53"	2.17"	3.34"	1 3/16" – 16 UNF	G 1/2	0.75"	1.31"	SZ-08-002SK-A
SZ90-S12M-P12M	2.09"	2.95"	4.34"	1 3/16" – 12 UN	G 3/4	1.06"	1.75"	SZ-12-002SK-A
SZ90-S16M-P16M	2.34"	3.19"	5.00"	1 7/16" – 12 UN	G 1	1.31"	2.00"	SZ-16-002SK-A
SZ90-S20M-P20M	2.88"	3.82"	5.84"	1 11/16" – 12 UN	G 1 1/4	1.56"	2.38"	SZ-20-002SK-A

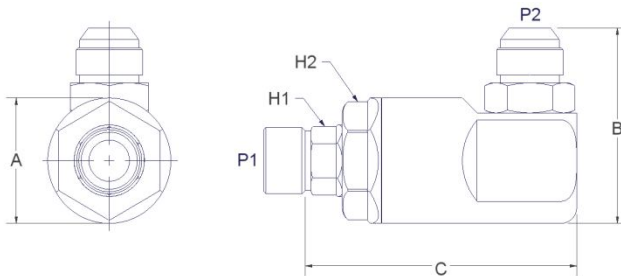
Male BSPP - Female O-Ring Boss (ORB) / SAE J1926-3

								
Part no.	A	B	C	P1	P2	H1	H2	Seal kit
SZ90-P06M-B06F	1.35"	1.21"	2.83"	G 3/8	SAE 06	0.63"	1.12"	SZ-06-002SK-A
SZ90-P08M-B08F	1.53"	1.33"	3.34"	G 1/2	SAE 08	0.75"	1.31"	SZ-08-002SK-A
SZ90-P12M-B12F	1.97"	1.89"	4.34"	G 3/4	SAE 12	0.94"	1.63"	SZ-12-001SK-A
SZ90-P16M-B16F	2.22"	2.05"	5.00"	G 1	SAE 16	1.19"	1.88"	SZ-16-001SK-A
SZ90-P20M-B20F	2.73"	2.37"	5.84"	G 1 1/4	SAE 20	1.50"	2.38"	SZ-20-001SK-A

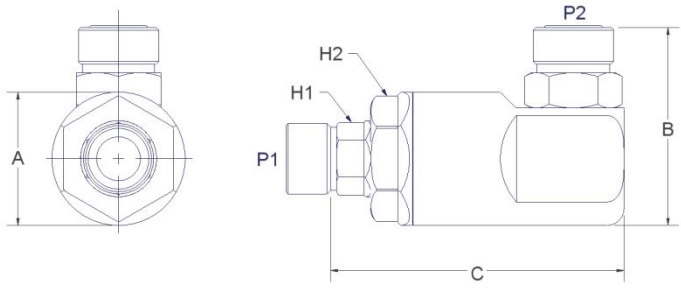
Male BSPP - Male BSPP

								
Part no.	A	B	C	P1	P2	H1	H2	Seal kit
SZ90-P06M-P06M	1.35"	2.00"	2.83"	G 3/8	G 3/8	0.63"	1.12"	SZ-06-002SK-A
SZ90-P08M-P08M	1.53"	2.17"	3.34"	G 1/2	G 1/2	0.75"	1.31"	SZ-08-002SK-A
SZ90-P12M-P12M	1.97"	2.80"	4.34"	G 3/4	G 3/4	0.94"	1.63"	SZ-12-001SK-A
SZ90-P16M-P16M	2.22"	3.06"	4.88"	G 1	G 1	1.19"	1.88"	SZ-16-001SK-A
SZ90-P20M-P20M	2.73"	3.82"	5.84"	G 1 1/4	G 1 1/4	1.50"	2.38"	SZ-20-001SK-A

Male BSPP - Male JIC (37° Flare)

								
Part no.	A	B	C	P1	P2	H1	H2	Seal kit
SZ90-P06M-J06M	1.35"	2.00"	2.83"	G 3/8	9/16" – 18 UNF	0.63"	1.12"	SZ-06-002SK-A
SZ90-P08M-J08M	1.53"	2.17"	3.34"	G 1/2	3/4" – 16 UNF	0.75"	1.31"	SZ-08-002SK-A
SZ90-P12M-J12M	1.97"	3.07"	4.34"	G 3/4	1 1/16" – 12 UN	0.94"	1.63"	SZ-12-001SK-A
SZ90-P16M-J16M	2.22"	3.31"	4.88"	G 1	1 5/16" – 12 UN	1.19"	1.88"	SZ-16-001SK-A
SZ90-P20M-J20M	2.73"	3.91"	5.84"	G 1 1/4	1 5/8" – 12 UN	1.50"	2.38"	SZ-20-001SK-A

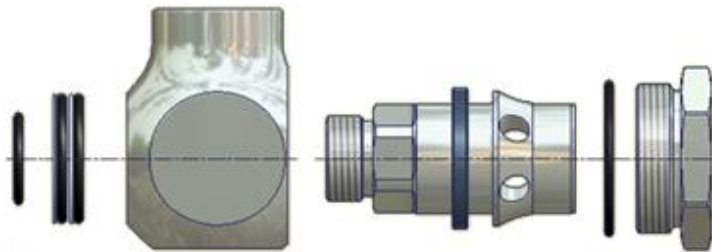
Male BSPP - Male ORFS (O-Ring Face Seal)



Part no.	A	B	C	P1	P2	H1	H2	Seal kit
SZ90-P06M-S06M	1.35"	2.00"	2.83"	G 3/8	11/16" – 16 UNF	0.63"	1.12"	SZ-06-002SK-A
SZ90-P08M-S08M	1.53"	2.17"	3.34"	G 1/2	13/16" – 16 UNF	0.75"	1.31"	SZ-08-002SK-A
SZ90-P12M-S12M	1.97"	2.93"	4.34"	G 3/4	1 3/16" – 12 UN	0.94"	1.63"	SZ-12-001SK-A
SZ90-P16M-S16M	2.22"	3.17"	4.88"	G 1	1 7/16" – 12 UN	1.19"	1.88"	SZ-16-001SK-A
SZ90-P20M-S20M	2.73"	3.70"	5.84"	G 1 1/4	1 11/16" – 12 UN	1.50"	2.38"	SZ-20-001SK-A

Other sizes and configurations available upon request

8. 90° SWIVELS – SHORT SERIES



MATERIAL OPTIONS

Shank, Nut, Housing

Plating

Seals

Standard

Carbon steel

White (Blue) Zinc

VITON®

Options

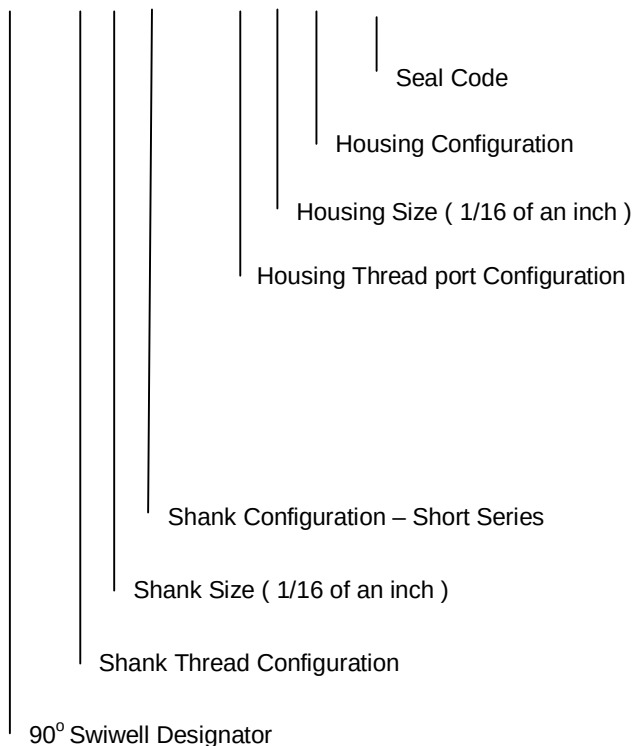
Stainless

Nickel, Arcor®

AFLAS®

HOW TO ORDER

SZ90 – J 12 MS – JB 12 F – _



Blank = Standard

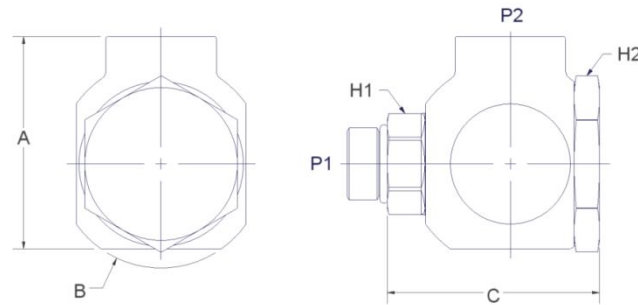
- M Male
- F Female

- F NPTF
- FS Female Pipe (NPTF) Swivel
- J JIC 37° Flare
- JB Combo JIC 37° Flare - SAE (O-ring Boss)
- P BSPP
- S ORFS (O-ring face Seal)
- M METRIC

- MS Male static

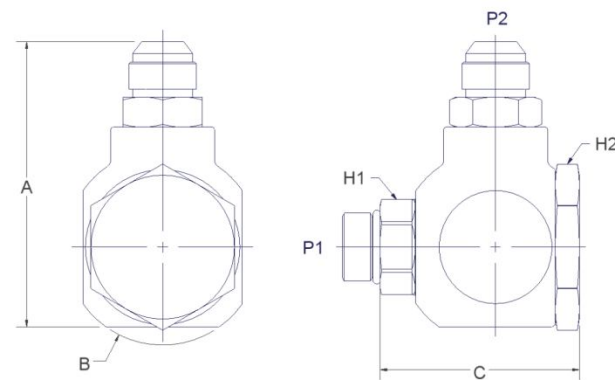
- B O-Ring Boss
- J JIC 37° Flare
- F NPTF
- P BSPP
- S ORFS (O-ring face Seal)
- M METRIC

Male O-Ring Boss (ORB) - Combo Female JIC (37° Flare) / Female O-Ring Boss (ORB) / SAE J1926-3



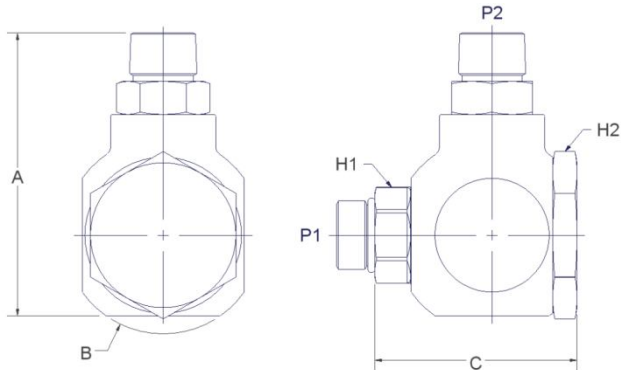
Part no.	A	B	C	P1	P2	H1	H2	Seal kit
SZ90-B06MS-JB06F	2.00"	1.00"	2.07"	SAE 06	9/16" – 18 UNF	0.69"	1.44"	SZ-06MS-001SK-A
SZ90-B08MS-JB08F	2.50"	1.25"	2.56"	SAE 08	3/4" – 16 UNF	0.94"	1.75"	SZ-08MS-001SK-A
SZ90-B10MS-JB10F	2.81"	1.38"	2.84"	SAE 10	7/8" – 14 UNF	1.06"	1.94"	SZ-10MS-001SK-A
SZ90-B12MS-JB12F	3.13"	1.53"	3.13"	SAE 1 2	1 1/16" – 12 UN	1.31"	2.25"	SZ-12MS-001SK-A
SZ90-B16MS-JB16F	3.56"	1.72"	3.54"	SAE 16	1 5/16" – 12 UN	1.50"	2.50"	SZ-16MS-001SK-A

Male O-Ring Boss (ORB) - Male JIC (37° Flare)

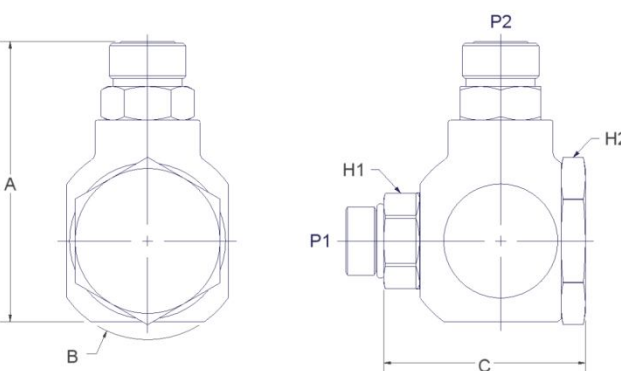


Part no.	A	B	C	P1	P2	H1	H2	Seal kit
SZ90-B06MS-JB06M	2.90"	1.00"	2.07"	SAE 06	9/16" – 18 UNF	0.69"	1.44"	SZ-06MS-001SK-A
SZ90-B08MS-JB08M	3.50"	1.25"	2.56"	SAE 08	3/4" – 16 UNF	0.94"	1.75"	SZ-08MS-001SK-A
SZ90-B10MS-JB10M	3.93"	1.38"	2.84"	SAE 10	7/8" – 14 UNF	1.06"	1.94"	SZ-10MS-001SK-A
SZ90-B12MS-JB12M	4.47"	1.53"	3.13"	SAE 1 2	1 1/16" – 12 UN	1.31"	2.25"	SZ-12MS-001SK-A
SZ90-B16MS-JB16M	4.95"	1.72"	3.54"	SAE 16	1 5/16" – 12 UN	1.50"	2.50"	SZ-16MS-001SK-A

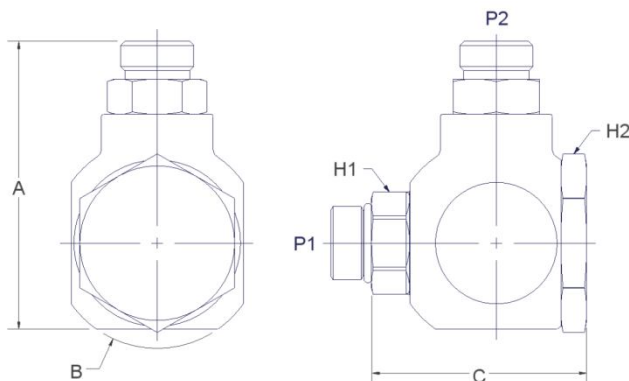
Male O-Ring Boss (ORB) – Male Pipe (NPTF)

								
Part no.	A	B	C	P1	P2	H1	H2	Seal kit
SZ90-B06MS-F06M	2.81"	1.00"	2.07"	SAE 06	3/8" NPTF	0.69"	1.44"	SZ-06MS-001SK-A
SZ90-B08MS-F08M	3.40"	1.25"	2.56"	SAE 08	1/2" NPTF	0.94"	1.75"	SZ-08MS-001SK-A
SZ90-B12MS-F12M	4.36"	1.53"	3.13"	SAE 1 2	3/4" NPTF	1.31"	2.25"	SZ-12MS-001SK-A
SZ90-B16MS-F16M	5.00"	1.72"	3.54"	SAE 16	1" NPTF	1.50"	2.50"	SZ-16MS-001SK-A

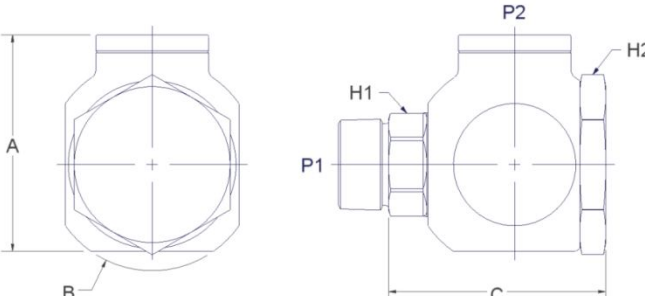
Male O-Ring Boss (ORB) - Male ORFS (O-Ring Face Seal)

								
Part no.	A	B	C	P1	P2	H1	H2	Seal kit
SZ90-B06MS-S06M	2.78"	1.00"	2.07"	SAE 06	11/16" – 16 UNF	0.69"	1.44"	SZ-06MS-001SK-A
SZ90-B08MS-S08M	3.34"	1.25"	2.56"	SAE 08	13/16" – 16 UNF	0.94"	1.75"	SZ-08MS-001SK-A
SZ90-B10MS-S10M	3.88"	1.38"	2.84"	SAE 10	1" – 14 UNS	1.06"	1.94"	SZ-10MS-001SK-A
SZ90-B12MS-S12M	4.32"	1.53"	3.13"	SAE 1 2	1 3/16" – 12 UN	1.31"	2.25"	SZ-12MS-001SK-A
SZ90-B16MS-S16M	4.81"	1.72"	3.54"	SAE 16	1 7/16" – 12 UN	1.50"	2.50"	SZ-16MS-001SK-A

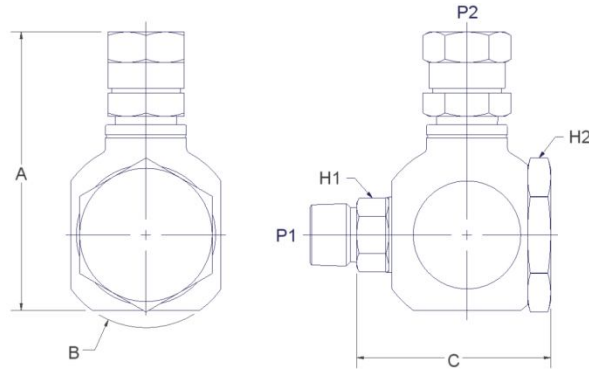
Male O-Ring Boss (ORB) - Male BSPP

								
Part no.	A	B	C	P1	P2	H1	H2	Seal kit
SZ90-B06MS-P06M	2.71"	1.00"	2.07"	SAE 06	G 3/8	0.69"	1.44"	SZ-06MS-001SK-A
SZ90-B08MS-P08M	3.36"	1.25"	2.56"	SAE 08	G 1/2	0.94"	1.75"	SZ-08MS-001SK-A
SZ90-B10MS-P10M	3.78"	1.38"	2.84"	SAE 10	G 5/8	1.06"	1.94"	SZ-10MS-001SK-A
SZ90-B12MS-P12M	4.19"	1.53"	3.13"	SAE 1 2	G 3/4	1.31"	2.25"	SZ-12MS-001SK-A
SZ90-B16MS-P16M	4.72"	1.72"	3.54"	SAE 16	G 1	1.50"	2.50"	SZ-16MS-001SK-A

Male Pipe (NPTF) - Female Pipe (NPTF)

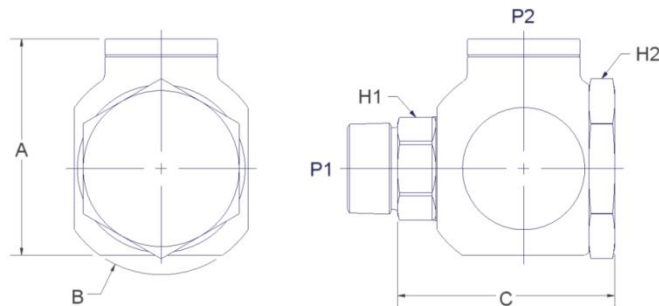
								
Part no.	A	B	C	P1	P2	H1	H2	Seal kit
SZ90-F06MS-F06F	2.00"	1.00"	2.07"	3/8" NPTF	3/8" NPTF	0.69"	1.44"	SZ-06MS-001SK-A
SZ90-F08MS-F08F	2.50"	1.25"	2.56"	1/2" NPTF	1/2" NPTF	0.94"	1.75"	SZ-08MS-001SK-A
SZ90-F12MS-F12F	3.13"	1.53"	3.13"	3/4" NPTF	3/4" NPTF	1.31"	2.25"	SZ-12MS-001SK-A
SZ90-F16MS-F16F	3.56"	1.72"	3.54"	1" NPTF	1" NPTF	1.50"	2.50"	SZ-16MS-001SK-A

Male Pipe (NPTF) – Female Pipe (NPTF) Swivel



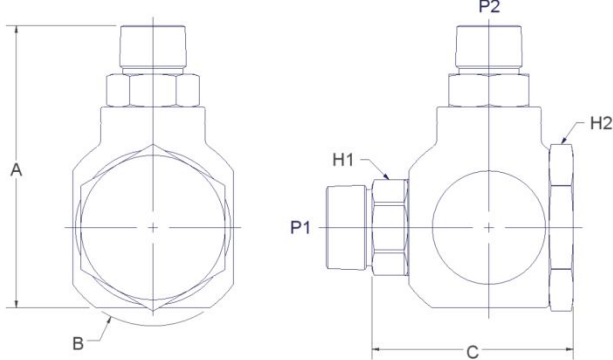
Part no.	A	B	C	P1	P2	H1	H2	Seal kit
SZ90-F06MS-F06FS	3.00"	1.00"	2.07"	3/8" NPTF	3/8" NPTF	0.69"	1.44"	SZ-06MS-001SK-A
SZ90-F08MS-F08FS	3.88"	1.25"	2.56"	1/2" NPTF	1/2" NPTF	0.94"	1.75"	SZ-08MS-001SK-A
SZ90-F12MS-F12FS	4.56"	1.53"	3.13"	3/4" NPTF	3/4" NPTF	1.31"	2.25"	SZ-12MS-001SK-A
SZ90-F16MS-F16FS	5.25"	1.72"	3.54"	1" NPTF	1" NPTF	1.50"	2.50"	SZ-16MS-001SK-A

Male Pipe (NPTF) - Combo Female JIC (37° Flare)

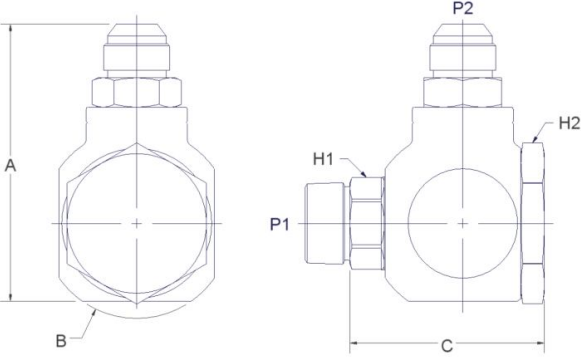


Part no.	A	B	C	P1	P2	H1	H2	Seal kit
SZ90-F06MS-JB06F	2.00"	1.00"	2.07"	3/8" NPTF	9/16" – 18 UNF	0.69"	1.44"	SZ-06MS-001SK-A
SZ90-F08MS-JB08F	2.50"	1.25"	2.56"	1/2" NPTF	3/4" – 16 UNF	0.94"	1.75"	SZ-08MS-001SK-A
SZ90-F12MS-JB12F	3.13"	1.53"	3.13"	3/4" NPTF	1 1/16" – 12 UN	1.31"	2.25"	SZ-12MS-001SK-A
SZ90-F16MS-JB16F	3.56"	1.72"	3.54"	1" NPTF	1 5/16" – 12 UN	1.50"	2.50"	SZ-16MS-001SK-A

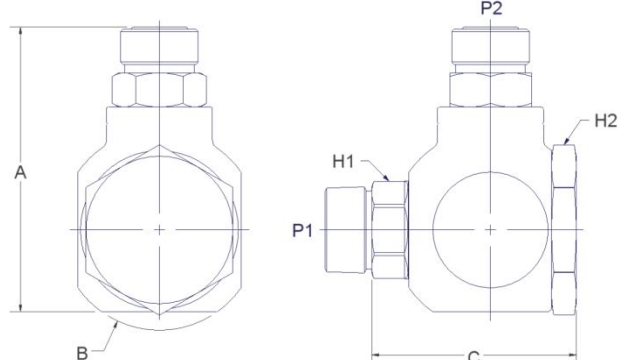
Male Pipe (NPTF) – Male Pipe (NPTF)

								
Part no.	A	B	C	P1	P2	H1	H2	Seal kit
SZ90-F06MS-F06M	2.81"	1.00"	2.07"	3/8" NPTF	3/8" NPTF	0.69"	1.44"	SZ-06MS-001SK-A
SZ90-F08MS-F08M	3.40"	1.25"	2.56"	1/2" NPTF	1/2" NPTF	0.94"	1.75"	SZ-08MS-001SK-A
SZ90-F12MS-F12M	4.36"	1.53"	3.13"	3/4" NPTF	3/4" NPTF	1.31"	2.25"	SZ-12MS-001SK-A
SZ90-F16MS-F16M	5.00"	1.72"	3.54"	1" NPTF	1" NPTF	1.50"	2.50"	SZ-16MS-001SK-A

Male Pipe (NPTF) - Male JIC (37° Flare)

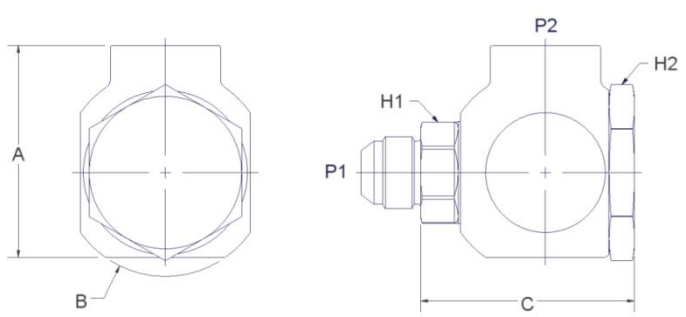
								
Part no.	A	B	C	P1	P2	H1	H2	Seal kit
SZ90-F06MS-JB06M	2.90"	1.00"	2.07"	3/8" NPTF	9/16" – 18 UNF	0.69"	1.44"	SZ-06MS-001SK-A
SZ90-F08MS-JB08M	3.50"	1.25"	2.56"	1/2" NPTF	3/4" – 16 UNF	0.94"	1.75"	SZ-08MS-001SK-A
SZ90-F12MS-JB12M	4.47"	1.53"	3.13"	3/4" NPTF	1 1/16" – 12 UN	1.31"	2.25"	SZ-12MS-001SK-A
SZ90-F16MS-JB16M	4.95"	1.72"	3.54"	1" NPTF	1 5/16" – 12 UN	1.50"	2.50"	SZ-16MS-001SK-A

Male Pipe (NPTF) - Male ORFS (O-Ring Face Seal)



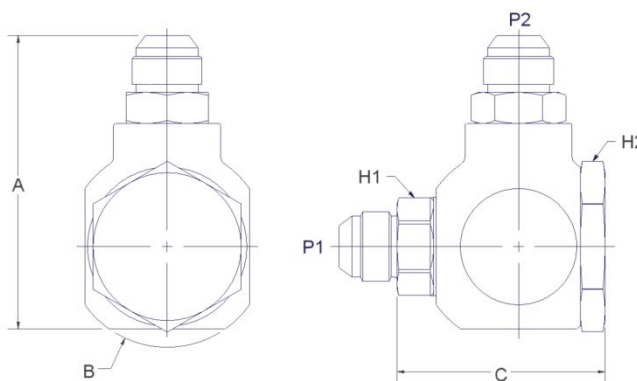
Part no.	A	B	C	P1	P2	H1	H2	Seal kit
SZ90-F06MS-S06M	2.78"	1.00"	2.07"	3/8" NPTF	11/16" – 16 UNF	0.69"	1.44"	SZ-06MS-001SK-A
SZ90-F08MS-S08M	3.34"	1.25"	2.56"	1/2" NPTF	13/16" – 16 UNF	0.94"	1.75"	SZ-08MS-001SK-A
SZ90-F12MS-S12M	4.32"	1.53"	3.13"	3/4" NPTF	1 3/16" – 12 UN	1.31"	2.25"	SZ-12MS-001SK-A
SZ90-F16MS-S16M	4.81"	1.72"	3.54"	1" NPTF	1 7/16" – 12 UN	1.50"	2.50"	SZ-16MS-001SK-A

Male JIC (37° Flare) - Combo Female JIC (37° Flare) / Female O-Ring Boss (ORB) / SAE J1926-3



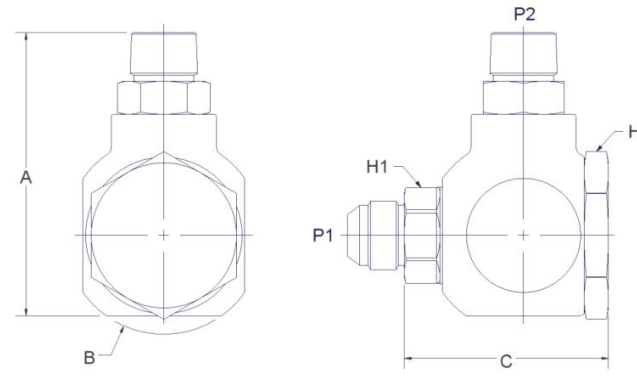
Part no.	A	B	C	P1	P2	H1	H2	Seal kit
SZ90-J06MS-JB06F	2.00"	1.00"	2.07"	9/16" – 18 UNF	9/16" – 18 UNF	0.69"	1.44"	SZ-06MS-001SK-A
SZ90-J08MS-JB08F	2.50"	1.25"	2.56"	3/4" – 16 UNF	3/4" – 16 UNF	0.94"	1.75"	SZ-08MS-001SK-A
SZ90-J10MS-JB10F	2.81"	1.38"	2.84"	7/8" – 14 UNF	7/8" – 14 UNF	1.06"	1.94"	SZ-10MS-001SK-A
SZ90-J12MS-JB12F	3.13"	1.53"	3.13"	1 1/16" – 12 UN	1 1/16" – 12 UN	1.31"	2.25"	SZ-12MS-001SK-A
SZ90-J16MS-JB16F	3.56"	1.72"	3.54"	1 5/16" – 12 UN	1 5/16" – 12 UN	1.50"	2.50"	SZ-16MS-001SK-A

Male JIC (37° Flare) - Male JIC (37° Flare)



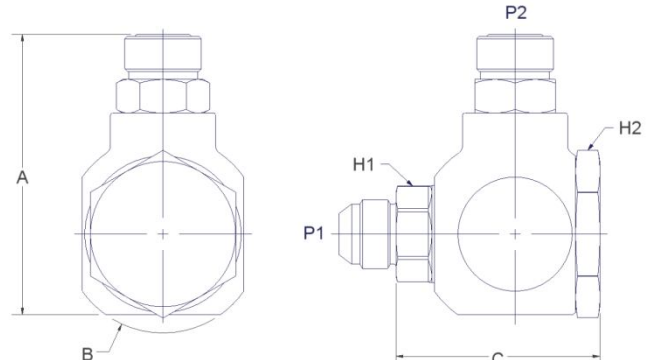
Part no.	A	B	C	P1	P2	H1	H2	Seal kit
SZ90-J06MS-JB06M	2.90"	1.00"	2.07"	9/16" – 18 UNF	9/16" – 18 UNF	0.69"	1.44"	SZ-06MS-001SK-A
SZ90-J08MS-JB08M	3.50"	1.25"	2.56"	3/4" – 16 UNF	3/4" – 16 UNF	0.94"	1.75"	SZ-08MS-001SK-A
SZ90-J10MS-JB10M	3.93"	1.38"	2.84"	7/8" – 14 UNF	7/8" – 14 UNF	1.06"	1.94"	SZ-10MS-001SK-A
SZ90-J12MS-JB12M	4.47"	1.53"	3.13"	1 1/16" – 12 UN	1 1/16" – 12 UN	1.31"	2.25"	SZ-12MS-001SK-A
SZ90-J16MS-JB16M	4.95"	1.72"	3.54"	1 5/16" – 12 UN	1 5/16" – 12 UN	1.50"	2.50"	SZ-16MS-001SK-A

Male JIC (37° Flare) – Male Pipe (NPTF)

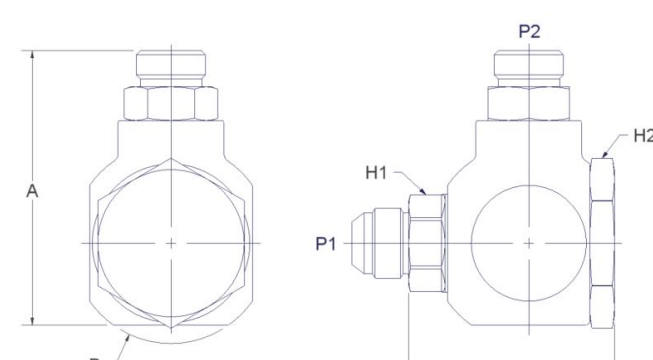


Part no.	A	B	C	P1	P2	H1	H2	Seal kit
SZ90-J06MS-F06M	2.81"	1.00"	2.07"	9/16" – 18 UNF	3/8" NPTF	0.69"	1.44"	SZ-06MS-001SK-A
SZ90-J08MS-F08M	3.40"	1.25"	2.56"	3/4" – 16 UNF	1/2" NPTF	0.94"	1.75"	SZ-08MS-001SK-A
SZ90-J12MS-F12M	4.36"	1.53"	3.13"	1 1/16" – 12 UN	3/4" NPTF	1.31"	2.25"	SZ-12MS-001SK-A
SZ90-J16MS-F16M	5.00"	1.72"	3.54"	1 5/16" – 12 UN	1" NPTF	1.50"	2.50"	SZ-16MS-001SK-A

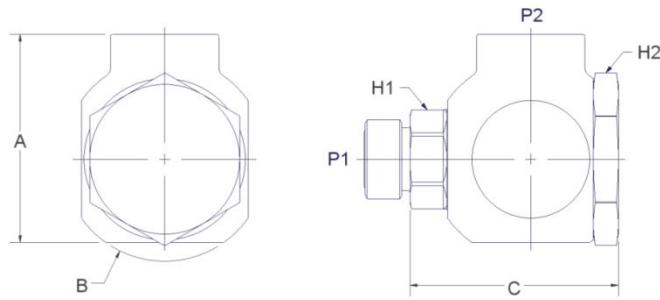
Male JIC (37° Flare) - Male ORFS (O-Ring Face Seal)

								
Part no.	A	B	C	P1	P2	H1	H2	Seal kit
SZ90-J06MS-S06M	2.78"	1.00"	2.07"	9/16" – 18 UNF	11/16" – 16 UNF	0.69"	1.44"	SZ-06MS-001SK-A
SZ90-J08MS-S08M	3.34"	1.25"	2.56"	3/4" – 16 UNF	13/16" – 16 UNF	0.94"	1.75"	SZ-08MS-001SK-A
SZ90-J10MS-S10M	3.88"	1.38"	2.84"	7/8" – 14 UNF	1" – 14 UNS	1.06"	1.94"	SZ-10MS-001SK-A
SZ90-J12MS-S12M	4.32"	1.53"	3.13"	1 1/16" – 12 UN	1 3/16" – 12 UN	1.31"	2.25"	SZ-12MS-001SK-A
SZ90-J16MS-S16M	4.81"	1.72"	3.54"	1 5/16" – 12 UN	1 7/16" – 12 UN	1.50"	2.50"	SZ-16MS-001SK-A

Male JIC (37° Flare) - Male BSPP

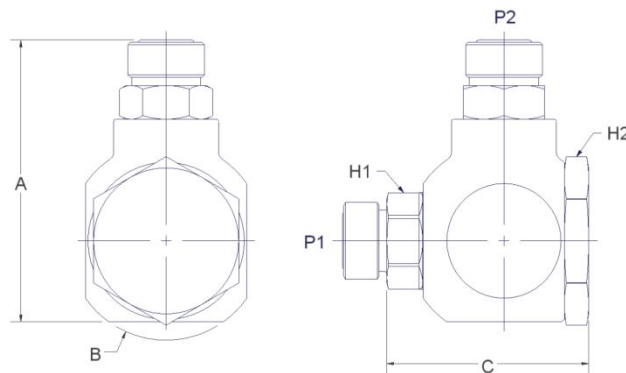
								
Part no.	A	B	C	P1	P2	H1	H2	Seal kit
SZ90-J06MS-P06M	2.71"	1.00"	2.07"	9/16" – 18 UNF	G 3/8	0.69"	1.44"	SZ-06MS-001SK-A
SZ90-J08MS-P08M	3.36"	1.25"	2.56"	3/4" – 16 UNF	G 1/2	0.94"	1.75"	SZ-08MS-001SK-A
SZ90-J10MS-P10M	3.78"	1.38"	2.84"	7/8" – 14 UNF	G 5/8	1.06"	1.94"	SZ-10MS-001SK-A
SZ90-J12MS-P12M	4.19"	1.53"	3.13"	1 1/16" – 12 UN	G 3/4	1.31"	2.25"	SZ-12MS-001SK-A
SZ90-J16MS-P16M	4.72"	1.72"	3.54"	1 5/16" – 12 UN	G 1	1.50"	2.50"	SZ-16MS-001SK-A

Male ORFS (O-Ring Face Seal) - Combo Female JIC (37° Flare) / Female O-Ring Boss (ORB) / SAE J1926-3



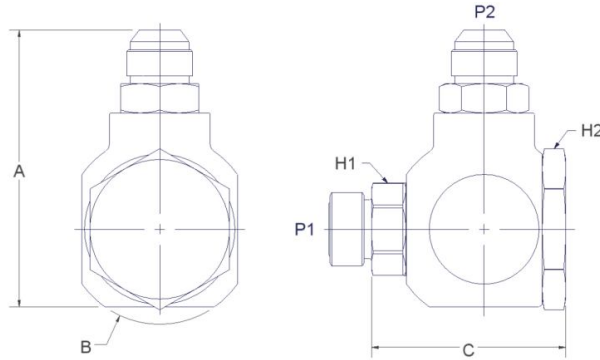
Part no.	A	B	C	P1	P2	H1	H2	Seal kit
SZ90-S06MS-JB06F	2.00"	1.00"	2.07"	11/16" – 16 UNF	9/16" – 18 UNF	0.69"	1.44"	SZ-06MS-001SK-A
SZ90-S08MS-JB08F	2.50"	1.25"	2.56"	13/16" – 16 UNF	3/4" – 16 UNF	0.94"	1.75"	SZ-08MS-001SK-A
SZ90-S10MS-JB10F	2.81"	1.38"	2.84"	1" – 14 UNS	7/8" – 14 UNF	1.06"	1.94"	SZ-10MS-001SK-A
SZ90-S12MS-JB12F	3.13"	1.53"	3.13"	1 3/16" – 12 UN	1 1/16" – 12 UN	1.31"	2.25"	SZ-12MS-001SK-A
SZ90-S16MS-JB16F	3.56"	1.72"	3.54"	1 7/16" – 12 UN	1 5/16" – 12 UN	1.50"	2.50"	SZ-16MS-001SK-A

Male ORFS (O-Ring Face Seal) - Male ORFS (O-Ring Face Seal)



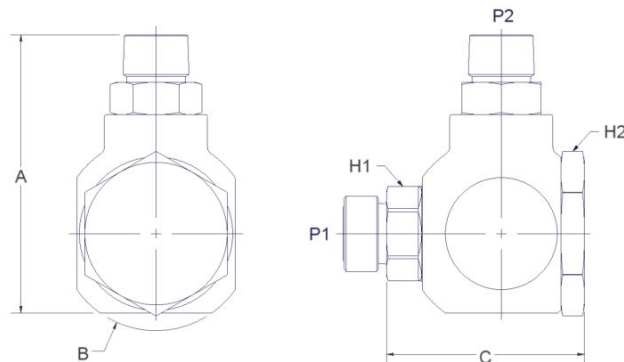
Part no.	A	B	C	P1	P2	H1	H2	Seal kit
SZ90-S06MS-S06M	2.78"	1.00"	2.07"	11/16" – 16 UNF	11/16" – 16 UNF	0.69"	1.44"	SZ-06MS-001SK-A
SZ90-S08MS-S08M	3.34"	1.25"	2.56"	13/16" – 16 UNF	13/16" – 16 UNF	0.94"	1.75"	SZ-08MS-001SK-A
SZ90-S10MS-S10M	3.88"	1.38"	2.84"	1" – 14 UNS	1" – 14 UNS	1.06"	1.94"	SZ-10MS-001SK-A
SZ90-S12MS-S12M	4.32"	1.53"	3.13"	1 3/16" – 12 UN	1 3/16" – 12 UN	1.31"	2.25"	SZ-12MS-001SK-A
SZ90-S16MS-S16M	4.81"	1.72"	3.54"	1 7/16" – 12 UN	1 7/16" – 12 UN	1.50"	2.50"	SZ-16MS-001SK-A

Male ORFS (O-Ring Face Seal) - Male JIC (37° Flare)



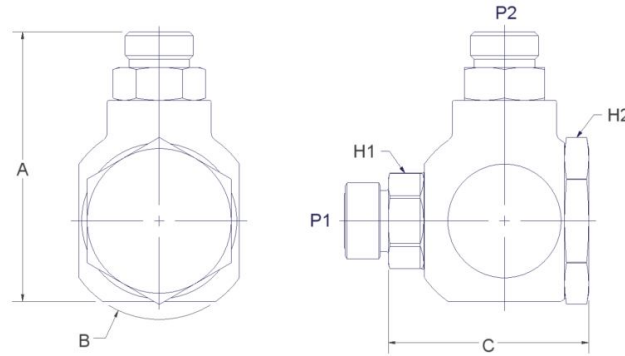
Part no.	A	B	C	P1	P2	H1	H2	Seal kit
SZ90-S06MS-JB06M	2.90"	1.00"	2.07"	11/16" – 16 UNF	9/16" – 18 UNF	0.69"	1.44"	SZ-06MS-001SK-A
SZ90-S08MS-JB08M	3.50"	1.25"	2.56"	13/16" – 16 UNF	3/4" – 16 UNF	0.94"	1.75"	SZ-08MS-001SK-A
SZ90-S10MS-JB10M	3.93"	1.38"	2.84"	1" – 14 UNS	7/8" – 14 UNF	1.06"	1.94"	SZ-10MS-001SK-A
SZ90-S12MS-JB12M	4.47"	1.53"	3.13"	1 3/16" – 12 UN	1 1/16" – 12 UN	1.31"	2.25"	SZ-12MS-001SK-A
SZ90-S16MS-JB16M	4.95"	1.72"	3.54"	1 7/16" – 12 UN	1 5/16" – 12 UN	1.50"	2.50"	SZ-16MS-001SK-A

Male ORFS (O-Ring Face Seal) – Male Pipe (NPTF)



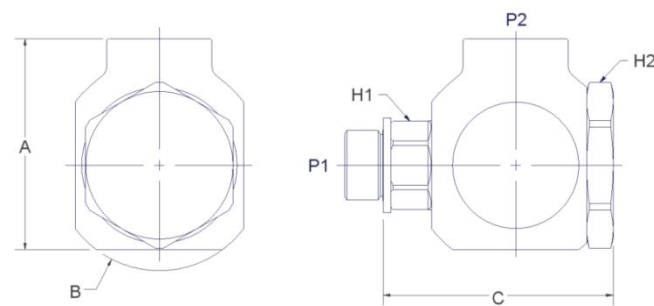
Part no.	A	B	C	P1	P2	H1	H2	Seal kit
SZ90-S06MS-F06M	2.81"	1.00"	2.07"	11/16" – 16 UNF	3/8" NPTF	0.69"	1.44"	SZ-06MS-001SK-A
SZ90-S08MS-F08M	3.40"	1.25"	2.56"	13/16" – 16 UNF	1/2" NPTF	0.94"	1.75"	SZ-08MS-001SK-A
SZ90-S12MS-F12M	4.36"	1.53"	3.13"	1 3/16" – 12 UN	3/4" NPTF	1.31"	2.25"	SZ-12MS-001SK-A
SZ90-S16MS-F16M	5.00"	1.72"	3.54"	1 7/16" – 12 UN	1" NPTF	1.50"	2.50"	SZ-16MS-001SK-A

Male ORFS (O-Ring Face Seal) – Male BSPP



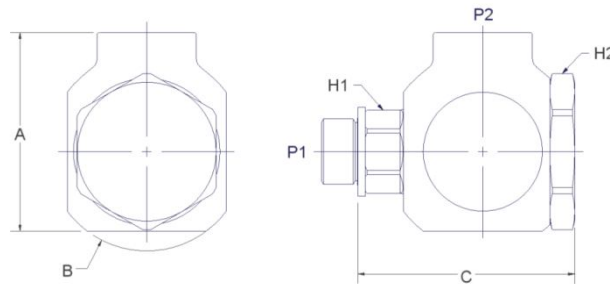
Part no.	A	B	C	P1	P2	H1	H2	Seal kit
SZ90-S06MS-P06M	2.71"	1.00"	2.07"	11/16" – 16 UNF	G 3/8	0.69"	1.44"	SZ-06MS-001SK-A
SZ90-S08MS-P08M	3.36"	1.25"	2.56"	13/16" – 16 UNF	G 1/2	0.94"	1.75"	SZ-08MS-001SK-A
SZ90-S10MS-P10M	3.78"	1.38"	2.84"	1" – 14 UNS	G 5/8	1.06"	1.94"	SZ-10MS-001SK-A
SZ90-S12MS-P12M	4.19"	1.53"	3.13"	1 3/16" – 12 UN	G 3/4	1.31"	2.25"	SZ-12MS-001SK-A
SZ90-S16MS-P16M	4.72"	1.72"	3.54"	1 7/16" – 12 UN	G 1	1.50"	2.50"	SZ-16MS-001SK-A

Male BSPP – Female BSPP



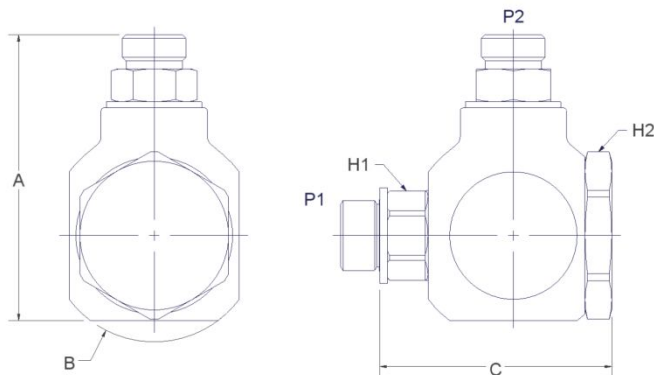
Part no.	A	B	C	P1	P2	H1	H2	Seal kit
SZ90-P06MS-P06F	2.00"	1.00"	2.07"	G 3/8	G 3/8	0.69"	1.44"	SZ-06MS-001SK-A
SZ90-P08MS-P08F	2.50"	1.25"	2.56"	G 1/2	G 1/2	0.94"	1.75"	SZ-08MS-001SK-A
SZ90-P10MS-P10F	2.81"	1.38"	2.84"	G 5/8	G 5/8	1.06"	1.94"	SZ-10MS-001SK-A
SZ90-P12MS-P12F	3.13"	1.53"	3.13"	G 3/4	G 3/4	1.31"	2.25"	SZ-12MS-001SK-A
SZ90-P16MS-P16F	3.56"	1.72"	3.54"	G 1	G 1	1.50"	2.50"	SZ-16MS-001SK-A

Male BSPP - Combo Female JIC (37° Flare) / Female O-Ring Boss (ORB) / SAE J1926-3



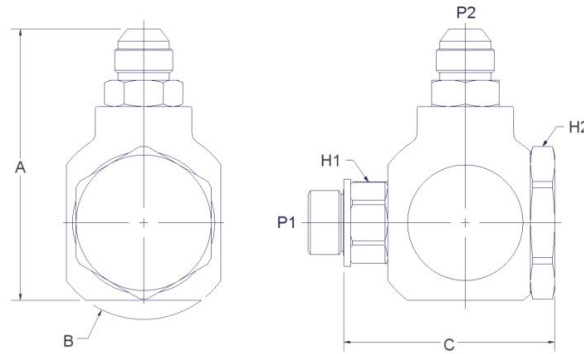
Part no.	A	B	C	P1	P2	H1	H2	Seal kit
SZ90-P06MS-JB06F	2.00"	1.00"	2.07"	G 3/8	9/16" – 18 UNF	0.69"	1.44"	SZ-06MS-001SK-A
SZ90-P08MS-JB08F	2.50"	1.25"	2.56"	G 1/2	3/4" – 16 UNF	0.94"	1.75"	SZ-08MS-001SK-A
SZ90-P10MS-JB10F	2.81"	1.38"	2.84"	G 5/8	7/8" – 14 UNF	1.06"	1.94"	SZ-10MS-001SK-A
SZ90-P12MS-JB12F	3.13"	1.53"	3.13"	G 3/4	1 1/16" – 12 UN	1.31"	2.25"	SZ-12MS-001SK-A
SZ90-P16MS-JB16F	3.56"	1.72"	3.54"	G 1	1 5/16" – 12 UN	1.50"	2.50"	SZ-16MS-001SK-A

Male BSPP - Male BSPP



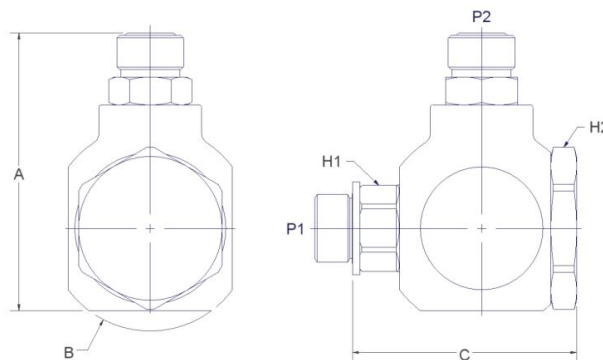
Part no.	A	B	C	P1	P2	H1	H2	Seal kit
SZ90-P06MS-P06M	2.71"	1.00"	2.07"	G 3/8	G 3/8	0.69"	1.44"	SZ-06MS-001SK-A
SZ90-P08MS-P08M	3.36"	1.25"	2.56"	G 1/2	G 1/2	0.94"	1.75"	SZ-08MS-001SK-A
SZ90-P10MS-P10M	3.78"	1.38"	2.84"	G 5/8	G 5/8	1.06"	1.94"	SZ-10MS-001SK-A
SZ90-P12MS-P12M	4.19"	1.53"	3.13"	G 3/4	G 3/4	1.31"	2.25"	SZ-12MS-001SK-A
SZ90-P16MS-P16M	4.72"	1.72"	3.54"	G 1	G 1	1.50"	2.50"	SZ-16MS-001SK-A

Male BSPP - Male JIC (37° Flare)



Part no.	A	B	C	P1	P2	H1	H2	Seal kit
SZ90-P06MS-JB06M	2.90"	1.00"	2.07"	G 3/8	9/16" – 18 UNF	0.69"	1.44"	SZ-06MS-001SK-A
SZ90-P08MS-JB08M	3.50"	1.25"	2.56"	G 1/2	3/4" – 16 UNF	0.94"	1.75"	SZ-08MS-001SK-A
SZ90-P10MS-JB10M	3.93"	1.38"	2.84"	G 5/8	7/8" – 14 UNF	1.06"	1.94"	SZ-10MS-001SK-A
SZ90-P12MS-JB12M	4.47"	1.53"	3.13"	G 3/4	1 1/16" – 12 UN	1.31"	2.25"	SZ-12MS-001SK-A
SZ90-P16MS-JB16M	4.95"	1.72"	3.54"	G 1	1 5/16" – 12 UN	1.50"	2.50"	SZ-16MS-001SK-A

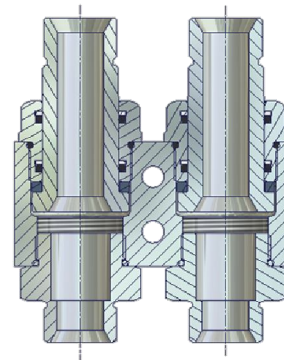
Male BSPP - Male ORFS (O-Ring Face Seal)



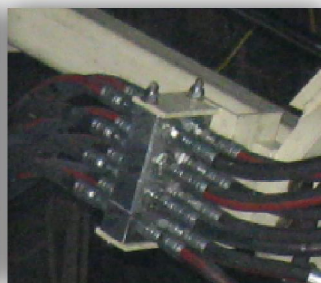
Part no.	A	B	C	P1	P2	H1	H2	Seal kit
SZ90-P06MS-S06M	2.78"	1.00"	2.07"	G 3/8	11/16" – 16 UNF	0.69"	1.44"	SZ-06MS-001SK-A
SZ90-P08MS-S08M	3.34"	1.25"	2.56"	G 1/2	13/16" – 16 UNF	0.94"	1.75"	SZ-08MS-001SK-A
SZ90-P10MS-S10M	3.88"	1.38"	2.84"	G 5/8	1" – 14 UNS	1.06"	1.94"	SZ-10MS-001SK-A
SZ90-P12MS-S12M	4.32"	1.53"	3.13"	G 3/4	1 3/16" – 12 UN	1.31"	2.25"	SZ-12MS-001SK-A
SZ90-P16MS-S16M	4.81"	1.72"	3.54"	G 1	1 7/16" – 12 UN	1.50"	2.50"	SZ-16MS-001SK-A

Metric thread, other sizes and configurations available upon request

9. DUAL SWIVEL MANIFOLD / “A” Series



The Dual Swivel Manifolds house two swivel cartridges. They are designed to be bolted or welded together. As with our cartridges and in-line swivels, the operational pressure is up to 6250 PSI for sizes 06 to 16. They are used in multiple applications where hoses are wearing fast or loosening due to torsion or hammering effect. Fittings of 90° or 45° can be installed on both the swivel and static side of the manifold. These manifolds can also house Mining Swiwell Cartridges.



MATERIAL OPTIONS

Shank, Nut, Manifold

Plating

Seals

Standard

Carbon steel

White (Blue) Zinc

VITON®

Options

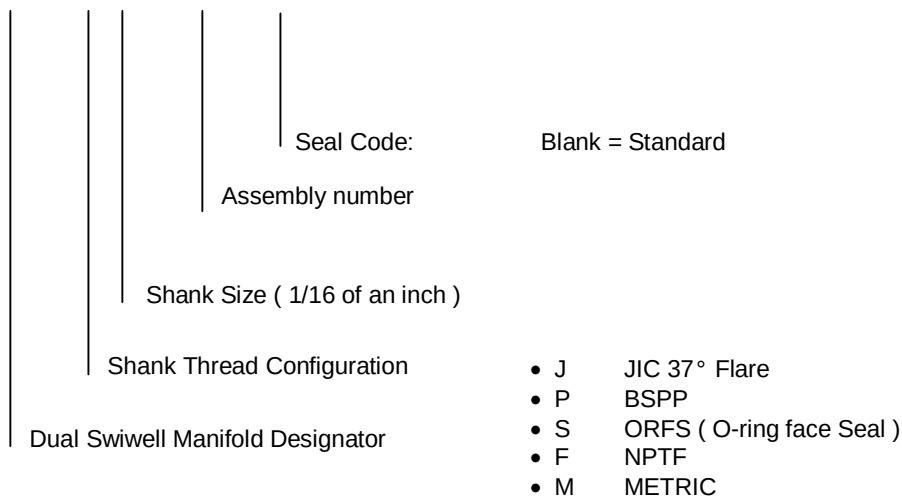
Stainless

Nickel, Arcor®

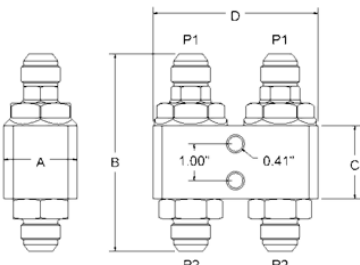
AFLAS®

HOW TO ORDER

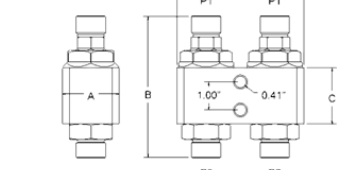
SM2A – J 12 – 501 – _



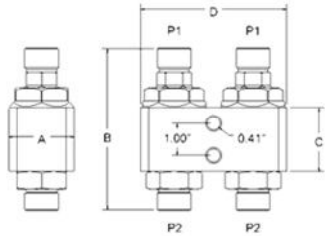
Dual / Male JIC (37° Flare) - Male JIC (37° Flare)

	Part no.	A	B	C	D	P1	P2	Seal kit
	SM2A-J06-503	1.5"	3.40"	1.5"	3.50"	9/16" – 18 UNF	9/16" – 18 UNF	SZ-06-001SK-A
	SM2A-J08-501	1.63"	4.45"	1.63"	3.69"	3/4" – 16 UNF	3/4" – 16 UNF	SZ-08-001SK-A
	SM2A-J10-501	1.88"	4.60"	1.88"	4.50"	7/8" – 14 UNF	7/8" – 14 UNF	SZ-10-001SK-A
	SM2A-J12-501	2.00"	5.35"	2.00"	4.50"	1 1/16"-12 UN	1 1/16"-12 UN	SZ-12-001SK-A
	SM2A-J16-501	2.25"	6.31"	2.25"	5.00"	1 5/16"-12 UN	1 5/16"-12 UN	SZ-16-001SK-A
	SM2A-J1612-501	2.25"	6.31"	2.25"	5.00"	1 5/16"-12 UN	1 1/16"-12 UN	SZ-16-001SK-A SZ-12-001SK-A
	SM2A-J20-501	2.75"	7.13"	2.75"	6.12"	1 5/8"-12 UN	1 5/8"-12 UN	SZ-20-001SK-A

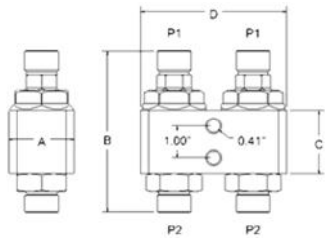
Dual / Male JIC (37° Flare) – Male ORFS (O-Ring Face Seal / Flat Face O-Ring)

	Part no.	A	B	C	D	P1	P2	Seal kit
	SM2A-JS16-501	2.50"	6.19"	2.50"	5.38"	1 5/16"-12 UN 1 7/6"-12 UN	1 5/16"-12 UN 1 7/6"-12 UN	SZ-16-001SK-A SZ-16-002SK-A
	SM2A-J20S16-501	2.75"	6.84"	2.75"	6.13"	1 5/8"-12 UN 1 7/16"-12 UN	1 5/8"-12 UN 1 7/16"-12 UN	SZ-20-001SK-A SZ-16-002SK-A

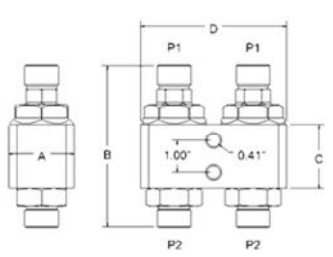
Dual / Male Pipe (NPTF) – Male Pipe (NPTF)

	Part no.	A	B	C	D	P1	P2	Seal kit
	SM2A-F08-501	1.63"	4.10"	1.63"	3.69"	1/2" NPTF	1/2" NPTF	SZ-08-002SK-A
	SM2A-F12-501	2.00"	5.05"	2.00"	4.50"	3/4" NPTF	3/4" NPTF	SZ-12-001SK-A
	SM2A-F16-501	2.25"	5.59"	2.25"	5.00"	1" NPTF	1" NPTF	SZ-16-001SK-A
	SM2A-F20-501	2.75"	6.42"	2.75"	6.12"	1 1/4" NPTF	1 1/4" NPTF	SZ-20-001SK-A

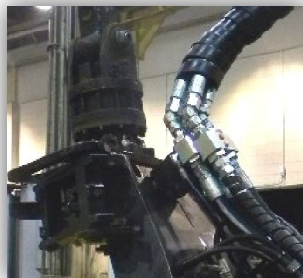
Dual / Male BSPP – Male BSPP

	Part no.	A	B	C	D	P1	P2	Seal kit
	SM2A-P08-501	1.63"	4.08"	1.63"	3.69"	G 1/2	G 1/2	SZ-08-002SK-A
	SM2A-P12-501	2.00"	5.14"	2.00"	4.50"	G 3/4	G 3/4	SZ-12-001SK-A
	SM2A-P16-501	2.25"	5.86"	2.25"	5.00"	G 1	G 1	SZ-16-001SK-A
	SM2A-P20-501	2.75"	6.42"	2.75"	6.12"	G 1 1/4	G 1 1/4	SZ-20-001SK-A

Dual / Male ORFS – Male ORFS (O-Ring Face Seal)

	Part no.	A	B	C	D	P1	P2	Seal kit
	SM2A-S08-501	1.63"	4.04"	1.63"	3.69"	13/16" – 16 UNF	13/16" – 16 UNF	SZ-08-002SK-A
	SM2A-S12-501	2.25"	5.25"	2.25"	4.75"	1 3/16" – 12 UN	1 3/16" – 12 UN	SZ-12-002SK-A
	SM2A-S16-501	2.50"	5.97"	2.50"	5.38"	1 7/16" – 12 UN	1 7/16" – 12 UN	SZ-16-002SK-A
	SM2A-S20-501	2.75"	6.35"	5.56"	6.12"	1 11/16" – 12 UN	1 11/16" – 12 UN	SZ-20-002SK-A

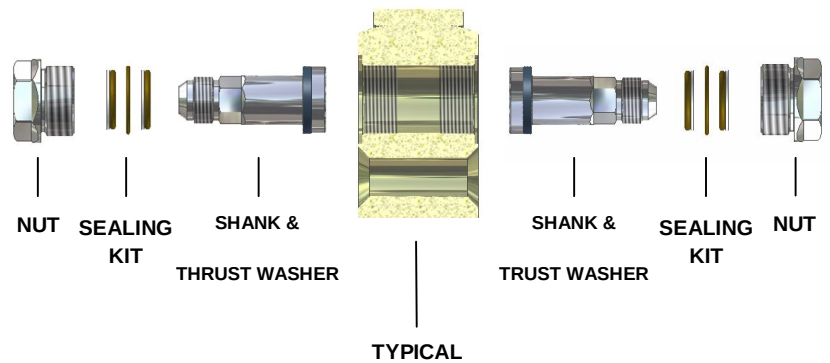
Other sizes and configurations available upon request



10. HARVESTER CUSTOM PRODUCTS

Taimi Hydraulics manufactures a wide array of swivel manifolds to retrofit most harvester heads on the market. Our products are designed to replace the original static manifold or hydraulic junction block to increase hydraulic reliability, as well as production, reduce downtime, improve safety and reduce oil consumption.

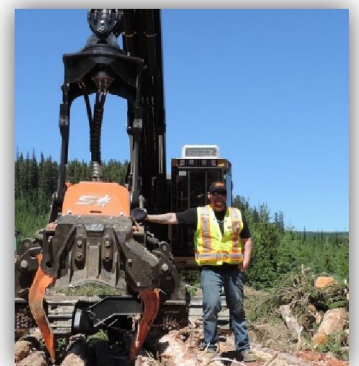
10.1 SWIROLL – CIRCULAR & SPHERICAL HYDRAULIC JOINTS



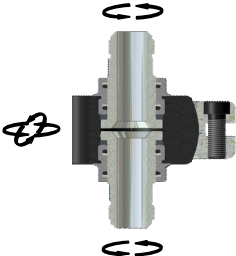
MATERIAL OPTIONS

Standard

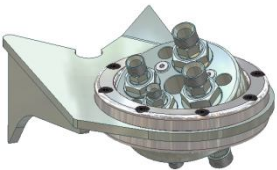
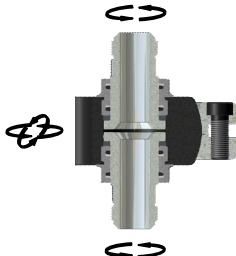
Shank , Nut	Carbon steel
Plating	White (Blue) Zinc
Seals	Viton ®



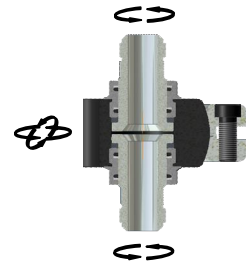
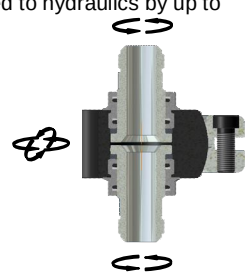
10.1.1 LOGMAX HARVESTER HEADS

Bolt-On Swiroll	Length	Width	Height	Weight	Online Video
	13.25"	9.66"	7.63"	51.5 Lbs	http://tinyurl.com/bm7k6ua
JIC Configurations					
Part No.	Ports			Benefits	
SR4S-JJ-502	3 X J16, 1 X J12			The Spherical Swiroll is designed to offer full freedom of movement to hydraulic hoses, eliminating hose twisting on upper and lower hoses. It reduces costs related to hydraulics by up to 75%, including: - Hydraulic hoses - Press fittings and swivels - Hydraulic oil - Manpower - Hydraulic downtime 	
SR4S-JJ-504	3 X J16, 1 X J08				
SR4S-JJ-505	2 X J16, 2 X J12				
SR4S-JJ-506	2 X J16, 1 X J12, 1 X J08				
SR4S-JJ-520	2 X J20, 2 X J12				
SR5-JJ-503	3 X J16, 2 X J12				
SR5-W6-530	1 X J 20, 1 X S16, 2 X J12				
BSPP Configurations					
Part No.	Ports				
SR4S-PP-504	3 X P16, 1 X P08				
SR4S-PP-505	2 X P16, 2 X P12				
SR4S-PP-506	2 X P16, 1 X P12, 1 X P08				
SR5-PP-506K	2 X P16, 2 X P12, 1 X P08				
SR5-PP-507	2 X P16, 1 X P12, 2 X P08				



Weld-On Swiroll	Length	Width	Height	Weight	Online Video
	18.88"	9.66"	7.63"	52.5 Lbs	http://tinyurl.com/79e6xzk
	JIC Configurations				
	Part No.	Ports	Benefits		
	SR5-JJ-503F	2 X J16, 1 X J12, 2 X J08	The Spherical Swiroll is designed to offer full freedom of movement to hydraulic hoses, eliminating hose twisting on upper and lower hoses. It reduces costs related to hydraulics by up to 75%, including: - Hydraulic hoses - Press fittings and swivels - Hydraulic oil - Manpower - Hydraulic downtime 		
	SR5-JJ-505K	2 X J16, 2 X J12, 1 X J08			
	BSPP Configurations				
	Part No.	Ports			
SR4S-PP-502	2 X P16, 2 X P12				
SR4S-PP-503	2 X P16, 1 X P12, 1 X P08				
SR4S-PP-507	2 X P16, 2 X P12				
SR5-PP-505K	2 X P16, 2 X P12, 1 X P08				

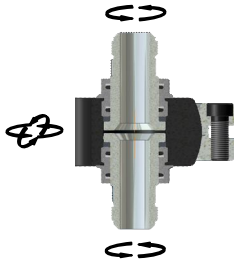
10.1.2 WARATAH HARVESTER HEADS

Bolt-On Swiroll	Length	Width	Height	Weight	Online Video
 	10.33"	9.66"	8.02"	47 Lbs	https://www.youtube.com/watch?v=e6M2KUILJZ4
	JIC Configurations				
	Part No.	Ports	Benefits		
	SR5-W6-501	1 X J20, 1 X S16, 2 X J12, 1 X J06	The Spherical Swiroll is designed to offer full freedom of movement to hydraulic hoses, eliminating hose twisting on upper and lower hoses. It reduces costs related to hydraulics by up to 75%, including: - Hydraulic hose - Press fittings and swivels - Hydraulic oil - Manpower - Hydraulic downtime 		
	SR5-JJ-502	1 X J20, 1 X J16, 2 X J12, 1 X J06			
Weld-On Swiroll	Length	Width	Height	Weight	Online Video
 	13.25"	9.66"	7.63"	62.2 Lbs	http://tinyurl.com/7tadmru
	JIC Configurations				
	Part No.	Ports	Benefits		
	SR4S-JJ-501	3 X J16, 1 X J12	The Spherical Swiroll is designed to offer full freedom of movement to hydraulic hoses, eliminating hose twisting on upper and lower hoses. It reduces costs related to hydraulics by up to 75%, including: - Hydraulic hose - Press fittings and swivels - Hydraulic oil - Manpower - Hydraulic downtime 		
	SR4S-JJ-510	1 X J20, 1 X J16, 2 X JIC 12			
	SR4S-JJ-515	2 X J16, 2 X J12			
	SR5-JJ-501	3 X J16, 2 X J12			
	SR5-JJ-507	2 X J16, 2 X J12, JIC 08			

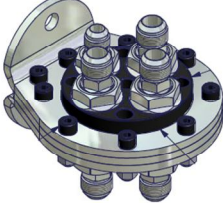
10.1.3 SPHERICAL SWIROLLS FOR SOUTHSTAR HARVESTER HEADS

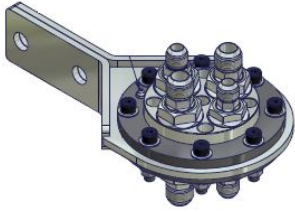
Bolt-On Swiroll	Length	Width	Height	Weight	Online Video
	13.25"	9.66"	7.63"	62.2 Lbs	N/A
	JIC Configurations				
	Part No.	Ports	Benefits		
	SR4S-JS-503	2 X JIC 16, 2 X JIC 12	The Spherical Swiroll is designed to offer full freedom of movement to hydraulic hoses, eliminating hose twisting on upper and lower hoses. It reduces costs related to hydraulics by up to 75%, including: - Hydraulic hose - Press fittings and swivels - Hydraulic oil - Manpower - Hydraulic downtime		
SR4S-JJ-510	1 X JIC 20, 1 X JIC 16, 2 X JIC 12				





10.1.4 CIRCULAR SWIROLLS

Bolt-On Swiroll	Length	Width	Height	Weight	Online Video
	8.85"	8.00"	7.24"	33 Lbs	N/A
	JIC Configurations				
	Part No.	Ports		Benefits	
	SR4-JJ-501	3 X J16, 1 X J12		The main difference between the spherical and circular Swiroll is that the central part only makes circular instead of spherical motions 	
	SR4-PP-501	3 X P16, 1 X P12			

Bolt-On Swiroll	Length	Width	Height	Weight	Online Video
	17.17"	8.75"	7.24"	33 Lbs	N/A
	JIC Configurations				
	Part No.	Ports	Benefits		
	SR4-JJ-503	2 X J16, 2 X J12	The main difference between the spherical and circular Swiroll is that the central part only makes circular instead of spherical motions 		
	SR4-JJ-505	3 X J12, 1 X J08			

* Other configurations available upon request

10.2 CUSTOM SWIWELL MANIFOLDS



MATERIALS OF CONSTRUCTION

Shank, Nut, Manifold

Plating

Seals

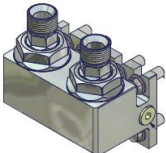
Standard

Carbon steel

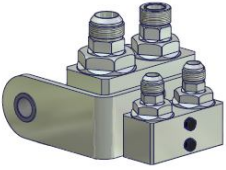
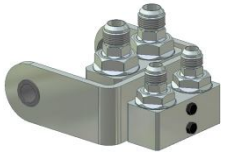
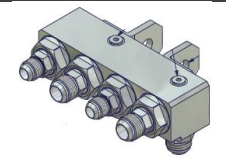
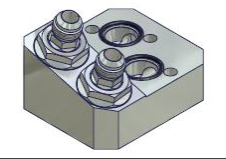
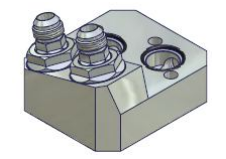
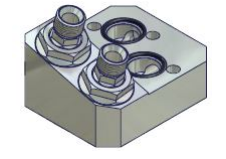
White (Blue) Zinc

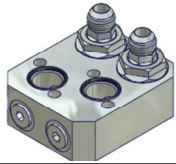
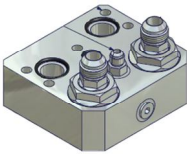
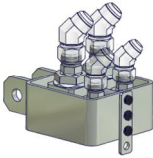
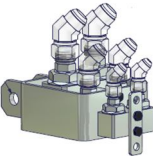
VITON®

10.2.1 LOGMAX HARVESTER HEADS

	Part no.	Reference	A	B	C	Ports	Weight
	SM2L-P08-501	Designed to fit Parker V12-60 feed roller motors	4.44"	2.91"	1.69"	2 X BSPP 08	5.5 Lbs
	SM2L-P12-501	Designed to fit Parker V12-60 feed roller motors	4.63"	4.86"	3"	2 X BSPP 12	7.3 Lbs

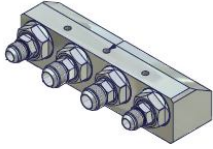
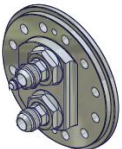
10.2.2 WARATAH HARVESTER HEADS

	Part no.	Reference	A	B	C	Ports	Weight
	SM2A-W6-514	Designed to fit Waratah 600 series main coupler (replace circular plate)	8 5/8"	7"	6 5/16"	1 X JIC 20 1 X ORFS 16 2 X JIC 12	25.1 Lbs
	SM2A-W6-501	Designed to fit Waratah 600 series main coupler (replace circular plate)	6 3/4"	5 7/16"	8 7/16"	2 X JIC 16 2 X JIC 12	20.7 Lbs
	SM2A-W6-504	Designed to fit Waratah 600 series main coupler (replace circular plate)	6 3/4"	5 1/2"	8 7/16"	1 X ORFS 16 1 X JIC 16 2 X JIC 12	23 Lbs
	SM4WH-J16-501	Designed to fit Waratah 400 series main coupler (replace junction hydraulic bloc)	9.50"	2.75"	2.75"	4 X JIC 16	20.5 Lbs
	SM2D-J12WL-501 See online video: http://tinyurl.com/7bok3fq	Designed to fit Sauer Danfoss 630-800 Series feed roller motors	5.60"	4.75"	2.75"	2 X JIC 12	10.4 Lbs
	SM2D-J12WR-501 See online video: http://tinyurl.com/7bok3fq	Designed to fit Sauer Danfoss 630-800 Series feed roller motors	5.60"	4.75"	2.75"	2 X JIC 12	10.4 Lbs
	SM2D-P12WL-501 See online video: http://tinyurl.com/7bok3fq	Designed to fit Sauer Danfoss 630-800 Series feed roller motors	5.60"	4.75"	2.75"	2 X BSPP 12	10.4 Lbs
	SM2D-P12WR-501 See online video: http://tinyurl.com/7bok3fq	Designed to fit Sauer Danfoss 630-800 Series feed roller motors	5.60"	4.75"	2.75"	2 X BSPP 12	10.4 Lbs

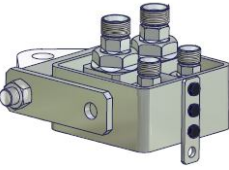
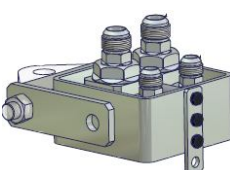
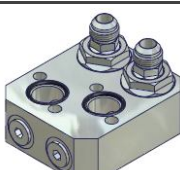
	Part no.	Reference	A	B	C	Ports	Weight
	SM2D-J12P-501 See online video: http://tinyurl.com/7bok3fq	Designed to fit Sauer Danfoss 630-800 Series feed roller motors	5.60"	4.75"	1.88"	2 X JIC 12	10.4 Lbs
	SM2D-P12P-501 See online video: http://tinyurl.com/7bok3fq	Designed to fit Sauer Danfoss 630-800 Series feed roller motors	5.60"	4.75"	1.88"	2 X BSPP 12	10.4 Lbs
	SM3D-J12W-501	Designed to fit Sauer Danfoss TMTW-500 feed roller motors	5.69"	5.31"	1.88"	2 X JIC 12 1 X JIC 06 (static)	13.5 Lbs
	SM3D-P12W-501	Designed to fit Sauer Danfoss TMTW-500 feed roller motors	5.69"	5.31"	1.88"	2 X BSPP 12 1 X BSPP 06 (static)	13.5 Lbs
	SM2A-W6-506 See online video http://tinyurl.com/6vbgzi5	Designed to fit Waratah 260 series main coupler	6 3/4"	5 7/16"	8 7/16"	2 X JIC 16 2 X JIC 12	20.7 Lbs
	SM2A-W270-501	Designed to fit Waratah 270 series main coupler	6"	5 3/8"	10 5/8"	2 X JIC 16 2 X JIC 12 2 X JIC 08	22.5 Lbs

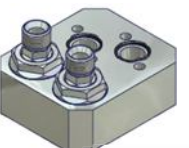


10.2.3 VALMET-KOMATSU HARVESTER HEADS

	Part no.	Reference	A	B	C	Ports	Weight
	SM4VH-J16-501 See online video: http://tinyurl.com/6vb5kqh	Designed to fit Valmet-Komatsu 360-370 series main coupler	11.75"	3.00"	3.00"	2 X JIC 16 2 X JIC 12	26.8 Lbs
	SM3S-1206V-501	Designed to fit Sampo BBC 01 feed roller motors	7.25"	7.25"	1.15"	2 X JIC 12 1 X JIC 06	6.7 Lbs
	SM4S-1206V-502	Designed to fit Sampo BBC 02 feed roller motors	8.26"	8.26"	1.15"	2 X JIC 12 2 X JIC 06	10 Lbs

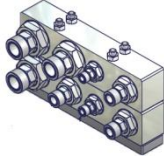
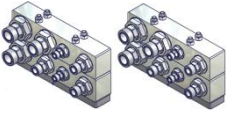
10.2.4 MANIFOLDS FOR PONSSE HARVESTER HEADS

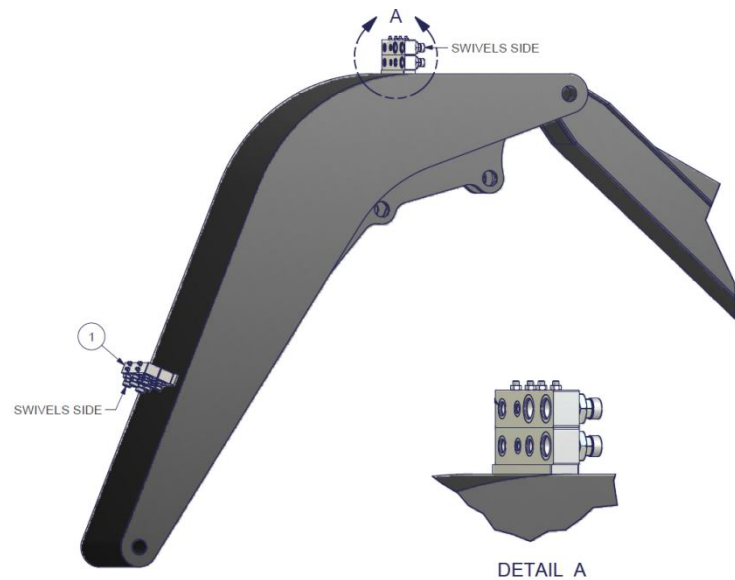
	Part no.	Reference	A	B	C	Ports	Weight
	SM2A-PH-501 See online video: http://tinyurl.com/6vx6kpz	Designed to fit Ponsse H5-H6-H7 and H8 series main coupler	6 3/4"	5 3/8"	8 7/16"	2 X BSPP16 2 X BSPP 12	22.3 Lbs
	SM2A-PH-502 See online video: http://tinyurl.com/6vx6kpz	Designed to fit Ponsse H5-H6-H7 and H8 series main coupler	6 3/4"	5 3/8"	8 7/16"	2 X JIC 16 2 X JIC 12	22.3 Lbs
	SM2D-J12P-501 See online video: http://tinyurl.com/7bok3fq	Designed to fit Sauer Danfoss 630-800 Series feed roller motors	5.60"	4.75"	1.88"	2 X JIC 12	10.4 Lbs

	Part no.	Reference	A	B	C	Ports	Weight
	SM2D-P12P-501 See online video: http://tinyurl.com/7bok3fg	Designed to fit Sauer Danfoss 630-800 Series feed roller motors	5.60"	4.75"	1.88"	2 X BSPP 12	10.4
	SM2D-J12P-504	Sauer Danfoss OMT-400 series	5.60"	4.75"	1.88"	2 X JIC 12	12 Lbs
	SM2D-P12P-504	Sauer Danfoss OMT-400 series	5.60"	4.75"	1.88"	2 X BSPP 12	12 Lbs

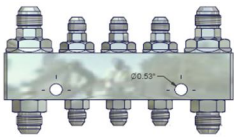
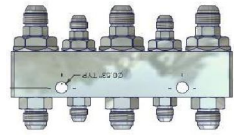
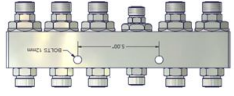


10.2.5 CATERPILLAR TRACK HARVESTERS BOOM

	Part no.	Reference	A	B	C	Ports	Weight
	SM4C-S201208-502	501HD Main Boom & 501HD Stick Boom	12.5"	2.20"	7.5"	3 X ORFS 20 3 X ORFS 12 3 X ORFS 08	52 Lbs
	SM5F-J1208-504	Full Kit For CAT 501HD Boom	12.5"	2.20"	7.5"	2 X 3 X ORFS 20 3 X ORFS 12 3 X ORFS 08	104 Lbs



10.2.6 MANIFOLDS FOR FORWARDERS

	Part no.	Reference	A	B	C	Ports	Weight
	SM5F-J1208-501	Main coupler	9.63"	2.00"	2.00"	2 X JIC 12 3 X JIC 08	12.3 Lbs
	SM5F-J1208-502	Main coupler	9.63"	2.00"	2.00"	3 X JIC 12 2 X JIC 08	12.7 Lbs
	SM6C-S1210- 501	Main coupler	13.75"	2.25"	3.38"	5 X ORFS 12 1 X ORFS 10	23 Lbs



10.2.7 MANIFOLDS FOR HARVESTER CRANES “45° Back Nose”

	Part no.	Reference	A	B	C	Ports	Weight
	SM4C-J1216-501	Main coupler	5.00"	5.00"	4.44"	2 X JIC 12 2 X JIC 16	23.1 Lbs
	SM4C-P1216-501	Main coupler	5.00"	5.00"	4.44"	2 X BSPP 12 2 X BSPP 16	23.1 Lbs

11. MINING JUMBOS CUSTOM PRODUCTS

Custom manifolds for underground mining equipment house Mining Swiwell Cartridges made especially for the highly abrasive environment. They are designed to fit mining jumbos.

11.1.1 MANIFOLDS FOR MINING JUMBOS

	Part no.	Reference	A	B	C	Ports	Weight
	SM8T-J501S	Tensioner for Atlas Copco jumbo	18.42"	11.89"	15.98"	2 X JIC 08 6 X JIC 12 4 X JIC 08 (non tensioning)	141 Lbs
	SM8T-J502C	Pulley with individual grooves for each hose for Atlas Copco jumbo	8 ½"	8 ½"	11 ½"	N/A	29 Lbs
	SM6T-J501S See online video: http://tinyurl.com/7cxdh4l	Tensioner for Sandvik jumbo	16"	8 7/8"	15 3/8"	1 X JIC 08 2 X JIC 10 3 X JIC 12	96 Lbs



12. STRAP-WRAP

The use of plastic spiral wrap for protecting hydraulic hoses from abrasion and external damage is very common on mobile equipment. Plastic spiral wrap is often submitted to extreme conditions. Plastic can extend, loosen and slide down the group of hoses. Challenging conditions such as extreme cold can lead plastic spiral wrap to break.

Recognizing the strengths and weaknesses of spiral wrap, Taimi Hydraulics developed and patented the Strap-Wrap™; an innovative way to group and support groups of hoses. Made out of flexible webbing, Strap-Wrap™ allows for the following benefits:

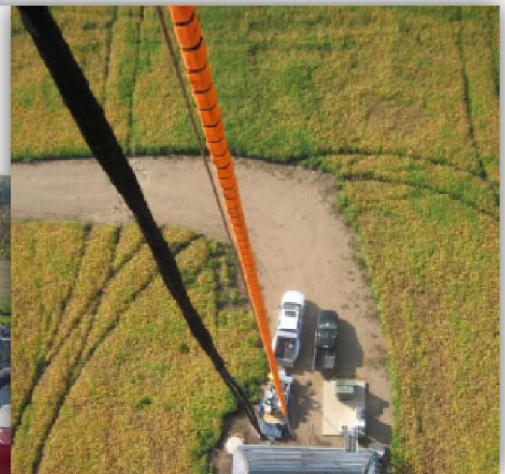
1. Groups and protects hoses against stretching and tearing
2. Can be solidly attached at both ends and will not shift during operation
3. The Double Strap allows for attachment of hose group at several points along the line, facilitating best possible routing
4. Resistant material, with little to no sensitivity to temperature variations
5. Excellent visibility in underground mines and at night
6. Can group as many hoses as are needed
7. Flexible and easy to install

Strap-Wrap™ works well on longer hose groups, taking the load off of the press fittings.

Applications: Wind Mills, Construction, Forestry and Mining



Group and protect hoses on pile driver against stretching and tearing.



Group and protect hoses against stretching and tearing when servicing wind turbine. Fittings don't need to support the weight of hoses and will not pull out.

Taimi's Strap-Wrap™ product consists of the Single and the Double strap. The Double Strap is used as the main support strap, while the Single Strap is woven into the Double Strap and rolls around the hose group.



← Double Strap

← Single Strap



MATERIAL

Polyester/ kevlar

HOW TO ORDER

SW2 – 25 – 001

			Length (feet)
			Width (1/10 inch) – Available in 2,5 inch width
Strap-Wrap – Identifier (SW1: Single Strap, SW2: Double Strap)			



Taimi's Strap-Wrap™ will effectively keep plastic wrap from sliding down the hose group. Simply weave your spiral wrap into a short length of Taimi's Strap-Wrap™ and attach it to your machine.

13. SEAL KIT REPLACEMENT

1- Read the safety precautions (p. 1) before going any further!

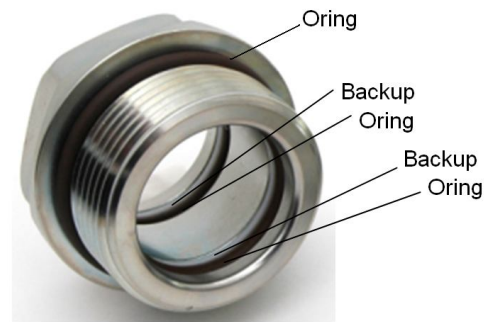
2- Relieve pressure before dismantling hydraulic lines

3- Clean work space Parts, tools, hands, clothing

4- Remove nut Pneumatic gun and vice recommended

5- Remove seal kit Remove debris & clean grooves

6- Install new seal kit See picture



7- Assemble cartridge



8- Tightening

Respect recommended torque

Over-tightening may result in swivel failure

Under-tightening may result in oring extrusion and leaks



SWIWELL & 90° MS SERIES TORQUE		
Sizes	SWIWELL Ft-lbs (Nm)	SWIWELL 90° MS Series Ft-lbs (Nm)
06	125 (170)	215 (290)
08	215 (290)	300 (405)
10	300 (405)	340 (460)
12	390 (530)	390 (525)
16	490 (665)	490 (665)
20	800 (1085)	
24	900 (1220)	
32	1000 (1355)	
- Dry torque - Lubricate external o-ring		

Swivel failure during operation can cause fluid to escape. Escaping fluid under pressure can penetrate skin causing serious injury or death. Always wear safety equipment before approaching hydraulic equipment under pressure.

14. DISTRIBUTION

Taimi Hydraulics is proud to work with first-class distributors which cover 5 continents and 24 countries. To locate the one nearest to you, please contact us.

