

Precision Pipe Fittings & Adapters



*...Make the leak free connections with
Sealexcel products at economical price...*





About the Company

SEALEXCEL[®] (INDIA) PVT. LTD.

is a fast growing manufacturing company in the field of design, development, production and marketing of high quality valves and fittings for international and domestic markets, Since 1987.

Product Range

- Twin ferrule tube fittings
- Single ferrule tube fittings
- Tube Fittings as per DIN 2353
- 37° Flared tube fittings
- Stainless steel push-in-fittings
- Precision pipe fittings and adaptors
- Stainless steel quick connect couplings
- Bar stock and forged body needle valves
- Instrumentation ball valves

Our Focus

SEALEXCEL[®] manufactures all the above products to very stringent tolerances under rigid quality controlled procedures approved to ISO 9001 : 2000 quality management systems. The products are tested with continuous Research and Development programs to withstand the demand of high performance world class quality products for instrumentation and process tubing. These products are used in the environments like Oil, Gas, Chemical, Petrochemical, Nuclear, Power Plant, Pharmaceutical, Hydraulic, Pneumatic, Marine, Packaging, Printing Industries etc.

Manufacturing Facility

SEALEXCEL[®] has two well equipped manufacturing units in India having modern manufacturing facilities with CNC lathes, Single Spindle Auto Screw machines, Capsten lathes, Thread Rolling and many other machines to provide good quality products at economical prices.

Product warranty

All the SEALEXCEL[®] Products come with a warranty of 12 months from the date of shipment against any defect in material or workmanship. The warranty stands for replacement of determined defective parts only.

Quality Policy

We at SEALEXCEL[®] not only strive to meet all of customer's requirements but also enhance customer's expectations by providing them excellent products at economical price in time.

This is achieved by

- ☛ Continuously improving the products, process and systems.
- ☛ Ensuring involvement of all the employees and enhancing their competency.
- ☛ Complying with all applicable statutory and regulatory requirements.

The Goal

SEALEXCEL[®] is committed to make every effort towards producing world class quality products at economical price.





PRECISION PIPE FITTINGS

DESIGN : SEALEXCEL® precision Instrument pipe fittings and adapters are designed and manufactured to very stringent tolerances under rigid quality control procedures approved to ISO 9001:2000 to provide leak free connections for chemical, petrochemical, processing plants, oil, gas and power generation industries, etc.

MATERIAL : SEALEXCEL® precision pipe fittings and Adapters are available as standard stainless steel 316. The raw materials used confirm to chemical requirements listed in specification below.

a)	Bar Stock	ASME-SA-479 Type 316-SS BS970 316-S31 DIN 4401 ASTM A276 Type 316
b)	Forgings	ASME-SA-182 316 BS970 316-S31 DIN 4401

HEAT CODE TRACEABILITY : SEALEXCEL® Stainless steel 316 precision pipe fittings are heat code traceable back to the original mill heat from which it was made.

FEATURES :

- Sizes ranges from 1/8" through 1".
- Pipe threads are available with,
 - a) NPT (National Pipe Taper) and exceed the requirement of ANSI B1.20.1.
 - b) BSP/ISO (British Standard Pipe/International Standard Organisation).
 - c) SAE/MS straight thread.

All exposed threads protected with plastic caps to prevent damage and packed in sealed, clear plastic bag for cleanliness.

- Working pressures calculated in accordance with power piping code ANSI B31.1 and refiner piping code ANSI B31.3.
- Straight fittings machined from Bar Stock.
- Elbows, Tees and Crosses machined from close grain forgings.

ORDERING INFORMATION

The part number describes the SEALEXCEL® precision pipe fittings.

Example : For NPT (National Pipe Thread) fittings, Part no : RHN-8N-4N/E

R H N	8 N	4 N	E
Type of fittings	1st End pipe thread size & type	2nd End pipe thread size & type	Material
Reducing Hex Nipple	1/2" NPT	1/4" NPT	SS316

Example : For ISO Conversion fittings, Part no : NH-4N-4RT/E

N H	4 N	4 R T	E
Type of fittings	1st End pipe thread size & type	2nd End pipe thread size & type	Material
Hex Nipple	1/4" NPT	1/4" BSPT	SS316

Part number for Adapters

Example : MA-4-4N/E

MA	4	4 N	E
Type of Adapters	Turbo OD	Type & Size of thread	Material
Male Adapter	1/4"	1/4" NPT	SS316



PIPE THREAD INFORMATION

SEALEXCEL® pipe fittings are available with NPT (National Pipe Taper), BSP/ISO (British Standard Pipe/International Standards Organisation) and SAE/MS Straight Thread.

TAPERED THREADS :

Specification(s)	Type	Part No. or Suffix Designation	Sealing Method
NPT ANSI B1.20.1	M/F	N	Seal is made on the thread. Thread sealant is required
ISO 7/1 BS 21 JIS B0203 DIN 2999	M/F M/F M/F Male	RT	Seal is made on the thread. Thread sealant is required.

PARALLEL THREADS :

Specification(s)	Type	Part No. or Suffix Designation	Sealing Method
ISO 228/1+2 BS 2779 JIS B0202	Male	RP	Metal-to-metal sealing to DIN 3852, Form B.
ISO 228/1+2 BS 2779 JIS B0202	Male	RS	Utilizes a sealing washer to provide sealing. Reference DIN 3852, Form A.
ISO 228/1+2 BS 2779 JIS B0202	Female	RG	Sealing form meets DIN 3852, Form Y.
BS2779 ISO 228/1+2 with Elastic Sealing	Male	EO	Sealing form meets DIN 3852, Part 2, Form E.
SAE J514	Male	SAE	Sealing with 'O' Ring

SIZE CODE DESCRIPTION

Inches			
Size	Code	Size	Code
1/8	2	3/4	12
1/4	4	7/8	14
3/8	6	1	16
7/16	7	1 1/16	17
1/2	8	1 5/16	21
9/16	9		
5/8	10		

MATERIAL CODE DESCRIPTION

Description of material Code	
SS316	E
SS316L	EL
'O' Ring Viton	V
'O' Ring Buna	N

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Hex Nipple
Pg. no. ...6-7



Hex Reducing Nipple
Pg. no. ...7



Nipples Close
Pg. no. ...8



Long Hex Nipple
Pg. no. ...8



Adapter
Pg. no. ...9-10



Adapter Gasket
Pg. no. ...11



Gauge Adapter
Pg. no. ...12



Reducing Adapter
Pg. no. ...12



Bushing Reducing
Pg. no. ...13



Reducer
Pg. no. ...13



Hex Coupling
Pg. no. ...14



Hex Reducing Coupling
Pg. no. ...14



Female Elbow
Pg. no. ...15



Street Elbow
Pg. no. ...15



Reducing Street Elbow
Pg. no. ...16



Male Elbow
Pg. no. ...16



Female Tee
Pg. no. ...17



Street Tee
Pg. no. ...17



Branch Tee
Pg. no. ...18



Male Tee
Pg. no. ...18



Female Cross
Pg. no. ...19



Union Ball Joint
Pg. no. ...19



Pipe Cap
Pg. no. ...20



Pipe Plug
Pg. no. ...20



Hollow Hex Plug
Pg. no. ...21



Hollow Hex Plug
Pg. no. ...21



Hex Head Plug
Pg. no. ...21



Male Adapter
Pg. no. ...22-23



An Male Adapter
Pg. no. ...24



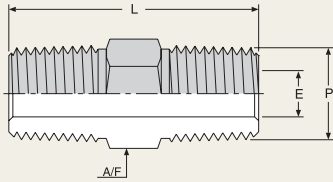
Tube To Hose Connector
Pg. no. ...24



Female Adapter
Pg. no. ...25-26



Male Hose Connector
Pg. no. ...26



HEX NIPPLE – NH

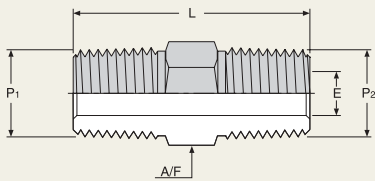
Male NPT Threads

PIPE SIZE	DIMENSIONS					PRESSURE RATINGS		PART NO.
	E		L		A / F	PSIG	BAR	
P-Male NPT	inch	mm	inch	mm	inch			
1/8	0.19	4.8	1.01	25.6	7/16	9100	620	NH-2N
1/4	0.28	7.1	1.40	35.6	9/16	7500	510	NH-4N
3/8	0.38	9.6	1.43	36.3	11/16	7200	490	NH-6N
1/2	0.47	11.9	1.84	46.7	7/8	6600	450	NH-8N
3/4	0.62	15.7	1.84	46.7	1 1/8	6400	435	NH-12N
1	0.88	22.4	2.32	58.9	1 3/8	4600	313	NH-16N

Male ISO Tapered (BSPT) Pipe Threads

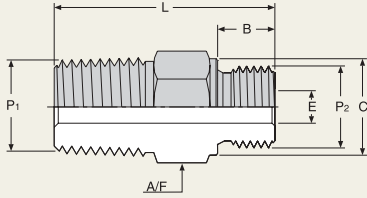
PIPE SIZE	DIMENSIONS					PRESSURE RATINGS		PART NO.
	E		L		A / F	PSIG	BAR	
P-Male BSPT	inch	mm	inch	mm	inch			
1/8	0.19	4.8	1.01	25.6	7/16	9100	620	NH-2RT
1/4	0.28	7.1	1.40	35.6	9/16	7500	510	NH-4RT
3/8	0.38	9.6	1.43	36.3	11/16	7200	490	NH-6RT
1/2	0.47	11.9	1.84	46.7	7/8	6600	450	NH-8RT

Male NPT to Male ISO Tapered (BSPT) Pipe Threads



PIPE SIZE		DIMENSIONS					PRESSURE RATINGS		PART NO.
P ₁ -Male NPT	P ₂ -Male BSPT	E		L		A / F	PSIG	BAR	
		inch	mm	inch	mm	inch			
1/8	1/8	0.19	4.8	1.01	25.6	7/16	9100	620	NH-2N-2RT
1/4	1/4	0.28	7.1	1.40	35.6	9/16	7500	510	NH-4N-4RT
3/8	3/8	0.38	9.6	1.43	36.3	11/16	7200	490	NH-6N-6RT
1/2	1/2	0.47	11.9	1.84	46.7	7/8	6600	450	NH-8N-8RT
3/4	3/4	0.62	15.7	1.84	46.7	1 1/8	6400	435	NH-12N-12RT
1	1	0.88	22.4	2.32	58.9	1 3/8	4600	313	NH-16N-16RT

Dimensions are for reference only, and are subject to change without notice.

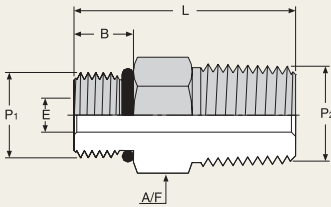


HEX NIPPLE – NH

Male NPT to Male ISO Parallel (BSP) Pipe Threads
(BSP male pipe threads according to DIN 3852, Part 2 Form A)

PIPE SIZE		DIMENSIONS									PRESSURE RATINGS		PART NO.
P ₁ -Male NPT	P ₂ -Male BSP	B		C		E		L		A/F	PSIG	BAR	
		inch	mm	inch	mm	inch	mm	inch	mm	inch			
1/8	1/8	0.28	7.1	0.54	13.7	0.16	4.1	1.07	27.2	9/16	9100	620	NH-2N-2RS
1/4	1/4	0.44	11.2	0.71	18.0	0.23	5.8	1.44	36.6	3/4	7500	510	NH-4N-4RS
3/8	3/8	0.44	11.2	0.85	21.6	0.31	7.9	1.47	37.3	7/8	7200	490	NH-6N-6RS
1/2	1/2	0.56	14.2	1.02	25.9	0.47	11.9	1.78	45.2	1 ¹ / ₁₆	6600	450	NH-8N-8RS
3/4	3/4	0.62	15.7	1.26	32.0	0.62	15.7	1.95	49.5	1 ⁵ / ₁₆	6400	435	NH-12N-12RS
1	1	0.72	18.3	1.53	38.9	0.78	19.8	2.26	57.4	1 ⁵ / ₈	4600	315	NH-16N-16RS

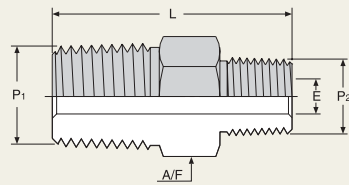
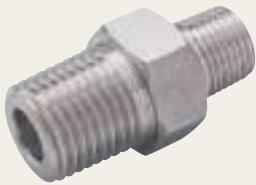
- i) Male NPT to male ISO Parallel (BSP) pipe threads according to DIN 3852, Part 2, Form 'E' are available on request.
- ii) Male BSPT to male ISO Parallel (BSP) pipe threads according to DIN 3852, Part 2, Form A or E are available on request.



Male SAE/MS Straight Thread to Male NPT Threads

PIPE SIZE		DIMENSIONS						O Ring Uniform SIZE	PRESSURE RATINGS		PART NO.	
P ₁ -Male SAE/MS	P ₂ -Male NPT	B		E		L			A/F	PSIG		BAR
		inch	mm	inch	mm	inch	mm	inch				
7/16-20	1/4	0.36	9.1	0.20	5.1	1.20	30.5	9/16	-904	4500	306	NH-7SAE-4N
9/16-18	3/8	0.36	9.1	0.28	7.1	1.26	32.0	11/16	-906	4500	306	NH-9SAE-6N
3/4-16	1/2	0.44	11.2	0.42	10.7	1.53	38.9	7/8	-908	4500	306	NH-12SAE-8N
1 ¹ / ₁₆ -12	3/4	0.59	15.0	0.62	15.7	1.75	44.4	1 ¹ / ₄	-912	3600	245	NH-17SAE-12N
1 ⁵ / ₁₆ -12	1	0.59	15.0	0.88	22.4	2.0	50.8	1 ¹ / ₂	-916	2900	198	NH-21SAE-16N

'O' ring material is viton

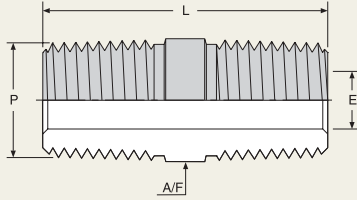


HEX REDUCING NIPPLE – RHN

Male NPT Threads

PIPE SIZE		DIMENSIONS					PRESSURE RATINGS		PART NO.
P ₁ -Male NPT	P ₂ Reduced Male NPT	E		L		A / F			
		inch	mm	inch	mm	inch	PSIG	BAR	
1/4	1/8	0.19	4.8	1.22	31.0	9/16	7500	510	RHN-4N-2N
3/8	1/8	0.19	4.8	1.25	31.8	11/16	7200	490	RHN-6N-2N
3/8	1/4	0.28	7.1	1.43	36.3	11/16	7200	490	RHN-6N-4N
1/2	1/8	0.19	4.8	1.47	37.3	7/8	6600	450	RHN-8N-2N
1/2	1/4	0.28	7.1	1.65	41.9	7/8	6600	450	RHN-8N-4N
1/2	3/8	0.38	9.6	1.65	41.9	7/8	6600	450	RHN-8N-6N
3/4	1/4	0.28	7.1	1.65	41.9	1 ¹ / ₈	6400	435	RHN-12N-4N
3/4	3/8	0.38	9.6	1.65	41.9	1 ¹ / ₈	6400	435	RHN-12N-6N
3/4	1/2	0.47	11.9	1.84	46.7	1 ¹ / ₈	6400	435	RHN-12N-8N
1	1/4	0.28	7.1	1.94	49.3	1 ³ / ₈	4600	315	RHN-16N-4N
1	1/2	0.47	11.9	2.13	54.1	1 ³ / ₈	4600	315	RHN-16N-8N
1	3/4	0.62	15.7	2.13	54.1	1 ³ / ₈	4600	315	RHN-16N-12N

- Male ISO Tapered (BSPT) pipe Threads are available on request. Dimensions are for reference only, and are subject to change without notice.

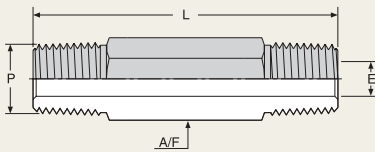


NIPPLES CLOSE – NC

Male NPT Threads

PIPE SIZE	DIMENSIONS				PRESSURE RATINGS		PART NO.
	E		L		PSIG	BAR	
P-Male NPT	inch	mm	inch	mm			
1/8	0.19	4.8	0.75	19.1	9100	620	NC-2N
1/4	0.28	7.1	1.12	28.4	7500	510	NC-4N
3/8	0.38	9.6	1.12	28.4	7200	490	NC-6N
1/2	0.47	11.9	1.50	38.1	6600	450	NC-8N
3/4	0.62	15.7	1.50	38.1	6400	435	NC-12N
1	0.88	22.4	1.88	47.8	4600	315	NC-16N

► Male ISO Tapered (BSPT) pipe Threads are available on request.



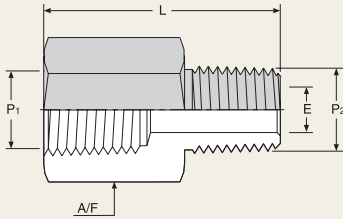
LONG HEX NIPPLE – LHN

Male NPT Threads

PIPE SIZE	DIMENSIONS					PRESSURE RATINGS		PART NO.
	E		L		A / F	PSIG	BAR	
P Male NPT	inch	mm	inch	mm	inch			
1/8	0.19	4.8	1.50	38.1	7/16	9100	620	LHN-2N-24
1/8	0.19	4.8	2.00	50.8	7/16	9100	620	LHN-2N-32
1/8	0.19	4.8	2.50	63.5	7/16	9100	620	LHN-2N-40
1/8	0.19	4.8	3.00	76.2	7/16	9100	620	LHN-2N-48
1/4	0.28	7.1	1.50	38.1	9/16	7500	510	LHN-4N-24
1/4	0.28	7.1	2.00	50.8	9/16	7500	510	LHN-4N-32
1/4	0.28	7.1	2.50	63.5	9/16	7500	510	LHN-4N-40
1/4	0.28	7.1	3.00	76.2	9/16	7500	510	LHN-4N-48
1/4	0.28	7.1	4.00	101.6	9/16	7500	510	LHN-4N-64
3/8	0.38	9.6	1.50	38.1	11/16	7200	490	LHN-6N-24
3/8	0.38	9.6	2.00	50.8	11/16	7200	490	LHN-6N-32
3/8	0.38	9.6	2.50	63.5	11/16	7200	490	LHN-6N-40
3/8	0.38	9.6	3.00	76.2	11/16	7200	490	LHN-6N-48
3/8	0.38	9.6	4.00	101.6	11/16	7200	490	LHN-6N-64
1/2	0.47	11.9	2.00	50.8	7/8	6600	450	LHN-8N-32
1/2	0.47	11.9	3.00	76.2	7/8	6600	450	LHN-8N-48
1/2	0.47	11.9	4.00	101.6	7/8	6600	450	LHN-8N-64
1/2	0.47	11.9	6.00	152.4	7/8	6600	450	LHN-8N-96
3/4	0.62	15.7	2.00	50.8	1 1/8	6400	435	LHN-12N-32
3/4	0.62	15.7	3.00	76.2	1 1/8	6400	435	LHN-12N-48
3/4	0.62	15.7	4.00	101.6	1 1/8	6400	435	LHN-12N-64
1	0.88	22.4	3.00	76.2	1 3/8	4600	315	LHN-16N-48
1	0.88	22.4	4.00	101.6	1 3/8	4600	315	LHN-16N-64

► Male ISO Tapered (BSPT) pipe Threads are available on request.

Dimensions are for reference only, and are subject to change without notice.



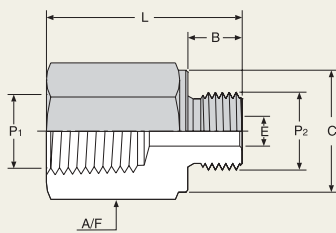
ADAPTER – A

Female to Male NPT Threads

PIPE SIZE		DIMENSIONS					PRESSURE RATINGS		PART NO.
P ₁ -Female NPT	P ₂ -Male NPT	E		L		A/F	PSIG	BAR	
		inch	mm	inch	mm				
1/8	1/8	0.19	4.8	1.10	27.9	9/16	6400	435	A-2N
1/4	1/4	0.28	7.1	1.40	35.6	3/4	6600	450	A-4N
3/8	3/8	0.38	9.6	1.51	38.4	7/8	5300	360	A-6N
1/2	1/2	0.47	11.9	1.94	49.3	1 1/16	5200	354	A-8N
3/4	3/4	0.62	15.7	2.02	51.3	1 5/16	4300	292	A-12N
1	1	0.88	22.1	2.28	57.9	1 5/8	4500	306	A-16N

Female to Male ISO Tapered (BSPT) Pipe Threads

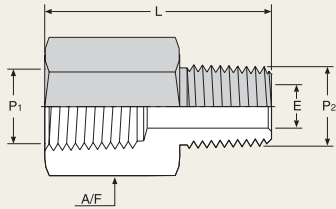
PIPE SIZE		DIMENSIONS					PRESSURE RATINGS		PART NO.
P ₁ -Female BSPT	P ₂ -Male BSPT	E		L		A/F	PSIG	BAR	
		inch	mm	inch	mm				
1/8	1/8	0.19	4.8	1.10	27.9	9/16	6400	435	A-2RT
1/4	1/4	0.28	7.1	1.40	35.6	3/4	6600	450	A-4RT
3/8	3/8	0.38	9.6	1.51	38.4	7/8	5300	360	A-6RT
1/2	1/2	0.47	11.9	1.94	49.3	1 1/16	5200	354	A-8RT



Female NPT to Male ISO Parallel (BSP) Pipe Threads

BSP male pipe threads according to DIN 3852, Part 2 Form A)

PIPE SIZE		DIMENSIONS									PRESSURE RATINGS		PART NO.
P ₁ Female NPT	P ₂ Male BSP	B		C		E		L		A/F	PSIG	BAR	
		inch	mm	inch	mm	inch	mm	inch	mm				
1/8	1/8	0.28	7.1	0.54	13.7	0.16	4.1	0.99	25.1	9/16	6100	415	A-2N-2RS
1/4	1/4	0.44	11.2	0.71	18.0	0.23	5.8	1.32	33.5	3/4	6200	422	A-4N-4RS
3/8	3/8	0.44	11.2	0.85	21.6	0.31	7.9	1.41	35.8	7/8	5000	340	A-6N-6RS
1/2	1/2	0.56	14.2	1.02	25.9	0.47	11.9	1.74	44.2	1 1/16	4600	315	A-8N-8RS
3/4	3/4	0.62	15.7	1.26	32.0	0.62	15.7	1.89	48.0	1 5/16	4300	292	A-12N-12RS
1	1	0.72	18.3	1.53	38.9	0.78	19.8	2.10	53.3	1 5/8	4100	280	A-16N-16RS



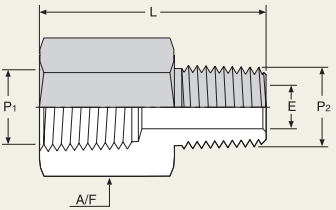
ADAPTER – A

Female NPT to Male ISO Tapered Pipe Thread

PIPE SIZE		DIMENSIONS					PRESSURE RATINGS		PART NO.
P ₁ Female NPT	P ₂ Male BSPT	E		L		A/F	PSIG	BAR	
		inch	mm	inch	mm	inch			
1/8	1/8	0.19	4.8	1.09	27.7	9/16	6100	415	A-2N-2RT
1/4	1/4	0.28	7.1	1.42	36.1	3/4	6200	422	A-4N-4RT
3/8	3/8	0.38	9.6	1.50	38.1	7/8	5000	340	A-6N-6RT
1/2	1/2	0.47	11.9	1.94	49.3	1 1/16	4600	315	A-8N-8RT
3/4	3/4	0.62	15.7	2.02	51.3	1 5/16	4300	292	A-12N-12RT
1	1	0.88	22.4	2.30	58.4	1 5/8	4100	280	A-16N-16RT

Female ISO Tapered (BSPT) to Male NPT Pipe Thread

PIPE SIZE		DIMENSIONS					PRESSURE RATINGS		PART NO.
P ₁ Female BSPT	P ₂ Male NPT	E		L		A/F	PSIG	BAR	
		inch	mm	inch	mm	inch			
1/4	1/4	0.28	7.1	1.43	36.3	3/4	6200	422	A-4RT-4N
3/8	3/8	0.38	9.6	1.51	38.4	7/8	5000	340	A-6RT-6N
1/2	1/2	0.47	11.9	1.96	49.8	1 1/16	4600	315	A-8RT-8N

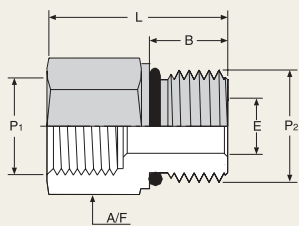


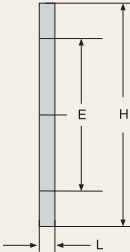
Female NPT to Male SAE/MS straight threads.

PIPE SIZE		DIMENSIONS							O Ring Uniform SIZE	PRESSURE RATINGS		PART NO.
P ₁ Female NPT	P ₂ Male SAE/MS	B		E		L		A/F		PSIG	BAR	
		inch	mm	inch	mm	inch	mm	inch				
1/4	7/16-20	0.36	9.1	0.20	5.1	1.32	33.5	3/4	-904	4500	306	A-4N-7SAE
3/8	9/16-18	0.39	9.9	0.28	7.1	1.39	35.3	15/16	-906	4500	306	A-6N-9SAE
1/2	3/4-16	0.44	11.2	0.42	10.6	1.76	44.7	1 1/16	-908	4500	306	A-8N-12SAE
3/4	1 1/16-12	0.59	15.0	0.66	16.7	1.99	50.5	1 3/8	-912	3600	245	A-12N-17SAE
1	1 5/16-12	0.59	15.0	0.88	22.3	2.12	53.8	1 5/8	-916	2900	198	A-16N-21SAE

'O' ring material is viton

- Female NPT to Male ISO Parallel Pipe threads according to DIN 3852, part 2, Form E are available on request.

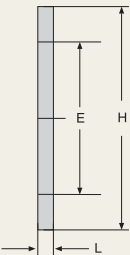




ADAPTER GASKET – AGCU

Copper Gasket for male RS or RP Fittings

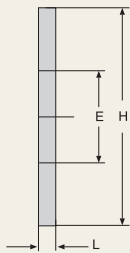
DIMENSIONS						PART NO.
E		H		L		
inch	mm	inch	mm	inch	mm	
0.39	9.9	0.59	15.0	0.04	1.0	AGCU-2RP
0.53	13.5	0.74	18.8	0.06	1.5	AGCU-4RP
0.67	17.0	0.90	22.9	0.06	1.5	AGCU-6RP
0.84	21.3	1.06	26.9	0.06	1.5	AGCU-8RP
1.05	26.7	1.30	33.0	0.08	2.0	AGCU-12RP
1.32	33.5	1.57	39.9	0.08	2.0	AGCU-16RP



Stainless Steel Gasket for male RS Fittings

DIMENSIONS						PART NO.
E		H		L		
inch	mm	inch	mm	inch	mm	
0.41	10.4	0.63	16.0	0.08	2.0	AGSSG-2RS
0.54	13.7	0.81	20.6	0.08	2.0	AGSSG-4RS
0.68	17.3	0.94	23.9	0.08	2.0	AGSSG-6RS
0.85	21.6	1.13	28.7	0.10	2.5	AGSSG-8RS
1.06	26.9	1.38	35.1	0.10	2.5	AGSSG-12RS
1.33	33.8	1.69	42.9	0.10	2.5	AGSSG-16RS

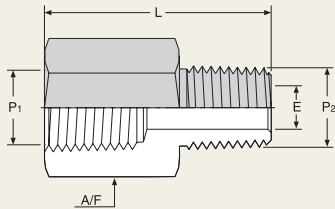
Gasket Consists of a viton inner ring bonded to a stainless steel outer ring.



GAUGE ADAPTER GASKET – GAG

Copper Gasket for AG Gauge Adapters

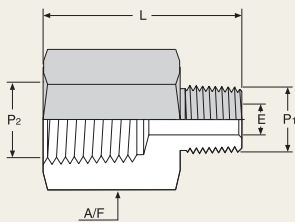
DIMENSIONS						PART NO.
E		H		L		
inch	mm	inch	mm	inch	mm	
0.30	7.6	0.42	10.7	0.07	1.8	GAG-4RG
0.34	8.6	0.56	14.2	0.08	2.0	GAG-6RG
0.36	9.1	0.70	17.8	0.10	2.5	GAG-8RG



GAUGE ADAPTER – AG

Female ISO Parallel (Gauge) to Male NPT Pipe Thread

PIPE SIZE		DIMENSIONS					PRESSURE RATINGS		PART NO.
P ₁ Female BSP	P ₂ Male NPT	E		L		A/F	PSIG	BAR	
		inch	mm	inch	mm				
1/4	1/4	0.22	5.6	1.19	30.2	3/4	5700	388	AG-4RG-4N
3/8	3/8	0.26	6.6	1.27	32.2	15/16	5700	388	AG-6RG-6N
1/2	1/2	0.28	7.1	1.68	42.7	1 1/16	3900	265	AG-8RG-8N



REDUCING ADAPTER – AR

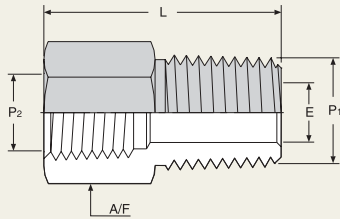
Female to Male NPT Threads

PIPE SIZE		DIMENSIONS					PRESSURE RATINGS		PART NO.
P ₁ Female NPT	P ₂ Male NPT	E		L		A/F	PSIG	BAR	
		inch	mm	inch	mm				
1/4	1/8	0.19	4.8	1.26	32.0	3/4	6600	450	AR-4N-2N
3/8	1/8	0.19	4.8	1.33	33.8	7/8	5300	360	AR-6N-2N
3/8	1/4	0.28	7.1	1.50	38.1	7/8	5300	360	AR-6N-4N
1/2	1/8	0.19	4.8	1.58	40.1	1 1/16	5200	354	AR-8N-2N
1/2	1/4	0.28	7.1	1.76	44.7	1 1/16	5200	354	AR-8N-4N
1/2	3/8	0.38	9.6	1.75	44.4	1 1/16	5200	354	AR-8N-6N
3/4	1/4	0.28	7.1	1.85	47.0	1 5/16	4300	292	AR-12N-4N
3/4	3/8	0.38	9.6	1.82	46.2	1 5/16	4300	292	AR-12N-6N
3/4	1/2	0.47	11.9	2.02	51.3	1 5/16	4300	292	AR-12N-8N
1	1/4	0.28	7.1	1.96	49.8	1 5/8	4500	306	AR-16N-4N
1	1/2	0.47	11.9	2.16	54.9	1 5/8	4500	306	AR-16N-8N
1	3/4	0.62	15.7	2.17	55.1	1 5/8	4500	306	AR-16N-12N

Female to Male ISO Tapered (BSPT) pipe Threads

PIPE SIZE		DIMENSIONS					PRESSURE RATINGS		PART NO.
P ₁ Female BSPT	P ₂ Male BSPT	E		L		A/F	PSIG	BAR	
		inch	mm	inch	mm				
1/4	1/8	0.19	4.8	1.26	32.0	3/4	6600	450	AR-4RT-2RT
3/8	1/4	0.28	7.1	1.50	38.1	7/8	5300	360	AR-6RT-4RT
1/2	1/4	0.28	7.1	1.76	44.7	1 1/16	4900	333	AR-8RT-4RT
1/2	3/8	0.38	9.6	1.75	44.4	1 1/16	4900	333	AR-8RT-6RT

Dimensions are for reference only, and are subject to change without notice.



BUSHING REDUCING – BR

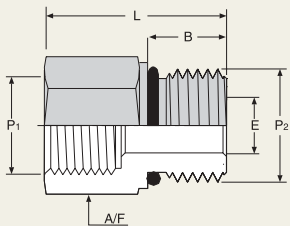
Male to Female NPT Threads

PIPE SIZE		DIMENSIONS					PRESSURE RATINGS		PART NO.
P ₁ -Male NPT	P ₂ -Female NPT	E		L		A/F	PSIG	BAR	
		inch	mm	inch	mm	inch			
1/4	1/8	0.28	7.1	1.06	26.9	9/16	6000	408	BR-4N-2N
3/8	1/8	0.34	8.6	0.86	21.8	11/16	6400	435	BR-6N-2N
3/8	1/4	0.38	9.6	1.19	30.2	3/4	5300	360	BR-6N-4N
1/2	1/8	0.34	8.6	1.08	27.4	7/8	6600	450	BR-8N-2N
1/2	1/4	0.45	11.4	1.08	27.4	7/8	6400	435	BR-8N-4N
1/2	3/8	0.47	11.9	1.41	35.8	7/8	4600	315	BR-8N-6N
3/4	1/4	0.45	11.4	1.08	27.4	1 1/8	6400	435	BR-12N-4N
3/4	3/8	0.59	15.0	1.08	27.4	1 1/8	5300	360	BR-12N-6N
3/4	1/2	0.62	15.7	1.63	41.4	1 1/8	4900	333	BR-12N-8N
1	1/4	0.45	11.4	1.37	34.8	1 3/8	4600	315	BR-16N-4N
1	3/8	0.59	15.0	1.37	34.8	1 3/8	4600	315	BR-16N-6N
1	1/2	0.73	18.5	1.37	34.8	1 3/8	4600	315	BR-16N-8N
1	3/4	0.88	22.4	1.85	47.0	1 3/8	4200	286	BR-16-12N

Male to Female ISO Tapered (BSPT) pipe Threads

PIPE SIZE		DIMENSIONS					PRESSURE RATINGS		PART NO.
P ₁ -Male BSPT	P ₂ -Female BSPT	E		L		A/F	PSIG	BAR	
		inch	mm	inch	mm	inch			
1/4	1/8	0.28	7.1	1.06	26.9	9/16	6000	408	BR-4RT-2RT
3/8	1/4	0.38	9.6	1.19	30.2	3/4	5300	360	BR-6RT-4RT
1/2	1/4	0.44	11.2	1.08	27.4	7/8	6400	435	BR-8RT-4RT
1/2	3/8	0.47	11.9	1.41	35.8	7/8	4600	315	BR-8RT-6RT

➤ Male to Female ISO Parallel (BSP) pipe threads are available on request.

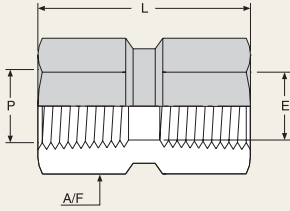


REDUCER – RSAE

Male to Female SAE/MS Straight Threads

PIPE SIZE		DIMENSIONS							O Ring Uniform SIZE	PRESSURE RATINGS		PART NO.
P ₁ Male SAE/MS	P ₂ Female SAE/MS	B		E		L		A/F		PSIG	BAR	
		inch	mm	inch	mm	inch	mm	inch				
9/16-18	7/16-20	0.39	9.9	0.28	7.1	1.22	31.0	15/16	-906	4500	306	RSAE-9-7F
3/4-16	7/16-20	0.44	11.2	0.39	9.9	0.98	24.9	7/8	-908	4500	306	RSAE-12-7F
3/4-16	9/16-18	0.44	11.2	0.42	10.6	1.41	35.8	1	-908	4500	306	RSAE-12-9F
7/8-14	9/16-18	0.50	12.7	0.50	12.7	1.29	32.8	1	-910	3600	245	RSAE-14-9F
7/8-14	3/4-16	0.50	12.7	0.50	12.7	1.56	39.6	1 3/16	-910	3600	245	RSAE-14-12F
1 1/16-12	3/4-16	0.59	15.0	0.66	16.7	1.52	38.6	1 1/4	-912	3600	245	RSAE-17-12F
1 5/16-12	1 1/16-12	0.59	15.0	0.88	22.3	1.94	49.3	1 5/8	-916	2900	198	RSAE-21-17F

'O' ring material is viton
Dimensions are for reference only, and are subject to change without notice.



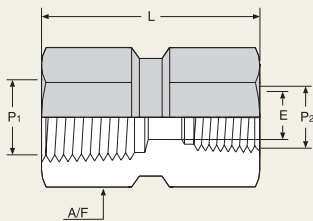
HEX COUPLING – CH

Female NPT Threads

PIPE SIZE	DIMENSIONS					PRESSURE RATINGS		PART NO.
	E		L		A/F	PSIG	BAR	
P-Female NPT	inch	mm	inch	mm	inch			
1/8	0.34	8.6	0.81	20.6	9/16	6400	435	CH-2N
1/4	0.45	11.4	1.19	30.2	3/4	6600	450	CH-4N
3/8	0.59	15.0	1.31	33.3	7/8	5300	360	CH-6N
1/2	0.73	18.5	1.56	39.6	1 ¹ / ₁₆	5200	354	CH-8N
3/4	0.94	23.9	1.62	41.1	1 ⁵ / ₁₆	4300	292	CH-12N
1	1.17	29.7	2.00	50.8	1 ⁵ / ₈	4500	306	CH-16N

Female ISO Tapered (BSPT) pipe Threads

PIPE SIZE	DIMENSIONS					PRESSURE RATINGS		PART NO.
	E		L		A/F	PSIG	BAR	
P-Female BSPT	inch	mm	inch	mm	inch			
1/8	0.33	8.4	0.81	20.6	9/16	6400	435	CH-2RT
1/4	0.44	11.2	1.19	30.2	3/4	6600	450	CH-4RT
3/8	0.58	14.7	1.31	33.3	7/8	5300	360	CH-6RT
1/2	0.72	18.3	1.56	39.6	1 ¹ / ₁₆	5200	354	CH-8RT



HEX REDUCING COUPLING – RHC

Female NPT Threads

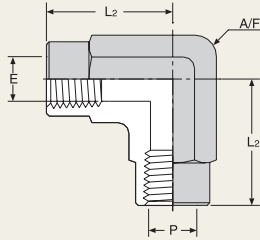
PIPE SIZE		DIMENSIONS					PRESSURE RATINGS		PART NO.
P ₁ Female NPT	P ₂ Female NPT	E		L		A/F	PSIG	BAR	
		inch	mm	inch	mm	inch			
1/4	1/8	0.34	8.6	1.22	31.0	3/4	6600	450	RHC-4N-2N
3/8	1/4	0.45	11.4	1.38	35.1	7/8	5300	360	RHC-6N-4N
1/2	1/8	0.34	8.6	1.56	39.6	1 ¹ / ₁₆	5200	354	RHC-8N-2N
1/2	1/4	0.45	11.4	1.75	44.4	1 ¹ / ₁₆	5200	354	RHC-8N-4N
1/2	3/8	0.59	15.0	1.78	45.2	1 ¹ / ₁₆	5200	354	RHC-8N-6N
3/4	1/4	0.45	11.4	1.81	46.0	1 ⁵ / ₁₆	4300	292	RHC-12N-4N
3/4	3/8	0.59	15.0	1.81	46.0	1 ⁵ / ₁₆	4300	292	RHC-12N-6N
3/4	1/2	0.73	18.5	2.06	52.3	1 ⁵ / ₁₆	4300	292	RHC-12N-8N
1	1/2	0.73	18.5	2.19	55.6	1 ⁵ / ₈	4500	306	RHC-16N-8N
1	3/4	0.94	23.9	2.25	57.2	1 ⁵ / ₈	4500	306	RHC-16N-12N

Female ISO Tapered (BSPT) pipe Threads

PIPE SIZE		DIMENSIONS					PRESSURE RATINGS		PART NO.
P ₁ Female BSPT	P ₂ Female BSPT	E		L		A/F	PSIG	BAR	
		inch	mm	inch	mm	inch			
3/8	1/4	0.44	11.2	1.38	35.1	7/8	5300	360	RHC-6RT-4RT
1/2	1/4	0.44	11.2	1.75	44.4	1 ¹ / ₁₆	4900	333	RHC-8RT-4RT
1/2	3/8	0.58	14.7	1.78	45.2	1 ¹ / ₁₆	4900	333	RHC-8RT-6RT

'O' ring material is viton

Dimensions are for reference only, and are subject to change without notice.



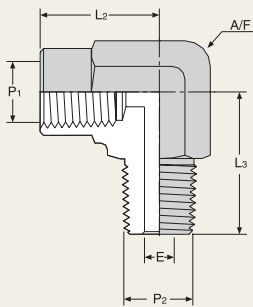
FEMALE ELBOW – EF

Female NPT Threads

PIPE SIZE	DIMENSIONS					PRESSURE RATINGS		PART NO.
	E		L2		A/F	PSIG	BAR	
P-Female NPT	inch	mm	inch	mm	inch			
1/8	0.34	8.6	1.04	26.4	9/16	5500	375	EF-2N
1/4	0.45	11.4	1.17	29.7	3/4	5600	380	EF-4N
3/8	0.59	15.0	1.42	36.1	7/8	5000	340	EF-6N
1/2	0.73	18.5	1.56	39.6	1 1/16	4500	306	EF-8N
3/4	0.94	23.9	1.92	48.8	1 5/16	3500	238	EF-12N
1	1.17	29.7	1.91	48.5	1 5/8	3900	265	EF-16N

Female ISO Tapered (BSPT) pipe Threads

PIPE SIZE	DIMENSIONS					PRESSURE RATINGS		PART NO.
	E		L2		A/F	PSIG	BAR	
P-Female BSPT	inch	mm	inch	mm	inch			
1/4	0.44	11.2	1.17	29.7	3/4	5600	380	EF-4RT
3/8	0.58	14.7	1.42	36.1	7/8	5000	340	EF-6RT
1/2	0.72	18.3	1.56	39.6	1 1/16	4500	306	EF-8RT

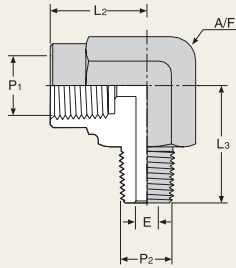


STREET ELBOW – SE

Female to Male NPT Threads

PIPE SIZE		DIMENSIONS							PRESSURE RATINGS		PART NO.
P ₁	P ₂	E		L2		L3		A/F	PSIG	BAR	
Female NPT	Male NPT	inch	mm	inch	mm	inch	mm	inch			
1/8	1/8	0.19	4.8	1.04	26.4	0.87	22.1	9/16	5500	375	SE-2N
1/4	1/4	0.28	7.1	1.17	29.7	1.17	29.7	3/4	5600	380	SE-4N
3/8	3/8	0.38	9.6	1.42	36.1	1.26	32.0	7/8	5600	380	SE-6N
1/2	1/2	0.47	11.9	1.56	39.6	1.56	39.6	1 1/16	4500	306	SE-8N
3/4	3/4	0.62	15.7	1.92	48.8	1.67	42.4	1 5/16	3500	238	SE-12N
1	1	0.88	22.4	1.91	48.5	1.94	49.3	1 5/8	3900	265	SE-16N

► Female to Male ISO Tapered (BSPT) pipe threads are available on request.

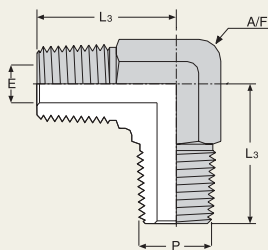


REDUCING STREET ELBOW – RSE

Female to Male NPT Threads

PIPE SIZE		DIMENSIONS							PRESSURE RATINGS		PART NO.
P ₁ Female NPT	P ₂ Male NPT	E		L2		L3		A/F	PSIG	BAR	
1/4	1/8	0.19	4.8	1.17	29.7	1.00	25.4	3/4	5500	375	RSE-4N-2N
3/8	1/4	0.28	7.1	1.42	36.1	1.26	32.0	7/8	5500	375	RSE-6N-4N
1/2	1/4	0.28	7.1	1.56	39.6	1.38	35.1	1 ¹ / ₁₆	4500	306	RSE-8N-4N
1/2	3/8	0.38	9.6	1.56	39.6	1.38	35.1	1 ¹ / ₁₆	4500	306	RSE-8N-6N

► Female to Male ISO Tapered (BSPT) Pipe threads are available on request.



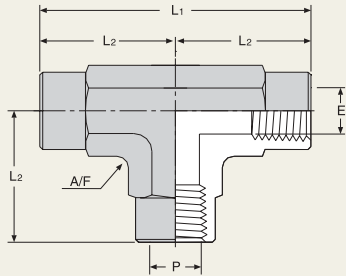
MALE ELBOW – EM

Male NPT Threads

PIPE SIZE	DIMENSIONS					PRESSURE RATINGS		PART NO.	
	P-Male NPT	E		L3		A/F	PSIG		BAR
1/8		0.19	4.8	0.88	22.4	7/16	9100	620	EM-2N
1/4		0.28	7.1	1.05	26.7	9/16	7500	510	EM-4N
3/8		0.38	9.6	1.17	29.7	11/16	7200	490	EM-6N
1/2		0.47	11.9	1.45	36.8	7/8	5800	395	EM-8N
3/4		0.62	15.7	1.45	36.8	1 ¹ / ₈	6400	438	EM-12N
1		0.88	22.4	1.97	50.0	1 ⁵ / ₁₆	4600	315	EM-16N

► Male ISO Tapered (BSPT) pipe threads are available on request.

Dimensions are for reference only, and are subject to change without notice.



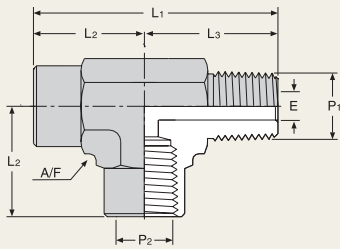
FEMALE TEE – FT

Female NPT Threads

PIPE SIZE	DIMENSIONS							PRESSURE RATINGS		PART NO.
	E		L1		L2		A/F	PSIG	BAR	
P-Female NPT	inch	mm	inch	mm	inch	mm	inch			
1/8	0.34	8.6	2.08	52.8	1.04	26.4	9/16	5500	375	FT-2N
1/4	0.45	11.4	2.34	59.4	1.17	29.7	3/4	5600	380	FT-4N
3/8	0.59	15.0	2.84	72.1	1.42	36.1	7/8	5000	340	FT-6N
1/2	0.73	18.5	3.12	79.2	1.56	39.6	1 1/16	4500	306	FT-8N
3/4	0.94	23.9	3.84	97.5	1.92	48.8	1 5/16	3500	238	FT-12N
1	1.17	29.7	3.82	97.0	1.91	48.5	1 5/8	3900	265	FT-16N

Female ISO Tapered (BSPT) pipe Threads

PIPE SIZE	DIMENSIONS							PRESSURE RATINGS		PART NO.
	E		L1		L2		A/F	PSIG	BAR	
P-Female BSPT	inch	mm	inch	mm	inch	mm	inch			
1/4	0.44	11.2	2.34	59.4	1.17	29.7	3/4	5600	380	FT-4RT
3/8	0.58	14.7	2.84	72.1	1.42	36.1	7/8	5000	340	FT-6RT
1/2	0.72	18.3	3.12	79.2	1.56	39.6	1 1/16	4500	306	FT-8RT



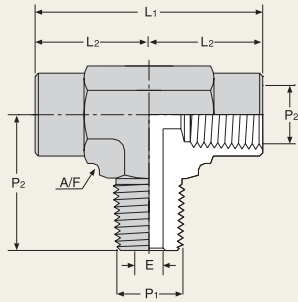
STREET TEE – ST

Female and Male NPT Threads

PIPE SIZE		DIMENSIONS									PRESSURE RATINGS		PART NO.
P ₁ Male NPT	P ₂ Female NPT	E		L1		L2		L3		A/F	PSIG	BAR	
		inch	mm	inch	mm	inch	mm	inch	mm	inch			
1/8	1/8	0.19	4.8	1.91	48.5	1.04	26.4	0.87	22.1	9/16	5500	375	ST-2N
1/4	1/4	0.28	7.1	2.34	59.4	1.17	29.7	1.17	29.7	3/4	5600	380	ST-4N
3/8	3/8	0.38	9.6	2.68	68.1	1.42	36.1	1.26	32.0	7/8	5000	340	ST-6N
1/2	1/2	0.47	11.9	3.12	79.2	1.56	39.6	1.56	39.6	1 1/16	4500	306	ST-8N

► Female and Male ISO Tapered (BSPT) Pipe threads are available on request.

Dimensions are for reference only, and are subject to change without notice.

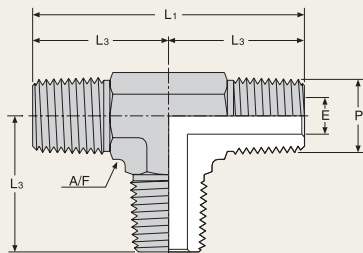


BRANCH TEE – BT

Female and Male NPT Threads

PIPE SIZE		DIMENSIONS									PRESSURE RATINGS		PART NO.
P ₁ Male NPT	P ₂ Female NPT	E		L1		L2		L3		A/F	PSIG	BAR	
		inch	mm	inch	mm	inch	mm	inch	mm	inch			
1/8	1/8	0.19	4.8	2.08	52.8	1.04	26.4	0.87	22.1	9/16	5500	374	BT-2N
1/4	1/4	0.28	7.1	2.34	59.4	1.17	29.7	1.17	29.7	3/4	5600	380	BT-4N
3/8	3/8	0.38	9.6	2.84	72.1	1.42	36.1	1.26	32.0	7/8	5000	340	BT-6N
1/2	1/2	0.47	11.9	3.12	79.2	1.56	39.6	1.56	39.6	1 1/16	4500	306	BT-8N

► Female and Male ISO Tapered (BSPT) Pipe threads are available on request.

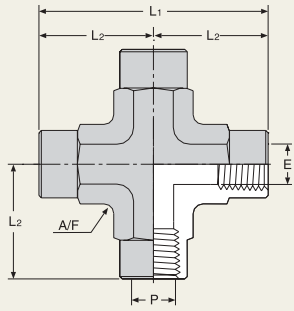


MALE TEE – MT

Male NPT Threads

PIPE SIZE	DIMENSIONS							PRESSURE RATINGS		PART NO.
	E		L1		L3		A/F	PSIG	BAR	
P-Male NPT	inch	mm	inch	mm	inch	mm	inch			
1/8	0.19	4.8	1.76	44.7	0.88	22.4	7/16	9700	660	MT-2N
1/4	0.28	7.1	2.10	53.4	1.05	26.7	9/16	8000	544	MT-4N
3/8	0.38	9.6	2.34	59.4	1.17	29.7	11/16	7600	517	MT-6N
1/2	0.47	11.9	2.78	70.6	1.39	35.3	7/8	6200	422	MT-8N
3/4	0.62	15.7	2.90	73.6	1.45	36.8	1 1/8	6800	462	MT-12N
1	0.88	22.4	3.94	100.0	1.97	50.0	1 5/16	4900	333	MT-16N

► Male ISO Tapered (BSPT) pipe threads are available on request.

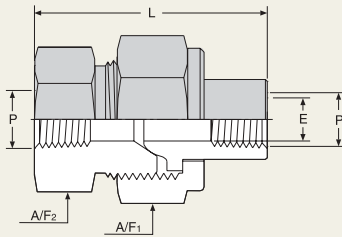


FEMALE CROSS – CF

Female NPT Threads

PIPE SIZE	DIMENSIONS						PRESSURE RATINGS		PART NO.	
	E		L1		L2		A/F			
	inch	mm	inch	mm	inch	mm	inch	PSIG		BAR
1/8	0.34	8.6	2.08	52.8	1.04	26.4	9/16	5500	375	CF-2N
1/4	0.45	11.4	2.34	59.4	1.17	29.7	3/4	5600	380	CF-4N
3/8	0.59	15.0	2.84	72.1	1.42	36.1	7/8	5000	340	CF-6N
1/2	0.73	18.5	3.12	79.2	1.56	39.6	1 1/16	4500	306	CF-8N
3/4	0.94	23.9	3.84	97.5	1.92	48.8	1 5/16	3500	238	CF-12N
1	1.17	29.7	3.82	97.0	1.91	48.5	1 5/8	3900	265	CF-16N

► Female ISO Tapered (BSPT) pipe threads are available on request.



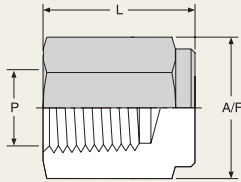
UNION BALL JOINT – UBJ

Female NPT Threads

PIPE SIZE	DIMENSIONS				PRESSURE RATINGS		PART NO.		
	E		L		A/F1 A/F2				
	inch	mm	inch	mm	inch	inch		PSIG	BAR
1/8	0.27	6.8	1.81	46.0	1 1/8	1 5/16	8400	572	UBJ-2N
1/4	0.36	9.1	2.34	59.4	1 3/8	1 3/16	6600	450	UBJ-4N
3/8	0.52	13.2	2.50	63.5	1 1/2	1 5/16	5300	360	UBJ-6N
1/2	0.62	15.7	2.69	68.3	1 3/4	1 5/8	6000	408	UBJ-8N
3/4	0.88	22.4	3.12	79.2	2 1/8	1 7/8	4600	313	UBJ-12N
1	1.03	26.2	3.56	90.4	2 1/2	2 3/8	6800	462	UBJ-16N

Nuts of Union Ball Joints are silver plated, A Lubricant is utilized for Assembly.

► Female ISO Tapered (BSPT) pipe threads are available on request.

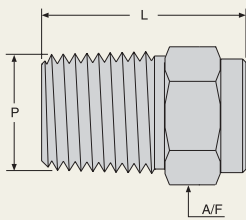


PIPE CAP – CP

Female NPT Threads

PIPE SIZE	DIMENSIONS			PRESSURE RATINGS		PART NO.
	L		A/F	PSIG	BAR	
	inch	mm	inch			
1/8	0.75	19.1	9/16	6400	435	CP-2N
1/4	0.91	23.1	3/4	6600	450	CP-4N
3/8	1.03	26.2	7/8	5300	360	CP-6N
1/2	1.34	34.0	1 ¹ / ₁₆	5200	354	CP-8N
3/4	1.44	36.6	1 ⁵ / ₁₆	4300	292	CP-12N
1	1.62	41.1	1 ⁵ / ₈	4500	306	CP-16N

➤ Female ISO Tapered (BSPT) pipe threads are available on request.

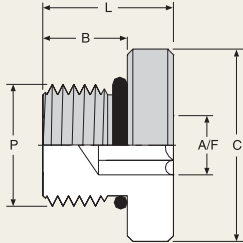


PIPE PLUG – PP

Male NPT Threads

PIPE SIZE	DIMENSIONS			PRESSURE RATINGS		PART NO.
	L		A/F	PSIG	BAR	
	inch	mm	inch			
1/8	0.75	19.1	7/16	9700	660	PP-2N
1/4	0.96	24.4	9/16	8000	544	PP-4N
3/8	0.99	25.1	11/16	7600	517	PP-6N
1/2	1.21	30.7	7/8	7000	477	PP-8N
3/4	1.21	30.7	1 ¹ / ₁₆	6800	463	PP-12N
1	1.50	38.1	1 ³ / ₈	4900	333	PP-16N

➤ Male ISO Tapered (BSPT) pipe threads are available on request.



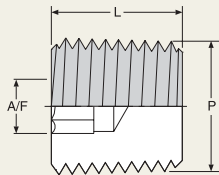
HOLLOW HEX PLUG – HHPST

Male SAE/MS Straight Threads

PIPE SIZE P-Male SAE/MS	DIMENSIONS						'O' Ring Uniform Size	PART NO.
	B		C		L			
	inch	mm	inch	mm	inch	mm	inch	
7/16-20	0.36	9.1	0.56	14.2	0.45	11.4	3/16	HHPST-7SAE
9/16-18	0.39	9.9	0.69	17.5	0.48	12.2	1/4	HHPST-9SAE
3/4-16	0.44	11.2	0.88	22.4	0.56	14.2	5/16	HHPST-12SAE
1 1/16-12	0.59	15.0	1.25	31.8	0.75	19.1	9/16	HHPST-17SAE
1 5/16-12	0.59	15.0	1.50	38.1	0.75	19.1	5/8	HHPST-21SAE

'O' ring material is viton

► Male ISO Parallel (BSP) pipe threads according to DIN 3852 part 2, Form E are available on request.



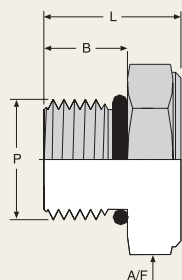
HOLLOW HEX PLUG – HHP

Male NPT Threads

PIPE SIZE P-Male NPT	DIMENSIONS			PART NO.
	L		A/F	
	inch	mm	inch	
1/8	0.41	10.4	3/16	HHP-2N
1/4	0.59	15.0	1/4	HHP-4N
3/8	0.59	15.0	5/16	HHP-6N
1/2	0.76	19.3	3/8	HHP-8N

Male ISO Tapered (BSPT) Pipe Threads

PIPE SIZE P-Male BSPT	DIMENSIONS			PART NO.
	L		A/F	
	inch	mm	inch	
1/8	0.41	10.4	3/16	HHP-2RT
1/4	0.59	15.0	1/4	HHP-4RT
3/8	0.59	15.0	5/16	HHP-6RT
1/2	0.76	19.3	3/8	HHP-8RT



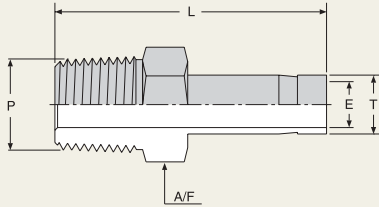
HEX HEAD PLUG – HPSAE

Male SAE/MS Straight Threads

PIPE SIZE P-Male SAE/MS	DIMENSIONS					'O' Ring Uniform Size	PART NO.
	B		L		A/F		
	inch	mm	inch	mm	inch		
7/16-20	0.36	9.1	0.76	19.3	9/16	-904	HPSAE-7
9/16-18	0.39	9.9	0.82	20.8	11/16	-906	HPSAE-9
3/4-16	0.44	11.2	0.89	22.6	7/8	-908	HPSAE-12
1 1/16-12	0.59	15.0	1.12	28.4	1.1/4	-912	HPSAE-17
1 5/16-12	0.59	15.0	1.18	30.0	1.1/2	-916	HPSAE-21

'O' ring material is viton

Dimensions are for reference only, and are subject to change without notice.



MALE ADAPTER – MA

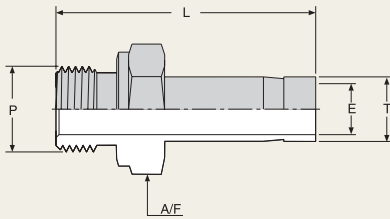
Male NPT Threads to Tube Ends

T TUBE OD		P-NPT MALE PIPE	DIMENSIONS					PART NO.	
mm	inch		E		L		A / F	metric	inch
-	1/8	1/8	0.08	2.0	1.16	29.5	7/16	-	MA-2-2N
-	1/8	1/4	0.08	2.0	1.37	34.8	9/16	-	MA-2-4N
-	3/16	1/8	0.12	3.0	1.19	30.2	7/16	-	MA-3-2N
-	3/16	1/4	0.12	3.0	1.40	35.5	9/16	-	MA-3-4N
6	1/4	1/8	0.17	4.1	1.25	32.8	7/16	MA-6M-2N	MA-4-2N
6	1/4	1/4	0.17	4.1	1.46	38.1	9/16	MA-6M-4N	MA-4-4N
-	1/4	3/8	0.17	4.3	1.49	37.8	11/16	-	MA-4-6N
-	1/4	1/2	0.17	4.3	1.71	43.4	7/8	-	MA-4-8-N
-	5/16	1/8	0.19	4.8	1.29	32.7	7/16	-	MA-5-2-N
8	5/16	1/4	0.22	5.6	1.50	39.1	9/16	MA-8M-4N	MA-5-4N
-	3/8	1/8	0.19	4.8	1.32	33.5	7/16	-	MA-6-2N
10	3/8	1/4	0.27	6.9	1.53	39.9	9/16	MA-10M-4N	MA-6-4N
10	3/8	3/8	0.27	6.9	1.56	40.6	11/16	MA-10M-6N	MA-6-6N
10	3/8	1/2	0.27	6.9	1.78	45.2	7/8	MA-10M-8N	MA-6-8N
12	1/2	1/4	0.28	7.1	1.75	46.5	9/16	MA-12M-4N	MA-8-4N
-	1/2	3/8	0.37	9.4	1.78	45.2	11/16	-	MA-8-6N
12	1/2	1/2	0.37	9.4	2.00	52.1	7/8	MA-12M-8N	MA-8-8N
-	5/8	1/2	0.47	11.9	2.06	52.3	7/8	-	MA-10-8N
-	3/4	1/2	0.47	11.9	2.06	52.3	7/8	-	MA-12-8N
-	3/4	3/4	0.58	14.7	2.06	52.3	1 1/8	-	MA-12-12N
-	1	3/4	0.62	15.7	2.31	58.6	1 1/8	-	MA-16-12N
-	1	1	0.80	20.3	2.60	66.0	1 3/8	-	MA-16-16N

Male ISO Tapered (BSPT) Pipe Threads to Tube Ends

T TUBE OD		P-BSPT MALE PIPE	DIMENSIONS					PART NO.	
mm	inch		E		L		A / F	metric	inch
-	1/8	1/8	0.08	2.0	1.16	29.5	7/16	-	MA-2-2RT
-	1/8	1/4	0.08	2.0	1.37	34.8	9/16	-	MA-2-4RT
6	1/4	1/8	0.17	4.1	1.25	32.8	7/16	MA-6M-2RT	MA-4-2RT
6	1/4	1/4	0.17	4.1	1.46	38.1	9/16	MA-6M-4RT	MA-4-4RT
8	-	1/4	0.22	5.6	1.50	39.1	9/16	MA-8M-4RT	-
10	3/8	1/4	0.27	6.9	1.53	39.9	9/16	MA-10M-4RT	MA-6-4RT
10	3/8	3/8	0.27	6.9	1.56	40.6	11/16	MA-10M-6RT	MA-6-6RT
-	3/8	1/2	0.27	6.9	1.78	45.2	7/8	-	MA-6-8RT
12	1/2	1/4	0.28	7.1	1.75	46.5	9/16	MA-12M-4RT	MA-8-4RT
12	1/2	3/8	0.37	9.4	1.78	45.2	11/16	MA-12M-6RT	MA-8-6RT
12	1/2	1/2	0.37	9.4	2.00	50.8	7/8	MA-12M-8RT	MA-8-8RT
-	3/4	3/4	0.58	14.7	2.06	52.3	1 1/8	-	MA-12-12RT
-	1	1	0.80	20.3	2.60	66.0	1 3/8	-	MA-16-16RT

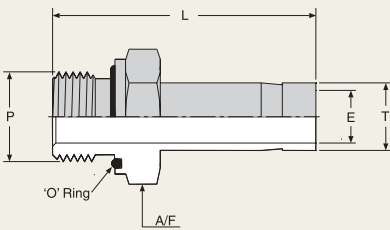
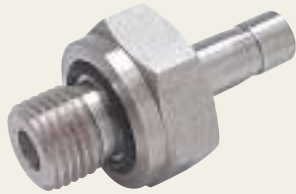
Dimensions are for reference only, and are subject to change without notice.



MALE ADAPTER – MA

Male ISO Parallel (BSP) pipe threads (according to DIN 3852 part 2 Form B) to Tube End.

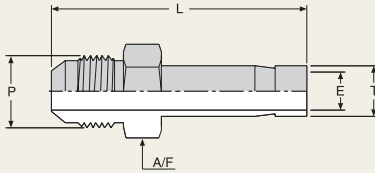
T TUBE OD		P-ISO MALE PIPE size	DIMENSIONS				PART NO.		
mm	inch		E		L		A / F		
mm	inch	inch	mm	inch	mm	inch	metric	inch	
-	1/8	1/8	0.08	2.0	1.22	31.0	9/16	-	MA-2-2RP
-	1/8	1/4	0.08	2.0	1.41	35.8	3/4	-	MA-2-4RP
6	1/4	1/8	0.16	4.0	1.31	34.3	9/16	MA-6M-2RP	MA-4-2RP
6	1/4	1/4	0.17	4.1	1.50	38.1	3/4	MA-6M-4RP	MA-4-4RP
8	-	1/4	0.22	5.6	1.57	39.8	3/4	MA-8M-4RP	-
10	3/8	1/4	0.23	5.9	1.57	39.8	3/4	MA-10M-4RP	MA-6-4RP
10	3/8	3/8	0.27	6.9	1.60	40.6	7/8	MA-10M-6RP	MA-6-6RP
10	-	1/2	0.28	7.1	1.76	44.7	1 1/16	MA-10M-8RP	-
12	1/2	1/4	0.23	5.9	1.79	45.4	3/4	MA-12M-4RP	MA-8-4RP
12	1/2	3/8	0.31	7.9	1.82	46.2	7/8	MA-12M-6RP	MA-8-6RP
12	1/2	1/2	0.34	8.8	1.94	49.2	1 1/16	MA-12M-8RP	MA-8-8RP
18	-	1/2	0.46	11.9	2.05	52.1	1 1/16	MA-18M-8RP	-
18	3/4	3/4	0.54	13.9	2.16	54.8	1 3/8	MA-18M-12RP	MA-12-12RP
-	1	1	0.80	20.3	2.54	64.5	1 5/8	-	MA-16-16-RP



Male ISO Parallel (BSP) pipe threads (according to DIN 3852 part 2 Form E) to Tube End.

T TUBE OD		P-ISO MALE PIPE size	DIMENSIONS				PART NO.		
mm	inch		E		L		A / F		
mm	inch	inch	mm	inch	mm	inch	metric	inch	
-	1/8	1/8	0.08	2.0	1.22	31.0	9/16	-	MA-2-2EO
-	1/8	1/4	0.08	2.0	1.41	35.8	11/16	-	MA-2-4EO
6	1/4	1/8	0.16	4.0	1.31	34.3	9/16	MA-6M-2EO	MA-4-2EO
6	1/4	1/4	0.17	4.1	1.50	38.1	11/16	MA-6M-4EO	MA-4-4EO
8	-	1/4	0.22	5.6	1.57	39.8	11/16	MA-8M-4EO	-
10	3/8	1/4	0.23	5.9	1.57	39.8	11/16	MA-10M-4EO	MA-6-4EO
10	3/8	3/8	0.27	6.9	1.60	40.6	13/16	MA-10M-6EO	MA-6-6EO
10	-	1/2	0.28	7.1	1.76	44.7	1 1/16	MA-10M-8EO	-
12	1/2	1/4	0.23	5.9	1.79	45.4	11/16	MA-12M-4EO	MA-8-4EO
12	1/2	3/8	0.31	7.9	1.82	46.2	13/16	MA-12M-6EO	MA-8-6EO
12	1/2	1/2	0.34	8.8	1.94	49.2	1 1/16	MA-12M-8EO	MA-8-8EO
18	-	1/2	0.46	11.9	2.05	52.1	1 1/16	MA-18M-8EO	-
18	3/4	3/4	0.54	13.9	2.16	54.8	1 1/4	MA-18M-12EO	MA-12-12EO
-	1	1	0.80	20.3	2.54	64.5	1 5/8	-	MA-16-16EO

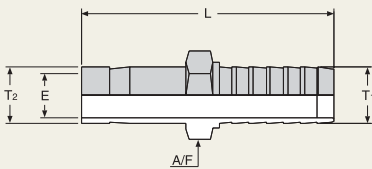
'O' ring material is viton



AN MALE ADAPTER – NMA

AN MALE ADAPTERS to Tube Ends

T TUBE OD	P-AN TUBE FLARE	DIMENSIONS					THREAD SIZE	PART NO.
		E		L		A / F		
inch	Size	inch	mm	inch	mm	inch		
1/4	1/4	0.17	4.3	1.46	37.1	1/2	7/16x20	NMA-4-4AN
3/8	1/4	0.17	4.3	1.53	38.9	1/2	7/16x20	NMA-6-4AN
3/8	3/8	0.27	6.9	1.56	39.6	5/8	9/16x18	NMA-6-6AN
1/2	1/2	0.37	9.4	1.91	48.5	13/16	3/4x16	NMA-8-8AN
3/4	3/4	0.58	14.7	2.21	56.1	1 1/8	1 1/16x12	NMA-12-12AN
1	1	0.80	20.3	2.58	65.5	1 3/8	1 5/16x12	NMA-16-16AN

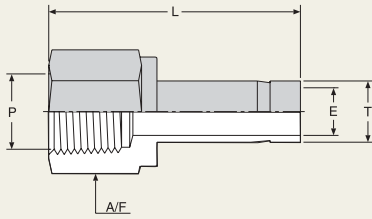


TUBE TO HOSE CONNECTOR – THC

Barb End to Tube End

T ₁ HOSE I.D.	T ₂ TUBE OD	DIMENSIONS					PART NO.
		E		L		A / F	
inch	size	inch	mm	inch	mm	inch	
1/8	1/8	0.08	2.0	1.35	34.3	5/16	THC-2-2
1/8	1/4	0.08	2.0	1.44	36.6	3/8	THC-2-4
1/4	1/4	0.19	4.8	1.83	46.5	7/16	THC-4-4
1/4	3/8	0.19	4.8	1.90	48.3	7/16	THC-4-6
5/16	1/4	0.19	4.8	1.91	48.5	7/16	THC-5-4
3/8	3/8	0.30	7.6	1.98	50.3	9/16	THC-6-6
3/8	1/2	0.30	7.6	2.20	55.9	5/8	THC-6-8
1/2	3/8	0.38	9.7	2.05	52.1	11/16	THC-8-6
1/2	1/2	0.38	9.7	2.27	57.7	11/16	THC-8-8
3/4	3/4	0.63	16.0	2.44	62.0	7/8	THC-12-12

Dimensions are for reference only, and are subject to change without notice.



FEMALE ADAPTER – FA

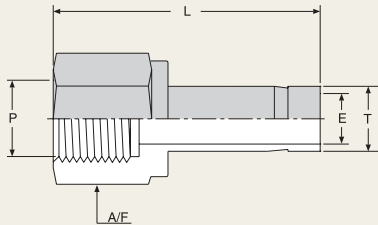
Female NPT Threads to Tube End

T TUBE OD		P-NPT FEMALE PIPE size	DIMENSIONS					PART NO.	
mm	inch		E		L		A / F	metric	inch
-	1/8	1/8	0.08	2.0	1.24	31.5	9/16	-	FA-2-2N
-	1/8	1/4	0.08	2.0	1.39	35.3	3/4	-	FA-2-4N
-	3/16	1/4	0.12	3.0	1.41	35.8	3/4	-	FA-3-4N
6	1/4	1/8	0.17	4.1	1.30	33.0	9/16	FA-6M-2N	FA-4-2N
6	1/4	1/4	0.17	4.1	1.46	37.1	3/4	FA-6M-4N	FA-4-4N
-	1/4	3/8	0.17	4.1	1.55	39.4	7/8	-	FA-4-6N
-	1/4	1/2	0.17	4.1	1.79	45.5	1 1/16	-	FA-4-8N
8	5/16	1/4	0.22	5.6	1.48	37.6	3/4	FA-8M-4N	FA-5-4N
-	3/8	1/8	0.27	6.9	1.35	34.3	9/16	-	FA-6-2N
10	3/8	1/4	0.27	6.9	1.50	38.1	3/4	FA-10M-4N	FA-6-4N
10	3/8	3/8	0.27	6.9	1.59	40.4	7/8	FA-10M-6N	FA-6-6N
10	3/8	1/2	0.27	6.9	1.84	46.7	1 1/16	FA-10M-8N	FA-6-8N
12	1/2	1/4	0.34	8.8	1.71	43.7	3/4	FA-12M-8N	FA-8-4N
-	1/2	3/8	0.37	9.4	1.79	45.5	7/8	-	FA-8-6N
12	1/2	1/2	0.34	8.8	2.05	52.3	1 1/16	FA-12M-8N	FA-8-8N
-	5/8	1/2	0.47	11.9	2.09	53.1	1 1/16	-	FA-10-8N
-	3/4	1/2	0.58	14.7	2.08	52.8	1 1/16	-	FA-12-8N
-	3/4	3/4	0.58	14.7	2.16	54.9	1 3/8	-	FA-12-12N
-	3/4	1	0.58	14.7	2.30	58.4	1 5/8	-	FA-12-16N
-	1	3/4	0.80	20.3	2.39	60.7	1 3/8	-	FA-16-12N
-	1	1	0.80	20.3	2.53	64.2	1 5/8	-	FA-16-16N

Female ISO Tapered(BSPT) pipe threads to Tube End

T TUBE OD		P-BSPT FEMALE PIPE size	DIMENSIONS					PART NO.	
mm	inch		E		L		A / F	metric	inch
6	1/4	1/8	0.17	4.1	1.30	33.0	9/16	FA-6M-2RT	FA-4-2RT
-	1/4	1/4	0.17	4.1	1.46	37.1	3/4	-	FA-4-4RT
10	3/8	1/4	0.27	6.9	1.50	38.1	3/4	FA-10M-4RT	FA-6-4RT
-	3/8	3/8	0.27	6.9	1.59	40.4	7/8	-	FA-6-6RT
-	1/2	1/4	0.34	8.8	1.71	43.7	3/4	-	FA-8-4RT
-	1/2	3/8	0.37	9.4	1.79	45.5	7/8	-	FA-8-6RT
-	1/2	1/2	0.34	8.8	2.05	52.3	1 1/16	-	FA-8-8RT

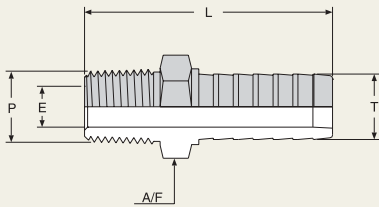
Dimensions are for reference only, and are subject to change without notice.



FEMALE ADAPTER – FA

Female ISO Parallel (BSP) pipe threads to Tube End

T TUBE OD		P-ISO FEMALE PIPE size	DIMENSIONS				PART NO.		
mm	inch		E		L		A / F		
			inch	mm	inch	mm	inch	metric	inch
6	1/4	1/4	0.16	4.1	1.39	35.3	3/4	FA-6M-4RG	FA-4-4RG
6	-	3/8	0.16	4.1	1.51	38.4	15/16	FA-6M-6RG	-
6	-	1/2	0.16	4.1	1.68	42.9	1 1/16	FA-6M-8RG	-
8	-	1/4	0.21	5.5	1.30	33.0	3/4	FA-8M-4RG	-
8	-	1/2	0.22	5.6	1.72	43.7	1 1/16	FA-8M-8RG	-
10	-	1/4	0.21	5.5	1.36	34.5	3/4	FA-10M-4RG	-
-	3/8	3/8	0.26	6.6	1.55	39.4	15/16	-	FA-6-6RG
10	-	1/2	0.27	7.1	1.62	41.1	1 1/16	FA-10M-8RG	-
12	-	1/4	0.21	5.5	1.58	40.1	3/4	FA-12M-4RG	-
12	1/2	1/2	0.27	7.1	1.92	48.8	1 1/16	FA-12M-8RG	FA-8-8RG
16	-	1/2	0.27	7.1	1.93	49.0	1 1/16	FA-16M-8RG	-
18	-	1/2	0.27	7.1	1.94	49.3	1 1/16	FA-18M-8RG	-



MALE HOSE CONNECTOR - MHC

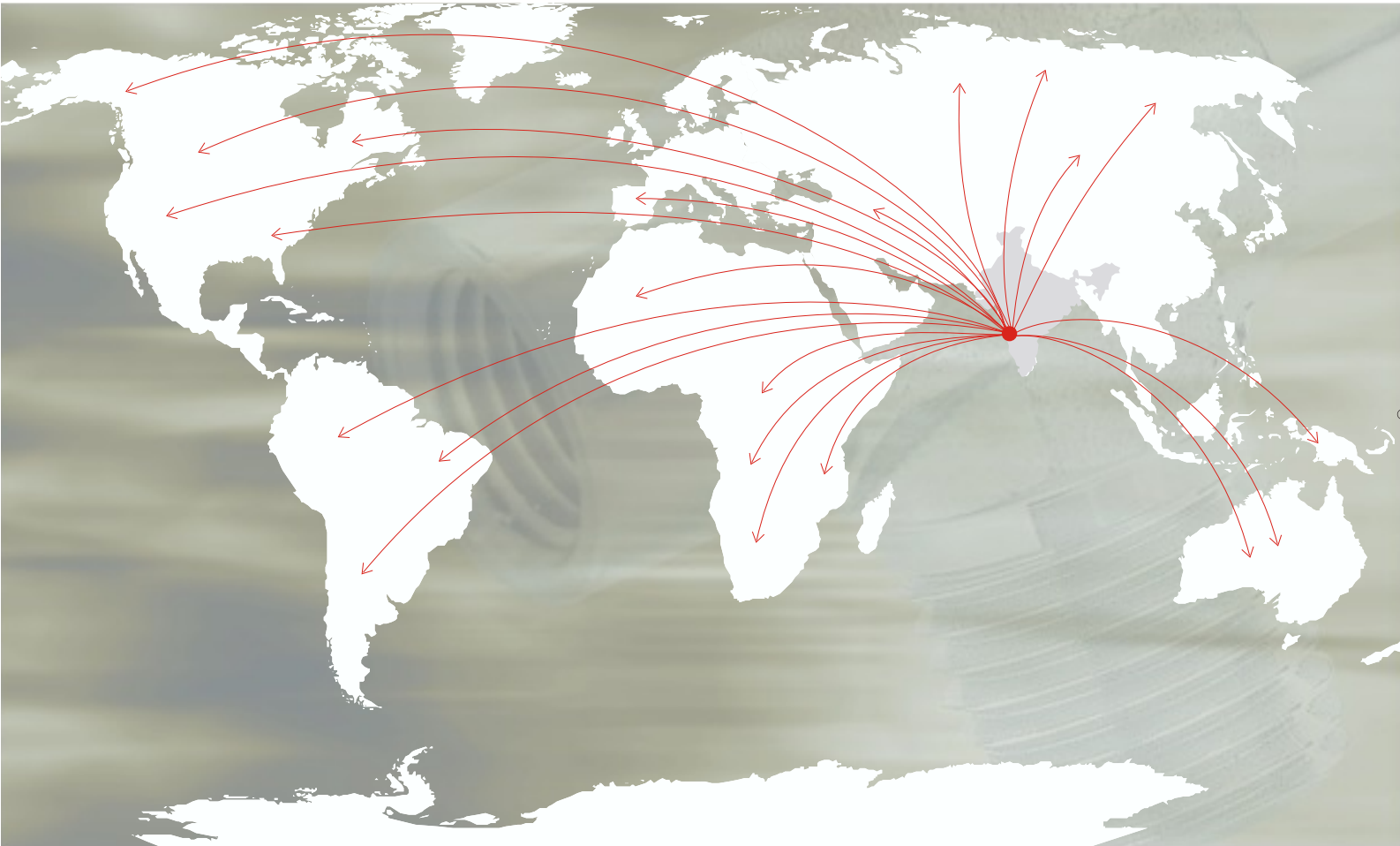
Barb End to Male NPT

T-HOSE I.D.	P-NPT MALE PIPE size	DIMENSIONS				PART NO.
		E		L		
inch		inch	mm	inch	mm	inch
1/8	1/8	0.08	2.0	1.08	27.4	7/16
1/8	1/4	0.08	2.0	1.26	32.0	9/16
3/16	1/8	0.12	3.0	1.27	32.3	7/16
3/16	1/4	0.12	3.0	1.45	36.8	9/16
1/4	1/8	0.19	4.8	1.47	37.3	7/16
1/4	1/4	0.19	4.8	1.65	41.9	9/16
1/4	3/8	0.19	4.8	1.66	42.2	11/16
1/4	1/2	0.19	4.8	1.85	47.0	7/8
5/16	1/8	0.19	4.8	1.55	39.4	7/16
5/16	1/4	0.19	4.8	1.73	43.9	9/16
5/16	3/8	0.19	4.8	1.74	44.2	11/16
5/16	1/2	0.19	4.8	1.96	49.8	7/8
3/8	1/4	0.30	7.6	1.73	43.9	9/16
3/8	3/8	0.30	7.6	1.74	44.2	11/16
3/8	1/2	0.30	7.6	1.96	49.8	7/8
1/2	1/4	0.37	9.5	1.80	45.7	11/16
1/2	3/8	0.37	9.5	1.81	46.0	11/16
1/2	1/2	0.37	9.5	2.03	51.6	7/8
5/8	1/2	0.47	11.9	2.07	52.6	7/8
5/8	3/4	0.50	12.7	2.07	52.6	1 1/8
3/4	1/2	0.63	16.0	2.14	54.4	7/8
3/4	3/4	0.63	16.0	2.14	54.4	1 1/8
3/4	1	0.63	16.0	2.43	61.7	1 3/8
1	3/4	0.88	22.4	2.38	60.5	1 1/8
1	1	0.88	22.4	2.57	65.3	1 3/8

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