

Instrument Thread & Weld Fittings

The best partner for value creation
We support the innovations of customers



07

Features

- All instrument thread fittings are designed in accordance with ASME B31.3 for instrument and process.
- Male thread are protected with cap.
- Burr-free internal and outside surfaces.
- NPT threads are based on requirement of ASME B1.20.1

Material Standards & Temperature Ratings

Material	Bar Stock	Forgings	Temperature
SS316	ASTM A479, ASTM A276	ASTM A182	-325°F to 1200°F (-198°C to 648°C)
Brass	ASTM B16, ASTM B453	ASTM B283	-325°F to 400°F (-198°C to 204°C)
Carbon steel	ASTM A108, JIS G4051	JIS G4051	-20°F to 350°F (-29°C to 176°C)

Pressure Ratings

Size Designator	NPT Size	316 Stainless Steel				Brass				Carbon steel			
		Male		Female		Male		Female		Male		Female	
		psig	bar	psig	bar	psig	bar	psig	bar	psig	bar	psig	bar
1	1/16	11,000	758	6,700	462	5,500	379	3,300	227	11,000	758	6,700	462
2	1/8	10,000	689	6,500	448	5,000	345	3,200	221	10,000	689	6,500	448
4	1/4	8,000	551	6,600	455	4,000	276	3,300	227	8,000	551	6,600	455
6	3/8	7,800	538	5,300	365	3,900	269	2,600	179	7,800	538	5,300	365
8	1/2	7,700	531	4,900	338	3,800	262	2,400	165	7,700	531	4,900	338
12	3/4	7,300	503	4,600	317	3,600	248	2,300	159	7,300	503	4,600	317
16	1	5,300	365	4,400	303	2,600	179	2,200	152	5,300	365	4,400	303
20	1-1/4	6,000	414	5,000	345	3,000	207	2,500	172	6,000	414	5,000	345
24	1-1/2	5,000	345	4,600	317	2,500	172	2,300	159	5,000	344	4,600	317
32	2	3,900	269	3,900	269	1,900	131	1,900	131	3,900	269	3,900	269

- Pressure ratings listed are for temperature up to 37.8C (100 °F).
- Based on Pressure Pipe Code ASME B31.3 pressure rating is calculated with an allowable stress value of 20,000psi, SS316, 10,000psi, brass 20,000psi, carbon Steel.
- To determine the working pressure in accordance with Power Pipe Code ASME B31.1, multiply psig by 0.94.
Brass pressure ratings remain the same.
- Due to larger outer diameter of female threads rating of female are lower than male threads.
- To determine kPa rating, multiply psig by 6.89.
- Reducing Hex Bushing (P-SHB) pressure rating is not covered in this table. See the pressure rating in the dimensional data chart.

Ordering Information

Material	S.Steel 316	S.Steel 316L	Carbon Steel	Brass
Identifier	S6	S6L	CS	BS

• Example : P - SHN - 8N - S6

Pipe fitting Name of fitting Pipe thread Size Material

Pipe Thread Symbol & Designator

Pipe Size	Designator	NPT	ISO Thread	
			Tapered (7/1)	Parallel (228/1)
1/8	2	2N	2R	2G
1/4	4	4N	4R	4G
3/8	6	6N	6R	6G
1/2	8	8N	8R	8G
3/4	12	12N	12R	12G
1	16	16N	16R	16G

Close Nipple
(Male NPT both ends)

P-SCN



218

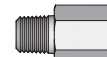
Hex Coupling
(Female NPT both ends)

P-SHC



221

Snubber Fittings
P-MFAA



225

Hex Nipple
(Male NPT both ends)

P-SHN



218

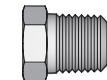
Hex Reducing Coupling
(Female NPT to reduced female NPT)

P-SHRC



221

Vent Protector
P-SVP



226

Hex Reducing Nipple
(Male NPT to reduced male NPT)

P-SHRN



218

Elbow
(Female NPT both ends)

P-SL



222

Union
(Socket weld Ends)

P-SWFC



227

Hex Nipple
(Male NPT to ISO tapered)

P-SHN



218

Street Elbow
(Female to male NPT)

P-SSL



222

Union Elbow
(Socket weld Ends)

P-SWLA



227

Hex Nipple
(Male NPT to male ISO parallel)

P-SHN



219

Reducing Street Elbow
(Female to male NPT)

P-SRSL



222

Union Tee
(Socket weld Ends)

P-SWTA



228

Hex Long Nipple
(Male NPT both ends)

P-SHLN



219

Male Elbow
(Male NPT both ends)

P-SML



222

Male Connector
P-SSA



228

Adapter
(Male NPT to female NPT)

P-MFAA



219

Tee
(Female NPT)

P-ST



223

Female Connector
P-SSB



228

Reducing Adapter
(Male NPT to reduced female NPT)

P-MFRA



219

Run Tee
(Female to male to Female NPT)

P-SRT



223

Male Elbow
P-SMLSW



228

Adapter
(Male ISO tapered to female NPT)

P-MFAA



220

Branch Tee
(Female to male to male NPT)

P-SBT



223

Female Elbow
P-SFLSW



229

Adapter
(Male ISO parallel to female NPT)

P-MFAB



220

Male Tee
(Male NPT)

P-SMT



223

**Pipe Weld to
Tube Socket Weld**
P-SWRM



229

Reducing Hex Bushing
(Male NPT to reduced female NPT)

P-SHB



220

Union Ball Joint
(Female NPT both ends)

P-SUJ



224

**Tube Weld to
Tube Socket Weld**
P-SWRM



229

Pipe Cap
(Female NPT)

P-SC



221

ISO Parallel Gasket
SGC



224

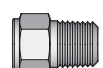
Pipe Plug
(Male NPT)

P-SP

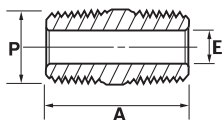


221

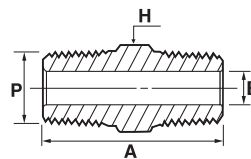
Fusible Plug
P-SFP



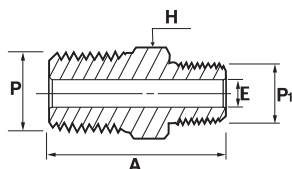
225

Close Nipple*(Male NPT both ends)***P-SCN**

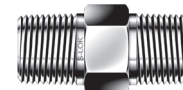
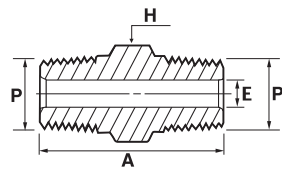
Part Number	P Pipe Size	A	E
P-SCN-2N	1/8	19.05	4.8
P-SCN-4N	1/4	28.4	7.1
P-SCN-6N	3/8	28.4	9.6
P-SCN-8N	1/2	31.7	11.9
P-SCN-12N	3/4	31.7	15.7
P-SCN-16N	1	47.8	22.4

Hex Nipple*(Male NPT both ends)***P-SHN**

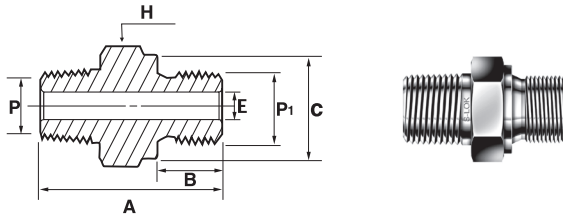
Part Number	P Pipe Size	A	E	H Hex
P-SHN-2N	1/8	25.4	4.8	11.1
P-SHN-4N	1/4	35.3	7.1	14.2
P-SHN-6N	3/8	36.1	9.6	17.4
P-SHN-8N	1/2	46.7	11.9	22.2
P-SHN-12N	3/4	46.7	15.7	26.9
P-SHN-16N	1	58.7	22.4	34.9

Hex Reducing Nipple*(Male NPT to reduced male NPT)***P-SHRN**

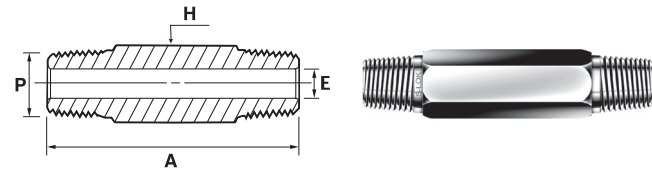
Part Number	P Pipe Size	P ₁ Reduced Pipe Size	A	E	H Hex
P-SHRN-4-2N	1/4	1/8	30.7	4.8	14.2
P-SHRN-6-2N	3/8	1/8	32.0	4.8	17.4
P-SHRN-6-4N	3/8	1/4	36.1	7.1	17.4
P-SHRN-8-2N	1/2	1/8	37.2	4.8	22.2
P-SHRN-8-4N	1/2	1/4	41.7	7.1	22.2
P-SHRN-8-6N	1/2	3/8	41.7	9.6	22.2
P-SHRN-12-4N	3/4	1/4	41.7	7.1	26.9
P-SHRN-12-8N	3/4	1/2	46.7	11.9	26.9
P-SHRN-16-4N	1	1/4	49.3	7.1	34.9
P-SHRN-16-8N	1	1/2	54.1	11.9	34.9

Hex Nipple*(Male NPT to ISO tapered)***P-SHN**

Part Number	P NPT Thread Size	P ₁ BSP/ISO Thread Size	A	E	H Hex
P-SHN-2NR	1/8	1/8-28 7/1	24.6	4.1	11.1
P-SHN-4NR	1/4	1/4-19 7/1	35.6	6.4	14.2
P-SHN-6NR	3/8	3/8-19 7/1	36.3	9.7	17.4
P-SHN-8NR	1/2	1/2-14 7/1	46	11.9	22.2
P-SHN-12NR	3/4	3/4-14 7/1	46.7	15.7	26.9
P-SHN-16NR	1	1-11 7/1	58.9	22.4	34.9

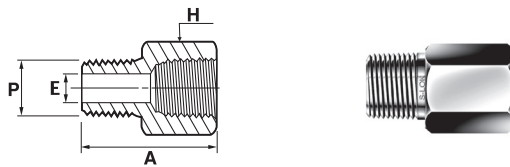
Hex Nipple*(Male NPT to male parallel)***P-SHN**

Part Number	P NPT Thread Size	P ₁ BSP/ISO Thread Size	A	B	C	E	H Hex
P-SHN-2NG	1/8	1/8-28 228/1	27.4	7.1	13.7	4.1	14.2
P-SHN-4NG	1/4	1/4-19 228/1	36.8	11.2	17.8	5.8	19.05
P-SHN-6NG	3/8	3/8-19 228/1	37.6	11.2	21.8	7.9	22.2
P-SHN-8NG	1/2	1/2-14 228/1	45.0	14.2	26.1	11.9	26.9
P-SHN-12NG	3/4	3/4-14 228/1	49.0	15.7	31.5	15.7	33.3
P-SHN-16NG	1	1-11 228/1	56.9	18.3	38.9	19.8	41

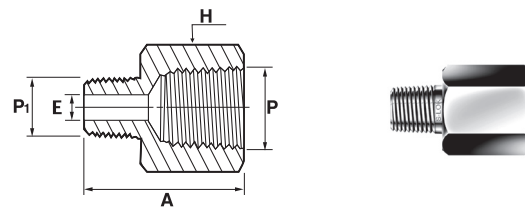
Hex Long Nipple*(Male NPT both ends)***P-SHLN**

Part Number	P Pipe Size	A	E	H Hex
P-SHLN-2N	1/8	★	4.8	11.1
P-SHLN-4N	1/4	★	7.1	14.2
P-SHLN-6N	3/8	★	9.7	17.4
P-SHLN-8N	1/2	★	11.9	22.2
P-SHLN-12N	3/4	★	15.7	26.9
P-SHLN-16N	1	★	22.4	34.9

★: Configure to order

Adapter*(Male NPT to female NPT)***P-MFAA**

Part Number	P Pipe Size	A	E	H Hex
P-MFAA-2N	1/8	27.4	4.8	14.2
P-MFAA-4N	1/4	35.6	7.1	19.05
P-MFAA-6N	3/8	37.8	9.6	22.2
P-MFAA-8N	1/2	49.0	11.9	26.9
P-MFAA-12N	3/4	50.3	15.7	31.7
P-MFAA-16N	1	58.0	22.4	41.2

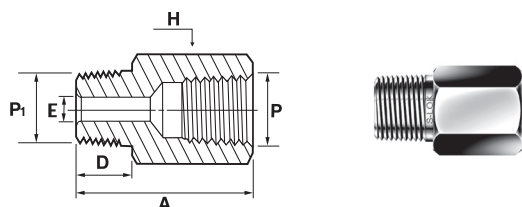
Reducing Adapter*(Male NPT to reduced female NPT)***P-MFRA**

Part Number	P ₁ Male Pipe Size	P Female Pipe Size	A	E	H Hex
P-MFRA-2-4N	1/8	1/4	31.5	4.8	19.05
P-MFRA-2-6N	1/8	3/8	33.5	4.8	22.2
P-MFRA-4-6N	1/4	3/8	37.8	7.1	22.2
P-MFRA-2-8N	1/8	1/2	40.0	4.8	26.9
P-MFRA-4-8N	1/4	1/2	44.5	7.1	26.9
P-MFRA-6-8N	3/8	1/2	44.5	9.6	26.9
P-MFRA-4-12N	1/4	3/4	45.7	7.1	31.8
P-MFRA-6-12N	3/8	3/4	45.7	9.6	31.8
P-MFRA-8-12N	1/2	3/4	51.1	11.9	31.8
P-MFRA-4-16N	1/4	1	50.8	7.1	41.2
P-MFRA-8-16N	1/2	1	54.9	11.9	41.2
P-MFRA-12-16N	3/4	1	55.1	15.7	41.2

Adapter

(Male ISO tapered to female NPT)

P-MFAA

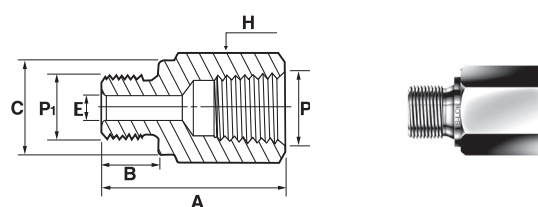


Part Number	P ₁ BSP/ISO Thread Size	P NPT Thread Size	A	D	E	H Hex
P-MFAA-2RN	1/8-28 7/1	1/8	27.4	9.7	4.8	14.2
P-MFAA-4RN	1/4-19 7/1	1/4	35.8	14.2	7.1	19.05
P-MFAA-6RN	3/8-19 7/1	3/8	37.6	14.2	9.7	22.2
P-MFAA-8RN	1/2-14 7/1	1/2	49.0	19.1	11.9	26.9
P-MFAA-12RN	3/4-14 7/1	3/4	50.3	19.1	15.7	31.8
P-MFAA-16RN	1-11 7/1	1	58.0	23.9	22.4	41.2

Adapter

(Male ISO paralalled to female NPT)

P-MFAB

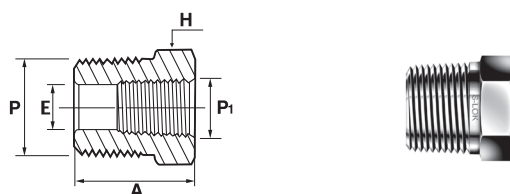


Part Number	P ₁ BSP/ISO Thread Size	P NPT Thread Size	A	B	C	E	H Hex
P-MFAB-2GN	1/8-28 228/1	1/8	24.9	7.1	13.7	4.1	14.2
P-MFAB-4GN	1/4-19 228/1	1/4	33.3	11.2	17.8	5.8	19.05
P-MFAB-6GN	3/8-19 228/1	3/8	37.8	11.2	21.8	7.9	22.2
P-MFAB-8GN	1/2-14 228/1	1/2	43.9	14.2	26.1	11.9	26.9
P-MFAB-12GN	3/4-14 228/1	3/4	50.8	15.7	31.5	15.7	33.3
P-MFAB-16GN	1-11 228/1	1	53.1	18.3	38.9	19.8	41.2

Reducing Hex Bushing

(Male NPT to reduced female NPT)

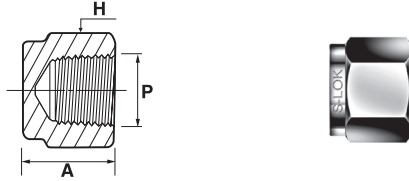
P-SHB



Part Number	P Male Pipe Size	P ₁ Female Pipe Size	A	E	H Hex	Working Pressure (psig)	
						316SS, CS	Brass
P-SHB-4-2N	1/4	1/8	26.7	7.1	14.2	6500	3300
P-SHB-6-2N	3/8	1/8	21.8	8.5	17.4	9200	4700
P-SHB-6-4N	3/8	1/4	30.0	9.6	19.05	6600	3300
P-SHB-8-2N	1/2	1/8	27.4	8.5	22.2	12200	6200
P-SHB-8-4N	1/2	1/4	27.4	11.7	22.2	8300	4400
P-SHB-8-6N	1/2	3/8	35.6	11.9	22.2	5300	2600
P-SHB-12-4N	3/4	1/4	27.4	11.4	26.9	12000	6000
P-SHB-12-6N	3/4	3/8	27.4	15.0	26.9	8200	4300
P-SHB-12-8N	3/4	1/2	41.4	15.7	26.9	4900	2400
P-SHB-16-4N	1	1/4	34.8	11.4	34.9	14500	7400
P-SHB-16-8N	1	1/2	34.8	18.5	34.9	8600	4300
P-SHB-16-12N	1	3/4	34.8	22.4	34.9	5300	2600

Pipe Cap
(Female NPT)

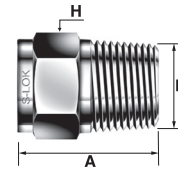
P-SC



Part Number	P Pipe Size	A	H Hex
P-SC-2N	1/8	19.1	14.2
P-SC-4N	1/4	22.9	19.05
P-SC-6N	3/8	26.2	22.2
P-SC-8N	1/2	34.0	26.9
P-SC-12N	3/4	36.6	31.8
P-SC-16N	1	41.1	41.2

Pipe Plug
(Male NPT)

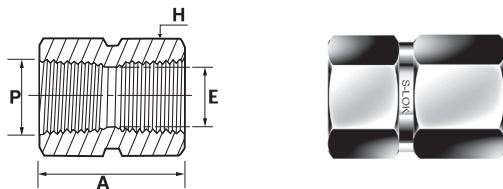
P-SP



Part Number	P Pipe Size	A	H Hex
P-SP-2N	1/8	19.05	11.1
P-SP-4N	1/4	24.1	14.2
P-SP-6N	3/8	25	17.4
P-SP-8N	1/2	30.5	22.2
P-SP-12N	3/4	30.5	26.9
P-SP-16N	1	38.1	34.9

Hex Coupling
(Female NPT both ends)

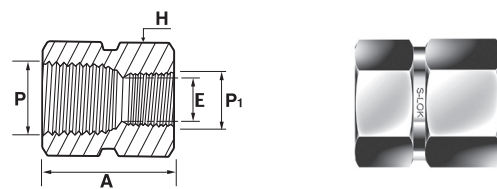
P-SHC



Part Number	P Pipe Size	A	E	H Wrench Flat
P-SHC-2N	1/8	20.3	8.9	14.2
P-SHC-4N	1/4	30.0	11.7	19.05
P-SHC-6N	3/8	33.0	15.0	22.2
P-SHC-8N	1/2	39.4	18.7	26.9
P-SHC-12N	3/4	41.0	23.5	31.8
P-SHC-16N	1	50.5	29.7	41.2

Hex Reducing Coupling
(Female NPT to reduced female NPT)

P-SHRC

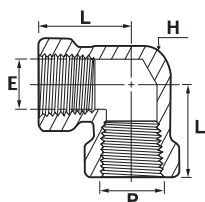


Part Number	P Pipe Size	P ₁ Reduced Pipe Size	A	E	H Hex
P-SHRC-4-2N	1/4	1/8	31.2	8.9	19.05
P-SHRC-6-4N	3/8	1/4	34.8	11.7	22.2
P-SHRC-8-2N	1/2	1/8	39.4	8.7	26.9
P-SHRC-8-4N	1/2	1/4	44.2	11.7	26.9
P-SHRC-8-6N	1/2	3/8	45.0	15.0	26.9
P-SHRC-12-4N	3/4	1/4	45.7	11.7	31.8
P-SHRC-12-8N	3/4	1/2	52.0	18.7	31.8
P-SHRC-16-4N	1	1/4	50.8	11.7	41.2
P-SHRC-16-8N	1	1/2	55.4	18.7	41.2
P-SHRC-16-12N	1	3/4	57.0	23.5	41.2

Elbow

(Female NPT both ends)

P-SL

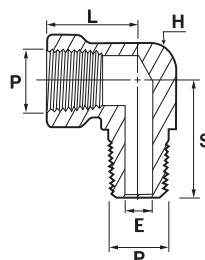


Part Number	P Pipe Size	L	E	H Wrench Flat
P-SL-2N	1/8	24.1	8.9	12.7
P-SL-4N	1/4	29.0	11.7	17.5
P-SL-6N	3/8	34.5	15.0	20.6
P-SL-8N	1/2	37.0	18.7	25.4
P-SL-12N	3/4	46.5	23.5	31.8
P-SL-16N	1	48.8	29.7	42.9

Street Elbow

(Female to male NPT)

P-SSL

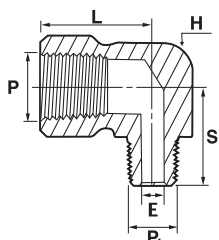


Part Number	P Pipe Size	L	S	E	H Wrench Flat
P-SSL-2N	1/8	24.1	19.6	4.8	12.7
P-SSL-4N	1/4	29.0	26.5	7.1	17.5
P-SSL-6N	3/8	34.5	28.2	9.6	20.6
P-SSL-8N	1/2	37.0	35.3	11.9	25.4
P-SSL-12N	3/4	46.5	39.6	15.7	31.8
P-SSL-16N	1	48.8	49.2	22.3	42.9

Reducing Street Elbow

(Female to male NPT)

P-SRSL

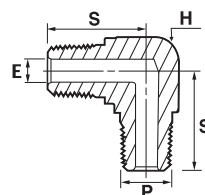


Part Number	P Pipe Size	P ₁ Male Pipe Size	L	S	E	H Wrench Flat
P-SRSL-4-2N	1/4	1/8	29.0	22.4	4.8	17.5
P-SRSL-6-4N	3/8	1/4	34.5	28.2	7.1	20.6
P-SRSL-8-4N	1/2	1/4	37.0	30.5	7.1	25.4
P-SRSL-8-6N	1/2	3/8	37.0	30.5	9.6	25.4
P-SRSL-12-8N	3/4	1/2	46.5	39.6	11.9	31.8
P-SRSL-16-8N	1	1/2	48.8	44.5	11.9	42.9

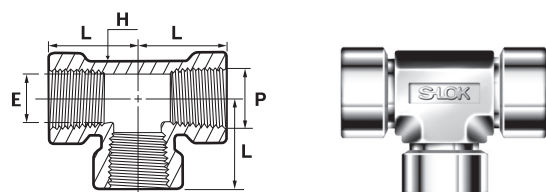
Male Elbow

(Male NPT both ends)

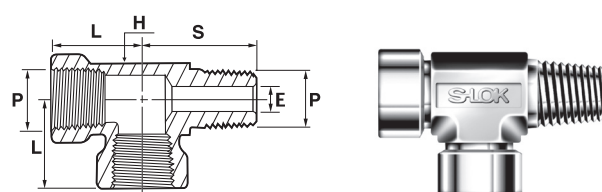
P-SML



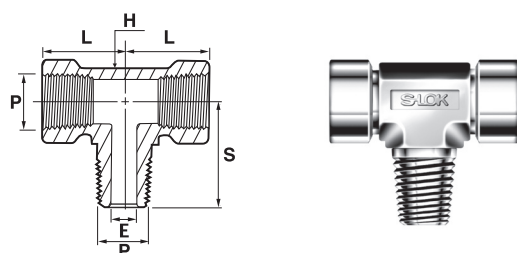
Part Number	P Pipe Size	L	E	H Wrench Flat
P-SML-2N	1/8	19.05	4.8	12.7
P-SML-4N	1/4	24.5	7.1	12.7
P-SML-6N	3/8	26.9	9.6	17.5
P-SML-8N	1/2	33.2	11.9	20.6
P-SML-12N	3/4	35.3	15.7	25.4
P-SML-16N	1	44.5	22.4	31.8

Tee*(Female NPT)***P-ST**

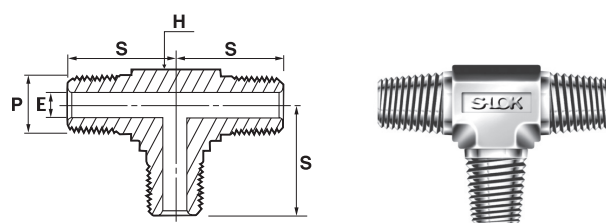
Part Number	P Pipe Size	L	E	H Wrench Flat
P-ST-2N	1/8	24.1	8.9	12.7
P-ST-4N	1/4	29.0	11.7	17.5
P-ST-6N	3/8	34.5	15.0	20.6
P-ST-8N	1/2	37.0	18.7	25.4
P-ST-12N	3/4	46.5	23.5	31.8
P-ST-16N	1	48.8	29.7	42.8

Run Tee*(Female to male to Female NPT)***P-SRT**

Part Number	P Pipe Size	L	S	E	H Wrench Flat
P-SRT-2N	1/8	24.1	19.6	4.8	12.7
P-SRT-4N	1/4	29.0	26.5	7.1	17.5
P-SRT-6N	3/8	34.5	28.2	9.6	20.6
P-SRT-8N	1/2	37.0	35.3	11.9	25.4
P-SRT-12N	3/4	46.5	39.6	15.7	31.8
P-SRT-16N	1	48.8	49.2	22.4	42.9

Branch Tee*(Female to male to male NPT)***P-SBT**

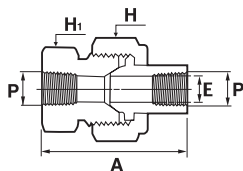
Part Number	P Pipe Size	L	S	E	H Wrench Flat
P-SBT-2N	1/8	24.1	19.6	4.8	12.7
P-SBT-4N	1/4	29.0	26.5	7.1	17.5
P-SBT-6N	3/8	34.5	28.2	9.6	20.6
P-SBT-8N	1/2	37.0	35.3	11.9	25.4
P-SBT-12N	3/4	46.5	39.6	15.7	31.8
P-SBT-16N	1	48.8	49.2	22.4	42.9

Male Tee*(Male NPT)***P-SMT**

Part Number	P Pipe Size	S	E	H Wrench Flat
P-SMT-2N	1/8	19.05	4.8	12.7
P-SMT-4N	1/4	24.5	7.1	12.7
P-SMT-6N	3/8	26.9	9.6	17.5
P-SMT-8N	1/2	33.2	11.9	20.6
P-SMT-12N	3/4	35.3	15.7	25.4
P-SMT-16N	1	44.5	22.4	31.8

Union Ball Joint
(Female NPT both ends)

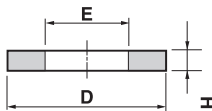
P-SUJ



Part Number	P Pipe Size	A	E	H Hex	H ₁ Hex
P-SUJ-F-2N	1/8	45.7	6.9	28.6	23.8
P-SUJ-F-4N	1/4	59.4	9.1	34.9	30.2
P-SUJ-F-6N	3/8	63.5	13.2	38.1	33.3
P-SUJ-F-8N	1/2	68.6	15.7	44.5	41.3
P-SUJ-F-12N	3/4	79.2	22.4	50.8	47.6
P-SUJ-F-16N	1	90.4	26.2	63.5	60.3

ISO Parallel Gasket

SGC



Part Number	P Pipe Size	E	H	D
SGC-2	1/8	9.9	1.0	15.0
SGC-4	1/4	13.2	1.5	19.1
SGC-6	3/8	16.8	1.5	23.1
SGC-8	1/2	21.1	1.5	26.9
SGC-12	3/4	26.7	2.0	33.0
SGC-16	1	33.3	2.0	40.1

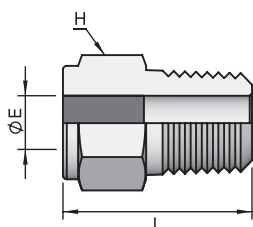


Fusible Plug

Features

- Fusible plugs consist of 316 stainless steel body and eutectic alloy with a specific melting point.
- When fusible plug is exposed to a temperature above its melting point, the eutectic alloy melts and the pressure inside the fitting is released to atmosphere.
- Fusible plugs are used where heat can cause a fire or an explosive chemical reaction.
- Fusible plugs are mainly installed onto compression cylinders, oil, liquified gas and steam boilers.

Ordering Information and Dimension



Basic Ordering Number	NPT Thread Size	Dimensions, mm (inch)		
		L	E	H
P-SFP-4N	1/4"	24.1 (0.95)	6.4 (0.25)	14.2 (9/16)
P-SFP-6N	3/8"	25.0 (0.98)	6.4 (0.25)	17.4 (11/16)
P-SFP-8N	1/2"	30.5 (1.20)	8.7 (0.34)	22.2 (7/8)

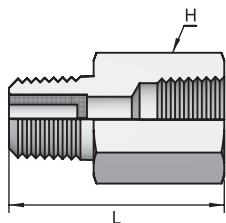
P-SFP	4N	160	S6
Fitting Model	End Connection • 4N : 1/4" NPT • 6N : 3/8" NPT • 8N : 1/2" NPT	Melting Point • 160 : 160°F (71°C) • 201 : 201°F (94°C) • 255 : 255°F (124°C) • 281 : 281°F (138°C)	Body Material • S6 : SS 316

Snubber Fitting

Features

- Snubber fittings protect gauges and instruments from system pressure surge and shock.
- Snubber fitting consists of 316 stainless steel or brass body and sintered 316 stainless steel element.
- Pressure damping is accomplished through sintered 316 stainless steel element.

Ordering Information and Dimension

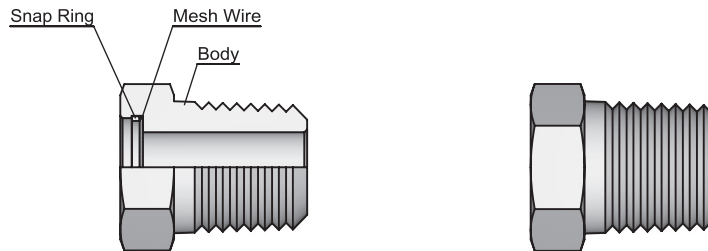


Basic Ordering Number	NPT Thread Size	Dimensions, mm (inch)		Working Pressure @ 20°C (70°F) bar (psig)	
		L	H	SS 316	Brass
P-MFAA-4N	1/4"	35.6 (1.40)	19.05 (3/4)	303 (4400)	151 (2200)
P-MFAA-8N	3/8"	49.0 (1.93)	26.98 (1-1/16)	337 (4900)	165 (2400)

P-MFAA	8N	90	S6
Fitting Model	End Connection • 4N : 1/4" NPT • 8N : 1/2" NPT	Pore Size • 05 : 0.5 ~ 2μm • 2 : 1 ~ 4μm • 7 : 5 ~ 10μm • 15 : 11 ~ 25μm • 60 : 50 ~ 75μm • 90 : 75 ~ 110μm	Body Material • S6 : SS 316 • BS : Brass

Vent Protector

Design Standard

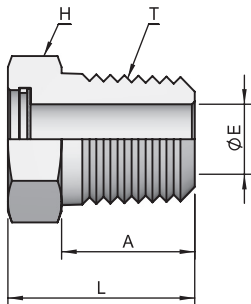


- S-LOK vent protectors, more commonly known as mud dauber fittings, protect open ends of instrument, tubing, outlet vent, and bleed-off lines.
- The mesh wire screen prevents foreign object, such as mud insects, from entering and clogging various systems and causing damage.
- Vent protectors are available in stainless steel and brass.
- Dimensions are for reference only and are subject to change without prior notice.

Material Standards

- Body construction materials : 316 Stainless steel
- Vent Protect (Mesh Size 40) : 316 Stainless steel
- Snap Ring : Stainless steel

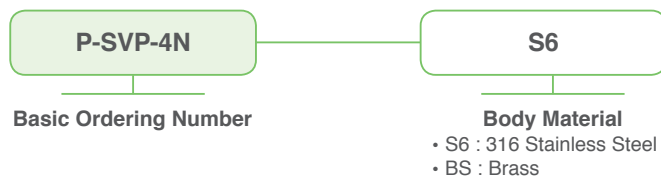
Dimensions



Basic Ordering Number	E	T (NPT)	A	L	H
P-SVP-4N	7.1	1/4	14	19.8	14.28
P-SVP-6N	10.4	3/8	15	20.6	17.46
P-SVP-8N	10.4	1/2	19	26.2	22.22

Ordering Information

- Selection the applicable options from designators listed.

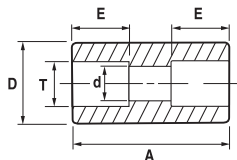


Instrument Weld Fittings

Features

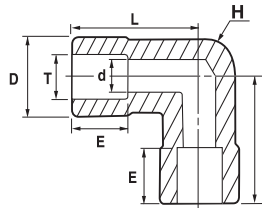
- S-LOK instrument weld fittings are designed in accordance with ASME B16.11 welding connections.
- All socket weld ports have a tapered shape at the end that hold tubing properly and consistent alignment.
- Pressure ratings for weld fittings are in accordance with ASME B31.3 and safety factor 4:1

Union P-SWFC



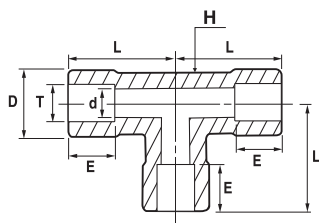
Part Number	T Tube O.D	d	D	E	A	Working Psig	Pressure bar
P-SWFC-4T	1/4	4.6	13.0	7.1	19.0	10,000	689
P-SWFC-6T	3/8	7.1	15.8	7.9	22.4	7,600	523
P-SWFC-8T	1/2	10.2	19.0	9.7	26.9	6,200	427
P-SWFC-10T	5/8	12.7	24.0	10.4	30.2	6,400	440
P-SWFC-12T	3/4	15.7	26.9	11.2	33.3	5,500	378
P-SWFC-16T	1	22.1	35.0	15.7	36.6	5,200	358

Union Elbow P-SWLA



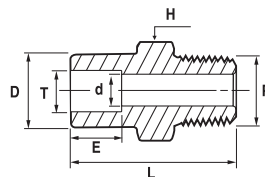
Part Number	T Tube O.D	d	D	E	H Wrench Flat	L	Working Psig	Pressure bar
P-SWLA-4T	1/4	4.6	13.4	7.1	12.7	21.8	11,300	778
P-SWLA-6T	3/8	7.1	15.8	7.9	12.7	24.5	8,400	578
P-SWLA-8T	1/2	10.2	20.6	9.7	17.5	29.0	7,800	537
P-SWLA-10T	5/8	12.7	23.8	10.4	20.6	34.5	6,700	461
P-SWLA-12T	3/4	15.7	28.6	11.2	25.4	37.0	6,700	461
P-SWLA-16T	1	22.1	35.0	15.7	31.8	46.5	6,100	420

Union Tee P-SWTA



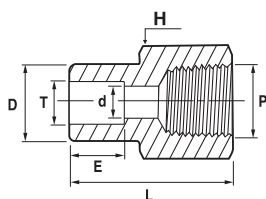
Part Number	T Tube O.D.	d	D	E	H Wrench Flat	L	Working Psig	Pressure bar
P-SWTA-2T	1/8	2.3	13.4	2.5	12.7	15.0	11,800	813
P-SWTA-4T	1/4	4.6	13.4	7.1	12.7	21.8	11,300	778
P-SWTA-6T	3/8	7.1	15.8	7.9	12.7	24.5	8,400	578
P-SWTA-8T	1/2	10.2	20.6	9.7	17.4	29.0	7,800	537
P-SWTA-10T	5/8	12.7	23.8	10.4	20.6	34.5	6,700	461
P-SWTA-12T	3/4	15.7	28.6	11.2	25.4	37.0	6,700	461
P-SWTA-16T	1	22.1	36.12	15.7	36.12	46.5	6,100	420

Male Connector P-SSA



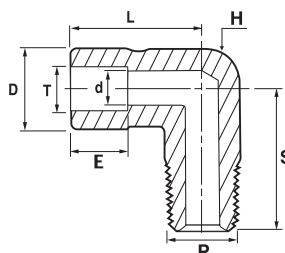
Part Number	T Tube O.D.	P- NPT	d	D	E	H Hex	L	Working Psig	Pressure bar
P-SSA-4T-4N	1/4	1/4	4.6	12.2	7.1	14.2	29.2	7,500	516
P-SSA-6T-4N	3/8	1/4	7.1	15.3	7.9	15.8	31.8	7,500	516
P-SSA-6T-6N	3/8	3/8	7.1	15.3	7.9	17.4	31.8	7,300	502
P-SSA-6T-8N	3/8	1/2	7.1	15.3	7.9	22.2	37.3	7,200	496
P-SSA-8T-4N	1/2	1/4	7.1	18.5	9.7	19.05	33.3	6,200	427
P-SSA-8T-6N	1/2	3/8	9.4	18.5	9.7	19.05	33.3	6,200	427
P-SSA-8T-8N	1/2	1/2	10.2	18.5	9.7	22.2	38.9	6,200	427

Female Connector P-SSB



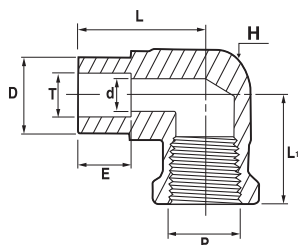
Part Number	T Tube O.D.	P-NPT Female Pipe Size	d	D	E	H Hex	L	Working Psig	Pressure bar
P-SSB-2T-2N	1/8	1/8	2.3	7.4	2.5	14.2	21.1	6,100	420
P-SSB-4T-2N	1/4	1/8	4.6	12.2	7.1	14.2	26.7	6,100	420
P-SSB-4T-4N	1/4	1/4	4.6	12.2	7.1	19.05	30.0	6,200	427
P-SSB-6T-4N	3/8	1/4	7.1	15.3	7.9	19.05	31.5	6,200	427
P-SSB-8T-6N	1/2	3/8	10.2	18.5	9.7	22.2	34.5	5,000	344
P-SSB-8T-8N	1/2	1/2	10.2	18.5	9.7	26.9	40.4	4,600	316
P-SSB-10T-8N	5/8	1/2	12.7	23.4	10.4	26.9	41.9	4,600	316
P-SSB-12T-12N	3/4	3/4	15.7	26.7	11.2	33.3	43.9	4,300	296

Male Elbow P-SMLSW



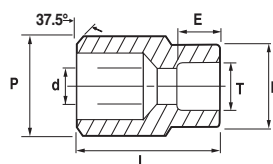
Part Number	T Tube O.D.	P- NPT	d	D	E	H Wrench Flat	L	S	Working Psig	Pressure bar
P-SMLSW-4T-4N	1/4	1/4	4.6	15.8	7.1	12.7	20.1	24.5	7,500	516
P-SMLSW-6T-4N	3/8	1/4	7.1	15.8	7.9	12.7	24.1	24.5	7,500	516
P-SMLSW-6T-6N	3/8	3/8	7.1	20.6	7.9	17.5	24.6	29.0	7,300	502
P-SMLSW-6T-8N	3/8	1/2	7.1	23.8	7.9	20.6	25.9	34.5	7,200	496
P-SMLSW-8T-8N	1/2	1/2	10.2	23.8	9.7	20.6	27.4	34.5	6,200	427
P-SMLSW-12T-12N	3/4	3/4	15.7	28.6	11.2	25.4	37.0	37.0	6,700	461

Female Elbow P-SFLSW



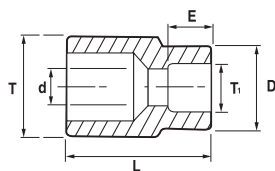
Part Number	T Tube O.D.	P-NPT Female Pipe Size	d	D	E	H Wrench Flat	L	L ₁	Working Psig	Pressure bar
P-SFLSW-4T-4N	1/4	1/4	4.6	12.2	7.1	17.5	22.9	29.7	6,200	427
P-SFLSW-6T-4N	3/8	1/4	7.1	15.3	7.9	17.5	25.1	29.7	7,000	482
P-SFLSW-6T-8N	3/8	1/2	7.1	15.3	7.9	25.4	28.7	37.0	5,400	372
P-SFLSW-8T-8N	1/2	1/2	10.2	18.5	9.7	25.4	30.2	38.0	5,400	372

Pipe Weld to Tube Socket Weld P-SWRM



Part Number	P Pipe Size	T Tube Socket Size	d	D	E	L	Working Psig	Pressure bar
P-SWRM-4P-4N	1/4	1/8	4.6	13.7	7.1	22.4	9,600	661
P-SWRM-6P-6N	3/8	3/8	7.1	15.3	7.9	26.2	7,600	523
P-SWRM-6P-8N	3/8	1/2	10.2	18.5	9.7	27.9	6,200	427
P-SWRM-8P-4N	1/2	1/4	4.6	12.2	7.1	28.4	7,300	502
P-SWRM-8P-6N	1/2	3/8	7.1	15.3	7.9	28.4	7,300	502
P-SWRM-8P-8N	1/2	1/2	10.2	18.5	9.7	30.2	6,200	427
P-SWRM-12P-6N	3/4	3/8	7.1	15.3	7.9	38.1	6,200	427
P-SWRM-12P-8N	3/4	1/2	10.2	18.5	9.7	38.1	6,200	427

Tube Weld to Tube Socket Weld P-SWRM



Part Number	T Tube O.D.	T ₁ Tube Socket Size	d	D	E	L	Working Psig	Pressure bar
P-SWRM-4T-2T	1/4	1/8	2.3	7.4	2.5	14.2	11,800	813
P-SWRM-6T-4T	3/8	1/4	4.6	12.2	7.1	19.1	7,700	530
P-SWRM-8T-4T	1/2	1/4	4.6	18.2	7.1	22.4	7,000	482
P-SWRM-8T-6T	1/2	3/8	8.1	15.7	7.9	22.4	7,000	482
P-SWRM-12T-8T	3/4	1/2	10.2	18.5	9.7	28.4	5,900	406
P-SWRM-16T-8T	1	1/2	10.2	18.5	9.7	35.1	5,600	344

S-LOK®