

W e . s u p p o r t . t h e
i n n o v a t i o n s . o f . c u s t o m e r s

Leak - Proof Flow & Control Solution Partner

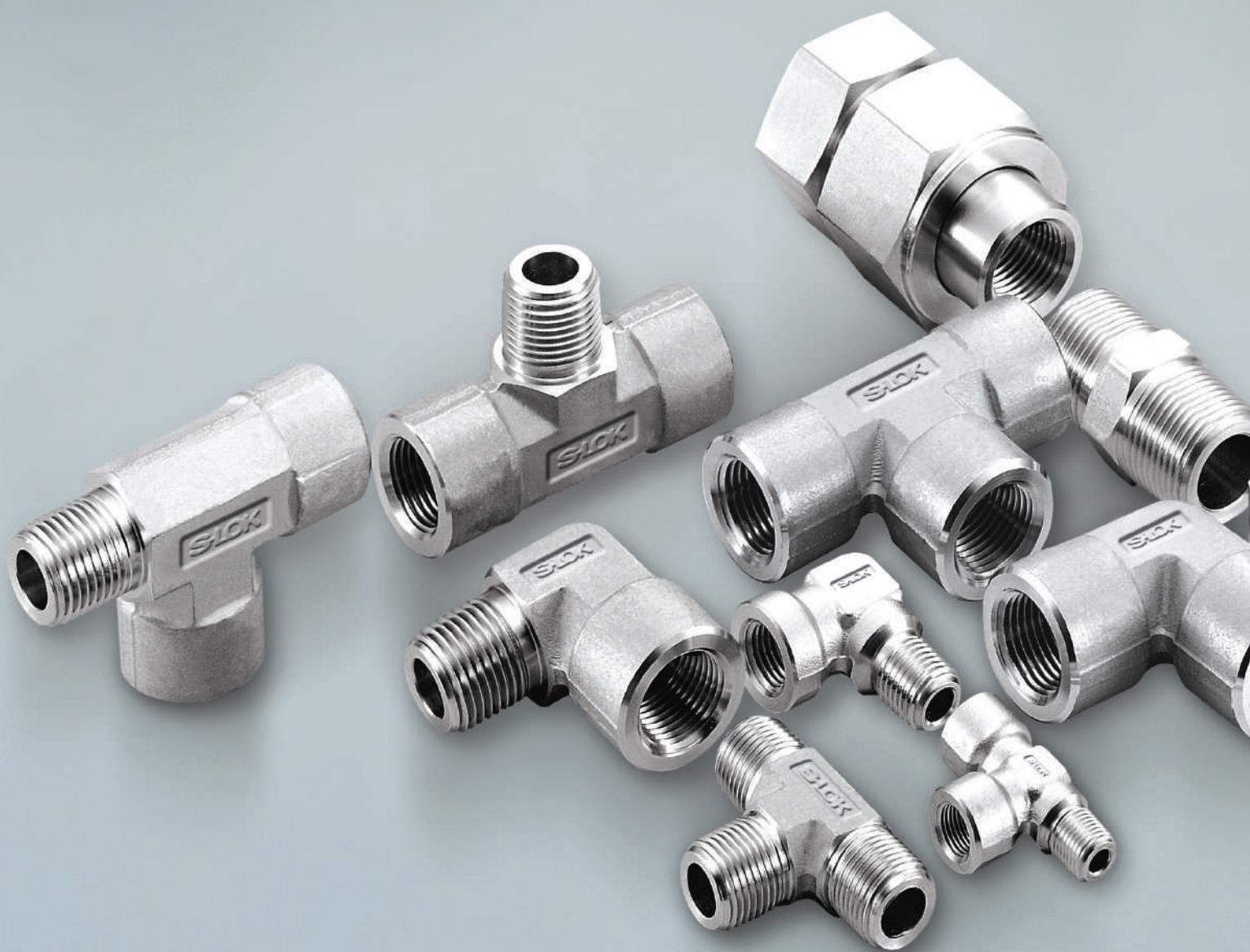
The Best Partner
for Value Creation

Instrument Pipe Fittings

HanSun

한선엔지니어링(주)
HANSUN ENGINEERING CO., LTD.







Certificate List



API Spec.Q1



API Monogram



ABS



Lloyd's



KR



DNV



GL



BV



CCS



NK



ECE RIIO / ISO / 5500 /
NGV 3.1



Gost - R



Achilles



Achilles FPAL



Achilles JQS

■ 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
30	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 37.8°C (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 ——— Material
Name of fitting ——— Pipe thread Size

• 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

P-SCNClose Nipple
(Male NPT both ends)

06

P-SHNHex Nipple
(Male NPT both ends)

06

P-SHRNHex Reducing Nipple
(Male NPT to reduced male NPT)

06

P-SHNHex Nipple
(Male NPT to ISO tapered)

06

P-SHNHex Nipple
(Male NPT to male ISO parallel)

07

P-SHLNHex Long Nipple
(Male NPT both ends)

07

P-MFAAAdapter
(Female NPT to male NPT)

07

P-MFRAReducing Adapter
(Female NPT to reduced male NPT)

07

P-MFAAAdapter
(Female NPT to male ISO tapered)

08

P-MFABAdapter
(Female NPT to male ISO parallel)

08

P-SHBReducing Hex Bushing
(Male NPT to reduced female NPT)

08

P-SCPipe Cap
(Female NPT)

09

P-SPPipe Plug
(Male NPT)

09

P-SHCHex Coupling
(Female NPT both ends)

09

P-SHRCHex Reducing Coupling
(Female NPT to reduced female NPT)

09

P-SLElbow
(Female NPT both ends)

10

P-SSLStreet Elbow
(Female to male NPT)

10

P-SRSLReducing Street Elbow
(Female to male NPT)

10

P-SMLMale Elbow
(Male NPT both ends)

10

P-STTee
(Female NPT)

11

P-SRTRun Tee
(Female to male to female NPT)

11

P-SBTBranch Tee
(Female to male to male NPT)

11

P-SMTMale Tee
(Male NPT)

11

P-SUJUnion Ball Joint
(Female NPT both ends)

11

SCG

Iso Parallel Gasket



11

P-SWFC

Union



13

P-SWLA

Union Elbow



13

P-SWTAUnion Tee
(Female NPT both ends)

13

P-SSA

Male Connector



13

P-SSB

Female Connector



13

P-SMLSW

Male Elbow



13

P-SFLSW

Female Elbow



14

P-SWRMPipe Weld to Tube
Socket Weld

14

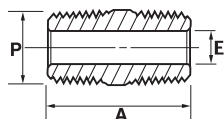
P-SWRMTube Weld to Tube
Socket Weld

14

P-SCN

Close Nipple

(Male NPT both ends)

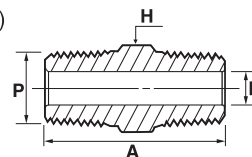


Part Number	P Pipe Size	A	E
P-SCN- 2N	1/8	19.05	4.8
P-SCN- 4N	1/4	28.4	7.1
P-SCN- 6N	3/8	28.4	9.6
P-SCN- 8N	1/2	31.7	11.9
P-SCN-12N	3/4	31.7	15.7
P-SCN-16N	1	47.8	22.4

P-SHN

Hex Nipple

(Male NPT both ends)

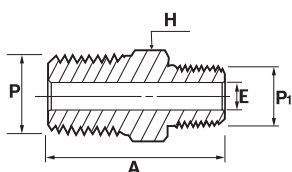


Part Number	P Pipe Size	A	E	H Hex
P-SHN- 2N	1/8	25.4	4.8	11.1
P-SHN- 4N	1/4	35.3	7.1	14.2
P-SHN- 6N	3/8	36.1	9.6	17.4
P-SHN- 8N	1/2	46.7	11.9	22.2
P-SHN-12N	3/4	46.7	15.7	26.9
P-SHN-16N	1	58.7	22.3	34.9

P-SHRN

Hex Reducing Nipple

(Male NPT to reduced male NPT)

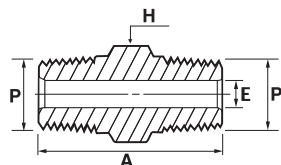


Part Number	P Pipe Size	P1 Reduced Pipe Size	A	E	H Hex
P-SHRN- 4-2N	1/4	1/8	30.7	4.8	14.2
P-SHRN- 6-2N	3/8	1/8	32.0	4.8	17.4
P-SHRN- 6-4N	3/8	1/4	36.1	7.1	17.4
P-SHRN- 8-2N	1/2	1/8	37.2	4.8	22.2
P-SHRN- 8-4N	1/2	1/4	41.7	7.1	22.2
P-SHRN- 8-6N	1/2	3/8	41.7	9.6	22.2
P-SHRN-12-4N	3/4	1/4	41.7	7.1	26.9
P-SHRN-12-8N	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

P-SHN

Hex Nipple

(Male NPT to ISO tapered)

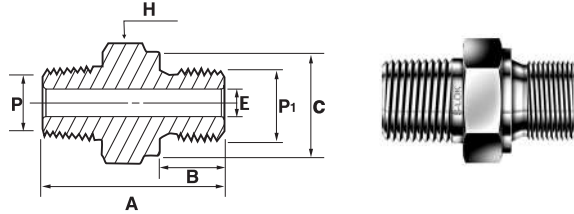


Part Number	P NPT Thread Size	P1 BSP/ISO Thread Size	A	E	H Hex
P-SHN- 2NR	1/8	1/8-28 7/1	24.6	4.1	11.1
P-SHN- 4NR	1/4	1/4-19 7/1	35.6	6.4	14.2
P-SHN- 6NR	3/8	3/8-19 7/1	36.3	9.7	17.4
P-SHN- 8NR	1/2	1/2-14 7/1	46	11.9	22.2
P-SHN-12NR	3/4	3/4-14 7/1	46.7	15.7	26.9
P-SHN-16NR	1	1-11 7/1	58.9	22.4	34.9

P-SHN

Hex Nipple

(Male NPT to male parallel)

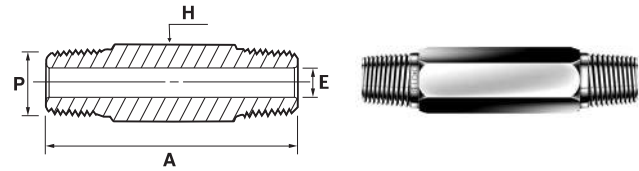


Part Number	P NPT Thread Size	P1 BSP/ISO Thread Size	A	B	C	E	H Hex
P-SHN - 2NG	1/8	1/8-28 228/1	27.4	7.1	13.7	4.1	14.2
P-SHN - 4NG	1/4	1/4-19 228/1	36.8	11.2	17.8	5.8	19.05
P-SHN - 6NG	3/8	3/8-19 228/1	37.6	11.2	21.8	7.9	22.2
P-SHN - 8NG	1/2	1/2-14 228/1	45.0	14.2	26.1	11.9	26.9
P-SHN-12NG	3/4	3/4-14 228/1	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

P-SHLN

Hex Long Nipple

(Male NPT both ends)



Part Number	P PipeSize	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

P-MFAA

Adapter

(Female NPT to male NPT)

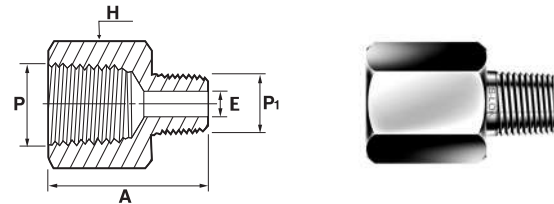


Part Number	P PipeSize	A	E	H Hex
P-MFAA - 2N	1/8	27.4	4.8	14.2
P-MFAA - 4N	1/4	35.6	7.1	19.05
P-MFAA - 6N	3/8	37.8	9.6	22.2
P-MFAA - 8N	1/2	49.0	11.9	26.9
P-MFAA -12N	3/4	50.3	15.7	31.7
P-MFAA -16N	1	58.0	22.3	41.2

P-MFRA

Reducing Adapter

(Female NPT to reduced male NPT)

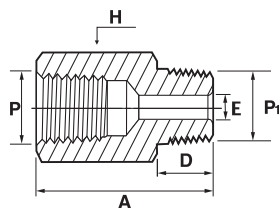


Part Number	P Female Pipe Size	P1 Male Pipe Size	A	E	H Hex
P-MFRA - 2 - 4N	1/4	1/8	31.5	4.8	19.05
P-MFRA - 2 - 6N	3/8	1/8	33.5	4.8	22.2
P-MFRA - 4 - 6N	3/8	1/4	37.8	7.1	22.2
P-MFRA - 2 - 8N	1/2	1/8	40.0	4.8	26.9
P-MFRA - 4 - 8N	1/2	1/4	44.5	7.1	26.9
P-MFRA - 6 - 8N	1/2	3/8	44.5	9.6	26.9
P-MFRA - 4-12N	3/4	1/4	45.7	7.1	31.8
P-MFRA - 6-12N	3/4	3/8	45.7	9.6	31.8
P-MFRA - 8-12N	3/4	1/2	51.1	11.9	31.8
P-MFRA - 4-16N	1	1/4	50.8	7.1	41.2
P-MFRA - 8-16N	1	1/2	54.9	11.9	41.2
P-MFRA-12-16N	1	3/4	55.1	15.7	41.2

P-MFAA

Adapter

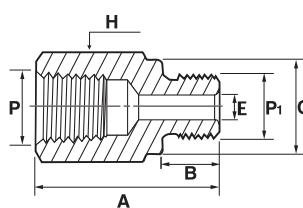
(Female NPT to male ISO tapered)



P-MFAB

Adapter

(Female NPT to male ISO parallel)



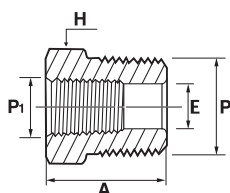
Part Number	P NPT Thread Size	P1 BSP/ISO Thread Size	A	D	E	H Hex
P-MFAA - 2RN	1/8	1/8-28 7/1	27.4	9.7	4.8	14.2
P-MFAA - 4RN	1/4	1/4-19 7/1	35.8	14.2	7.1	19.05
P-MFAA - 6RN	3/8	3/8-19 7/1	37.6	14.2	9.7	22.2
P-MFAA - 8RN	1/2	1/2-14 7/1	49.0	19.1	11.9	26.9
P-MFAA-12RN	3/4	3/4-14 7/1	50.3	19.1	15.7	31.8
P-MFAA-16RN	1	1-11 7/1	58.0	23.9	22.3	41.2

Part Number	P NPT Thread Size	P1 BSP/ISO Thread Size	A	B	C	E	H Hex
P-MFAB - 2GN	1/8	1/8-28 228/1	24.9	7.1	13.7	4.1	14.2
P-MFAB - 4GN	1/4	1/4-19 228/1	33.3	11.2	17.8	5.8	19.05
P-MFAB - 6GN	3/8	3/8-19 228/1	37.8	11.2	21.8	7.9	22.2
P-MFAB - 8GN	1/2	1/2-14 228/1	43.9	14.2	26.1	11.9	26.9
P-MFAB-12GN	3/4	3/4-14 228/1	50.8	15.7	31.5	15.7	33.3
P-MFAB-16GN	1	1-11 228/1	53.1	18.3	38.9	19.8	41.2

P-SHB

Reducing Hex Bushing

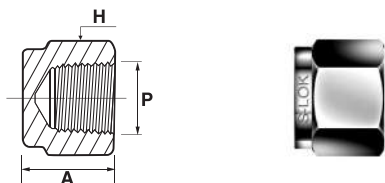
(Male NPT to reduced female NPT)



Part Number	P Male Pipe Size	P1 Female Pipe Size	A	E	H Hex	Working Pressure(PSIG)		
						316SS	Brass	Carbon Steel
P-SHB - 4 - 2N	1/4	1/8	26.7	7.1	14.2	5600	3100	6200
P-SHB - 6 - 2N	3/8	1/8	21.8	8.5	17.4			
P-SHB - 6 - 4N	3/8	1/4	30.0	9.6	19.05	5200	3100	6200
P-SHB - 8 - 2N	1/2	1/8	27.4	8.5	22.2	-	-	-
P-SHB - 8 - 4N	1/2	1/4	27.4	11.7	22.2	5800	3100	6200
P-SHB - 8 - 6N	1/2	3/8	35.6	11.9	22.2	4400	2500	5100
P-SHB -12 - 4N	3/4	1/4	27.4	11.4	26.9	-	-	-
P-SHB -12 - 6N	3/4	3/8	27.4	15.0	26.9	-	-	-
P-SHB -12 - 8N	3/4	1/2	41.4	15.7	26.9	-	-	-
P-SHB -16 - 4N	1	1/4	34.8	11.4	34.9	-	-	-
P-SHB -16 - 8N	1	1/2	34.8	18.5	34.9	-	-	-
P-SHB -16-12N	1	3/4	34.8	22.4	34.9	-	-	-

P-SC

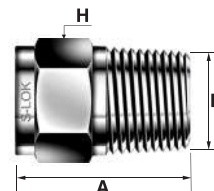
Pipe Cap
(Female NPT)



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

P-SP

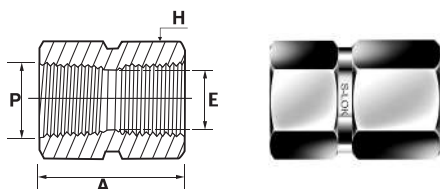
Pipe Plug
(Male NPT)



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

P-SHC

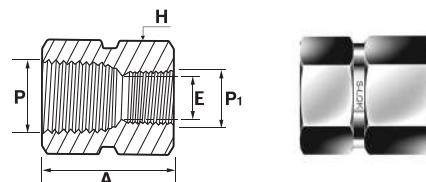
Hex Coupling
(Female NPT both ends)



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

P-SHRC

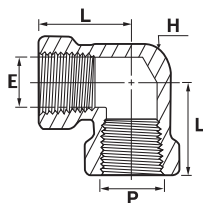
Hex Reducing coupling
(Female NPT to reduced female NPT)



Part Number	P Pipe Size	P 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

P-SL**Elbow**

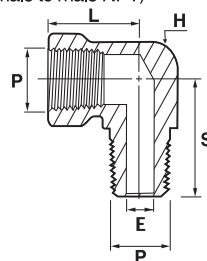
(Female NPT both ends)



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

P-SSL**Street Elbow**

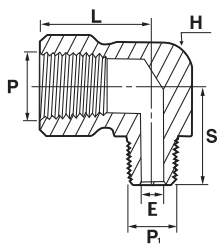
(Female to male NPT)



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

P-SRSL**Reducing Street Elbow**

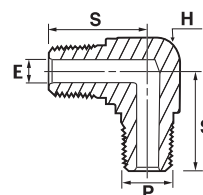
(Female to male NPT)



Part Number	P Pipe Size	P1 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

P-SML**Male Elbow**

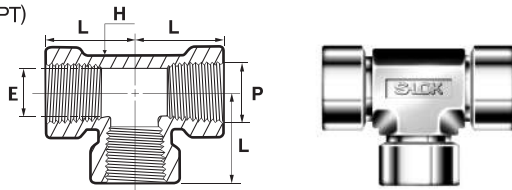
(Male NPT both ends)



Part Number	P Pipe Size	S	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	22.3	31.8

P-ST

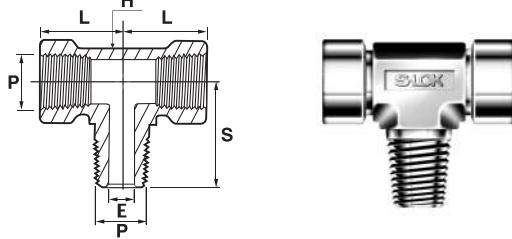
Tee
(Female NPT)



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	48.5	29.7	42.8

P-SBT

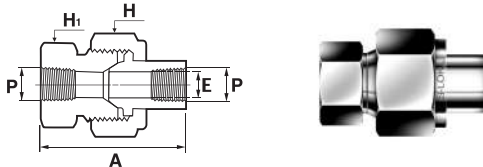
Branch Tee
(Female to Male to male NPT)



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	22.3	42.9

P-SUJ

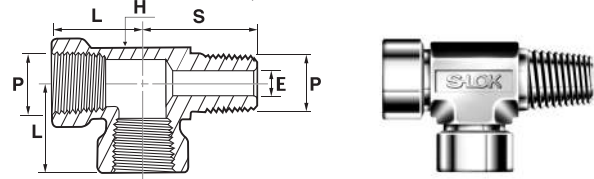
Union Ball Joint
(Female NPT both ends)



Part Number	P Pipe Size	A	E	H Hex	H1 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

P-SRT

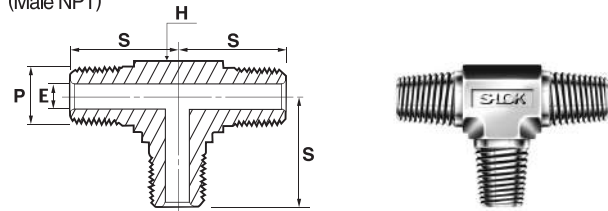
Run Tee
(Female to male to Female NPT)



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	22.3	42.9

P-SMT

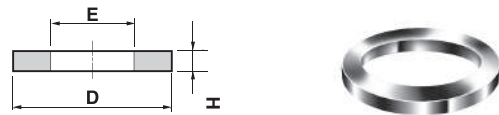
Male Tee
(Male NPT)



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	22.3	31.8

SGC

Iso Parallel Gasket

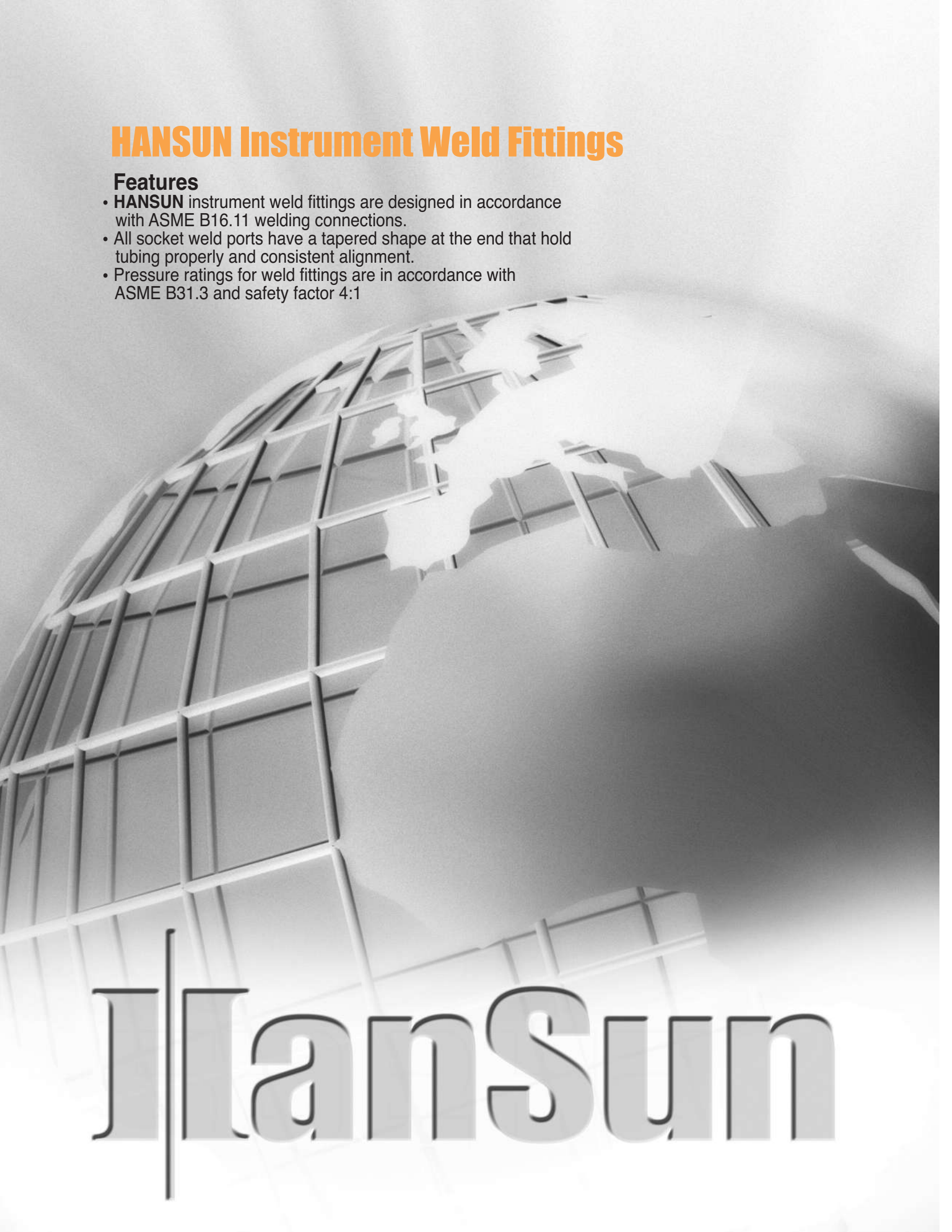


Part Number	P Pipe Size	E	H	D
SGC- 2N	1/8	10.0	2.0	18.0
SGC- 4N	1/4	14.0	2.0	22.0
SGC- 6N	3/8	17.0	2.0	26.0
SGC- 8N	1/2	22.0	2.0	32.0
SGC-12N	3/4	27.0	2.0	38.0
SGC-16N	1	34.0	2.0	42.0

HANSUN Instrument Weld Fittings

Features

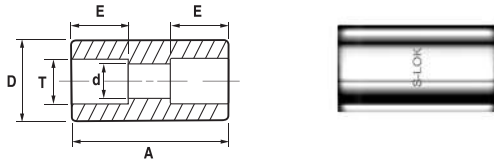
- **HANSUN** instrument weld fittings are designed in accordance with ASME B16.11 welding connections.
- All socket weld ports have a tapered shape at the end that hold tubing properly and consistent alignment.
- Pressure ratings for weld fittings are in accordance with ASME B31.3 and safety factor 4:1



Hansun

P-SWFC

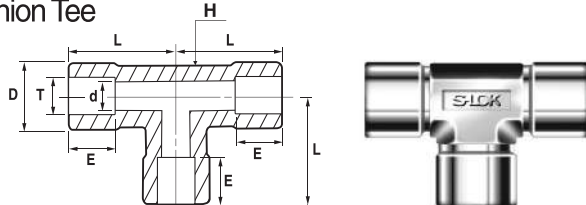
Union



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	

P-SWTA

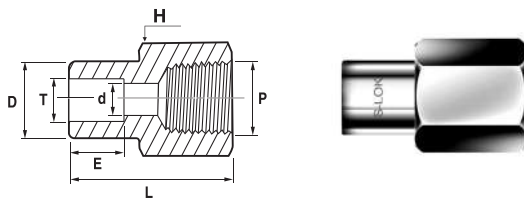
Union Tee



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		

P-SSB

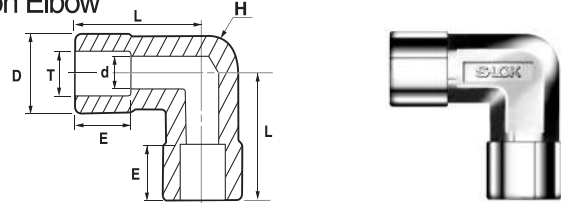
Female Connector



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		

P-SWLA

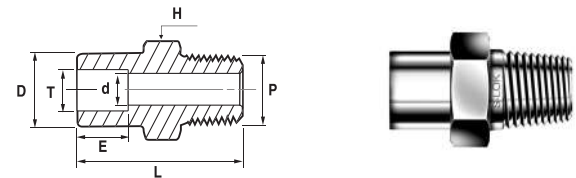
Union Elbow



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	17.4	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		

P-SSA

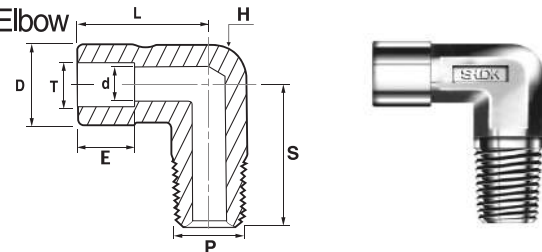
Male Connector



Part Number	T	Tube O.D	P-NPT	d	D	E	H	Hex	L	Working psig	Pressure bar
P-SSA-4T-2N	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		

P-SMLSW

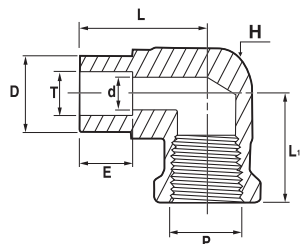
Male Elbow



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	17.4	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		

P-SFLSW

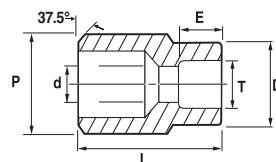
Female Elbow



Part Number	T Tube O.D	P-NPT Female Pipe Size	d	D	E	H Wrench Flat	L	L1	Working psig	Pressure bar
P-SFLSW-4T-4N	1/4	1/4	4.6	12.2	7.1	17.4	22.9	29.7	6,200	427
P-SFLSW-6T-4N	3/8	1/4	7.1	15.3	7.9	17.4	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

P-SWRM

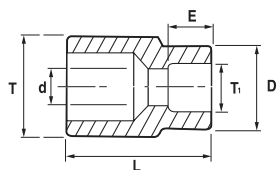
Pipe Weld to Tube Socket Weld



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

P-SWRM

Tube Weld to Tube Socket Weld



Part Number	T Tube O.D	T1 Tube Socket Size	d	D	E	L	Working Pressure psig	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



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