



**SUPER  
ENGINEERING  
WORKS**

**INSTRUMENTATION FITTINGS & VALVES**

## **PRECISION PIPE FITTINGS**



[www.superenggworks.com](http://www.superenggworks.com)

AN ISO 9001:2015 CERTIFIED COMPANY

## Introduction

**SUPER ENGINEERING WORKS** an **ISO 9001:2015** Certified Company engaged in the business of manufacturing and marketing of high quality instrumentation products such as:-

- Double Ferrule Compression Tube Fittings
- Industrial Valves
- Precision Pipe Fittings
- Flare Fittings

**SUPER ENGINEERING WORKS** manufactures all the above product to a very precise tolerance under a strict supervision which are tested at normal and extreme condition to withstand the high performance demands such as high pressure, vacuum, vibration, impulse and temperature being used for Chemical, Petrochemicals, Fertilizers, Pharmaceuticals, Marine, Power as well as other major industries.

## MANUFACTURING FACILITY

**SUPER ENGINEERING WORKS** has inhouse manufacturing facilities with modern precision machineries, instruments, gauges and skilled workforce with total commitment to meet and fulfill the increasing demands and requirements of our customers.

## QUALITY POLICY

**SUPER ENGINEERING WORKS** endeavour to satisfy our customer through prompt supply of quality products. We do so through periodic revieTCs and continuously improving the products, process and systems.

## OUR AIM

**SUPER ENGINEERING WORKS** aims to be the benchmark setter in the industry by providing high standard quality products with total customer's satisfaction.

ISO  
CERTIFICATE



## GENERAL & TECHNICAL INFORMATION

**SUPER ENGINEERING WORKS** Precision Pipe Fitting consist of precision components. These Components are manufactured to a very precise dimensional tolerances to provide Zero leak, Torque free seal at all tubing connection to with stand the high performance demand such as high pressure, vacuum, vibration, impulse and temperature.

**SUPER ENGINEERING WORKS** Precision Pipe Fitting are manufactured invarious materials such as S.S.316, S.S.316 L, S.S.304, Brass, Monel etc.

End Connections: NPT, BSP, BSPT, etc.

Size Range:

Fractional Size : 1/8" Tube OD to 1" Tube OD

Metric Size : 3mm Tube OD to 25mm Tube OD

### Thread Specification

PIPE THREADS	REFERENCE SPECIFICATIONS	DESIGNATION
American National Pipe Thread - NPT	ANSI B 1.20.1	N
ISO Parallel Pipe Thread - BSP	BS2779, ISO 228/1, JISB0202	RP
IOS Taper Pipe Thread - BSPT	BS 21, ISO 7/1, JIS B0203, DIN 2999	RT
Unified National Pipe Thread - UNF	ASME B1.1	SE

### Plating & Coating

Fitting Material	Body Process
Aluminium	Anodized, Hydrocarbon Film
Alloy 400 / Alloy C-405 Alloy 20 / Alloy C-276 Alloy 600	Hydrocarbon Film
Carbon Steel (except weld bodies)	Zinc Plating
Carbon Steel (weld bodies)	Hydrocarbon Film Chemical converion Coating
Titanium	Anodized
Brass, Nylon, 316 Stainless Steel and PTFE	Not Applicable

### Materials

MATERIAL STANDARDS				
Material	Bar Stock	Forging	Common Tubing Specification	
Stainless Steel 316	ASME SA479, ASTM A276,	ASME SA 182, ASTM A182	ASTM B283 ASME SA213	S6 / S6L
Brass	ASTM B16, ASTM B453	ASTM B283	ASTM B 75 ASME SB 75	B
Alloy 20	ASTM B473	ASTM B462	-	A20
Alloy 400	ASTM B164, ASME SB164	ASTM B564, ASME SB564	-	A4
Alloy 600	ASTM B166, ASME SB166	ASTM B564, ASME SB564	ASTM B 163	A6
Alloy 625	ASTM B446	ASTM B564, ASME SB564	-	A62
Alloy 825	ASTM B425	ASTM B564, ASME SB564	-	A82
Alloy C-276	ASTM B574	ASTM B564	-	H
Aluminum	ASTM B211	ASTM B247	-	AL
Titanium	ASTM B348	ASTM B381	ASTM B 338	Ti
Carbon Steel	ASTM A108	ASTM A576	-	CS
PTFE	ASTM D1710	ASTM D3294	-	E
Nylon	ASTM D4066	-	-	N
SAF 2507	ASTM A479	ASTM A182	-	-

## Temperature Ratings

System temperatures may be limited by the thread sealant or, when applicable, the gasket or O-ring material.

### Gasket, O-Ring Materials

Materials	Materials	Maximum Temperature °F (°C)	Maximum Temperature °F (°C)
RS Gaskets	Buna N	230 (110)	-13 (-25)
	Fluorocarbon FKM	400 (204)	5 (-15)
RG, RP Gasket	Copper	400 (204)	-325 (-198)
SAE O-Ring	Fluorocarbon FKM	400 (204)	-20 (-28)

### Fitting Materials

Materials	Maximum Temperature °F (°C)
316 Stainless Steel	1000 (537)
Carbon Steel	375 (190)
Brass	400 (204)
6-Moly	600 (315)
Alloy 625	1000 (537)
Alloy 825	800 (426)
Alloy 2507	482 (250)

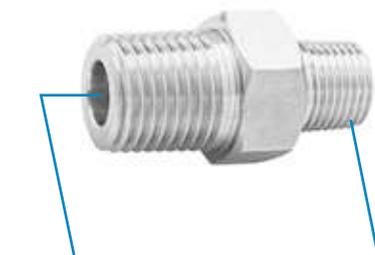
## Features

All fittings have a high-quality appearance.

Every fitting is marked with manufacturer's name for easy source tracing.

Male threads are capped for protection.

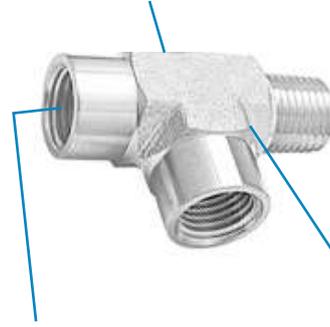
Straight fittings are manufactured from quality bar stock for strength.



Burr-free internal surface

NPT thread are based on requirements of ASME B1.20.1 and SAE AS71051

Shaped fittings are manufactured from forging



Smooth thread flanks provide optimum sealing and minimize galling

Angles on elbows, tees, and crosses are rigidly controlled for accurate piping layout

## Easy Reference

Heads of tables are differentiated with colors:

 Shows Fractional

## Part Number & Ordering Information

FRACTIONAL	SEW-LRN-8N-6N	SUPER ENGG. WORKS	LRN Large Reducing Nipple	8N Pipe Size NPT Male	8N Pipe Size NPT Male
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**Note:** For ordering, kindly specify the material and grade along with the part number.

## Pressure Ratings

### Pipe Fittings

**SUPER ENGINEERING WORKS** Pipe Fittings are rated for working pressure higher than the tubing recommended in the tubing table listed on the following pages. To ensure leak tight systems, it is important to select high quality tubing.

**Note:** Material strength and allowed pressure will decrease as the temperature increases.

## Tubing

### Tubing Selection

Tubing specifications recommended for best performance with **Precision Pipe Fitting** are as follows

Fully annealed Stainless Steel 304 & 316 seamless tubing to comply with ASTM A269 or equivalent with desired hardness of Rb80 (maximum allowed hardness by ASTM is Rb90). The tubing should be compatible with the process fluid, pressure and temperature [From -20°F to 100°F (-29°C to 37°C)]. Tubing surface should be free from scratches and suitable for bending and flaring.

**Note:** Tubing should not be used beyond its maximum allowed working pressure.

**TABLE 1 – STAINLESS STEEL FRACTIONAL TUBING**

Allowable Working Pressure in PSI								
(Inch)	Tube Wall Thickness (Inch)							
	0.028	0.035	0.049	0.065	0.083	0.095	0.109	0.120
1/8	8600	10900						
3/16	5500	7000	10300					
1/4	4000	5100	7500	10300				
5/16		4100	5900	8100				
3/8		3300	4800	6600				
1/2		2600	3700	5100	6700			
5/8			3000	4000	5200	6100		
3/4			2400	3300	4300	5000	5800	
7/8			2100	2800	3600	4200	4900	
1				2400	3200	3700	4200	4700

**TABLE 2 – STAINLESS STEEL METRIC TUBING**

Allowable Working Pressure in BAR													
Tube OD (mm)	Tube Wall Thickness (mm)												
	0.50	0.60	0.70	0.80	1.00	1.20	1.50	1.60	1.80	2.00	2.20	2.50	3.00
3	497	607	718	828	1032								
6			331	386	497	607	774	912					
8			208	280	359	440	558	607					
10				221	280	342	440	473					
12				182	231	280	359	386	440	497			
14					195	237	302	324	369	416	463	535	654
16					169	205	261	280	319	358	398	460	564
18					150	181	230	246	280	314	349	403	496
22					121	147	185	199	225	252	280	322	394
25					108	128	162	173	196	220	244	280	342

**TABLE 3 – FACTORS USED TO DETERMINE ALLOWABLE PRESSURE AT HIGHER TEMPERATURES**

°F	°C	A.I.S.I. 316
200	93	1
400	204	0.96
600	316	0.85
800	427	0.79
1000	538	0.76

To determine allowable pressure at higher temperatures, multiply allowable working pressure from TABLE 1 & 2 by Factor shown in TABLE 3.

For example : The allowable pressure for Type Stainless Steel 316, size 1/2" OD x 0.49 wall thickness at 600°F (316°C) would be equivalent to 3700 PSI x 0.85 = 3145 PSI.

**TABLE 4 – GAS TUBING APPLICATION**

FRACTIONAL		METRIC	
Tubing OD	Minimum Nominal wall Thickness	Tubing OD	Minimum Nominal Wall Thickness
1/8"	0.028"	3	0.80 mm
3/16"	0.028"	6	0.80 mm
1/4"	0.028"	8	1.00 mm
5/16"	0.035"	10	1.00 mm
3/8"	0.035"	12	1.00 mm
1/2"	0.049"	14	1.20 mm
5/8"	0.065"	16	1.50 mm
3/4"	0.065"	18	1.50 mm
7/8"	0.083"	20	1.80 mm
1"	0.083"	22	2.00 mm
		25	2.20 mm

Gases are characterized by small molecules, which can escape through minute leak paths due to surface imperfections. For the greatest safety factor against surface imperfections in any gas systems, we recommend that the wall thickness of the tubing used should not be less than shown in TABLE 4.

**TABLE 5 – Allowable Stress based on ASME B 31.3 Code for Process Piping**

MATERIAL	Allowed Stress		FACTOR	ULTIMATE TENSILE STRENGTH	
	psi	bar		psi	bar
SS 316	20,000	1378	3.75:1	75,000	5170
Brass	10,000	689	4.1	40,000	2760
Steel	20,000	1378	3.1	60,000	4140

**Pipe End Thread calculation based on ASME B31.3 for Process Piping  
(NPT & ISO 7) Pressure Ratings**

Allowable pressure for male and female tapered pipe thread ends

**TABLE 6 – PRESSURE RATINGS psi**

Pipe Size NPT/ISO	Stainless Steel 316		Brass	
	Male	Female	Male	Female
1/8"	10000	6500	5000	3200
1/4"	8000	6600	4000	3300
3/8"	7800	5300	3900	2600
1/2"	7700	4900	3800	2400
3/4"	7300	4600	3600	2300
1"	5300	4400	2600	2200

**SAE J1926/3 Pressure Ratings for SS 316**

**TABLE 7 – PRESSURE RATINGS psi**

SAE/MS Thread Size	Non Positionable	Positionable
5/16-24	4568	4568
7/16-20	4568	4568
1/2-20	4568	4568
9/16-18	4568	3626
3/4-16	4568	3626
7/8-14	3626	2900
1 1/16-12	3626	2900
1 3/16-12	2900	2320
1 5/16-12	2900	2320

**Positionable, ISO/BSP Parallel Thread Pressure Ratings**

Pressure ratings are at surrounding temperature

**TABLE 8 – PRESSURE RATINGS psi**

ISO/BSP Male Pipe Size	Stainless Steel 316
1/8"	4568
1/4"	4568
3/8"	4568
1/2"	2320
3/4"	2320
1"	2320

**O – SEAL Pressure Ratings**

O – Seal fittings up to 1" are rated to 3000 psi for SS 316.

To determine working pressure ratings in accordance with ASME B31.1, Power Piping Carbon Steel Material - Multiply by 0.85  
Stainless Steel and brass material rating remain the same.  
To determine Mpa, multiply bar by 0.10

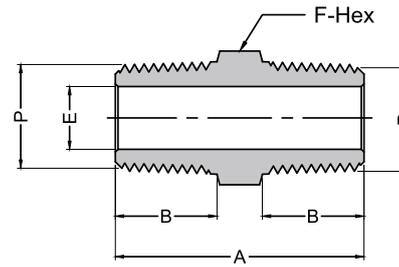


# PRECISION PIPE FITTING

## INDEX

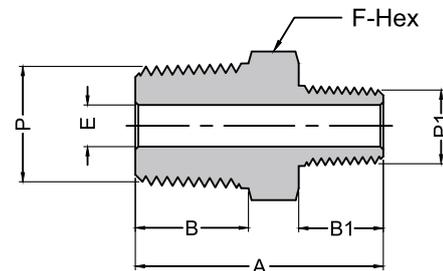
				
<b>HEX NIPPLE</b> 9	<b>HEX REDUCING NIPPLE</b> 9	<b>LONG HEX NIPPLE</b> 10	<b>CLOSE NIPPLE</b> 11	<b>HEX COUPLING</b> 11
				
<b>HEX REDUCING COUPLING</b> 12	<b>BUSHING REDUCING</b> 13	<b>ADAPTER</b> 13	<b>GAUGE ADAPTER</b> 14	<b>REDUCING ADAPTER</b> 14
				
<b>MALE ELBOW</b> 15	<b>FEMALE ELBOW</b> 15	<b>STREET ELBOW</b> 16	<b>REDUCING STREET ELBOW</b> 16	<b>MALE TEE</b> 17
				
<b>FEMALE TEE</b> 17	<b>BRANCH TEE</b> 18	<b>STREET TEE</b> 18	<b>FEMALE CROSS</b> 19	<b>PIPE CAP</b> 19
				
<b>PIPE PLUG</b> 20	<b>HEX HEAD PLUG</b> 20	<b>HOLLOW HEX PLUG</b> 21	<b>TUBE TO HOSE CONNECTOR</b> 21	<b>MALE HOSE CONNECTOR</b> 22
				
		<b>UNION BALL JOINT</b> 23		

## HEX NIPPLE SEW-HN



Male NPT Threads								
Super Engg. Part No.	Pipe Size 'P' NPT (Male)	Dimensions						
		A		B		E		F - A/F
		inch	mm	inch	mm	inch	mm	inch
SEW-HN-2N	1/8"	1.01	25.7	0.38	9.7	0.19	4.8	7/16"
SEW-HN-4N	1/4"	1.40	35.6	0.56	14.3	0.28	7.1	9/16"
SEW-HN-6N	3/8"	1.43	36.3	0.56	14.3	0.38	9.7	11/16"
SEW-HN-8N	1/2"	1.84	46.7	0.75	19.1	0.47	11.9	7/8"
SEW-HN-12N	3/4"	1.84	46.7	0.75	19.1	0.62	15.7	1-1/16"
SEW-HN-16N	1"	2.32	58.9	0.94	23.8	0.88	22.4	1-3/8"

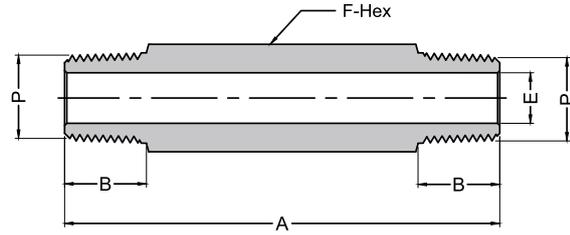
## HEX REDUCING NIPPLE SEW-HRN



Male NPT Threads											
Super Engg. Part No.	Pipe Size 'P' NPT (Male)	Pipe Size 'P1' NPT (Male)	Dimensions								
			A		B		B1		E		F - A/F
			inch	mm	inch	mm	inch	mm	inch	mm	inch
SEW-HRN-4N-2N	1/4"	1/8"	1.22	31.0	0.56	14.3	0.38	9.7	0.19	4.8	9/16"
SEW-HRN-6N-2N	3/8"	1/8"	1.25	31.8	0.56	14.3	0.38	9.7	0.19	4.8	11/16"
SEW-HRN-6N-4N	3/8"	1/4"	1.43	36.3	0.56	14.3	0.56	14.3	0.28	7.1	11/16"
SEW-HRN-8N-2N	1/2"	1/8"	1.47	37.3	0.75	19.1	0.38	9.7	0.19	4.8	7/8"
SEW-HRN-8N-4N	1/2"	1/4"	1.65	41.9	0.75	19.1	0.56	14.3	0.28	7.1	7/8"
SEW-HRN-8N-6N	1/2"	3/8"	1.65	41.9	0.75	19.1	0.56	14.3	0.38	9.7	7/8"
SEW-HRN-12N-4N	3/4"	1/4"	1.65	41.9	0.75	19.1	0.56	14.3	0.28	7.1	1-1/16"
SEW-HRN-12N-6N	3/4"	3/8"	1.65	41.9	0.75	19.1	0.56	14.3	0.38	9.7	1-1/16"
SEW-HRN-12N-8N	3/4"	1/2"	1.84	46.7	0.75	19.1	0.75	19.1	0.47	11.9	1-1/16"
SEW-HRN-16N-4N	1"	1/4"	1.94	49.3	0.94	23.8	0.56	14.3	0.28	7.1	1-3/8"
SEW-HRN-16N-8N	1"	1/2"	2.13	54.1	0.94	23.8	0.75	19.1	0.47	11.9	1-3/8"
SEW-HRN-16N-12N	1"	3/4"	2.13	54.1	0.94	23.8	0.75	19.1	0.62	15.7	1-3/8"

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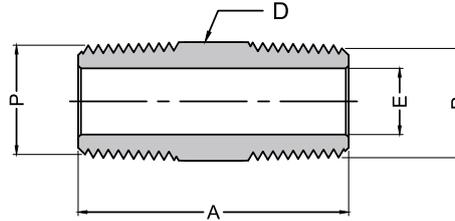
# LONG HEX NIPPLE SEW-LHN



Male NPT Threads								
Super Engg. Part No.	Pipe Size 'P' NPT (Male)	Dimensions						
		A		B		E		F – A/F
		inch	mm	inch	mm	inch	mm	inch
SEW-LHN-2N-1	1/8"	1.50	38.1	0.38	9.7	0.19	4.8	7/16"
SEW-LHN-2N-2	1/8"	2.00	50.8	0.38	9.7	0.19	4.8	7/16"
SEW-LHN-2N-3	1/8"	2.50	63.5	0.38	9.7	0.19	4.8	7/16"
SEW-LHN-2N-4	1/8"	3.00	76.2	0.38	9.7	0.19	4.8	7/16"
SEW-LHN-4N-5	1/4"	1.50	38.1	0.56	14.3	0.28	7.1	9/16"
SEW-LHN-4N-6	1/4"	2.00	50.8	0.56	14.3	0.28	7.1	9/16"
SEW-LHN-4N-7	1/4"	2.50	63.5	0.56	14.3	0.28	7.1	9/16"
SEW-LHN-4N-8	1/4"	3.00	76.2	0.56	14.3	0.28	7.1	9/16"
SEW-LHN-4N-9	1/4"	4.00	101.6	0.56	14.3	0.28	7.1	9/16"
SEW-LHN-6N-1	3/8"	1.50	38.1	0.56	14.3	0.38	9.7	11/16"
SEW-LHN-6N-2	3/8"	2.00	50.8	0.56	14.3	0.38	9.7	11/16"
SEW-LHN-6N-3	3/8"	2.50	63.5	0.56	14.3	0.38	9.7	11/16"
SEW-LHN-6N-4	3/8"	3.00	76.2	0.56	14.3	0.38	9.7	11/16"
SEW-LHN-6N-5	3/8"	4.00	101.6	0.56	14.3	0.38	9.7	11/16"
SEW-LHN-8N-6	1/2"	2.00	50.8	0.75	19.1	0.47	11.9	7/8"
SEW-LHN-8N-7	1/2"	3.00	76.2	0.75	19.1	0.47	11.9	7/8"
SEW-LHN-8N-8	1/2"	4.00	101.6	0.75	19.1	0.47	11.9	7/8"
SEW-LHN-8N-9	1/2"	6.00	152.4	0.75	19.1	0.47	11.9	7/8"
SEW-LHN-12N-1	3/4"	2.00	50.8	0.75	19.1	0.62	15.7	1-1/16"
SEW-LHN-12N-2	3/4"	3.00	76.2	0.75	19.1	0.62	15.7	1-1/16"
SEW-LHN-12N-3	3/4"	4.00	101.6	0.75	19.1	0.62	15.7	1-1/16"
SEW-LHN-16N-4	1"	3.00	76.2	0.94	23.8	0.88	22.4	1-3/8"
SEW-LHN-16N-5	1"	4.00	101.6	0.94	23.8	0.88	22.4	1-3/8"

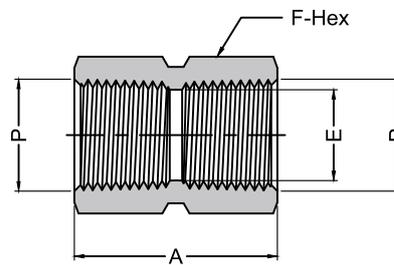
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## CLOSE NIPPLE SEW-CN



Male NPT Threads						
Super Engg. Part No.	Pipe Size 'P' NPT (Male)	Dimensions				
		A		E		Ø D Mm
		inch	mm	inch	mm	
SEW-CN-2N	1/8"	0.75	19.1	0.19	4.8	10.3
SEW-CN-4N	1/4"	1.12	28.4	0.28	7.1	13.7
SEW-CN-6N	3/8"	1.12	28.4	0.38	9.7	17.1
SEW-CN-8N	1/2"	1.50	38.1	0.47	11.9	21.3
SEW-CN-12N	3/4"	1.50	38.1	0.62	15.7	26.7
SEW-CN-16N	1"	1.88	47.8	0.88	22.4	33.4

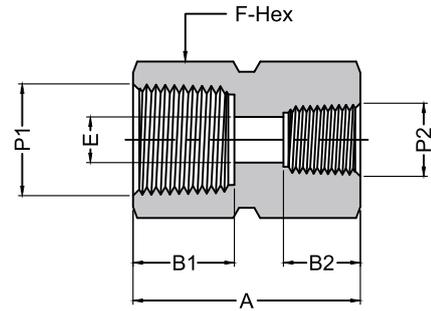
## HEX COUPLING SEW-HC



Female NPT Threads						
Super Engg. Part No.	Pipe Size 'P' NPT (F)	Dimensions				
		A		E		F - A/F inch
		inch	mm	inch	mm	
SEW-HC-2N	1/8"	0.81	20.6	0.34	8.6	9/16"
SEW-HC-4N	1/4"	1.19	30.2	0.45	11.4	3/4"
SEW-HC-6N	3/8"	1.31	33.3	0.59	15.0	7/8"
SEW-HC-8N	1/2"	1.56	39.6	0.73	18.5	1-1/16"
SEW-HC-12N	3/4"	1.62	41.1	0.94	23.9	1-5/16"
SEW-HC-16N	1"	2.00	50.8	1.17	29.7	1-5/8"

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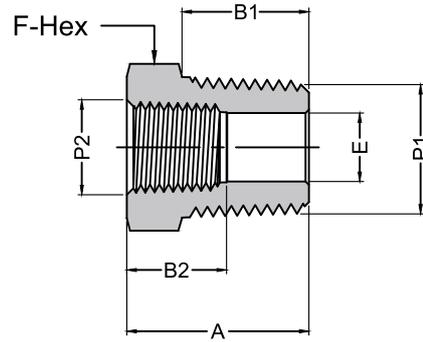
# HEX REDUCING COUPLING SEW-HRC



Female NPT Threads			Dimensions									
Super Engg. Part No.	Pipe Size 'P1' NPT (F)	Pipe Size 'P2' NPT (F)	A		B1		B2		E		F - A/F	
			inch	mm	inch	mm	inch	mm	inch	mm		
SEW-HRC-4N-2N	1/4"	1/8"	1.22	31.0	0.59	15.0	0.41	10.4	0.34	8.6	3/4"	
SEW-HRC-6N-4N	3/8"	1/4"	1.38	35.1	0.59	15.0	0.59	15.0	0.45	11.4	7/8"	
SEW-HRC-8N-2N	1/2"	1/8"	1.56	39.6	0.78	19.8	0.41	10.4	0.34	8.6	1-1/16"	
SEW-HRC-8N-4N	1/2"	1/4"	1.75	44.4	0.78	19.8	0.59	15.0	0.45	11.4	1-1/16"	
SEW-HRC-8N-6N	1/2"	3/8"	1.78	45.2	0.78	19.8	0.59	15.0	0.59	15.0	1-1/16"	
SEW-HRC-12N-4N	3/4"	1/4"	1.81	46.0	0.81	20.6	0.59	15.0	0.45	11.4	1-5/16"	
SEW-HRC-12N-6N	3/4"	3/8"	1.81	46.0	0.81	20.6	0.59	15.0	0.59	15.0	1-5/16"	
SEW-HRC-12N-8N	3/4"	1/2"	2.06	52.3	0.81	20.6	0.78	19.8	0.73	18.5	1-5/16"	
SEW-HRC-16N-8N	1"	1/2"	2.19	55.6	1.00	25.4	0.78	19.8	0.73	18.5	1-5/8"	
SEW-HRC-16N-12N	1"	3/4"	2.25	57.2	1.00	25.4	0.81	20.6	0.94	23.9	1-5/8"	

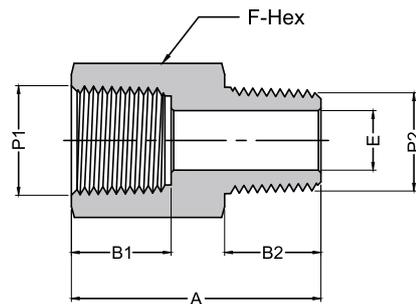
All dimensions are for reference only, and are subject to change without prior notice. Sizes and types other than those featured above are available on request.

# BUSHING REDUCING SEW-BR



Male to Female NPT Threads											
Super Engg. Part No.	Pipe Size 'P1' NPT (M)	Pipe Size 'P2' NPT (F)	Dimensions								
			A		B1		B2		E		F - A/F
			inch	mm	inch	mm	inch	mm	inch	mm	inch
SEW-BR-4N-2N	1/4"	1/8"	1.06	26.9	0.56	14.3	0.41	10.4	0.28	7.1	9/16"
SEW-BR-6N-2N	3/8"	1/8"	0.86	21.8	0.56	14.3	0.41	10.4	0.28	7.1	11/16"
SEW-BR-6N-4N	3/8"	1/4"	1.19	30.2	0.56	14.3	0.59	15.0	0.38	9.7	3/4"
SEW-BR-8N-2N	1/2"	1/8"	1.08	27.4	0.75	19.1	0.41	10.4	0.28	7.1	7/8"
SEW-BR-8N-4N	1/2"	1/4"	1.08	27.4	0.75	19.1	0.59	15.0	0.41	10.4	7/8"
SEW-BR-8N-6N	1/2"	3/8"	1.41	35.8	0.75	19.1	0.59	15.0	0.47	11.9	7/8"
SEW-BR-12N-4N	3/4"	1/4"	1.08	27.4	0.75	19.1	0.59	15.0	0.41	10.4	1-1/16"
SEW-BR-12N-6N	3/4"	3/8"	1.08	27.4	0.75	19.1	0.59	15.0	0.50	12.7	1-1/16"
SEW-BR-12N-8N	3/4"	1/2"	1.63	41.4	0.75	19.1	0.78	19.8	0.62	15.7	1-1/16"
SEW-BR-16N-4N	1"	1/4"	1.37	34.8	0.94	23.8	0.59	15.0	0.41	10.4	1-3/8"
SEW-BR-16N-6N	1"	3/8"	1.37	34.8	0.94	23.8	0.59	15.0	0.50	12.7	1-3/8"
SEW-BR-16N-8N	1"	1/2"	1.37	34.8	0.94	23.8	0.78	19.8	0.62	15.7	1-3/8"
SEW-BR-16N-12N	1"	3/4"	1.85	47.0	0.94	23.8	0.81	20.6	0.88	22.4	1-3/8"

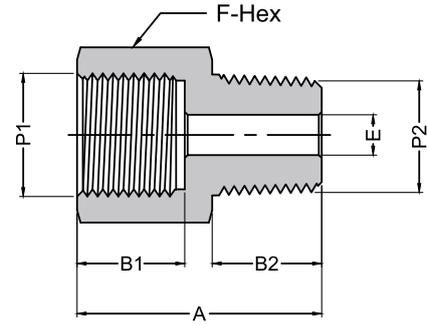
# ADAPTER (SEW-A)



Female to Male NPT Threads											
Super Engg. Part No.	Pipe Size 'P1' NPT (F)	Pipe Size 'P2' NPT (M)	DimSEW'sions								
			A		B1		B2		E		F - A/F
			inch	mm	inch	mm	inch	mm	inch	mm	inch
SEW-A-2N	1/8"	1/8"	1.10	27.9	0.41	10.4	0.38	9.7	0.19	4.8	9/16"
SEW-A-4N	1/4"	1/4"	1.40	35.6	0.59	15.0	0.56	14.3	0.28	7.1	3/4"
SEW-A-6N	3/8"	3/8"	1.51	38.4	0.59	15.0	0.56	14.3	0.38	9.7	7/8"
SEW-A-8N	1/2"	1/2"	1.94	49.3	0.78	19.8	0.75	19.1	0.47	11.9	1-1/16"
SEW-A-12N	3/4"	3/4"	2.02	51.3	0.81	20.6	0.75	19.1	0.62	15.7	1-5/16"
SEW-A-16N	1"	1"	2.28	57.9	1.00	25.4	0.94	23.8	0.88	22.4	1-5/8"

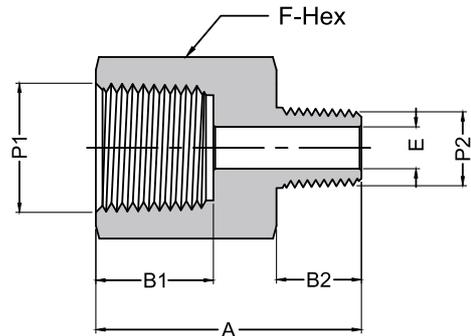
All dimensions are for reference only, and are subject to change without prior notice. Sizes and types other than those featured above are available on request.

## GAUGE ADAPTER SEW-GA



Female ISO Parallel Threads to Male NPT Threads											
Super Engg. Part No.	Pipe Size 'P1' BSP (F)	Pipe Size 'P2' NPT (M)	Dimensions								
			A		B1		B2		E		F - A/F
			inch	mm	inch	mm	inch	mm	inch	mm	inch
SEW-GA-2RG-2N	1/8"	1/8"	0.86	21.8	0.26	6.5	0.38	9.7	0.18	4.5	9/16"
SEW-GA-4RG-4N	1/4"	1/4"	1.19	30.2	0.51	12.9	0.56	14.3	0.22	5.5	3/4"
SEW-GA-6RG-6N	3/8"	3/8"	1.27	32.2	0.56	14.3	0.56	14.3	0.26	6.5	15/16"
SEW-GA-8RG-8N	1/2"	1/2"	1.68	42.7	0.74	18.8	0.75	19.1	0.28	7.0	1-1/16"

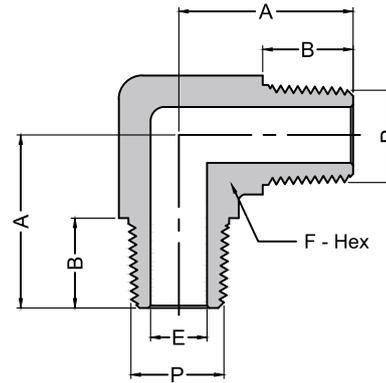
## REDUCING ADAPTER SEW-RA



Female to Male NPT Threads											
Super Engg. Part No.	Pipe Size 'P1' NPT (F)	Pipe Size 'P2' NPT (M)	Dimensions								
			A		B1		B2		E		F - A/F
			inch	mm	inch	mm	inch	mm	inch	mm	inch
SEW-RA-4N-2N	1/4"	1/8"	1.26	32.0	0.59	15.0	0.38	9.7	0.19	4.8	3/4"
SEW-RA-6N-2N	3/8"	1/8"	1.33	33.8	0.59	15.0	0.38	9.7	0.19	4.8	7/8"
SEW-RA-6N-4N	3/8"	1/4"	1.50	38.1	0.59	15.0	0.56	14.3	0.28	7.1	7/8"
SEW-RA-8N-2N	1/2"	1/8"	1.58	40.1	0.78	19.8	0.38	9.7	0.19	4.8	1-1/16"
SEW-RA-8N-4N	1/2"	1/4"	1.76	44.7	0.78	19.8	0.56	14.3	0.28	7.1	1-1/16"
SEW-RA-8N-6N	1/2"	3/8"	1.75	44.4	0.78	19.8	0.56	14.3	0.38	9.7	1-1/16"
SEW-RA-12N-4N	3/4"	1/4"	1.85	47.0	0.81	20.6	0.56	14.3	0.28	7.1	1-5/16"
SEW-RA-12N-6N	3/4"	3/8"	1.82	46.2	0.81	20.6	0.56	14.3	0.38	9.7	1-5/16"
SEW-RA-12N-8N	3/4"	1/2"	2.02	51.3	0.81	20.6	0.75	19.1	0.47	11.9	1-5/16"
SEW-RA-16N-4N	1"	1/4"	1.96	49.8	1.00	25.4	0.56	14.3	0.28	7.1	1-5/8"
SEW-RA-16N-8N	1"	1/2"	2.16	54.9	1.00	25.4	0.75	19.1	0.47	11.9	1-5/8"
SEW-RA-16N-12N	1"	3/4"	2.17	55.1	1.00	25.4	0.75	19.1	0.62	15.7	1-5/8"

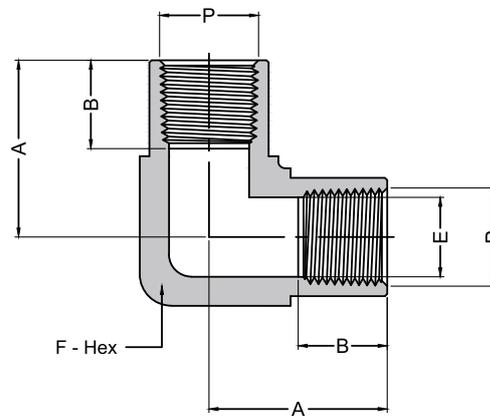
All dimensions are for reference only, and are subject to change without prior notice. Sizes and types other than those featured above are available on request.

## MALE ELBOW SEW-ME



Male NPT Threads								
Super Engg. Part No.	Pipe Size 'P' NPT (Male)	Dimensions						
		A		B		E		F - A/F
		inch	mm	inch	mm	inch	mm	inch
SEW-ME-2N	1/8"	0.88	22.4	0.38	9.7	0.19	4.8	7/16"
SEW-ME-4N	1/4"	1.05	26.7	0.56	14.3	0.28	7.1	9/16"
SEW-ME-6N	3/8"	1.17	29.7	0.56	14.3	0.38	9.7	11/16"
SEW-ME-8N	1/2"	1.45	36.8	0.75	19.1	0.47	11.9	7/8"
SEW-ME-12N	3/4"	1.59	40.4	0.75	19.1	0.62	15.7	1-1/16"
SEW-ME-16N	1"	1.97	50.0	0.94	23.8	0.88	22.4	1-3/8"

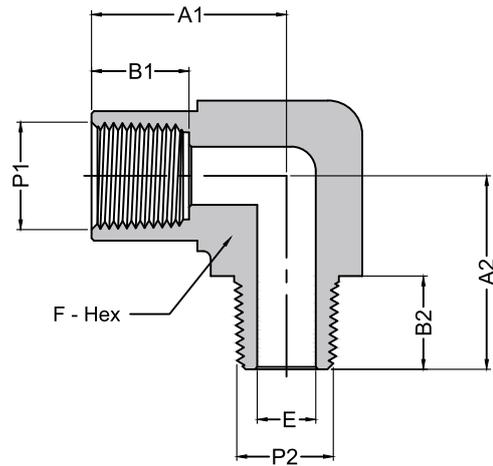
## FEMALE ELBOW SEW-FE



Female NPT Threads								
Super Engg. Part No.	Pipe Size 'P' NPT (F)	Dimensions						
		A		B		E		F - A/F
		inch	mm	inch	mm	inch	mm	inch
SEW-FE-2N	1/8"	1.04	26.4	0.41	10.4	0.34	8.6	9/16"
SEW-FE-4N	1/4"	1.17	29.7	0.59	15.0	0.45	11.4	3/4"
SEW-FE-6N	3/8"	1.42	36.1	0.59	15.0	0.59	15.0	7/8"
SEW-FE-8N	1/2"	1.56	39.6	0.78	19.8	0.73	18.5	1-1/16"
SEW-FE-12N	3/4"	1.92	48.8	0.81	20.6	0.94	23.9	1-5/16"
SEW-FE-16N	1"	1.91	48.5	1.00	25.4	1.17	29.7	1-5/8"

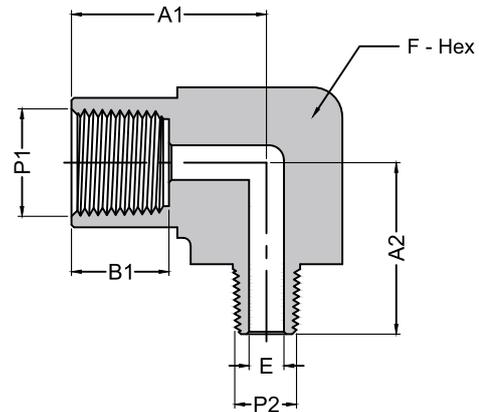
All dimensions are for reference only, and are subject to change without prior notice. Sizes and types other than those featured above are available on request.

## STREET ELBOW SEW-SE



Female to Male NPT Threads													
Super Engg. Part No.	Pipe Size 'P1' NPT (F)	Pipe Size 'P2' NPT (M)	Dimensions										
			A1		A2		B1		B2		E		F - A/F
			inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
SEW-SE-2N	1/8"	1/8"	1.04	26.4	0.87	22.1	0.41	10.4	0.38	9.7	0.19	4.8	9/16"
SEW-SE-4N	1/4"	1/4"	1.17	29.7	1.17	29.7	0.59	15.0	0.56	14.3	0.28	7.1	3/4"
SEW-SE-6N	3/8"	3/8"	1.42	36.1	1.26	32.0	0.59	15.0	0.56	14.3	0.38	9.7	7/8"
SEW-SE-8N	1/2"	1/2"	1.56	39.6	1.56	39.6	0.78	19.8	0.75	19.1	0.47	11.9	1-1/16"
SEW-SE-12N	3/4"	3/4"	1.92	48.8	1.67	42.4	0.81	20.6	0.75	19.1	0.62	15.7	1-5/16"
SEW-SE-16N	1"	1"	1.91	48.5	1.94	49.3	1.00	25.4	0.94	23.8	0.88	22.4	1-5/8"

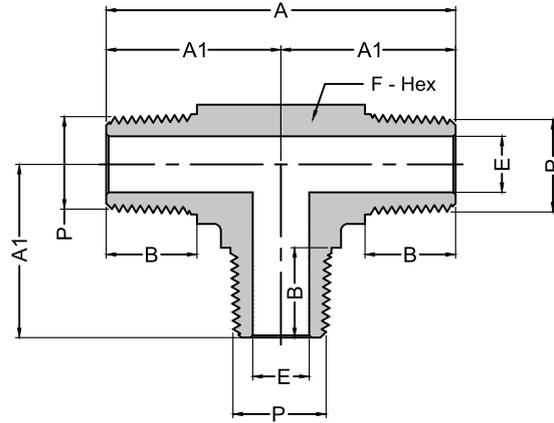
## REDUCING STREET ELBOW SEW-RSE



Female to Male NPT Threads													
Super Engg. Part No.	Pipe Size 'P1' NPT (F)	Pipe Size 'P2' NPT (M)	Dimensions										
			A1		A2		B1		B2		E		F - A/F
			inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
SEW-RSE-4N-2N	1/4"	1/8"	1.17	29.7	1.00	25.4	0.59	15.0	0.38	9.7	0.19	4.8	3/4"
SEW-RSE-6N-4N	3/8"	1/4"	1.42	36.1	1.26	32.0	0.59	15.0	0.56	14.3	0.28	7.1	7/8"
SEW-RSE-8N-4N	1/2"	1/4"	1.56	39.6	1.38	35.1	0.78	19.8	0.56	14.3	0.28	7.1	1-1/16"
SEW-RSE-8N-6N	1/2"	3/8"	1.56	39.6	1.38	35.1	0.78	19.8	0.56	14.3	0.38	9.7	1-1/16"

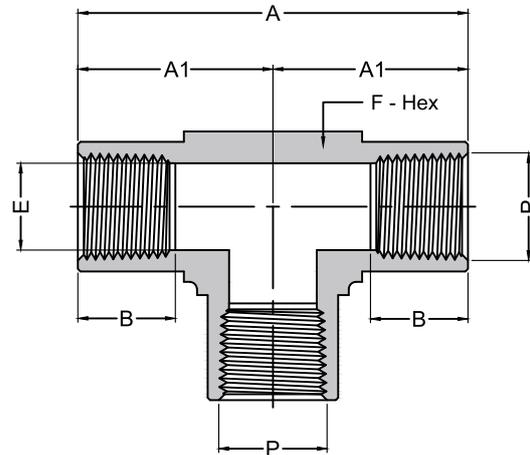
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## MALE TEE SEW-MT



Male NPT Threads		Dimensions								
Super Engg. Part No.	Pipe Size 'p' NPT (Male)	A		A1		B		E		F - A/F
		inch	mm	inch	mm	inch	mm	inch	mm	inch
SEW-MT-2N	1/8"	1.76	44.7	0.88	22.4	0.38	9.7	0.19	4.8	7/16"
SEW-MT-4N	1/4"	2.10	53.4	1.05	26.7	0.56	14.3	0.28	7.1	9/16"
SEW-MT-6N	3/8"	2.34	59.7	1.17	29.7	0.56	14.3	0.38	9.7	11/16"
SEW-MT-8N	1/2"	2.90	73.6	1.45	36.8	0.75	19.1	0.47	11.9	7/8"
SEW-MT-12N	3/4"	3.18	80.8	1.59	40.4	0.75	19.1	0.62	15.7	1-1/16"
SEW-MT-16N	1"	3.94	100.0	1.97	50.0	0.94	23.8	0.88	22.4	1-3/8"

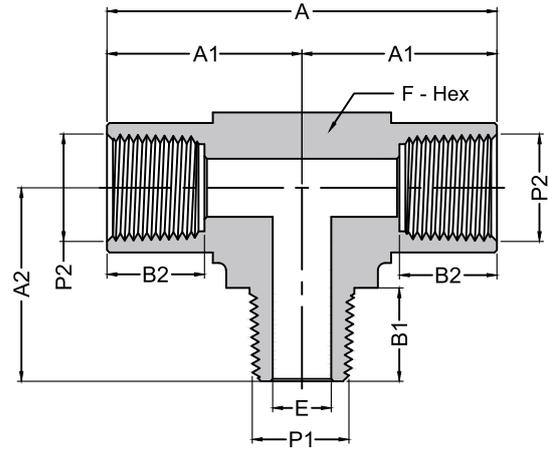
## FEMALE TEE SEW-FT



Female NPT Threads		DimSEWsions								
Super Engg. Part No.	Pipe Size 'p' NPT (F)	A		A1		B		E		F - A/F
		inch	mm	inch	mm	inch	mm	inch	mm	inch
SEW-FT-2N	1/8"	2.08	52.8	1.04	26.4	0.41	10.4	0.34	8.6	9/16"
SEW-FT-4N	1/4"	2.34	59.4	1.17	29.7	0.59	15.0	0.45	11.4	3/4"
SEW-FT-6N	3/8"	2.84	72.2	1.42	36.1	0.59	15.0	0.59	15.0	7/8"
SEW-FT-8N	1/2"	3.12	79.2	1.56	39.6	0.78	19.8	0.73	18.5	1-1/16"
SEW-FT-12N	3/4"	3.84	97.6	1.92	48.8	0.81	20.6	0.94	23.9	1-5/16"
SEW-FT-16N	1"	3.82	97.0	1.91	48.5	1.00	25.4	1.17	29.7	1-5/8"

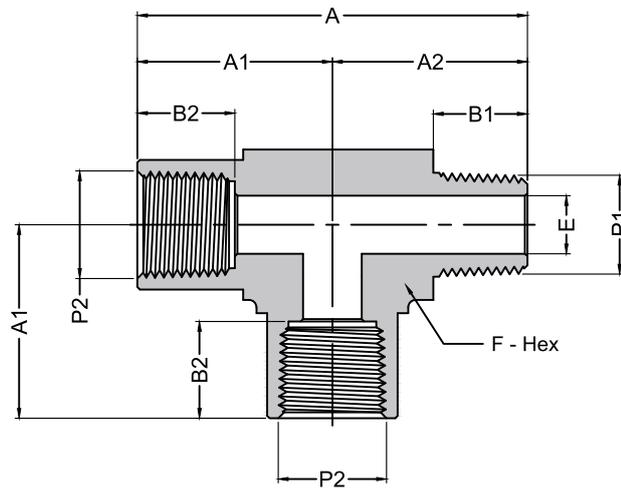
All dimensions are for reference only, and are subject to change without prior notice. Sizes and types other than those featured above are available on request.

## BRANCH TEE SEW-BT



Female and Male NPT Threads			Dimensions												
Super Engg. Part No.	Pipe Size 'P1' NPT (M)	Pipe Size 'P2' NPT (F)	A		A1		A2		B1		B2		E		F - A/F
			inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch		
SEW-BT-2N	1/8"	1/8"	2.08	52.8	1.04	26.4	0.87	22.1	0.38	9.7	0.41	10.4	0.19	4.8	9/16"
SEW-BT-4N	1/4"	1/4"	2.34	59.4	1.17	29.7	1.17	29.7	0.56	14.3	0.59	15.0	0.28	7.1	3/4"
SEW-BT-6N	3/8"	3/8"	2.84	72.2	1.42	36.1	1.26	32.0	0.56	14.3	0.59	15.0	0.38	9.7	7/8"
SEW-BT-8N	1/2"	1/2"	3.12	79.2	1.56	39.6	1.56	39.6	0.75	19.1	0.78	19.8	0.47	11.9	1-1/16"

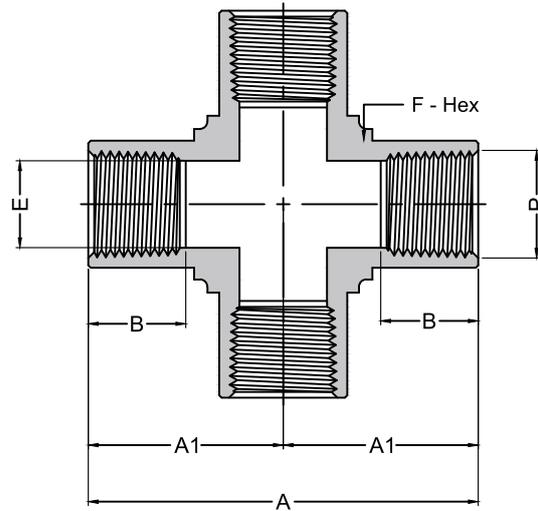
## STREET TEE SEW-ST



Female and Male NPT Threads			Dimensions												
Super Engg. Part No.	Pipe Size 'P1' NPT (M)	Pipe Size 'P2' NPT (F)	A		A1		A2		B1		B2		E		F - A/F
			inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch		
SEW-ST-2N	1/8"	1/8"	1.91	48.5	1.04	26.4	0.87	22.1	0.38	9.7	0.41	10.4	0.19	4.8	9/16"
SEW-ST-4N	1/4"	1/4"	2.34	59.4	1.17	29.7	1.17	29.7	0.56	14.3	0.59	15.0	0.28	7.1	3/4"
SEW-ST-6N	3/8"	3/8"	2.68	68.1	1.42	36.1	1.26	32.0	0.56	14.3	0.59	15.0	0.38	9.7	7/8"
SEW-ST-8N	1/2"	1/2"	3.12	79.2	1.56	39.6	1.56	39.6	0.75	19.1	0.78	19.8	0.47	11.9	1-1/16"

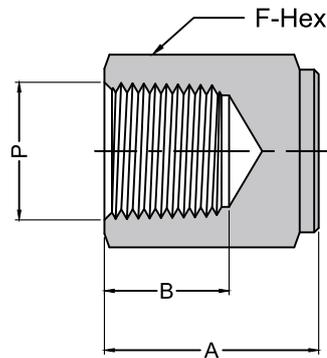
All dimensions are for reference only, and are subject to change without prior notice. Sizes and types other than those featured above are available on request.

## FEMALE CROSS SEW-FC



Female NPT Threads										
Super Engg. Part No.	Pipe Size 'P' NPT (F)	Dimensions								
		A		A1		B		E		F - A/F
		inch	mm	inch	mm	inch	mm	inch	mm	inch
SEW-FC-2N	1/8"	2.08	52.8	1.04	26.4	0.41	10.4	0.34	8.6	9/16"
SEW-FC-4N	1/4"	2.34	59.4	1.17	29.7	0.59	15.0	0.45	11.4	3/4"
SEW-FC-6N	3/8"	2.84	72.2	1.42	36.1	0.59	15.0	0.59	15.0	7/8"
SEW-FC-8N	1/2"	3.12	79.2	1.56	39.6	0.78	19.8	0.73	18.5	1-1/16"
SEW-FC-12N	3/4"	3.84	97.6	1.92	48.8	0.81	20.6	0.94	23.9	1-5/16"
SEW-FC-16N	1"	3.82	97.0	1.91	48.5	1.00	25.4	1.17	29.7	1-5/8"

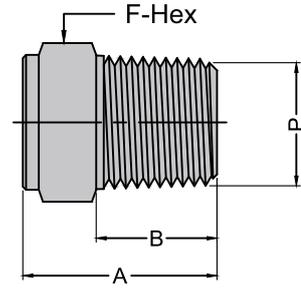
## PIPE CAP SEW-PC



Female NPT Threads						
Super Engg. Part No.	Pipe Size 'P' NPT (F)	Dimensions				
		A		B		F - A/F
		inch	mm	inch	mm	inch
SEW-PC-2N	1/8"	0.75	19.1	0.41	10.4	9/16"
SEW-PC-4N	1/4"	0.91	23.1	0.59	15.0	3/4"
SEW-PC-6N	3/8"	1.03	26.2	0.59	15.0	7/8"
SEW-PC-8N	1/2"	1.34	34.0	0.78	19.8	1-1/16"
SEW-PC-12N	3/4"	1.44	36.6	0.81	20.6	1-5/16"
SEW-PC-16N	1"	1.62	41.1	1.00	25.4	1-5/8"

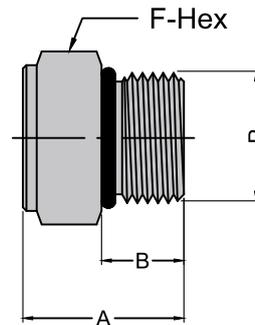
All dimensions are for reference only, and are subject to change without prior notice. Sizes and types other than those featured above are available on request.

## PIPE PLUG SEW-PP



Male NPT Threads						
Super Engg. Part No.	Pipe Size 'P' NPT (M)	Dimensions				
		A		B		F - A/F
		inch	mm	inch	mm	inch
SEW-PP-2N	1/8"	0.75	19.1	0.38	9.7	7/16"
SEW-PP-4N	1/4"	0.96	24.4	0.56	14.3	9/16"
SEW-PP-6N	3/8"	0.99	25.1	0.56	14.3	11/16"
SEW-PP-8N	1/2"	1.21	30.7	0.75	19.1	7/8"
SEW-PP-12N	3/4"	1.21	30.7	0.75	19.1	1-1/16"
SEW-PP-16N	1"	1.50	38.1	0.94	23.8	1-3/8"

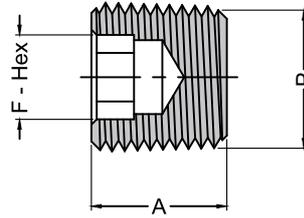
## HEX HEAD PLUG SEW-HP-SEW



Male SEN/MS Straight Threads						
Super Engg. Part No.	Pipe Size 'P' Male SEN / MS	Dimensions				
		A		B		F - A/F
		inch	mm	inch	mm	inch
SEW-HP-7SEN	7/16" - 20	0.76	19.3	0.36	9.10	9/16"
SEW-HP-9SEN	9/16" - 18	0.82	20.8	0.39	9.90	11/16"
SEW-HP-12SEN	3/4" - 16	0.89	22.6	0.44	11.2	7/8"
SEW-HP-17SEN	1-1/16" - 12	1.12	28.4	0.59	15.0	1-1/4"
SEW-HP-21SEN	1-5/16" - 12	1.18	30.0	0.59	15.0	1-1/2"

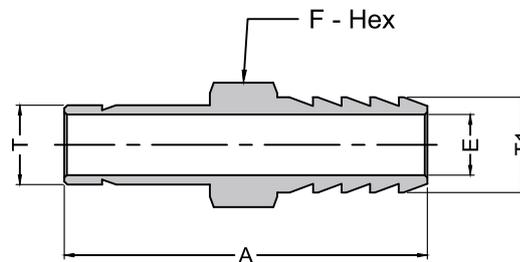
All dimensions are for reference only, and are subject to change without prior notice. Sizes and types other than those featured above are available on request.

## HOLLOW HEX PLUG SEW-HHP



Male NPT Threads				
Super Engg. Part No.	Pipe Size 'P' NPT (Male)	Dimensions		
		A		F - A/F
		inch	mm	inch
SEW-HHP-2N	1/8"	0.41	10.4	3/16"
SEW-HHP-4N	1/4"	0.59	15.0	1/4"
SEW-HHP-6N	3/8"	0.59	15.0	5/16"
SEW-HHP-8N	1/2"	0.76	19.3	3/8"
SEW-HHP-12N	3/4"	0.78	19.8	9/16"
SEW-HHP-16N	1"	0.82	20.8	5/8"

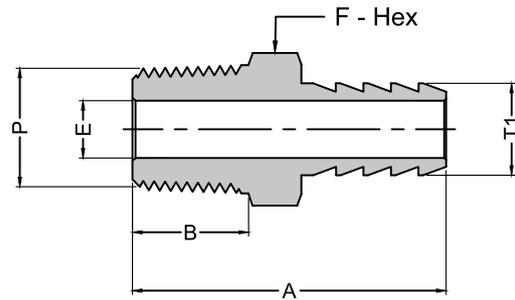
## TUBE TO HOSE CONNECTOR SEW-THC



Bar End To Tube End									
Super Engg. Part No.	Hose ID	T Tube OD	Dimensions						
			T1		A		E		F - A/F
			inch	mm	inch	mm	inch	mm	inch
SEW-THC-2-2	1/8"	1/8"	0.15	3.81	1.35	34.3	0.08	2.0	5/16"
SEW-THC-2-4	1/8"	1/4"	0.15	3.81	1.44	36.6	0.08	2.0	3/8"
SEW-THC-4-4	1/4"	1/4"	0.30	7.62	1.83	46.5	0.19	4.8	7/16"
SEW-THC-4-6	1/4"	3/8"	0.30	7.62	1.90	48.3	0.19	4.8	7/16"
SEW-THC-5-4	5/16"	1/4"	0.38	9.65	1.91	48.5	0.19	4.8	7/16"
SEW-THC-6-6	3/8"	3/8"	0.45	11.43	1.98	50.3	0.30	7.6	9/16"
SEW-THC-6-8	3/8"	1/2"	0.45	11.43	2.20	55.9	0.30	7.6	5/8"
SEW-THC-8-6	1/2"	3/8"	0.60	15.24	2.05	52.1	0.38	9.7	11/16"
SEW-THC-8-8	1/2"	1/2"	0.60	15.24	2.27	57.7	0.38	9.7	11/16"
SEW-THC-12-12	3/4"	3/4"	0.90	22.86	2.44	62.0	0.63	16.0	1"

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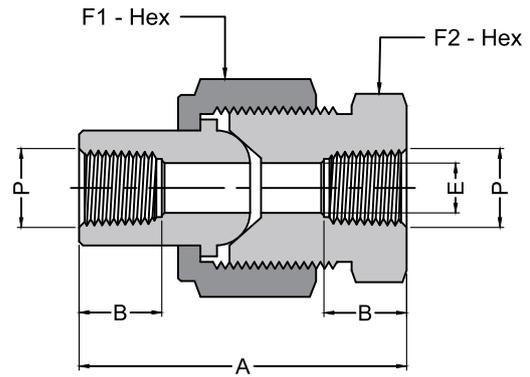
# MALE HOSE CONNECTOR SEW-MHC



Barb End To Male NPT Threads											
Super Engg. Part No.	Hose ID	Pipe Size 'P' NPT(M)	Dimensions								
			T1		A		B		E		F - A/F
			inch	mm	inch	mm	inch	mm	inch	mm	inch
SEW-MHC-2-2N	1/8"	1/8"	0.15	3.81	1.08	27.4	0.38	9.7	0.08	2.0	7/16"
SEW-MHC-2-4N	1/8"	1/4"	0.15	3.81	1.26	32.0	0.56	14.3	0.08	2.0	9/16"
SEW-MHC-3-2N	3/16"	1/8"	0.23	5.84	1.27	32.3	0.38	9.7	0.12	3.0	7/16"
SEW-MHC-3-4N	3/16"	1/4"	0.23	5.84	1.45	36.8	0.56	14.3	0.12	3.0	9/16"
SEW-MHC-4-2N	1/4"	1/8"	0.30	7.62	1.47	37.3	0.38	9.7	0.19	4.8	7/16"
SEW-MHC-4-4N	1/4"	1/4"	0.30	7.62	1.65	41.9	0.56	14.3	0.19	4.8	9/16"
SEW-MHC-4-6N	1/4"	3/8"	0.30	7.62	1.66	42.2	0.56	14.3	0.19	4.8	11/16"
SEW-MHC-4-8N	1/4"	1/2"	0.30	7.62	1.85	47.0	0.75	19.1	0.19	4.8	7/8"
SEW-MHC-5-2N	5/16"	1/8"	0.38	9.65	1.55	39.4	0.38	9.7	0.19	4.8	7/16"
SEW-MHC-5-4N	5/16"	1/4"	0.38	9.65	1.73	43.9	0.56	14.3	0.19	4.8	9/16"
SEW-MHC-5-6N	5/16"	3/8"	0.38	9.65	1.74	44.2	0.56	14.3	0.19	4.8	11/16"
SEW-MHC-5-8N	5/16"	1/2"	0.38	9.65	1.96	49.8	0.75	19.1	0.19	4.8	7/8"
SEW-MHC-6-4N	3/8"	1/4"	0.45	11.43	1.73	43.9	0.56	14.3	0.30	7.6	9/16"
SEW-MHC-6-6N	3/8"	3/8"	0.45	11.43	1.74	44.2	0.56	14.3	0.30	7.6	11/16"
SEW-MHC-6-8N	3/8"	1/2"	0.45	11.43	1.96	49.8	0.75	19.1	0.30	7.6	7/8"
SEW-MHC-8-4N	1/2"	1/4"	0.60	15.24	1.80	45.7	0.56	14.3	0.37	9.5	11/16"
SEW-MHC-8-6N	1/2"	3/8"	0.60	15.24	1.81	46.0	0.56	14.3	0.37	9.5	11/16"
SEW-MHC-8-8N	1/2"	1/2"	0.60	15.24	2.03	51.6	0.75	19.1	0.37	9.5	7/8"
SEW-MHC-10-8N	5/8"	1/2"	0.75	19.10	2.07	52.6	0.75	19.1	0.47	11.9	7/8"
SEW-MHC-10-12N	5/8"	3/4"	0.75	19.10	2.07	52.6	0.75	19.1	0.50	12.7	1-1/16"
SEW-MHC-12-8N	3/4"	1/2"	0.90	22.86	2.14	54.4	0.75	19.1	0.63	16.0	15/16"
SEW-MHC-12-12N	3/4"	3/4"	0.90	22.86	2.14	54.4	0.75	19.1	0.63	16.0	1-1/16"
SEW-MHC-12-16N	3/4"	1"	0.90	22.86	2.43	61.7	0.94	23.8	0.63	16.0	1-3/8"
SEW-MHC-16-12N	1"	3/4"	1.20	30.48	2.38	60.5	0.75	19.1	0.88	22.4	1-1/4"
SEW-MHC-16-16N	1"	1"	1.20	30.48	2.57	65.3	0.94	23.8	0.88	22.4	1-3/8"

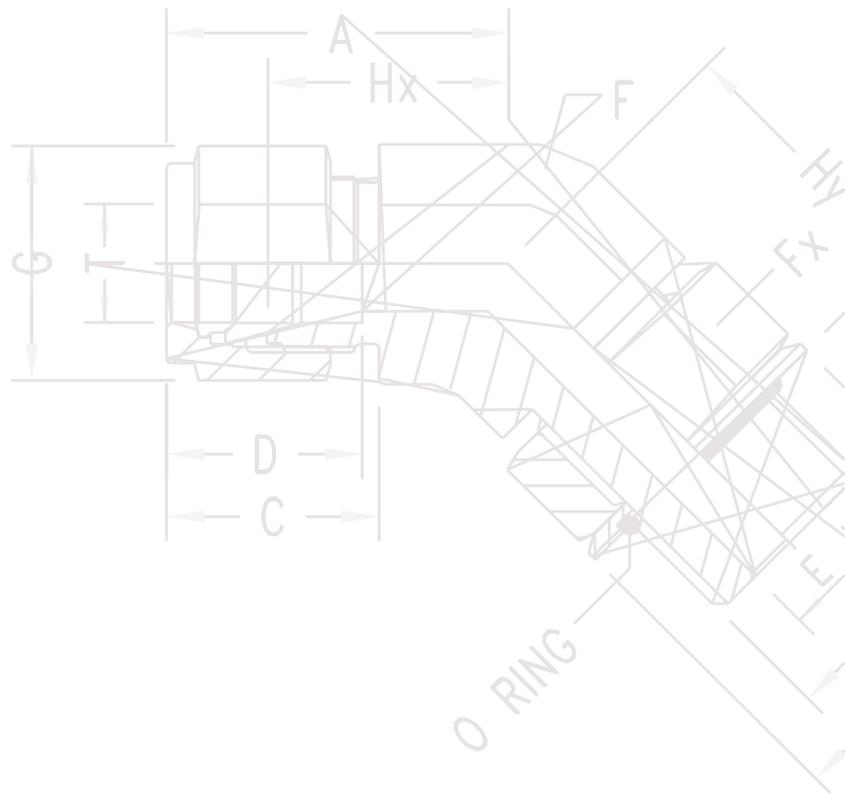
All dimensions are for reference only, and are subject to change without prior notice. Sizes and types other than those featured above are available on request.

# UNION BALL JOINT SEW-UBJ



Female NPT Threads		Dimensions							
Super Engg. Part No.	Pipe Size 'P' NPT (F)	A		B		E		F – A/F	F2 – A/F
		inch	mm	inch	mm	inch	mm	inch	inch
SEW-UBJ-2N	1/8"	1.81	46.0	0.41	10.4	0.27	6.8	1-1/8"	15/16"
SEW-UBJ-4N	1/4"	2.34	59.4	0.59	15.0	0.36	9.1	1-3/8"	1-3/16"
SEW-UBJ-6N	3/8"	2.50	63.5	0.59	15.0	0.52	13.2	1-1/2"	1-5/16"
SEW-UBJ-8N	1/2"	2.69	68.3	0.78	19.8	0.62	15.7	1-3/4"	1-5/8"
SEW-UBJ-12N	3/4"	3.12	79.2	0.81	20.6	0.88	22.4	2-1/8"	1-7/8"
SEW-UBJ-16N	1"	3.56	90.4	1.00	25.4	1.03	26.2	2-1/2"	2-3/8"

All dimensions are for reference only, and are subject to change without prior notice. Sizes and types other than those featured above are available on request.



# SUPER ENGINEERING WORKS

INSTRUMENTATION FITTINGS & VALVES



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+91 7021984169



**SUPER  
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WORKS**

**INSTRUMENTATION FITTINGS & VALVES**

# INDUSTRIAL VALVES

"H" MAX

"A" SQ.



[www.superengworks.com](http://www.superengworks.com)

AN ISO 9001:2015 CERTIFIED COMPANY

## Introduction

**SUPER ENGINEERING WORKS** an **ISO 9001:2015** Certified Company engaged in the business of manufacturing and marketing of high quality instrumentation products such as:-

- Double Ferrule Compression Tube Fittings
- Industrial Valves
- Precision Pipe Fittings
- Flare Fittings

**SUPER ENGINEERING WORKS** manufactures all the above product to a very precise tolerance under a strict supervision which are tested at normal and extreme condition to withstand the high performance demands such as high pressure, vacuum, vibration, impulse and temperature being used for Chemical, Petrochemicals, Fertilizers, Pharmaceuticals, Marine, Power as well as other major industries.

## MANUFACTURING FACILITY

**SUPER ENGINEERING WORKS** has inhouse manufacturing facilities with modern precision machineries, instruments, gauges and skilled workforce with total commitment to meet and fulfill the increasing demands and requirements of our customers.

## QUALITY POLICY

**SUPER ENGINEERING WORKS** endeavour to satisfy our customer through prompt supply of quality products. We do so through periodic revieTCs and continuously improving the products, process and systems.

## OUR AIM

**SUPER ENGINEERING WORKS** aims to be the benchmark setter in the industry by providing high standard quality products with total customer's satisfaction.

ISO  
CERTIFICATE



## ➤ Valve Manifolds

Page No. 4 to 9

ETC2VMR01  
ETC2GVR03  
ETC3VMR01  
ETC3VMR02

## ➤ Needle Valves

Page No. 10 to 16

SEW-NV01  
SEW-NV02  
SEW-NV03  
SEW-NV04  
SEW-NV05  
SEW-NV06  
SEW-NV07  
SEW-NV08  
SEW-NV09  
SEW-GV10

## ➤ Ball Valves

Page No. 17 to 24

SEW-BV01  
SEW-BV02  
SEW-BV03  
SEW-BV04  
SEW-BV05



# VALVE MANIFOLDS



**SUPER ENGINEERING WORKS** Valve Manifolds offers a safe and economical method of installation to control, measure, isolate, equalize, calibrate, drain, vent, or differentiate the pressure of media such as liquid and gas. Our Valve Manifold are manufactured to a very precise tolerance to ensure perfect installation and application. Our Manifold series offer 2, 3 and 5 valves configuration of Remote mounting type (pipe to pipe), Direct mounting type ('T' type – pipe to flange and 'H' type – flange to flange) or Panel mounting type on to Gauges, DP transmitter, and Pressure switches with 54mm centre distance.

### 2 Valve Manifolds

These calibration manifolds are having one isolation valve of 1/2" connection and one drain valve of 1/4" NPT (F) outlet which can be used for calibration.

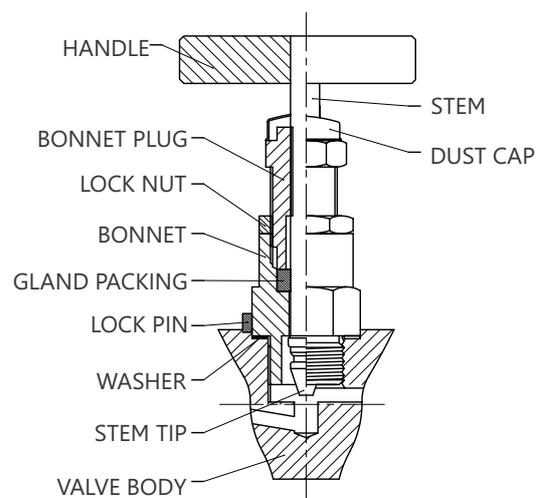
### 3 Valve Manifolds

These manifolds are generally used in differential pressure application with pressure gauges, pressure switches, and pressure transmitters. These manifolds consist of two isolating valves of 1/2" NPT (F) inlet and outlet, one equalizing valve in a single unit.

### 5 Valve Manifolds

These manifolds consist of two isolation valves, one equalizer valve and two drain / vent valves. The standard process and instrumentation connections are of 1/2" NPT and two vent connections are of 1/4" NPT in all manifolds and are provided with blanking plugs.

### VALVE BONNET ASSY



### STANDARD SPECIFICATIONS:

Max working pressure: 6000 PSI (400 bar)

Max Temperature: 240° C

Material: SS 304, SS 316, SS 316L, CS.

Gland Packing: PTFE

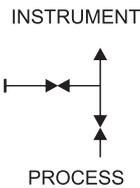
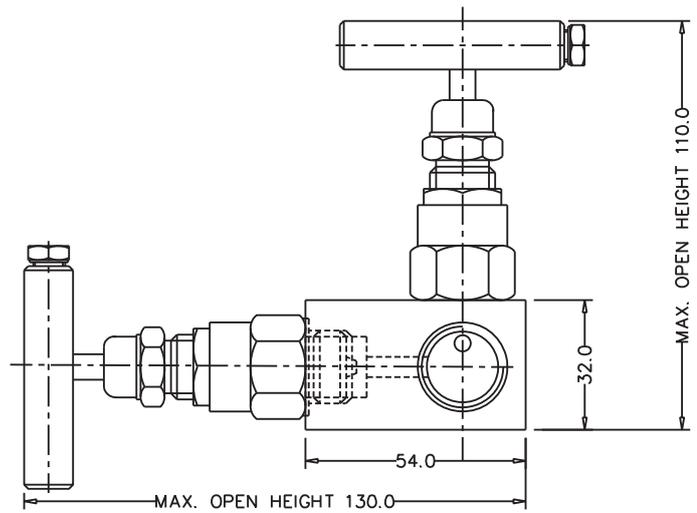
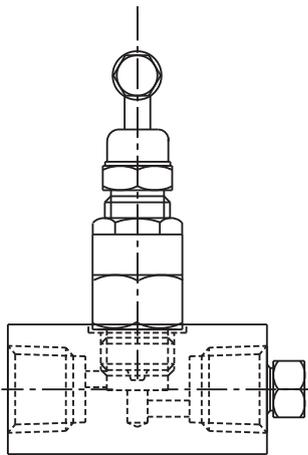
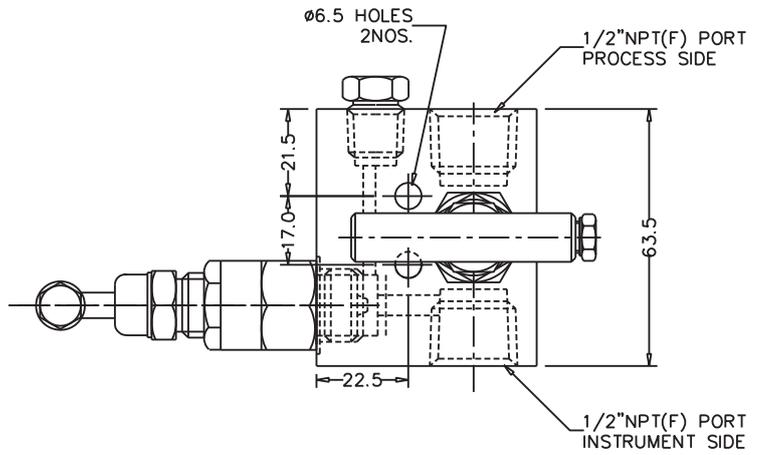
Standard Process Connection: 1/2" NPT, Flange (For Direct mounting 'H' type)

Standard Instrument Connection: 1/2" NPT, Flange (For Direct mounting 'T' type & 'H' type)

Drain: 1/4" NPT

# Model : SEW2VMR01

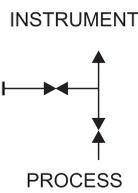
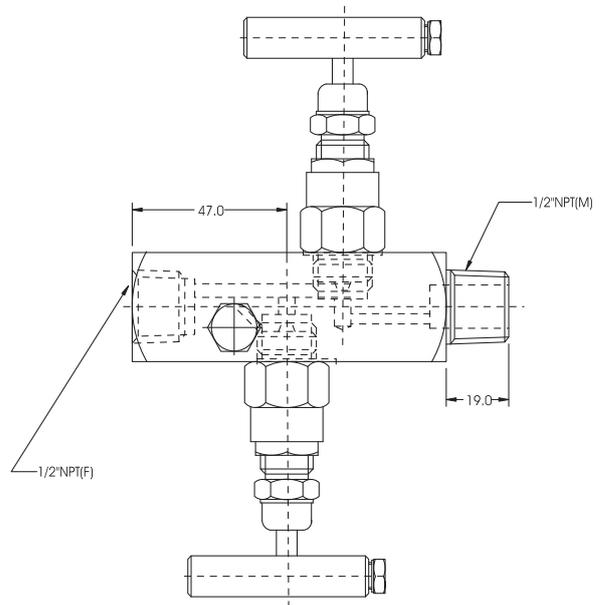
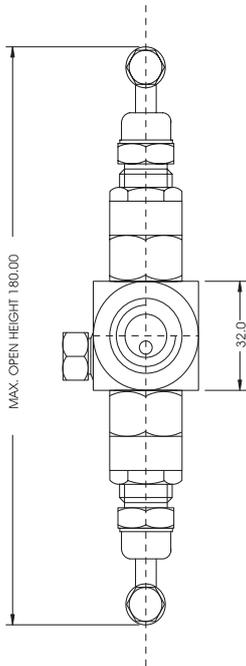
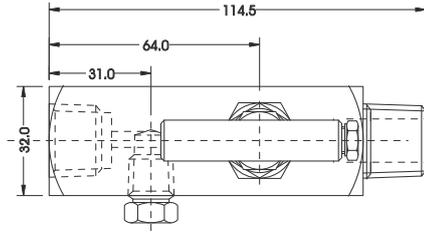
2 VALVE MANIFOLD  
 REMOTE MOUNTING TYPE



All dimensions are for reference only, and are subject to change without prior notice. Sizes and types other than those featured above are available on request.

# Model : SEW2GVR03

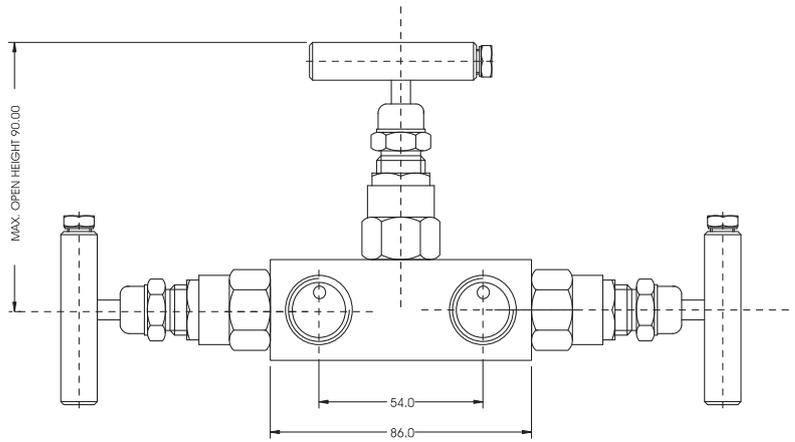
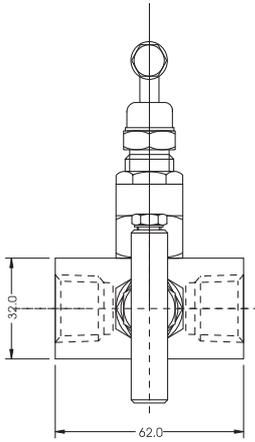
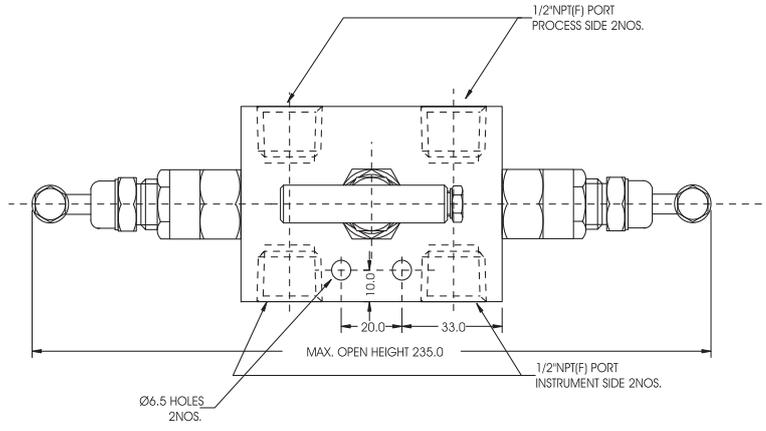
2 WAY GAUGE VALVE



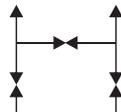
All dimensions are for reference only, and are subject to change without prior notice. Sizes and types other than those featured above are available on request.

# Model : SEW3VMR01

3 VALVE MANIFOLD  
 REMOTE MOUNTING TYPE



INSTRUMENT

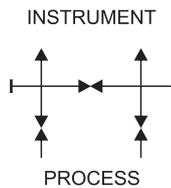
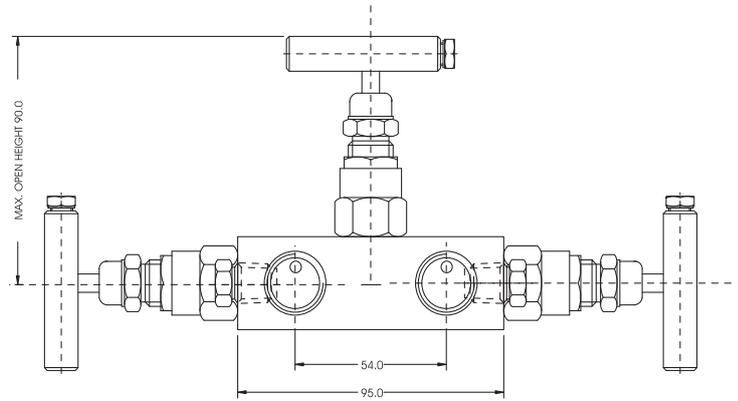
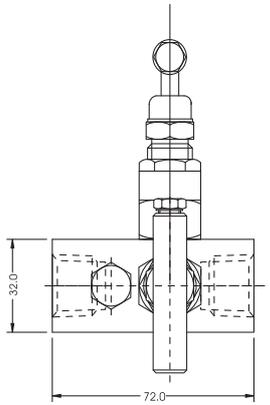
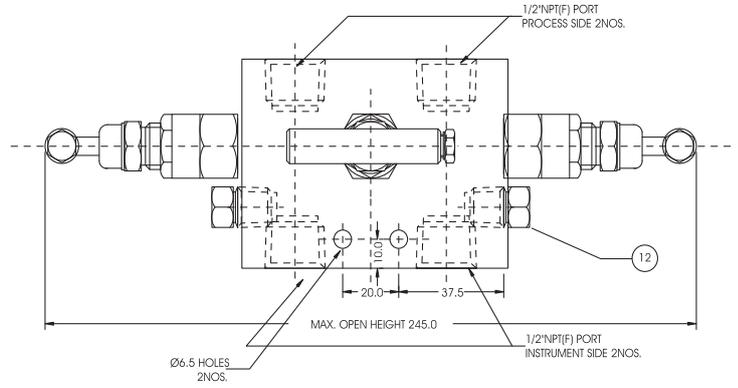


PROCESS

All dimensions are for reference only, and are subject to change without prior notice. Sizes and types other than those featured above are available on request.

# Model : SEW3VMR02

3 VALVE MANIFOLD (WITH DRAIN)  
 REMOTE MOUNTING TYPE



All dimensions are for reference only, and are subject to change without prior notice. Sizes and types other than those featured above are available on request.



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COMPONENTS**

Instrumentation Fittings Solution...

## NEEDLE VALVES



**SUPER ENGINEERING WORKS** Needle Valves are manufactured for various operating temperature to cater the increasing demands and variety of applications. Needle Valves are also known as isolation valves, shut off valve or regulatory valve, which are suitable for Instrumentation, Process, and Hydraulic applications. Needle Valves are ideal option for isolating or throttling applications. The self centring Non-rotating tip stem ensures perfect seating by providing tight, repeatable shutoff without the galling or cross scoring that occurs on 'V' and 'Ball Type' stem. The PTFE gland packings are placed below the stem thread which ensures that the stem thread does not come in contact with the fluid media.

### STANDARD SPECIFICATIONS:

Design: Screwed Bonnet

Size: 1/4" to 1"

Max Working Pressure: 6000 PSI (400 bar)

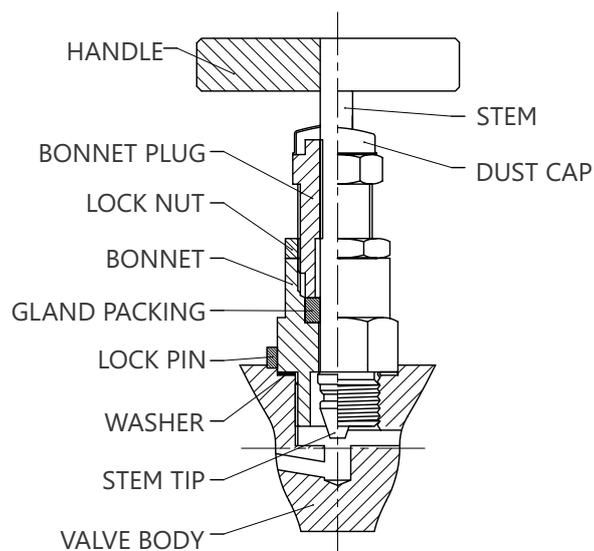
Max Temperature: 240° C

Material: SS 304, SS 316, SS 316L

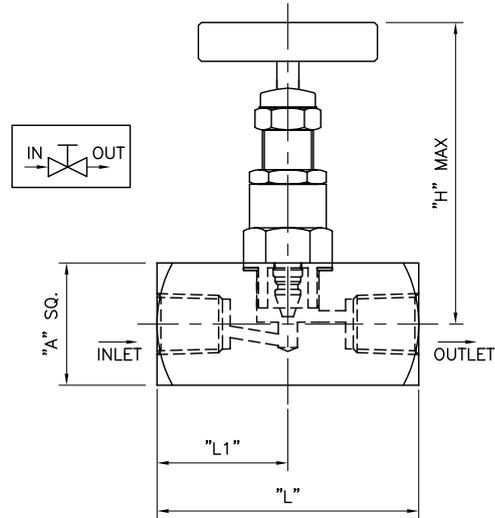
Gland Packing: PTFE

End Connections: Male/Female pipe thread (NPT, BSP, BSPT), Double Ferrule Tube Fittings, Socket Weld.

### VALVE BONNET ASSY

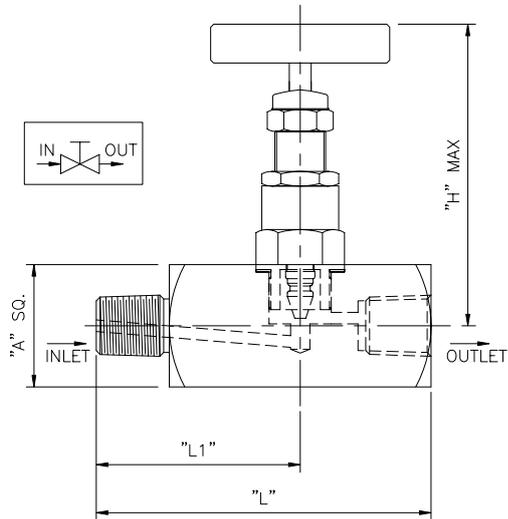


**Model : SEW-NV01**  
**Female x Female**



Part No.	Size	A	L	L1	H
SEW-NV-2FF	1/8"	28.00	56.00	28.00	87.00
SEW-NV-4FF	1/4"	28.00	56.00	28.00	87.00
SEW-NV-6FF	3/8"	28.00	56.00	28.00	87.00
SEW-NV-8FF	1/2"	32.00	64.00	32.00	89.00
SEW-NV-12FF	3/4"	38.00	64.00	32.00	92.00
SEW-NV-16FF	1"	45.00	78.00	39.00	96.00

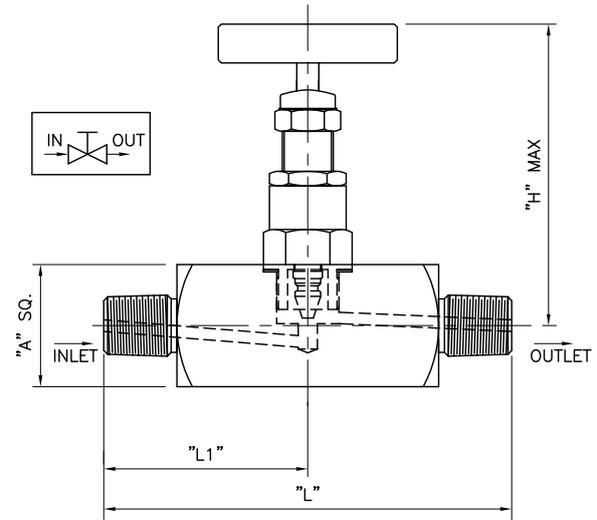
**Model : SEW-NV02**  
**Male x Female**



Part No.	Size	A	L	L1	H
SEW-NV-2MF	1/8"	28.00	56.00	28.00	87.00
SEW-NV-4MF	1/4"	28.00	60.00	32.00	87.00
SEW-NV-6MF	3/8"	28.00	60.00	32.00	87.00
SEW-NV-8MF	1/2"	32.00	72.00	38.00	89.00
SEW-NV-12MF	3/4"	38.00	72.00	38.00	92.00
SEW-NV-16MF	1"	45.00	84.00	44.00	96.00

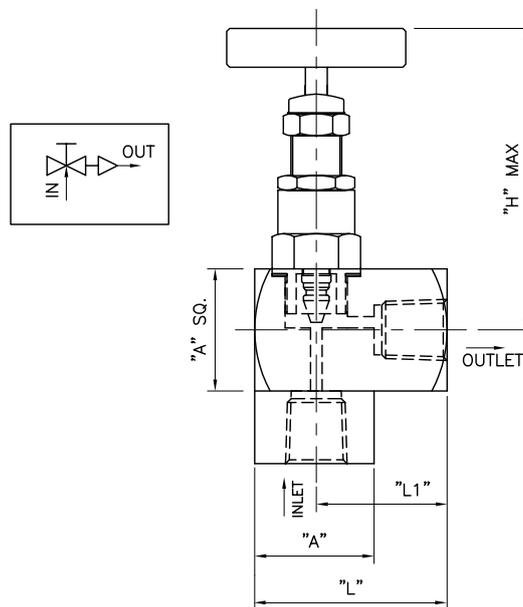
All dimensions are for reference only, and are subject to change without prior notice. Sizes and types other than those featured above are available on request.

**Model : SEW-NV03**  
**Male x Male**



Part No.	Size	A	L	L1	H
SEW-NV-2MM	1/8"	28.00	56.00	28.00	87.00
SEW-NV-4MM	1/4"	28.00	60.00	30.00	87.00
SEW-NV-6MM	3/8"	28.00	60.00	30.00	87.00
SEW-NV-8MM	1/2"	32.00	72.00	36.00	89.00
SEW-NV-12MM	3/4"	38.00	72.00	36.00	92.00
SEW-NV-16MM	1"	45.00	88.00	44.00	96.00

**Model : SEW-NV04**  
**Female x Female ( Angle Type )**



Part No.	Size	A	L	L1	H
SEW-ANV-2FF	1/8"	28.00	42.00	28.00	87.00
SEW-ANV-4FF	1/4"	28.00	42.00	28.00	87.00
SEW-ANV-6FF	3/8"	28.00	42.00	28.00	87.00
SEW-ANV-8FF	1/2"	32.00	50.00	34.00	89.00
SEW-ANV-12FF	3/4"	38.00	56.00	37.00	92.00
SEW-ANV-16FF	1"	45.00	68.00	46.00	96.00

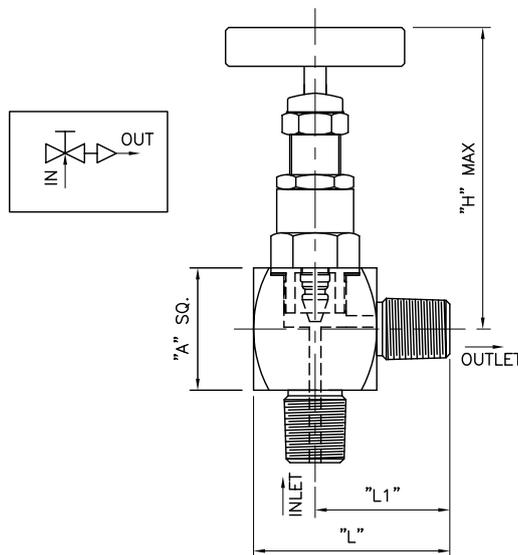
All dimensions are for reference only, and are subject to change without prior notice. Sizes and types other than those featured above are available on request.

**Model : SEW-NV05**  
**Male x Female ( Angle Type )**



Part No.	Size	A	L	L1	H
SEW-ANV-2MF	1/8"	28.00	42.00	28.00	87.00
SEW-ANV-4MF	1/4"	28.00	42.00	28.00	87.00
SEW-ANV-6MF	3/8"	28.00	42.00	28.00	87.00
SEW-ANV-8MF	1/2"	32.00	50.00	34.00	89.00
SEW-ANV-12MF	3/4"	38.00	56.00	37.00	92.00
SEW-ANV-16MF	1"	45.00	68.00	46.00	96.00

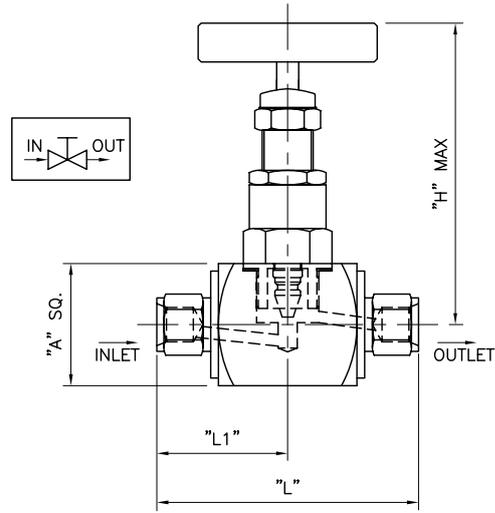
**Model : SEW-NV06**  
**Male x Male ( Angle Type )**



Part No.	Size	A	L	L1	H
SEW-ANV-2MM	1/8"	28.00	42.00	28.00	87.00
SEW-ANV-4MM	1/4"	28.00	42.00	28.00	87.00
SEW-ANV-6MM	3/8"	28.00	42.00	28.00	87.00
SEW-ANV-8MM	1/2"	32.00	50.00	34.00	89.00
SEW-ANV-12MM	3/4"	38.00	56.00	37.00	92.00
SEW-ANV-16MM	1"	45.00	68.00	46.00	96.00

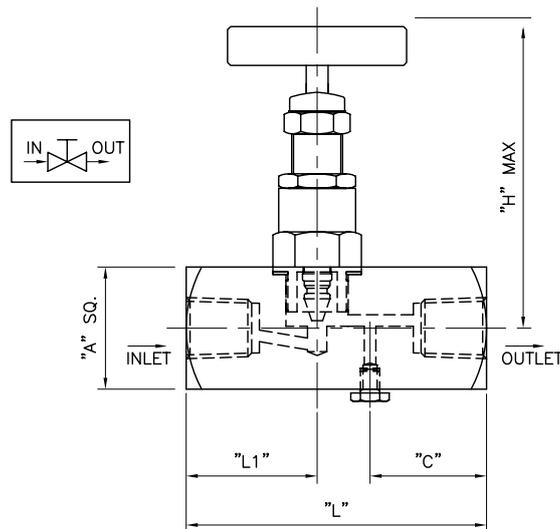
All dimensions are for reference only, and are subject to change without prior notice. Sizes and types other than those featured above are available on request.

**Model : SEW-NV07**  
**Tube OD x Tube OD**



Part No.	Size Tube OD	A	L	L1	H
SEW-NVOD-4	1/4"	28.00	64.00	32.00	87.00
SEW-NVOD-6	3/8"	28.00	68.00	34.00	87.00
SEW-NVOD-8	1/2"	28.00	72.00	36.00	87.00
SEW-NVOD-12	3/4"	32.00	76.00	38.00	89.00
SEW-NVOD-16	1"	42.00	96.00	48.00	94.00
SEW-NVOD-6m	6mm	28.00	64.00	32.00	87.00
SEW-NVOD-8m	8mm	28.00	66.00	33.00	87.00
SEW-NVOD-10m	10mm	28.00	68.00	34.00	87.00
SEW-NVOD-12m	12mm	28.00	72.00	36.00	87.00
SEW-NVOD-20m	20mm	32.00	76.00	38.00	89.00
SEW-NVOD-25m	25mm	42.00	96.00	48.00	94.00

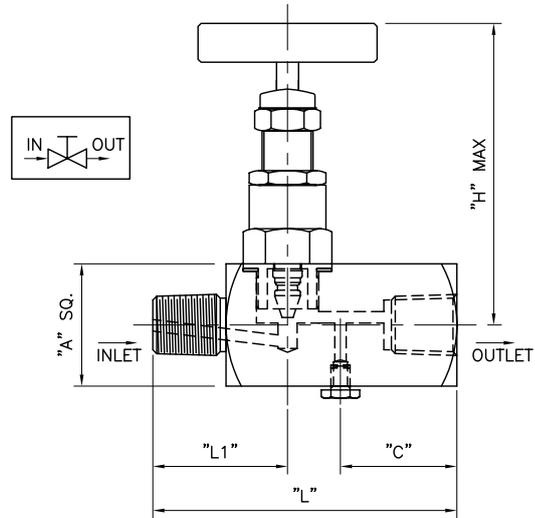
**Model : SEW-NV08**  
**Female x Female ( With Vent Plug )**



Part No.	Size	A	C	L	L1	H
SEW-NVD-4FF	1/4"	28.00	25.00	74.00	28.00	87.00
SEW-NVD-6FF	3/8"	28.00	25.00	74.00	28.00	87.00
SEW-NVD-8FF	1/2"	32.00	30.00	84.00	35.00	89.00

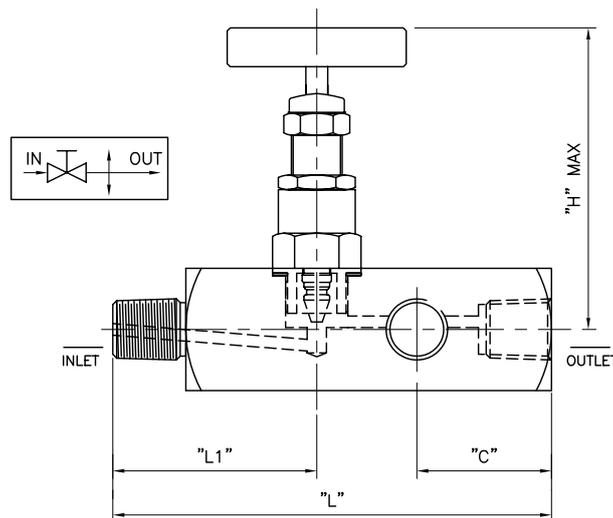
All dimensions are for reference only, and are subject to change without prior notice. Sizes and types other than those featured above are available on request.

**Model : SEW-NV09**  
**Male x Female (With Vent Plug)**



Part No.	Size	A	C	L	L1	H
SEW-NVD-4MF	1/4"	28.00	25.00	74.00	28.00	87.00
SEW-NVD-6MF	3/8"	28.00	25.00	74.00	28.00	87.00
SEW-NVD-8MF	1/2"	32.00	30.00	84.00	35.00	89.00

**Model : SEW-GV10**  
**Male Inlet x 3 Female Outlet**



Part No.	Size	A	C	L	L1	H
SEW-GV-4MF	1/4"	28.00	28.00	82.00	28.00	87.00
SEW-GV-6MF	3/8"	28.00	28.00	82.00	28.00	87.00
SEW-GV-8MF	1/2"	32.00	32.00	117.00	35.00	89.00

All dimensions are for reference only, and are subject to change without prior notice. Sizes and types other than those featured above are available on request.

## **BALL VALVES**



**SUPER ENGINEERING WORKS** Ball Valves are the most frequently used valves across the globe for Chemicals, Petrochemicals, Fertilizers, Pharmaceuticals as well as other major industries. Our ball valves have very low operating torques and a range of seat materials to provide excellent process environmental compatibility. Our seats offer wide process compatibility whilst maintaining positive sealing across the entire operating range. The quarter turn design facilitates easy operation. Ball Valves give full flow in open position even at quarter turn. Ball Valves are also used for high density fluids, and the main advantage of using ball valves is that the flow is not affected by the contaminated particles. Ball Valves are not recommended for flow throttling purpose.

Our range of BALL VALVES covers variety of types and end connections:

- 2 Way Ball Valve
- 3 Way Ball Valve
- 4 Way Ball Valve
- 5 Way Ball Valve
- Panel Mount Ball Valve
- Screwed Ends Ball Valve
- Double Ferrule Tube Fitting Ends Ball Valve
- Flanged Ends Ball Valve

## Key Features

Design: Floating Ball Design for positive sealing

Port: Full Port / Reduced Port

Seat: PTFE, DELRIN, PEEK

Size Range: 1/4" to 1"

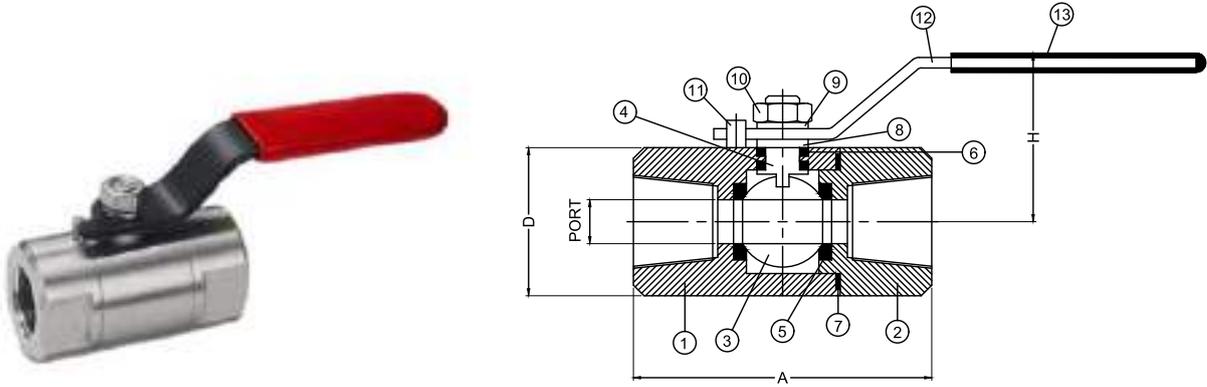
End Connections: Male/Female pipe thread (NPT, BSP, BSPT), Double Ferrule Tube Fittings, Socket Weld.

Working Pressure: 1000 PSI to 3000 PSI

Material: SS 304, SS 316, SS 316L

## Model : SEW-BV01

BALL VALVE (2 PC DESIGN)  
 FEMALE SCREWED END



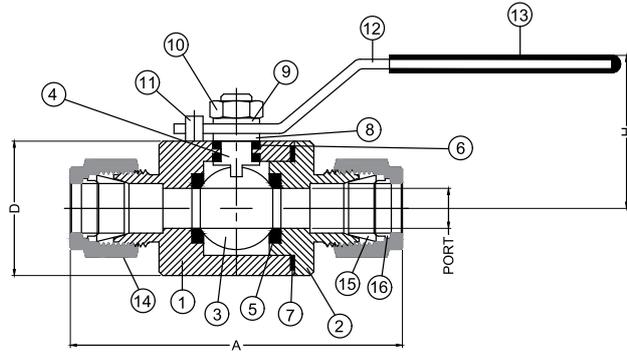
Part No.	Size (NPT)	A +/- 2.0	ØD +/-2.0	PORT	H +/- 2.0
SEW-BV01-4	1/4"	58.00	30.00	6.40	40.00
SEW-BV01-6	3/8"	58.00	30.00	9.00	40.00
SEW-BV01-8	1/2"	70.00	35.00	10.40	45.00
SEW-BV01-12	3/4"	80.00	45.00	19.00	55.00
SEW-BV01-16	1"	85.00	48.00	25.40	60.00

Part No.	Description	Material	Qty
1	BODY	SS 316	01
2	ADAPTER	SS 316	01
3	BALL	SS 316	01
4	STEM	SS 316	01
5	BALL SEATS	PTFE	02
6	GLAND PACKING	PTFE	01
7	GASKET	PTFE	01
8	THRUST WASHER	SS 304	01
9	SPRING WASHER	SS 304	01
10	LOCK NUT	SS 304	01
11	STOP PIN	SS 304	01
12	HANDLE	CS PLATED	01
13	SLEEVE	PVC	01

All dimensions are for reference only, and are subject to change without prior notice. Sizes and types other than those featured above are available on request.

## Model : SEW-BV02

BALL VALVE (2 PC DESIGN)  
 DOUBLE FERRULE TUBE FITTING END



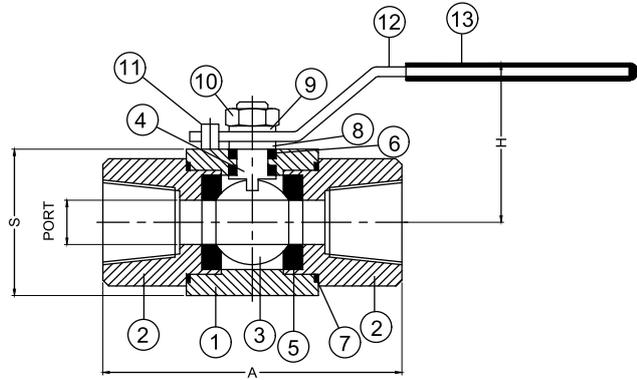
Part No.	Size	A +/- 2.0	ØD +/- 2.0	PORT	H +/- 2.0
SEW- BV02-4	1/4" OD	70.00	30.00	4.80	40.00
SEW- BV02-6	3/8" OD	75.00	30.00	7.10	40.00
SEW- BV02-8	1/2" OD	85.00	35.00	10.40	45.00
SEW-BV02-12	3/4" OD	95.00	45.00	15.00	55.00
SEW-BV02-16	1" OD	105.00	50.00	22.00	60.00

Part No.	Description	Material	Qty
1	BODY	SS 316	01
2	ADAPTER	SS 316	01
3	BALL	SS 316	01
4	STEM	SS 316	01
5	BALL SEATS	PTFE	02
6	GLAND PACKING	PTFE	01
7	GASKET	PTFE	01
8	THRUST WASHER	SS 304	01
9	SPRING WASHER	SS 304	01
10	LOCK NUT	SS 304	01
11	STOP PIN	SS 304	01
12	HANDLE	CS PLATED	01
13	SLEEVE	PVC	01
14	NUT	SS 316	02
15	FRONT FERRULE	SS 316	02
16	BACK FERRULE	SS 316	02

All dimensions are for reference only, and are subject to change without prior notice. Sizes and types other than those featured above are available on request.

## Model : SEW-BV03

**BALL VALVE (3 PC DESIGN)**  
**FEMALE SCREWED END**



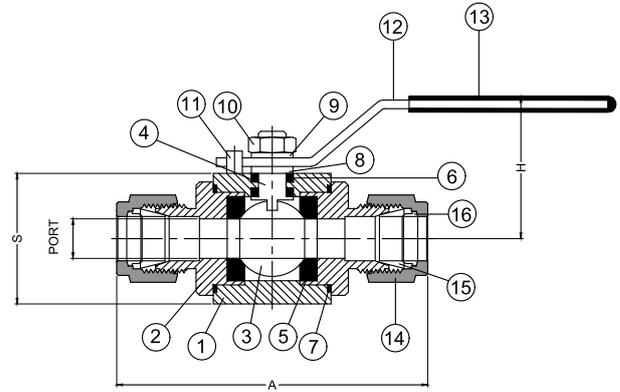
Part No.	Size (NPT)	A +/- 2.0	S +/-2.0	PORT	H +/- 2.0
SEW-BV03-4	1/4"	60.00	28.00	4.80	38.00
SEW-BV03-6	3/8"	60.00	28.00	7.10	38.00
SEW-BV03-8	1/2"	85.00	35.00	10.40	45.00
SEW-BV03-12	3/4"	100.00	40.00	15.00	50.00
SEW-BV03-16	1"	110.00	50.00	25.00	60.00

Part No.	Description	Material	Qty
1	BODY	SS 316	01
2	ADAPTER	SS 316	02
3	BALL	SS 316	01
4	STEM	SS 316	01
5	BALL SEATS	PTFE	02
6	GLAND PACKING	PTFE	01
7	GASKET	PTFE	02
8	THRUST WASHER	SS 304	01
9	SPRING WASHER	SS 304	01
10	LOCK NUT	SS 304	01
11	STOP PIN	SS 304	01
12	HANDLE	CS PLATED	01
13	SLEEVE	PVC	01

All dimensions are for reference only, and are subject to change without prior notice. Sizes and types other than those featured above are available on request.

## Model : SEW-BV04

**BALL VALVE (3 PC DESIGN)**  
**DOUBLE FERRULE TUBE FITTING END**



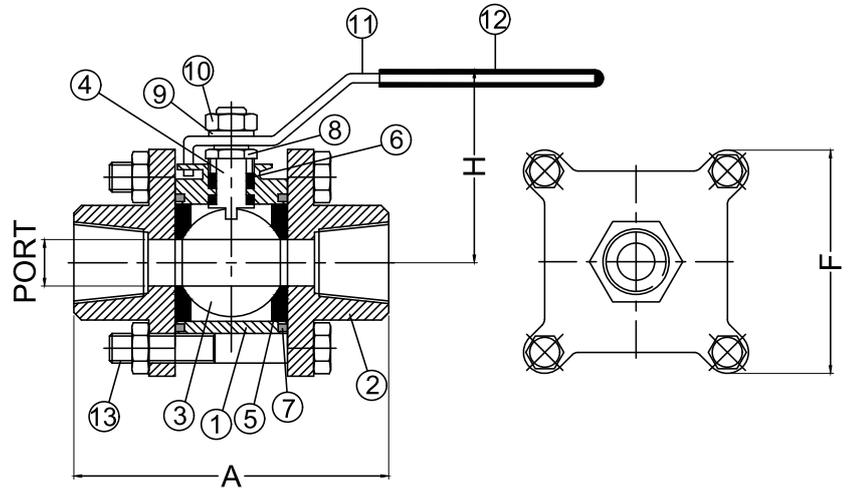
Part No.	Size	A +/- 2.0	S +/-2.0	PORT	H +/- 2.0
SEW-BV04-4	1/4" OD	79.00	30.00	4.80	40.00
SEW-BV04-6	3/8" OD	85.00	30.00	7.10	40.00
SEW-BV04-8	1/2" OD	94.00	38.00	10.40	48.00
SEW-BV04-12	3/4" OD	110.00	45.00	15.00	55.00
SEW-BV04-16	1" OD	118.00	50.00	22.00	60.00

Part No.	Description	Material	Qty
1	BODY	SS 316	01
2	ADAPTER	SS 316	02
3	BALL	SS 316	01
4	STEM	SS 316	01
5	BALL SEATS	PTFE	02
6	GLAND PACKING	PTFE	01
7	GASKET	PTFE	02
8	THRUST WASHER	SS 304	01
9	SPRING WASHER	SS 304	01
10	LOCK NUT	SS 304	01
11	STOP PIN	SS 304	01
12	HANDLE	CS PLATED	01
13	SLEEVE	PVC	01
14	NUT	SS 316	02
15	FRONT FERRULE	SS 316	02
16	BACK FERRULE	SS 316	02

All dimensions are for reference only, and are subject to change without prior notice. Sizes and types other than those featured above are available on request.

## Model : SEW-BV05

**BALL VALVE (3 PC BOLTED DESIGN)  
 FEMALE SCREWED END**

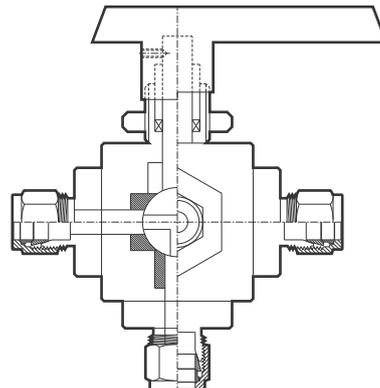
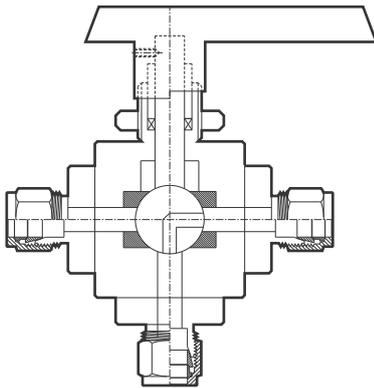


Part No.	Size (NPT)	A +/- 2.0	F +/-2.0	PORT	H +/- 2.0
SEW-BV05-8	1/2"	72.00	46.00	15.00	50.00
SEW-BV05-12	3/4"	80.00	52.00	19.00	55.00
SEW-BV05-16	1"	87.00	60.00	25.00	65.00

Part No.	Description	Material	Qty
1	BODY	SS 316	01
2	ADAPTER	SS 316	02
3	BALL	SS 316	01
4	STEM	SS 316	01
5	BALL SEATS	PTFE	02
6	GLAND PACKING	PTFE	01
7	GASKET	PTFE	02
8	GLAND NUT	SS 304	01
9	SPRING WASHER	SS 304	01
10	LOCK NUT	SS 304	01
11	HANDLE	CS PLATED	01
12	SLEEVE	PVC	01
13	STUD	SS	04

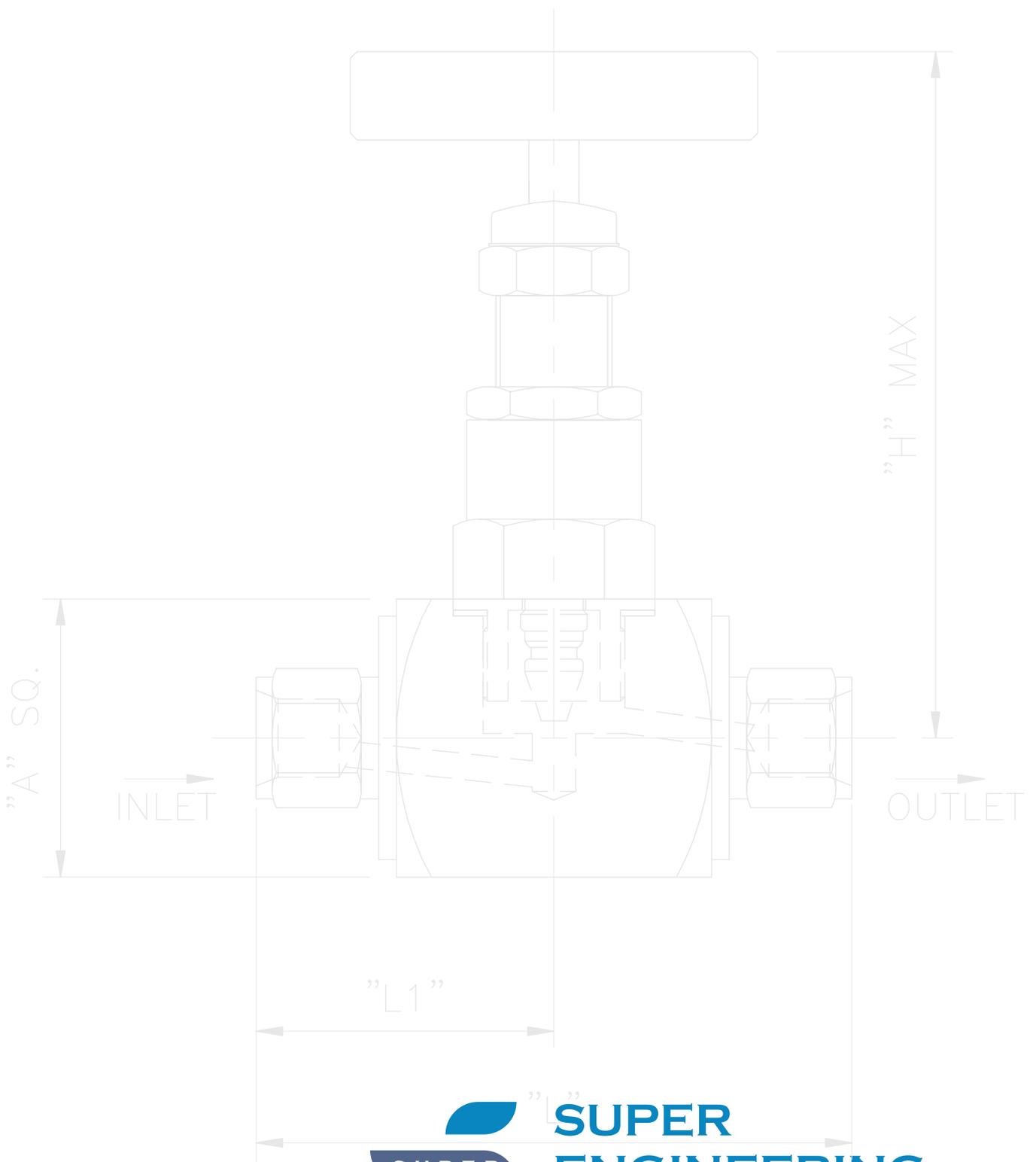
All dimensions are for reference only, and are subject to change without prior notice. Sizes and types other than those featured above are available on request.

## Model : SEW-BV06



### Features:

- 3 way and 5 way switching valve and 4 way cross over valve models are made.
- One-piece ball stem eliminates backlash to ensure alignment of ball and orifice.
- Blow out proof bottom loaded stem.
- Heavy directional black unbreakable handle
- Panel mounting facility and low operating torque
- Series of endconnections 1/4", 3/8", 1/2" double or single ferrule tube end or male/female NPT, BSP pipe end.
- Pressure rating up to 3000 *psi*/210 *bar* at 100°F / 37° C.
- Material of construction: SS, M.S, Monel, Brass, Aluminum, Titanium, and Hastalloy.
- 100% factory tested.



**SUPER**  
**ENGINEERING**  
**WORKS**

INSTRUMENTATION FITTINGS & VALVES



Gala No. 2, Munshi Compound,  
Behind A R Paradise Hotel, Kashmirira,  
Miraroad (E), Thane 401 107.



superengineering5550@gmail.com



+91 7021984169



**SUPER  
ENGINEERING  
WORKS**

**INSTRUMENTATION FITTINGS & VALVES**

# **FLARE FITTINGS**



[www.superengworks.com](http://www.superengworks.com)

AN ISO 9001:2015 CERTIFIED COMPANY

## Introduction

**SUPER ENGINEERING WORKS** an **ISO 9001:2015** Certified Company engaged in the business of manufacturing and marketing of high quality instrumentation products such as:-

- Double Ferrule Compression Tube Fittings
- Industrial Valves
- Precision Pipe Fittings
- Flare Fittings

**SUPER ENGINEERING WORKS** manufactures all the above product to a very precise tolerance under a strict supervision which are tested at normal and extreme condition to withstand the high performance demands such as high pressure, vacuum, vibration, impulse and temperature being used for Chemical, Petrochemicals, Fertilizers, Pharmaceuticals, Marine, Power as well as other major industries.

## MANUFACTURING FACILITY

**SUPER ENGINEERING WORKS** has inhouse manufacturing facilities with modern precision machineries, instruments, gauges and skilled workforce with total commitment to meet and fulfill the increasing demands and requirements of our customers.

## QUALITY POLICY

**SUPER ENGINEERING WORKS** endeavour to satisfy our customer through prompt supply of quality products. We do so through periodic revieTCs and continuously improving the products, process and systems.

## OUR AIM

**SUPER ENGINEERING WORKS** aims to be the benchmark setter in the industry by providing high standard quality products with total customer's satisfaction.

ISO  
CERTIFICATE



## FLARE FITTINGS

### INDEX

				
<b>MALE CONNECTOR</b> 4	<b>MALE CONNECTOR STRIGHT</b> 5/6	<b>UNION</b> 6	<b>FEMALE CONNECTOR</b> 7	<b>LARGE HEX UNION</b> 8
				
<b>REDUCING ADAPTER</b> 9	<b>SLEEVE</b> 10	<b>BLUKHEAD UNION</b> 11	<b>BULKHEAD LOCK NUT</b> 12	<b>TUBE CAP</b> 13
				
<b>TUBE PLUG</b> 14	<b>MALE ELBOW</b> 15/16	<b>45 MALE ELBOW</b> 16	<b>FEMALE ELBOW</b> 17	<b>UNION ELBOW</b> 18
				
<b>MALE BRANCH TEE</b> 19	<b>ADJUSTABLE MALE BRANCH TEE</b> 20	<b>MALE RUN TEE</b> 21	<b>FEMALE BRANCH TEE</b> 22	<b>FEMALE RUN TEE</b> 23/24
				
<b>UNION TEE</b> 24	<b>SWIVEL RUN TEE</b> 25	<b>SWIVEL BRANCH TEE</b> 26	<b>UNION CROSS</b> 27	<b>ADJUSTABLE MALE ELBOW</b> 28

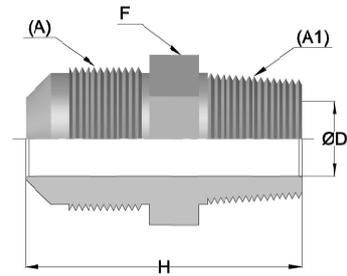
**MOC** : Stainless Steel / Carbon Steel / Alloy Steel / Nickel Alloy / Brass / Teflon

**End Connections** : NPT / BSP / BSPT / UNF / METRIC / SW / Plain

**Size** : 1/8" to 2" ; 3mm to 50mm OD

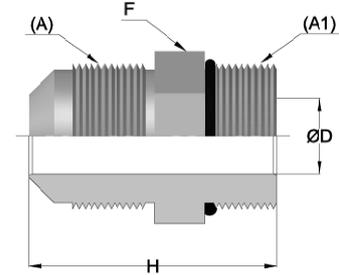
**Pressure Rating** : Upto 9000 PSI

# MALE CONNECTOR SEW-MC



Super Engg. Part No	Tube OD (A)		(A1) NPT			
	inch	mm		H	D	F
SEW-MC-2N2	1/8	3	1/8	28.20	1.60	11.10
SEW-MC-3N2	3/16	4	1/8	29.00	3.20	11.10
SEW-MC-4N2	1/4	6	1/8	31.00	4.40	12.70
SEW-MC-4N4	1/4	6	1/4	36.00	4.40	14.30
SEW-MC-5N2	5/16	8	1/8	42.70	4.40	22.20
SEW-MC-5N4	5/16	8	1/4	31.00	4.80	14.30
SEW-MC-6N2	3/8	10	1/8	36.10	6.00	14.30
SEW-MC-6N4	3/8	10	1/4	31.80	4.80	15.90
SEW-MC-6N6	3/8	10	3/8	36.30	7.10	15.90
SEW-MC-8N4	1/2	12	1/4	36.30	7.50	19.10
SEW-MC-8N6	1/2	12	3/8	42.50	7.50	22.20
SEW-MC-8N8	1/2	12	1/2	38.90	7.10	20.60
SEW-MC-10N8	5/8	16	1/2	38.90	9.90	20.60
SEW-MC-12N8	3/4	18	1/2	45.50	9.90	22.20
SEW-MC-12N12	3/4	18	3/4	47.00	9.90	28.60
SEW-MC-14N12	7/8	22	3/4	43.10	9.90	23.80
SEW-MC-16N16	1	25	1	48.00	12.30	23.80
SEW-MC-18N18	1 1/4	32	1 1/4	49.50	12.30	28.60
SEW-MC-20N20	1 1/2	38	1 1/2	52.30	15.50	28.60
SEW-MC-22N22	2	50	2	57.10	15.50	34.90

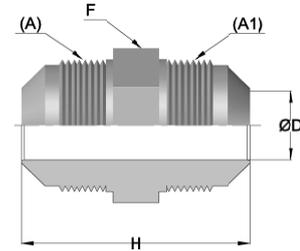
## MALE CONNECTOR SEW-MC (37° JIC X SAE / MS STRAIGHT)



Super Engg. Part No	Tube OD (A)		(A1) SAE / MS	Dimensions		
	inch	mm		H	D	F
SEW-MC-2N5	1/8	3	5/16-24	26.90	1.60	11.10
SEW-MC-3N3	3/16	4	3/8-24	27.90	3.20	12.70
SEW-MC-4N7	1/4	6	7/16-20	31.20	4.40	14.30
SEW-MC-4N1	1/4	6	1/2-20	31.20	4.40	15.90
SEW-MC-4N9	1/4	6	9/16-18	33.00	4.40	17.50
SEW-MC-4N3	1/4	6	3/4-16	34.80	4.40	22.20
SEW-MC-5N1	5/16	8	1/2-20	31.20	6.00	15.90
SEW-MC-6N9	3/8	10	9/16-18	33.00	7.50	17.50
SEW-MC-6N3	3/8	10	3/4-16	35.10	7.50	22.20
SEW-MC-6N7	3/8	10	7/8-14	38.10	7.50	25.40
SEW-MC-8N9	1/2	12	9/16-18	36.60	7.50	20.60
SEW-MC-8N3	1/2	12	3/4-16	37.60	9.90	22.20
SEW-MC-8N7	1/2	12	7/8-14	40.60	9.90	25.40
SEW-MC-8N1	1/2	12	1 1/16-12	44.70	9.90	31.80
SEW-MC-10N1	5/8	16	3/4-16	40.60	10.70	23.80
SEW-MC-10N7	5/8	16	7/8-14	43.20	12.30	25.40
SEW-MC-10N1	5/8	16	1 1/16-12	47.20	12.30	31.80
SEW-MC-12N3	3/4	18	3/4-16	45.20	10.70	28.60
SEW-MC-12N7	3/4	18	7/8-14	46.40	12.70	28.60
SEW-MC-12N1	3/4	18	1 1/16-12	50.00	15.50	31.80
SEW-MC-12N5	3/4	18	1 5/16-12	50.80	15.50	38.10
SEW-MC-14N3	7/8	22	1 3/16-12	50.50	18.30	34.90
SEW-MC-14N5	7/8	22	1 5/16-12	51.30	18.30	38.10
SEW-MC-16N1	1	25	1 1/16-12	51.10	16.70	34.90
SEW-MC-16N3	1	25	1 3/16-12	51.80	18.30	34.90
SEW-MC-16N5	1	25	1 5/16-12	51.80	21.50	38.10

All dimensions are for reference only, and are subject to change without prior notice. Sizes and types other than those featured above are available on request.

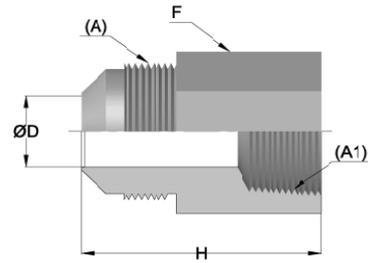
# UNION SEW-U 37° JIC



Super Engg. Part No	Tube OD (A) (Flare)		Dimensions		
	inch	mm	H	D	F
SEW-U-2N3	1/8	3	29.70	1.60	11.10
SEW-U-3N4	3/16	4	31.20	3.20	11.10
SEW-U-4N6	1/4	6	34.80	4.40	12.70
SEW-U-5N8	5/16	8	34.80	6.00	14.30
SEW-U-6N10	3/8	10	35.80	7.50	15.90
SEW-U-8N12	1/2	12	41.10	9.90	20.60
SEW-U-10N16	5/8	16	47.80	12.30	23.80
SEW-U-12N18	3/4	18	54.90	15.50	28.60
SEW-U-14N22	7/8	22	56.10	18.00	31.80
SEW-U-16N25	1	25	57.20	21.50	34.90
SEW-U-18N32	1 1/4	32	61.70	27.50	42.90
SEW-U-20N38	1 1/2	38	69.80	33.00	50.80
SEW-U-22N50	2	50	86.40	45.00	66.70

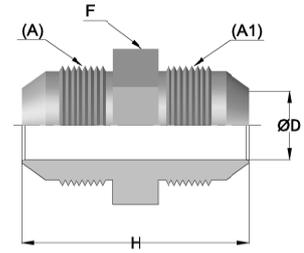
All dimensions are for reference only, and are subject to change without prior notice. Sizes and types other than those featured above are available on request.

## FEMALE CONNECTOR SEW-FC 37° JIC (MALE) X NPT (FEMALE)



Super Engg. Part No	Tube OD (A)		(A1) NPT	Dimensions		
	inch	mm		H	D	F
SEW-FC-2N2	1/8	3	1/8	28.40	1.60	14.30
SEW-FC-3J2	3/16	4	1/8	28.70	3.20	14.30
SEW-FC-4N2	1/4	6	1/8	30.20	4.40	14.30
SEW-FC-4N4	1/4	6	1/4	35.30	4.40	19.10
SEW-FC-2N2	5/16	8	1/8	29.70	6.00	14.30
SEW-FC-4N4	5/16	8	1/4	35.30	6.00	19.10
SEW-FC-6N2	3/8	10	1/8	35.60	7.50	19.10
SEW-FC-6N4	3/8	10	1/4	37.10	7.50	22.20
SEW-FC-6N6	3/8	10	3/8	39.60	9.90	22.20
SEW-FC-8N4	1/2	12	1/4	45.60	9.90	28.60
SEW-FC-8N6	1/2	12	3/8	48.00	12.30	28.60
SEW-FC-8N8	1/2	12	1/2	52.10	15.50	28.60
SEW-FC-10N8	5/8	16	1/2	52.30	15.50	34.90
SEW-FC-12N8	3/4	18	1/2	52.30	18.30	34.90
SEW-FC-12N12	3/4	18	3/4	59.70	21.50	41.30
SEW-FC-14N12	7/8	22	3/4	63.20	27.50	50.80
SEW-FC-16N16	1	25	1	66.50	33.00	60.30
SEW-FC-18N18	1 1/4	32	1 1/4	75.40	45.00	73.00
SEW-FC-20N20	1 1/2	38	1 1/2	28.40	1.60	14.30
SEW-FC-22N22	2	50	2	28.70	3.20	14.30

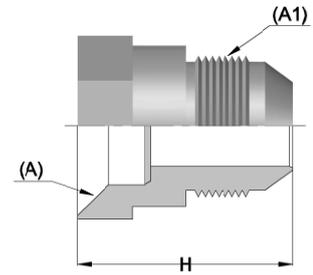
# LARGE HEX UNION      SEW-LHU 37° JIC



Super Engg. Part No	Tube OD (A)		Dimensions		
	inch	mm	H	D	F
SEW-LHU-2N3	1/8	3	29.70	1.60	14.30
SEW-LHU-3N4	3/16	4	31.20	3.20	15.90
SEW-LHU-4N6	1/4	6	34.80	4.40	17.50
SEW-LHU-5N8	5/16	8	34.80	6.00	19.10
SEW-LHU-6N10	3/8	10	35.80	7.50	20.60
SEW-LHU-8N12	1/2	12	41.10	9.90	25.40
SEW-LHU-10N16	5/8	16	47.80	12.30	28.60
SEW-LHU-12N18	3/4	18	54.90	15.50	34.90
SEW-LHU-14N22	7/8	22	56.10	18.30	38.10
SEW-LHU-16N25	1	25	57.20	21.50	41.30
SEW-LHU-18N32	1 1/4	32	61.70	27.50	47.60
SEW-LHU-20N38	1 1/2	38	69.80	33.00	54.00
SEW-LHU-22N50	2	50	86.40	45.00	69.90

All dimensions are for reference only, and are subject to change without prior notice. Sizes and types other than those featured above are available on request.

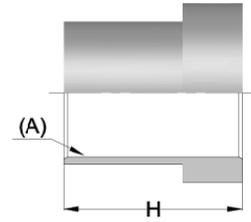
# REDUCING ADAPTER SEW-RA 37° JIC



Super Engg. Part No	Tube OD (A)		Tube OD (A)		Dimension
	inch	mm	inch	mm	H
SEW-RA-6N4	3/8	10	1.60	1/4	6.00
SEW-RA-8N4	1/2	12	3.20	1/4	6.00
SEW-RA-8N6	1/2	12	4.40	3/8	10.00
SEW-RA-10N4	5/8	16	4.40	1/4	6.00
SEW-RA-10N6	5/8	16	4.80	3/8	10.00
SEW-RA-12N4	3/4	18	6.00	1/4	6.00
SEW-RA-12N6	3/4	18	4.80	3/8	10.00
SEW-RA-12N8	3/4	18	7.10	1/2	12.00
SEW-RA-14N6	7/8	22	7.50	3/8	10.00
SEW-RA-14N10	7/8	22	7.50	5/8	16.00
SEW-RA-16N4	1	25	7.10	1/4	6.00
SEW-RA-16N6	1	25	9.90	3/8	10.00
SEW-RA-16N8	1	25	9.90	1/2	12.00
SEW-RA-16N10	1	25	9.00	5/8	16.00
SEW-RA-16N12	1	25	9.90	3/4	18.00
SEW-RA-18N12	1 1/4	32	12.30	3/4	18.00
SEW-RA-18N16	1 1/4	32	12.30	1	25.00
SEW-RA-20N8	1 1/2	38	15.50	1/2	12.00
SEW-RA-20N12	1 1/2	38	15.50	3/4	18.00
SEW-RA-20N16	1 1/2	38	18.30	1	25.00
SEW-RA-22N20	2	50	18.30	1 1/2	38.00

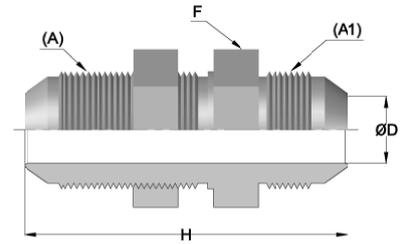
All dimensions are for reference only, and are subject to change without prior notice. Sizes and types other than those featured above are available on request.

# SLEEVE SEW-S 37° JIC



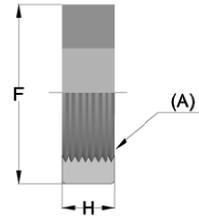
Super Engg. PART NO		Tube OD (A)		Dimension
inch	mm	inch	mm	H
SEW-S-2N3	SEW-S-3MN	1/8	3.00	8.60
SEW-S-3N4	SEW-S-4MN	3/16	4.00	8.60
SEW-S-4N6	SEW-S-6MN	1/4	6.00	10.40
SEW-S-5N8	SEW-S-8MN	5/16	8.00	11.20
SEW-S-6N10	SEW-S-10MN	3/8	10.00	12.70
SEW-S-8N12	SEW-S-12MN	1/2	12.00	14.20
SEW-S-10N16	SEW-S-16MN	5/8	16.00	16.80
SEW-S-12N18	SEW-S-18MN	3/4	18.00	17.30
SEW-S-14N22	SEW-S-22MN	7/8	22.00	19.30
SEW-S-16N25	SEW-S-25MN	1	25.00	19.80
SEW-S-18N32	SEW-S-32MN	1 1/4	32.00	23.10
SEW-S-20N38	SEW-S-38MN	1 1/2	38.00	28.40
SEW-S-22N50	SEW-S-50MN	2	50.00	30.20

# BULKHEAD UNION SEW-BU 37° JIC



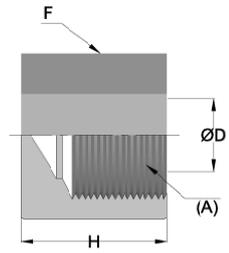
Super Engg. Part No	Tube OD (A)		Dimensions		
	inch	mm	H	D	F
SEW-BU-2N3	1/8	3	48.30	3.20	15.90
SEW-BU-3N4	3/16	4	52.60	4.40	17.50
SEW-BU-4N6	1/4	6	52.60	6.00	19.10
SEW-BU-5N8	5/16	8	55.40	7.50	20.60
SEW-BU-6N10	3/8	10	62.00	9.90	25.40
SEW-BU-8N12	1/2	12	69.60	12.30	28.60
SEW-BU-10N16	5/8	16	78.50	15.50	34.90
SEW-BU-12N18	3/4	18	79.20	18.30	38.10
SEW-BU-14N22	7/8	22	79.80	21.50	41.30
SEW-BU-16N25	1	25	84.10	27.50	47.60
SEW-BU-18N32	1 1/4	32	89.40	33.00	54.00
SEW-BU-20N38	1 1/2	38	106.70	45.00	69.90
SEW-BU-22N50	2	50	48.30	3.20	15.90

# BULKHEAD LOCK NUT    SEW-BLN 37° JIC



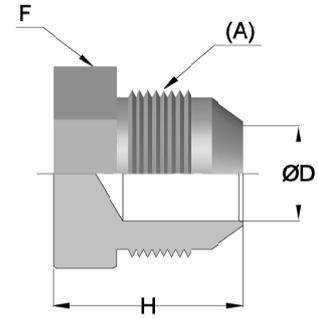
Super Engg. Part No	Tube OD (A)		Dimensions	
	inch	mm	H	D
SEW-BLN-2N3	1/8	3	5.60	15.90
SEW-BLN-3N4	3/16	4	7.10	17.50
SEW-BLN-4N6	1/4	6	7.10	19.10
SEW-BLN-5N8	5/16	8	6.90	20.60
SEW-BLN-6N10	3/8	10	7.90	25.40
SEW-BLN-8N12	1/2	12	9.10	28.60
SEW-BLN-10N16	5/8	16	10.40	34.90
SEW-BLN-12N18	3/4	18	10.40	38.10
SEW-BLN-14N22	7/8	22	10.40	41.30
SEW-BLN-16N25	1	25	10.40	47.60
SEW-BLN-18N32	1 1/4	32	10.40	54.00
SEW-BLN-20N38	1 1/2	38	10.40	69.90
SEW-BLN-22N50	2	50	5.60	15.90

# TUBE CAP SEW-TC 37° JIC



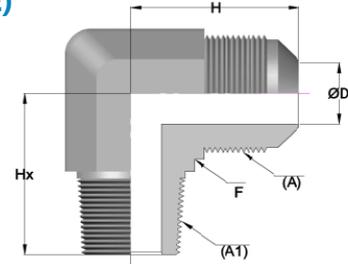
Super Engg. Part No	Tube OD (A)		Dimensions		
	inch	mm	H	D	F
SEW-TC-2N3	1/8	3	12.70	1.60	9.50
SEW-TC-3N4	3/16	4	14.30	3.20	11.10
SEW-TC-4N6	1/4	6	15.10	4.40	14.30
SEW-TC-5N8	5/16	8	15.50	6.00	15.90
SEW-TC-6N10	3/8	10	15.90	7.50	17.50
SEW-TC-8N12	1/2	12	19.10	9.90	22.20
SEW-TC-10N16	5/8	16	21.40	12.30	25.40
SEW-TC-12N18	3/4	18	23.00	15.50	31.80
SEW-TC-14N22	7/8	22	24.60	18.30	34.90
SEW-TC-16N25	1	25	25.80	21.50	38.10
SEW-TC-18N32	1 1/4	32	27.00	27.50	50.80
SEW-TC-20N38	1 1/2	38	30.20	33.00	57.20
SEW-TC-22N50	2	50	36.50	45.00	73.00

# TUBE PLUG SEW-TC 37° JIC



Super Engg. Part No	Tube OD (A)		Dimensions		
	inch	mm	H	D	F
SEW-TP-2N3	1/8	3	17.80	1.60	11.10
SEW-TP-3N4	3/16	4	18.50	3.20	11.10
SEW-TP-4N6	1/4	6	20.30	4.40	12.70
SEW-TP-5N8	5/16	8	20.30	6.00	14.30
SEW-TP-6N10	3/8	10	21.30	7.50	15.90
SEW-TP-8N12	1/2	12	23.90	9.90	20.60
SEW-TP-10N16	5/8	16	27.90	12.30	23.80
SEW-TP-12N18	3/4	18	32.50	15.50	28.60
SEW-TP-14N22	7/8	22	33.30	18.30	31.80
SEW-TP-16N25	1	25	33.80	21.50	34.90
SEW-TP-18N32	1 1/4	32	36.80	27.50	42.90
SEW-TP-20N38	1 1/2	38	41.90	33.00	50.80
SEW-TP-22N50	2	50	52.10	45.00	66.70

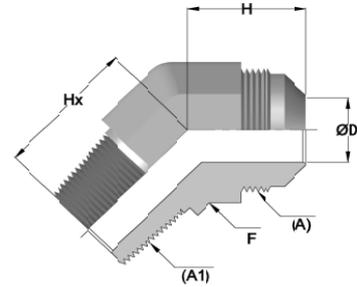
## MALE ELBOW SEW-TC 37° JIC (MALE) X NPT (MALE)



Super Engg. Part No	Tube OD (A)		(A1) NPT	Dimensions			
	inch	mm		H	D	F	Hx
SEW-ME-2N2	1/8	3	1/8	19.60	1.60	11.10	18.30
SEW-ME-3N2	3/16	4	1/8	21.10	3.20	11.10	18.30
SEW-ME-4N2	1/4	6	1/8	22.60	4.40	12.70	19.80
SEW-ME-4N4	1/4	6	1/4	26.90	4.40	14.30	27.70
SEW-ME-5N2	5/16	8	1/8	24.10	4.80	14.30	19.80
SEW-ME-5N4	5/16	8	1/4	26.90	6.00	14.30	27.70
SEW-ME-6N2	3/8	10	1/8	26.90	4.80	14.30	22.80
SEW-ME-6N4	3/8	10	1/4	26.90	7.10	14.30	27.70
SEW-ME-6N6	3/8	10	3/8	29.00	7.50	17.50	31.00
SEW-ME-6N8	3/8	10	1/2	31.20	7.50	20.60	37.30
SEW-ME-8N4	1/2	12	1/4	31.80	7.10	20.60	31.00
SEW-ME-8N6	1/2	12	3/8	31.80	9.90	20.60	31.00
SEW-ME-8N8	1/2	12	1/2	33.70	9.90	20.60	37.30
SEW-ME-8N12	1/2	12	3/4	36.00	9.00	25.40	40.40
SEW-ME-10N6	5/8	16	3/8	36.80	9.90	20.60	33.00
SEW-ME-10N8	5/8	16	1/2	36.80	12.30	20.60	37.30
SEW-ME-10N12	5/8	16	3/4	38.90	12.30	25.40	40.40
SEW-ME-12N12	3/4	18	3/4	42.20	15.50	27.00	40.40
SEW-ME-12N16	3/4	18	1	42.20	15.50	31.80	50.40
SEW-ME-14N12	7/8	22	3/4	45.70	18.30	31.80	42.90
SEW-ME-16N12	1	25	3/4	46.00	18.30	34.90	45.20
SEW-ME-16N16	1	25	1	46.00	21.50	34.90	50.00
SEW-ME-18N16	1 1/4	32	1	52.30	23.80	42.90	59.60
SEW-ME-18N32	1 1/4	32	1 1/4	52.30	27.50	42.90	60.50
SEW-ME-20N38	1 1/2	38	1 1/2	59.20	33.00	50.80	67.10
SEW-ME-22N50	2	50	2	77.70	45.00	63.50	76.20

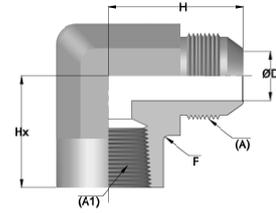
All dimensions are for reference only, and are subject to change without prior notice. Sizes and types other than those featured above are available on request.

## 45° MALE ELBOW SEW-TC 37° JIC (MALE) X NPT (MALE)



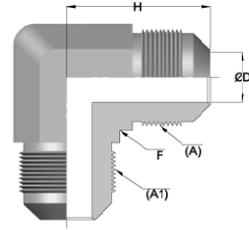
Super Engg. Part No	Tube OD (A)		(A1) NPT	Dimensions			
	inch	mm		H	D	F	Hx
SEW-45ME-2N2	1/8	3	1/8	17.50	1.60	11.10	13.20
SEW-45ME-3N2	3/16	4	1/8	17.50	3.20	11.10	13.20
SEW-45ME-4N2	1/4	6	1/8	18.30	4.40	12.70	16.30
SEW-45ME-5N2	5/16	8	1/8	19.60	4.80	14.30	16.30
SEW-45ME-6N4	3/8	10	1/4	21.10	7.10	14.30	21.80
SEW-45ME-8N6	1/2	12	3/8	24.90	9.90	17.50	24.10
SEW-45ME-10N8	5/8	16	1/2	28.20	12.30	20.60	29.70
SEW-45ME-12N12	3/4	18	3/4	32.50	15.50	27.00	30.50
SEW-45ME-14N12	7/8	22	3/4	36.80	18.30	31.80	33.00
SEW-45ME-16N16	1	25	1	37.30	21.50	34.90	37.60
SEW-45ME-18N18	1 1/4	32	1 1/4	40.40	27.50	42.90	42.40
SEW-45ME-20N20	1 1/2	38	1 1/2	45.20	33.00	50.80	45.00
SEW-45ME-22N22	2	50	2	56.40	45.00	63.50	53.60

# FEMALE ELBOW      SEW-TC 37° JIC (MALE) X NPT (FEMALE)



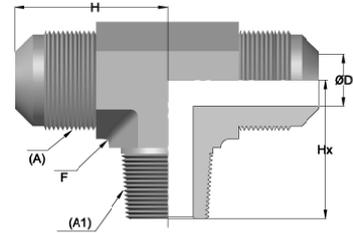
Super Engg. Part No	Tube OD (A)		(A1) NPT	Dimensions			
	inch	mm		H	D	F	Hx
SEW-FE-2N2	1/8	3	1/8	25.40	1.60	14.30	16.80
SEW-FE-3N2	3/16	4	1/8	26.20	3.20	14.30	16.80
SEW-FE-4N2	1/4	6	1/8	27.40	4.40	14.30	16.80
SEW-FE-4N4	1/4	6	1/4	30.90	4.40	20.60	22.40
SEW-FE-5N2	5/16	8	1/8	27.40	6.00	14.30	16.80
SEW-FE-5N4	5/16	8	1/4	30.90	6.00	20.60	22.40
SEW-FE-6N2	3/8	10	1/8	26.90	7.50	15.90	16.80
SEW-FE-6N4	3/8	10	1/4	31.20	7.50	20.60	22.40
SEW-FE-6N6	3/8	10	3/8	33.20	7.50	23.80	25.90
SEW-FE-8N4	1/2	12	1/4	31.60	9.90	20.60	22.40
SEW-FE-8N6	1/2	12	3/8	36.10	9.90	23.80	25.90
SEW-FE-8N8	1/2	12	1/2	36.10	9.90	27.00	31.20
SEW-FE-10N8	5/8	16	1/2	41.70	12.30	27.00	31.20
SEW-FE-12N8	3/4	18	1/2	42.10	15.50	31.80	31.20
SEW-FE-12N6	3/4	18	3/4	48.00	15.50	34.90	34.50
SEW-FE-14N6	7/8	22	3/4	47.20	18.30	34.90	36.10
SEW-FE-16N16	1	25	1	55.10	21.50	42.90	41.10
SEW-FE-18N18	1 1/4	32	1 1/4	59.20	27.50	50.80	43.20
SEW-FE-20N20	1 1/2	38	1 1/2	73.40	33.00	63.50	52.80
SEW-FE-32N22	2	50	2	83.80	45.00	63.50	60.70

# UNION ELBOWS SEW-UE 37° JIC



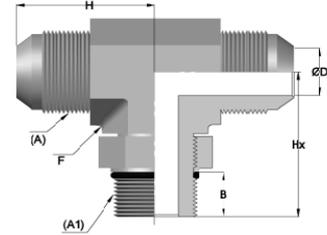
Super Engg. Part No	Tube OD (A) (Flare)		Dimensions		
	inch	mm	H	D	F
SEW-UE-2N3	1/8	3	19.60	1.60	11.10
SEW-UE-3N4	3/16	4	21.10	3.20	11.10
SEW-UE-4N6	1/4	6	22.60	4.40	12.70
SEW-UE-5N8	5/16	8	24.10	6.00	14.30
SEW-UE-6N10	3/8	10	26.90	7.50	14.30
SEW-UE-8N12	1/2	12	31.80	9.90	20.60
SEW-UE-10N16	5/8	16	36.80	12.30	20.60
SEW-UE-12N18	3/4	18	42.20	15.50	27.00
SEW-UE-14N22	7/8	22	45.70	18.30	31.80
SEW-UE-16N25	1	25	46.00	21.50	34.90
SEW-UE-18N32	1 1/4	32	52.30	27.50	42.90
SEW-UE-20N38	1 1/2	38	59.20	33.00	50.80
SEW-UE-22N50	2	50	77.70	45.00	63.50

## MALE BRANCH TEES SEW-UE 37° JIC X NPT



Super Engg. Part No	Tube OD (A)		(A1) NPT	Dimensions			
	inch	mm		H	D	F	Hx
SEW-MBT-2N2	1/8	3	1/8	19.60	1.60	11.10	18.30
SEW-MBT-3N2	3/16	4	1/8	21.10	3.20	11.10	18.30
SEW-MBT-4N2	1/4	6	1/8	22.60	4.40	12.70	19.80
SEW-MBT-4N4	1/4	6	1/4	26.90	4.40	14.30	27.70
SEW-MBT-5N2	5/16	8	1/8	24.10	4.80	14.30	19.80
SEW-MBT-5N4	5/16	8	1/4	26.90	6.00	14.30	27.70
SEW-MBT-6N2	3/8	10	1/8	26.90	4.80	14.30	22.80
SEW-MBT-6N4	3/8	10	1/4	26.90	7.10	14.30	27.70
SEW-MBT-6N6	3/8	10	3/8	29.00	7.50	17.50	31.00
SEW-MBT-8N4	1/2	12	1/4	31.20	7.50	20.60	37.30
SEW-MBT-8N6	1/2	12	3/8	31.80	7.10	20.60	31.00
SEW-MBT-8N8	1/2	12	1/2	31.80	9.90	20.60	31.00
SEW-MBT-10N8	5/8	16	1/2	33.70	9.90	20.60	37.30
SEW-MBT-12N8	3/4	18	1/2	36.00	9.00	25.40	40.40
SEW-MBT-12N4	3/4	18	3/4	36.80	9.90	20.60	33.00
SEW-MBT-14N4	7/8	22	3/4	36.80	12.30	20.60	37.30
SEW-MBT-16N16	1	25	1	38.90	12.30	25.40	40.40
SEW-MBT-18N18	1 1/4	32	1 1/4	42.20	15.50	27.00	40.40
SEW-MBT-20N20	1 1/2	38	1 1/2	42.20	15.50	31.80	50.40
SEW-MBT-20N22	2	50	2	45.70	18.30	31.80	42.90

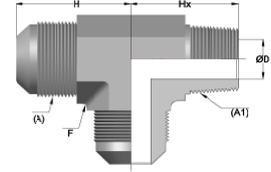
## ADJUSTABLE MALE BRANCH TEES SEW-AMBT



Super Engg. Part No	Tube OD (A)		(A1) SAE/MS	Dimensions				
	inch	mm		H	D	F	Hx	B
SEW-AMBT-2N3	1/8	3	5/16-24	19.60	1.60	11.10	23.90	8.40
SEW-AMBT-3N4	3/16	4	3/8-24	21.10	3.20	11.10	23.90	8.40
SEW-AMBT-4N6	1/4	6	7/16-20	22.60	4.40	12.70	26.20	9.80
SEW-AMBT-5N8	5/16	8	1/2-20	24.10	6.00	14.30	28.70	9.80
SEW-AMBT-6N10	3/8	10	9/16-18	26.90	7.50	15.90	31.80	11.00
SEW-AMBT-8N12	1/2	12	3/4-16	31.80	9.90	20.60	36.80	12.50
SEW-AMBT-10N16	5/8	16	7/8-14	36.80	12.30	23.80	43.20	14.20
SEW-AMBT-12N18	3/4	18	1 1/16-12	42.20	15.50	31.80	49.30	16.50
SEW-AMBT-14N22	7/8	22	1 3/16-12	45.70	18.30	31.80	50.80	16.50
SEW-AMBT-16N25	1	25	1 5/16-12	46.00	21.50	34.90	52.10	16.50
SEW-AMBT18N32	1 1/4	32	1 5/8-12	52.30	27.50	42.90	57.20	16.50
SEW-AMBT-20N38	1 1/2	38	1 7/8-12	59.20	33.00	50.80	60.70	16.50
SEW-AMBT-22N50	2	50	2 1/2-12	77.70	45.00	63.50	73.40	16.50

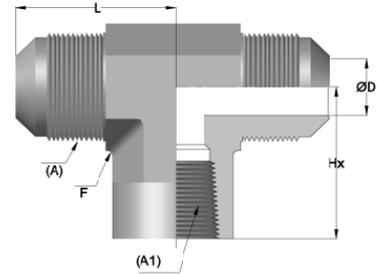
# MALE RUN TEES

SEW-MRT 37° JIC X NPT (MALE) X 37° JIC



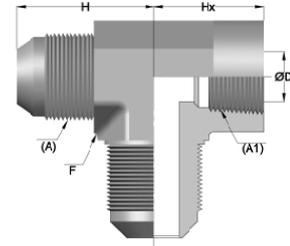
Super Engg. Part No	Tube OD (A)		(A1) NPT	DimSEWSIONS			
	inch	mm		H	D	F	Hx
SEW-MRT-2N2	1/8	3	1/8	19.60	1.60	11.10	18.30
SEW-MRT-3N2	3/16	4	1/8	21.10	3.20	11.10	18.30
SEW-MRT-4N2	1/4	6	1/8	22.60	4.40	12.70	19.80
SEW-MRT-4N4	1/4	6	1/4	26.90	4.40	14.30	27.70
SEW-MRT-5N2	5/16	8	1/8	24.10	4.80	14.30	19.80
SEW-MRT-5N4	5/16	8	1/4	26.90	6.00	14.30	27.70
SEW-MRT-6N2	3/8	10	1/8	26.90	4.80	14.30	22.80
SEW-MRT-6N4	3/8	10	1/4	26.90	7.10	14.30	27.70
SEW-MRT-6N6	3/8	10	3/8	29.00	7.50	17.50	31.00
SEW-MRT-6N8	3/8	10	1/2	31.20	7.50	20.60	37.30
SEW-MRT-8N4	1/2	12	1/4	31.80	7.10	20.60	31.00
SEW-MRT-8N6	1/2	12	3/8	31.80	9.90	20.60	31.00
SEW-MRT-8N8	1/2	12	1/2	33.70	9.90	20.60	37.30
SEW-MRT-8N12	1/2	12	3/4	36.00	9.00	25.40	40.40
SEW-MRT-10N6	5/8	16	3/8	36.80	9.90	20.60	33.00
SEW-MRT-10N8	5/8	16	1/2	36.80	12.30	20.60	37.30
SEW-MRT-10N12	5/8	16	3/4	38.90	12.30	25.40	40.40
SEW-MRT-12N112	3/4	18	3/4	42.20	15.50	27.00	40.40
SEW-MRT-12N16	3/4	18	1	42.20	15.50	31.80	50.40
SEW-MRT-14N12	7/8	22	3/4	45.70	18.30	31.80	42.90
SEW-MRT-16N12	1	25	3/4	46.00	18.30	34.90	45.20
SEW-MRT-16N16	1	25	1	46.00	21.50	34.90	50.00
SEW-MRT-18N16	1 1/4	32	1	52.30	23.80	42.90	59.60
SEW-MRT-18N18	1 1/4	32	1 1/4	52.30	27.50	42.90	60.50
SEW-MRT-20N20	1 1/2	38	1 1/2	59.20	33.00	50.80	67.10
SEW-MRT-22N22	2	50	2	77.70	45.00	63.50	76.20

## FEMALE BRANCH TEES SEW-FBT 37° JIC X 37° JIC X NPT (FEMALE)



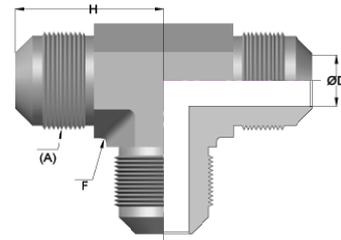
Super Engg. Part No	Tube OD (A)		(A1) NPT	DimSEWsions			
	inch	mm		H	D	F	Hx
SEW-FBT-2N2	1/8	3	1/8	25.40	1.60	14.30	16.80
SEW-FBT-3N2	3/16	4	1/8	26.20	3.20	14.30	16.80
SEW-FBT-4N2	1/4	6	1/8	27.40	4.40	14.30	16.80
SEW-FBT-4N4	1/4	6	1/4	30.90	4.40	20.60	22.40
SEW-FBT-5N2	5/16	8	1/8	27.40	6.00	14.30	16.80
SEW-FBT-5N4	5/16	8	1/4	30.90	6.00	20.60	22.40
SEW-FBT-6N2	3/8	10	1/8	26.90	7.50	15.90	16.80
SEW-FBT-6N4	3/8	10	1/4	31.20	7.50	20.60	22.40
SEW-FBT-6N6	3/8	10	3/8	33.20	7.50	23.80	25.90
SEW-FBT-8N4	1/2	12	1/4	31.60	9.90	20.60	22.40
SEW-FBT-8N6	1/2	12	3/8	36.10	9.90	23.80	25.90
SEW-FBT-8N8	1/2	12	1/2	36.10	9.90	27.00	31.20
SEW-FBT-10N8	5/8	16	1/2	41.70	12.30	27.00	31.20
SEW-FBT-12N8	3/4	18	1/2	42.10	15.50	31.80	31.20
SEW-FBT-12N12	3/4	18	3/4	48.00	15.50	34.90	34.50
SEW-FBT-14N12	7/8	22	3/4	47.20	18.30	34.90	36.10
SEW-FBT-16N16	1	25	1	55.10	21.50	42.90	41.10
SEW-FBT-20N18	1 1/4	32	1 1/4	59.20	27.50	50.80	43.20
SEW-FBT-24N20	1 1/2	38	1 1/2	73.40	33.00	63.50	52.80
SEW-FBT-32N22	2	50	2	83.80	45.00	63.50	60.70

## FEMALE RUN TEES SEW-FRT 37° JIC X NPT (FEMALE) X 37° JIC



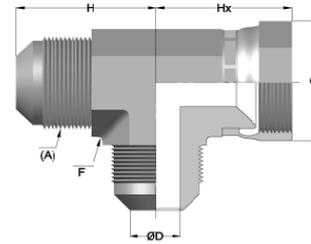
Super Engg. Part No	Tube OD (A)		(A1) NPT	Dimensions			
	inch	mm		H	D	F	Hx
SEW-FRT-2N3	1/8	3	1/8	25.40	1.60	14.30	16.80
SEW-FRT-3JN4	3/16	4	1/8	26.20	3.20	14.30	16.80
SEW-FRT-4N6	1/4	6	1/8	27.40	4.40	14.30	16.80
SEW-FRT-4N6	1/4	6	1/4	30.90	4.40	20.60	22.40
SEW-FRT-5N8	5/16	8	1/8	27.40	6.00	14.30	16.80
SEW-FRT-5N8	5/16	8	1/4	30.90	6.00	20.60	22.40
SEW-FRT-6N10	3/8	10	1/8	26.90	7.50	15.90	16.80
SEW-FRT-6N10	3/8	10	1/4	31.20	7.50	20.60	22.40
SEW-FRT-6N10	3/8	10	3/8	33.20	7.50	23.80	25.90
SEW-FRT-8N12	1/2	12	1/4	31.60	9.90	20.60	22.40
SEW-FRT-8N12	1/2	12	3/8	36.10	9.90	23.80	25.90
SEW-FRT-8N12	1/2	12	1/2	36.10	9.90	27.00	31.20
SEW-FRT-10N16	5/8	16	1/2	41.70	12.30	27.00	31.20
SEW-FRT-12N18	3/4	18	1/2	42.10	15.50	31.80	31.20
SEW-FRT-12N18	3/4	18	3/4	48.00	15.50	34.90	34.50
SEW-FRT-14N22	7/8	22	3/4	47.20	18.30	34.90	36.10
SEW-FRT-16N25	1	25	1.00	55.10	21.50	42.90	41.10
SEW-FRT-18N32	1 1/4	32	1 1/4	59.20	27.50	50.80	43.20
SEW-FRT-20N38	1 1/2	38	1 1/2	73.40	33.00	63.50	52.80
SEW-FRT-22N50	2	50	2.00	83.80	45.00	63.50	60.70

## UNION TEE SEW-UT 37° JIC



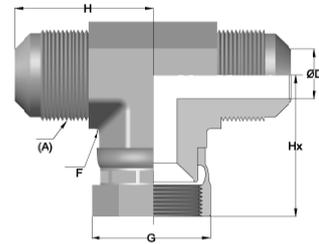
Super Engg. Part No	Tube OD (A) (Flare)		Dimensions		
	inch	mm	H	D	F
SEW-UT-2N3	1/8	3	19.60	1.60	11.10
SEW-UT-3N4	3/16	4	21.10	3.20	11.10
SEW-UT-4N6	1/4	6	22.60	4.40	12.70
SEW-UT-5N8	5/16	8	24.10	6.00	14.30
SEW-UT-6N10	3/8	10	26.90	7.50	15.90
SEW-UT-8N12	1/2	12	31.80	9.90	20.60
SEW-UT-10N16	5/8	16	36.80	12.30	23.80
SEW-UT-12N18	3/4	18	42.20	15.50	28.60
SEW-UT-14N22	7/8	22	45.70	18.00	31.80
SEW-UT-16N25	1	25	46.00	21.50	34.90
SEW-UT-18N32	1 1/4	32	52.30	27.50	42.90
SEW-UT-20N38	1 1/2	38	59.20	33.00	50.80
SEW-UT-22N50	2	50	77.70	45.00	63.50

## SWIVEL RUN TEE SEW-SRT 37° JIC X 37° JIC (FEMALE SWIVEL) X 37° JIC



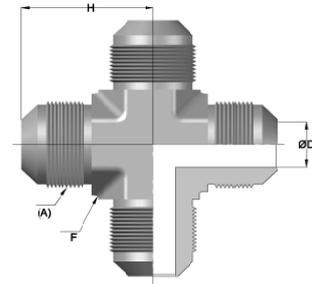
Super Engg. Part No	Tube OD (A)		Dimensions				
	inch	mm	H	D	F	Hx	G
SEW-SRT-2N3	1/8	3	19.60	1.60	11.10	24.60	11.10
SEW-SRT-3N4	3/16	4	21.10	3.20	11.10	25.40	12.70
SEW-SRT-4N6	1/4	6	22.60	4.40	12.70	25.40	14.30
SEW-SRT-5N8	5/16	8	24.10	6.00	14.30	26.90	15.90
SEW-SRT-6N10	3/8	10	26.90	7.50	15.90	31.80	17.50
SEW-SRT-8N12	1/2	12	31.80	9.90	20.60	35.10	22.20
SEW-SRT-10N16	5/8	16	36.80	12.30	23.80	41.10	25.40
SEW-SRT-12N18	3/4	18	42.20	15.50	27.00	44.40	31.80
SEW-SRT-14N22	7/8	22	45.70	18.30	31.80	45.20	34.90
SEW-SRT-16N25	1	25	46.00	21.50	34.90	50.80	38.10
SEW-SRT-18N32	1 1/4	32	52.30	27.50	42.90	58.70	50.80
SEW-SRT-20N38	1 1/2	38	59.20	33.00	50.80	65.80	60.30
SEW-SRT-22N50	2	50	77.70	45.00	63.50	85.90	73.00

## SWIVEL BRANCH TEE SEW-UT 37° JIC X 37° JIC X 37° JIC (FEMALE SWIVEL)



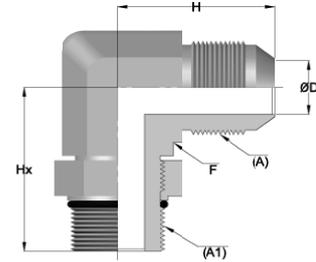
Super Engg. Part No	Tube OD (A)		Dimensions				
	inch	mm	H	D	F	Hx	G
SEW-SBT-2N3	1/8	3	19.60	1.60	11.10	24.60	11.10
SEW-SBT-3N4	3/16	4	21.10	3.20	11.10	25.40	12.70
SEW-SBT-4N6	1/4	6	22.60	4.40	12.70	25.40	14.30
SEW-SBT-5N8	5/16	8	24.10	6.00	14.30	26.90	15.90
SEW-SBT-6N10	3/8	10	26.90	7.50	15.90	31.80	17.50
SEW-SBT-8N12	1/2	12	31.80	9.90	20.60	35.10	22.20
SEW-SBT-10N16	5/8	16	36.80	12.30	23.80	41.10	25.40
SEW-SBT-12N18	3/4	18	42.20	15.50	27.00	44.40	31.80
SEW-SBT-14N22	7/8	22	45.70	18.30	31.80	45.20	34.90
SEW-SBT-16N25	1	25	46.00	21.50	34.90	50.80	38.10
SEW-SBT-18N32	1 1/4	32	52.30	27.50	42.90	58.70	50.80
SEW-SBT-20N38	1 1/2	38	59.20	33.00	50.80	65.80	60.30
SEW-SBT-22N50	2	50	77.70	45.00	63.50	85.90	73.00

# UNION CROSS SEW-UCT 37° JIC

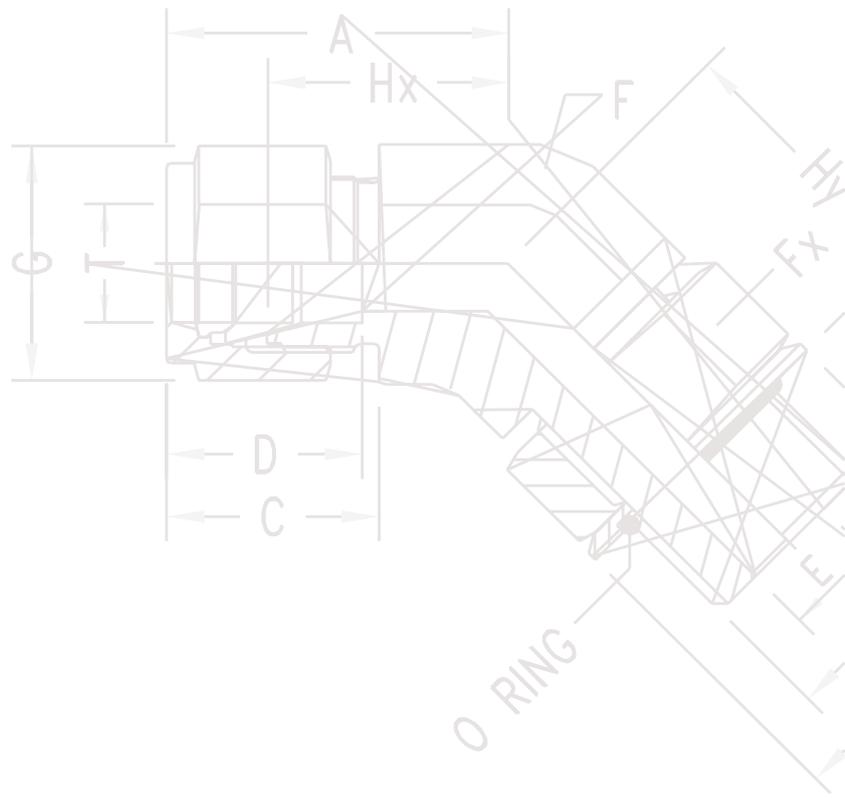


Super Engg. Part No	Tube OD (A) (Flare)		Dimensions		
	inch	mm	H	D	F
SEW-UC-2N3	1/8	3	19.60	1.60	11.10
SEW-UC-3N4	3/16	4	21.10	3.20	11.10
SEW-UC-4N6	1/4	6	22.60	4.40	12.70
SEW-UC-5N8	5/16	8	24.10	6.00	14.30
SEW-UC-6N10	3/8	10	26.90	7.50	14.30
SEW-UC-8N12	1/2	12	31.80	9.90	20.60
SEW-UC-10N16	5/8	16	36.80	12.30	20.60
SEW-UC-12N18	3/4	18	42.20	15.50	27.00
SEW-UC-14N22	7/8	22	45.70	18.30	31.80
SEW-UC-16N25	1	25	46.00	21.50	34.90
SEW-UC-18N32	1 1/4	32	52.30	27.50	42.90
SEW-UC-20N38	1 1/2	38	59.20	33.00	50.80
SEW-UC-22N50	2	50	77.70	45.00	63.50

# ADJUSTABLE MALE ELBOW SEW-AME 37° JIC X SAE / MS



Super Engg. Part No	Tube OD (A)		(A1) SAE/MS	Dimensions				
	inch	mm		H	D	F	Hx	B
SEW-AME-2N3	1/8	3	5/16-24	19.60	1.60	11.10	23.90	8.40
SEW-AME-3N4	3/16	4	3/8-24	21.10	3.20	11.10	23.90	8.40
SEW-AME-4N6	1/4	6	7/16-20	22.60	4.40	12.70	26.20	9.80
SEW-AME-5N8	5/16	8	1/2-20	24.10	6.00	14.30	28.70	9.80
SEW-AME-6N10	3/8	10	9/16-18	26.90	7.50	15.90	31.80	11.00
SEW-AME-8N12	1/2	12	3/4-16	31.80	9.90	20.60	36.80	12.50
SEW-AME-10N16	5/8	16	7/8-14	36.80	12.30	23.80	43.20	14.20
SEW-AME-12N18	3/4	18	1 1/16-12	42.20	15.50	31.80	49.30	16.50
SEW-AME-14N22	7/8	22	1 3/16-12	45.70	18.30	31.80	50.80	16.50
SEW-AME-16N25	1	25	1 5/16-12	46.00	21.50	34.90	52.10	16.50
SEW-AME-18N32	1 1/4	32	1 5/8-12	52.30	27.50	42.90	57.20	16.50
SEW-AME-20N38	1 1/2	38	1 7/8-12	59.20	33.00	50.80	60.70	16.50
SEW-AME-22N50	2	50	2 1/2-12	77.70	45.00	63.50	73.40	16.50



# SUPER ENGINEERING WORKS

INSTRUMENTATION FITTINGS & VALVES



Gala No. 2, Munshi Compound,  
Behind A R Paradise Hotel, Kashmirira,  
Miraroad (E), Thane 401 107.



[superengineering5550@gmail.com](mailto:superengineering5550@gmail.com)



+91 7021984169



# SUPER ENGINEERING WORKS

INSTRUMENTATION FITTINGS & VALVES

## INSTRUMENTATION TUBE FITTINGS



[www.superenggworks.com](http://www.superenggworks.com)

AN ISO 9001:2015 CERTIFIED COMPANY

## Introduction

**SUPER ENGINEERING WORKS** an **ISO 9001:2015** Certified Company engaged in the business of manufacturing and marketing of high quality instrumentation products such as:-

- Double Ferrule Compression Tube Fittings
- Industrial Valves
- Precision Pipe Fittings
- Flare Fittings

**SUPER ENGINEERING WORKS** manufactures all the above product to a very precise tolerance under a strict supervision which are tested at normal and extreme condition to withstand the high performance demands such as high pressure, vacuum, vibration, impulse and temperature being used for Chemical, Petrochemicals, Fertilizers, Pharmaceuticals, Marine, Power as well as other major industries.

## MANUFACTURING FACILITY

**SUPER ENGINEERING WORKS** has inhouse manufacturing facilities with modern precision machineries, instruments, gauges and skilled workforce with total commitment to meet and fulfill the increasing demands and requirements of our customers.

## QUALITY POLICY

**SUPER ENGINEERING WORKS** endeavour to satisfy our customer through prompt supply of quality products. We do so through periodic revieTCs and continuously improving the products, process and systems.

## OUR AIM

**SUPER ENGINEERING WORKS** aims to be the benchmark setter in the industry by providing high standard quality products with total customer's satisfaction.

ISO  
CERTIFICATE



## GENERAL & TECHNICAL INFORMATION

**SUPER ENGINEERING WORKS** Double Ferrule Compression Tube Fitting consist of four precision components such as Body, Front Ferrule, Back Ferrule and Nut. These Components are manufactured to a very precise dimensional tolerances to provide Zero leak, Torque free seal at all tubing connection to with stand the high performance demand such as high pressure, vacuum, vibration, impulse and temperature.

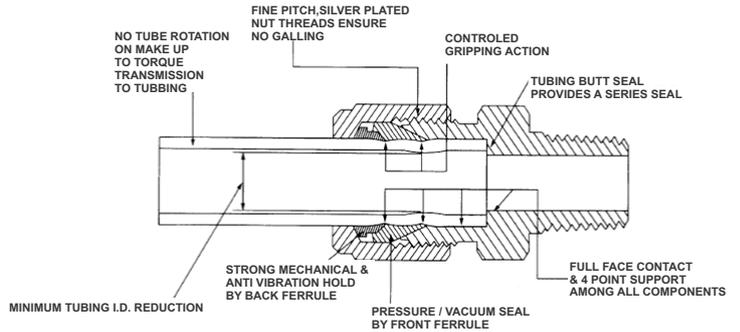
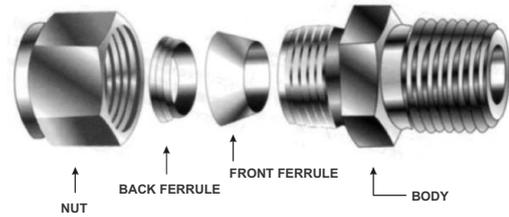
**SUPER ENGINEERING WORKS** Double Ferrule Compression Tube Fittings are manufactured in various materials such as S.S.316, S.S.316 L, S.S.304, Brass, Monel SEW.

**End Connections:** NPT, BSP, BSPT, SEW.

### Size Range:

Fractional Size : 1/8" Tube OD to 1" Tube OD

Metric Size : 3mm Tube OD to 25mm Tube OD



## Thread Specification

PIPE THREADS	REFERENCE SPECIFICATIONS	DESIGNATION
American National Pipe Thread - NPT	ANSI B 1.20.1	N
ISO Parallel Pipe Thread - BSP	BS2779, ISO 228/1, JISB0202	RP
IOS Taper Pipe Thread - BSPT	BS 21, ISO 7/1, JIS B0203, DIN 2999	RT
Unified National Pipe Thread - UNF	ASME B1.1	SE

## Plating & Coating

Fitting Material	Body Process
Aluminium	Anodized, Hydrocarbon Film
Alloy 400 / Alloy C-405 Alloy 20 / Alloy C-276 Alloy 600	Hydrocarbon Film
Carbon Steel (except weld bodies)	Zinc Plating
Carbon Steel (weld bodies)	Hydrocarbon Film Chemical conversion Coating
Titanium	Anodized
Brass, Nylon, 316 Stainless Steel and PTFE	Not Applicable

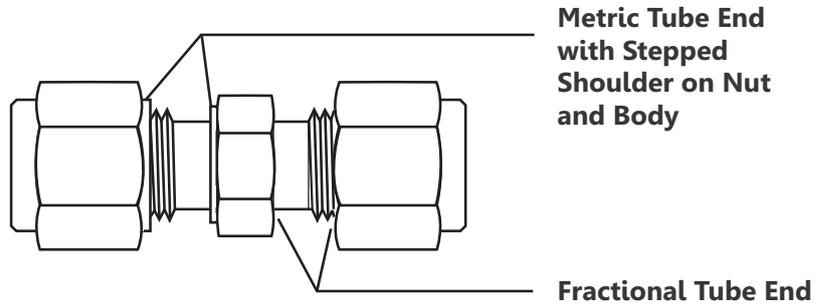
## Materials

MATERIAL STANDARDS				
Material	Bar Stock	Forging	Common Tubing Specification	
Stainless Steel 316	ASME SA479, ASTM A276,	ASME SA 182, ASTM A182	ASTM B283 ASME SA213	S6 / S62
Brass	ASTM B16, ASTM B453	ASTM B283	ASTM B 75 ASME SB 75	B
Alloy 20	ASTM B473	ASTM B462	-	A20
Alloy 400	ASTM B164, ASME SB164	ASTM B564, ASME SB564	-	M
Alloy 600	ASTM B166, ASME SB166	ASTM B564, ASME SB564	ASTM B 163	A6
Alloy 625	ASTM B446	ASTM B564, ASME SB564	-	-
Alloy 825	ASTM B425	ASTM B564, ASME SB564	-	-
Alloy C-276	ASTM B574	ASTM B564	-	-
Aluminum	ASTM B211	ASTM B247	-	AL
Titanium	ASTM B348	ASTM B381	ASTM B 338	TI
Carbon Steel	ASTM A108	ASTM A576	-	C
PTFE	ASTM D1710	ASTM D3294	-	T
Nylon	ASTM D4066	-	-	N
SAF 2507	ASTM A479	ASTM A182	-	-

It is difficult to identify fitting tube sizes, because of a marginal difference in nearest fractional and metric sizes of tubes. Therefore, both body and nut of metric tube fittings are provided with stepped shoulder as shown in the illustration.

## Identification of SUPER ENGINEERING WORKS Fittings

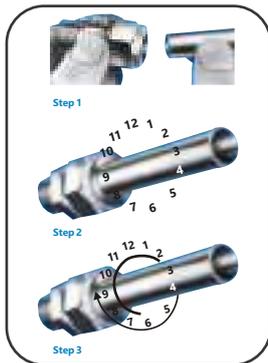
For ease of identification, **SUPER ENGINEERING WORKS** Fitting in metric sizes have an additional stepped shoulder on nut and body to distinguish them from fractional sizes.



## Installation Instructions

**SUPER ENGINEERING WORKS TUBE FITTING** come to you completely assembled, finger-tight. They are ready for immediate use. Dis-assembly before use can result in dirt or foreign material getting into the fitting and causing leaks.

**SUPER ENGINEERING WORKS TUBE FITTING** are installed in three easy steps.



### Step 1

Insert the tubing into the **SUPER ENGINEERING WORKS** fitting. Make sure that the tubing rests firmly on the shoulders of the fitting and that the nut is snug tight, in this position the tube does not rotate by hand.

### Step 2

Before tightening the **SUPER ENGINEERING WORKS** nut, scribe the nut at the 6.00 o'clock position.

### Step 3

Now while holding the fitting body steady with a backup wrench, tighten the nut one-and-one quarter turns\*

Watch the scribe mark, make one complete revolution and continue to the 9.00 o'clock position.

\*For 1/8", 3/16", 3 & 4 mm size tube fittings, only 3/4 turns from finger-tight is necessary the joint is now complete.

## HIGH PRESSURE APPLICATIONS, HIGH SAFETY FACTOR SYSTEMS

Due to the variation of tubing diameters, a common starting point is desirable. Therefore, use a wrench to snug up the nut until the tubing will not turn (by hand) in the fitting. Now tighten the nut one-and-one-quarter turns and the fitting is ready to hold pressure well above the working pressure of the tubing.

## RE-TIGHTENING INSTRUCTIONS

Connections can be disconnected and re-tightened many times and the same reliable, leak-proof seal obtained time the reconnection is made.

## PRE-SWAGING

When **SUPER ENGINEERING WORKS** fittings are to be installed in cramped quarters or overhead where ladders must be used. It is sometimes found advantageous to use a pre-swaging tool on the tubing in an open ground area, thus pre-swaging the ferrules onto the tubing. The tubing is then removed from the pre-swaging tool and the tubing (with nut and pre-swaging ferrules) can now be attached to the fitting merely by following the re-tightening instructions.

1. Assemble **SUPER ENGINEERING WORKS** nut and ferrules to pre-swaging tool. Insert tubing until it bottoms in the fitting body, and tighten nut one-and-one quarter turns.
2. The nut is loosened and the tubing with pre-swaged ferrules is removed from the pre-swaging tool.
3. The connection can now be made by merely snugging up the nut as described in the re-tightening instructions.

## Easy Reference

Heads of tables are differentiated with colors:

 Shows Fractional

 Shows Metric

## Part Number & Ordering Information

FRACTIONAL	SEW-MC-8-8N	SUPER ENGG. WORKS	MC MALE CONNECTOR	8 1/2" OD TUBE END	8N 1/2" NPT(M) PIPE THREADS
METRIC	SEW-FC-10m-6N	SUPER ENGG. WORKS	FC FEMALE CONNECTOR	10m 10mm OD TUBE END	6N 3/8" NPT(F) PIPE THREADS

**Note:** For ordering, kindly specify the material and grade along with the part number.

## Pressure Ratings

### Tube Fittings

**SUPER ENGINEERING WORKS** Tube Fittings are rated for working pressure higher than the tubing recommended in the tubing table listed on the following pages. To ensure leak tight systems, it is important to select high quality tubing.

**Note:** Material strength and allowed pressure will decrease as the temperature increases.

## Tubing

### Tubing Selection

Tubing specifications recommended for best performance with **SUPER ENGINEERING WORKS** are as follows :

Fully annealed Stainless Steel 304 & 316 seamless tubing to comply with ASTM A269 or equivalent with desired hardness of Rb80 (maximum allowed hardness by ASTM is Rb90). The tubing should be compatible with the process fluid, pressure and temperature [From -20°F to 100°F (-29°C to 37°C)]. Tubing surface should be free from scratches and suitable for bending and flaring.

**Note:** Tubing should not be used beyond its maximum allowed working pressure.

**TABLE 1 – STAINLESS STEEL FRACTIONAL TUBING**

Allowable Working Pressure in PSI								
(Inch)	Tube Wall Thickness (Inch)							
	0.028	0.035	0.049	0.065	0.083	0.095	0.109	0.120
1/8	8600	10900						
3/16	5500	7000	10300					
1/4	4000	5100	7500	10300				
5/16		4100	5900	8100				
3/8		3300	4800	6600				
1/2		2600	3700	5100	6700			
5/8			3000	4000	5200	6100		
3/4			2400	3300	4300	5000	5800	
7/8			2100	2800	3600	4200	4900	
1				2400	3200	3700	4200	4700

**TABLE 2 – STAINLESS STEEL METRIC TUBING**

Allowable Working Pressure in BAR													
Tube OD (mm)	Tube Wall Thickness (mm)												
	0.50	0.60	0.70	0.80	1.00	1.20	1.50	1.60	1.80	2.00	2.20	2.50	3.00
3	497	607	718	828	1032								
6			331	386	497	607	774	912					
8			208	280	359	440	558	607					
10				221	280	342	440	473					
12				182	231	280	359	386	440	497			
14					195	237	302	324	369	416	463	535	654
16					169	205	261	280	319	358	398	460	564
18					150	181	230	246	280	314	349	403	496
22					121	147	185	199	225	252	280	322	394
25					108	128	162	173	196	220	244	280	342

**TABLE 3 – FACTORS USED TO DETERMINE ALLOWABLE PRESSURE AT HIGHER TEMPERATURES**

°F	°C	A.I.S.I. 316
200	93	1
400	204	0.96
600	316	0.85
800	427	0.79
1000	538	0.76

To determine allowable pressure at higher temperatures, multiply allowable working pressure from TABLE 1 & 2 by Factor shown in TABLE 3.

For example : The allowable pressure for Type Stainless Steel 316, size 1/2" OD x 0.049 wall thickness at 600°F (316°C) would be equivalent to 3700 PSI x 0.85 = 3145 PSI.

**TABLE 4 – GAS TUBING APPLICATION**

FRACTIONAL		METRIC	
Tubing OD	Minimum Nominal wall Thickness	Tubing OD	Minimum Nominal Wall Thickness
1/8"	0.028"	3	0.80 mm
3/16"	0.028"	6	0.80 mm
1/4"	0.028"	8	1.00 mm
5/16"	0.035"	10	1.00 mm
3/8"	0.035"	12	1.00 mm
1/2"	0.049"	14	1.20 mm
5/8"	0.065"	16	1.50 mm
3/4"	0.065"	18	1.50 mm
7/8"	0.083"	20	1.80 mm
1"	0.083"	22	2.00 mm
		25	2.20 mm

Gases are characterized by small molecules, which can escape through minute leak paths due to surface imperfections. For the greatest safety factor against surface imperfections in any gas systems, we recommend that the wall thickness of the tubing used should not be less than shown in TABLE 4.

**TABLE 5 – Allowable Stress based on ASME B 31.3 Code for Process Piping**

MATERIAL	Allowed Stress		FACTOR	ULTIMATE TENSILE STRENGTH	
	psi	bar		psi	bar
SS 316	20,000	1378	3.75:1	75,000	5170
Brass	10,000	689	4.1	40,000	2760
Steel	20,000	1378	3.1	60,000	4140

**Pipe End Thread calculation based on ASME B31.3 for Process Piping (NPT & ISO 7) Pressure Ratings**

Allowable pressure for male and female tapered pipe thread ends

**TABLE 6 – PRESSURE RATINGS psi**

Pipe Size NPT/ISO	Stainless Steel 316		Brass	
	Male	Female	Male	Female
1/8"	10000	6500	5000	3200
1/4"	8000	6600	4000	3300
3/8"	7800	5300	3900	2600
1/2"	7700	4900	3800	2400
3/4"	7300	4600	3600	2300
1"	5300	4400	2600	2200

**SAE J1926/3 Pressure Ratings for SS 316**

**TABLE 7 – PRESSURE RATINGS psi**

SAE/MS Thread Size	Non Positionable	Positionable
5/16-24	4568	4568
7/16-20	4568	4568
1/2-20	4568	4568
9/16-18	4568	3626
3/4-16	4568	3626
7/8-14	3626	2900
1 1/16-12	3626	2900
1 3/16-12	2900	2320
1 5/16-12	2900	2320

**Positionable, ISO/BSP Parallel Thread Pressure Ratings**

Pressure ratings are at surrounding temperature

**TABLE 8 – PRESSURE RATINGS psi**

ISO/BSP Male Pipe Size	Stainless Steel 316
1/8"	4568
1/4"	4568
3/8"	4568
1/2"	2320
3/4"	2320
1"	2320

**O – SEAL Pressure Ratings**

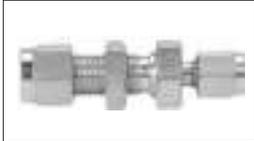
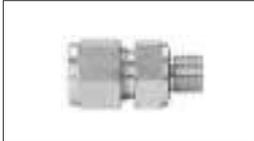
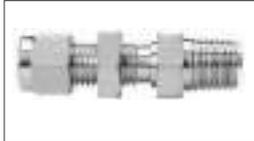
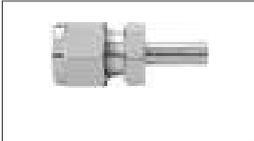
O – Seal fittings up to 1" are rated to 3000 psi for SS 316.

To determine working pressure ratings in accordance with ASME B31.1, Power Piping Carbon Steel Material - Multiply by 0.85  
Stainless Steel and brass material rating remain the same.  
To determine Mpa, multiply bar by 0.10

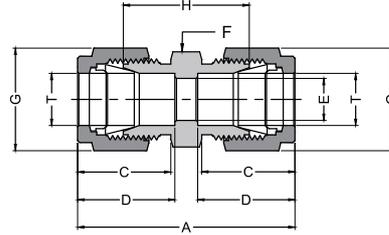
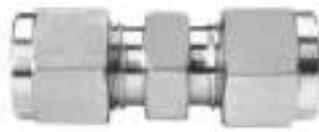


# DOUBLE FERRULE COMPRESSION TUBE FITTINGS

## INDEX

 <b>UNION</b> 9	 <b>REDUCING UNION</b> 10	 <b>BULKHEAD UNION</b> 11	 <b>BULKHEAD REDUCING UNION</b> 12	 <b>UNION ELBOW</b> 13
 <b>UNION TEE</b> 14	 <b>UNION CROSS</b> 15	 <b>MALE CONNECTOR</b> NPT THREAD.....16, 17 ISO-TAPERED THREAD.....18, 19	 <b>MALE CONNECTOR</b> O-SEAL MALE STRAIGHT THREAD 20	 <b>BULKHEAD MALE CONNECTOR</b> 21
 <b>MALE ADAPTER</b> NPT THREAD..... 22, 23 ISO TAPERED..... 24, 25	 <b>MALE ELBOW</b> 26, 27	 <b>45° MALE ELBOW</b> 28	 <b>MALE BRANCH TEE</b> 29	 <b>MALE RUN TEE</b> 30
 <b>MALE PIPE WELD CONNECTOR</b> 31	 <b>SOCKET WELD TUBE CONNECTOR</b> 32	 <b>FEMALE CONNECTOR</b> NPT THREAD.....33, 34 ISO TAPERED THREAD.....35, 36	 <b>BULKHEAD FEMALE CONNECTOR</b> 37	 <b>FEMALE ADAPTER</b> 38, 39
 <b>FEMALE ELBOW</b> 40, 41	 <b>FEMALE BRANCH TEE</b> 42	 <b>FEMALE RUN TEE</b> 43	 <b>REDUCER</b> 44, 45	 <b>PORT CONNECTOR</b> 46
 <b>CAP</b> 47	 <b>PLUG</b> 48	 <b>NUT</b> 48	 <b>FRONT FERRULE</b> 49	 <b>BACK FERRULE</b> 49

# UNION SEW-U

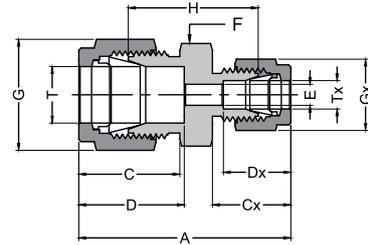


Connects Fractional Tubes – SEW-U (Dimensions in inch)								
Super Engg. Part No. (Ordering No)	T Tube OD	A	C	D	E Min.	F A/F	G A/F	H
SEW-U-2	1/8"	1.40	0.60	0.50	0.09	7/16"	7/16"	0.88
SEW-U-3	3/16"	1.47	0.63	0.54	0.12	7/16"	1/2"	0.95
SEW-U-4	1/4"	1.61	0.70	0.60	0.19	1/2"	9/16"	1.03
SEW-U-5	5/16"	1.69	0.73	0.64	0.25	9/16"	5/8"	1.11
SEW-U-6	3/8"	1.77	0.76	0.66	0.28	5/8"	11/16"	1.19
SEW-U-8	1/2"	2.02	0.86	0.90	0.41	13/16"	7/8"	1.22
SEW-U-10	5/8"	2.05	0.86	0.96	0.50	15/16"	1"	1.25
SEW-U-12	3/4"	2.11	0.86	0.96	0.62	1-1/16"	1-1/8"	1.31
SEW-U-14	7/8"	2.17	0.86	1.02	0.72	1-3/16"	1-1/4"	1.37
SEW-U-16	1"	2.55	1.04	1.23	0.88	1-3/8"	1-1/2"	1.59

Connects Metric Tubes – SEW-U-m (Dimensions in mm)								
Super Engg. Part No. (Ordering No)	T Tube OD	A	C	D	E Min.	F A/F	G A/F	H
SEW-U-3m	3	35.3	15.3	12.9	2.4	11.0	11.0	22.1
SEW-U-6m	6	41.0	17.7	15.3	4.8	14.0	14.0	26.2
SEW-U-8m	8	43.2	18.6	16.2	6.3	14.0	16.0	28.2
SEW-U-10m	10	46.2	19.5	17.2	7.9	17.0	19.0	31.0
SEW-U-12m	12	51.2	22.0	22.8	9.5	20.6	22.0	31.0
SEW-U-14m	14	52.0	22.0	24.4	11.1	24.0	25.0	31.8
SEW-U-15m	15	52.0	22.0	24.4	11.9	24.0	25.0	31.8
SEW-U-16m	16	52.0	22.0	24.4	12.7	24.0	25.4	31.8
SEW-U-18m	18	53.5	22.0	24.4	15.1	27.0	30.0	33.3
SEW-U-20m	20	55.0	22.0	26.0	15.9	30.0	32.0	34.8
SEW-U-22m	22	55.0	22.0	26.0	18.3	30.0	32.0	34.8
SEW-U-25m	25	65.0	26.5	31.3	21.8	35.0	38.0	40.4

All dimensions are for reference only, and are subject to change without prior notice. Sizes and types other than those featured above are available on request.

# REDUCING UNION SEW-RU

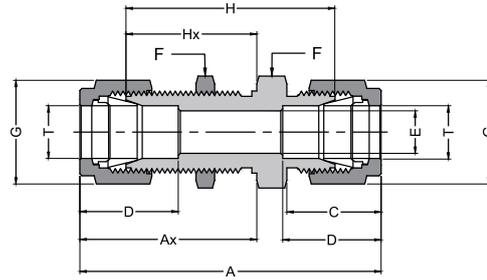
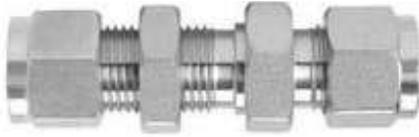


Connects Fractional Tubes – SEW-RU (Dimensions in inch)												
Super Engg. Part No. (Ordering No)	T Tube OD	Tx Tube OD	A	C	Cx	D	Dx	E Min.	F A/F	G A/F	Gx A/F	H
SEW-RU-4-2	1/4"	1/8"	1.52	0.70	0.60	0.60	0.50	0.09	1/2"	9/16"	7/16"	0.97
SEW-RU-5-4	5/16"	1/4"	1.66	0.73	0.70	0.64	0.60	0.19	9/16"	5/8"	9/16"	1.08
SEW-RU-6-4	3/8"	1/4"	1.70	0.76	0.70	0.66	0.60	0.19	5/8"	11/16"	9/16"	1.12
SEW-RU-8-4	1/2"	1/4"	1.85	0.86	0.70	0.90	0.60	0.19	13/16"	7/8"	9/16"	1.16
SEW-RU-8-6	1/2"	3/8"	1.91	0.86	0.76	0.90	0.66	0.28	13/16"	7/8"	11/16"	1.22
SEW-RU-10-6	5/8"	3/8"	1.94	0.86	0.76	0.96	0.66	0.28	15/16"	1"	11/16"	1.25
SEW-RU-10-8	5/8"	1/2"	2.05	0.86	0.86	0.96	0.90	0.41	15/16"	1"	7/8"	1.25
SEW-RU-12-6	3/4"	3/8"	2.00	0.86	0.76	0.96	0.66	0.28	1-1/16"	1-1/8"	11/16"	1.31
SEW-RU-12-8	3/4"	1/2"	2.11	0.86	0.86	0.96	0.90	0.41	1-1/16"	1-1/8"	7/8"	1.31
SEW-RU-12-10	3/4"	5/8"	2.11	0.86	0.86	0.96	0.96	0.50	1-1/16"	1-1/8"	1"	1.31
SEW-RU-16-8	1"	1/2"	2.38	1.04	0.86	1.23	0.90	0.41	1-3/8"	1-1/2"	7/8"	1.50
SEW-RU-16-12	1"	3/4"	2.38	1.04	0.86	1.23	0.96	0.62	1-3/8"	1-1/2"	1-1/8"	1.50

Connects Metric Tubes – SEW-RU-m (Dimensions in mm)												
Super Engg. Part No. (Ordering No)	T Tube OD	Tx Tube OD	A	C	Cx	D	Dx	E Min.	F A/F	G A/F	Gx A/F	H
SEW-RU-6m-3m	6	3	38.6	17.7	15.3	15.3	12.9	2.4	14.0	14.0	11.0	24.6
SEW-RU-8m-6m	8	6	42.3	18.6	17.7	16.2	15.3	4.8	14.0	16.0	14.0	27.4
SEW-RU-10m-6m	10	6	44.5	19.5	17.7	17.2	15.3	4.8	17.0	19.0	14.0	29.5
SEW-RU-10m-8m	10	8	45.1	19.5	18.6	17.2	16.2	6.3	17.0	19.0	16.0	30.0
SEW-RU-12m-6m	12	6	47.0	22.0	17.7	22.8	15.3	4.8	20.6	22.0	14.0	29.5
SEW-RU-12m-8m	12	8	47.8	22.0	18.6	22.8	16.2	6.3	20.6	22.0	16.0	30.2
SEW-RU-12m-10m	12	10	48.7	22.0	19.5	22.8	17.2	7.9	20.6	22.0	19.0	31.0
SEW-RU-16m-10m	16	10	49.5	22.0	19.5	24.4	17.2	7.9	24.0	25.0	19.0	31.8
SEW-RU-16m-12m	16	12	52.0	22.0	22.0	24.4	22.8	9.5	24.0	25.0	22.0	31.8
SEW-RU-25m-20m	25	20	62.3	26.5	22.0	31.3	26.0	15.9	35.0	38.0	32.0	39.9

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# BULKHEAD UNION SEW-BU

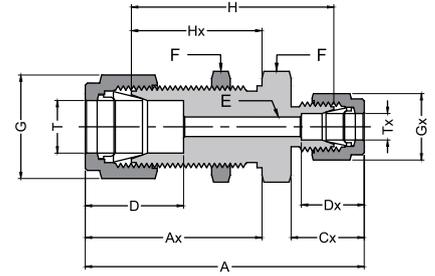


Connects Fractional Tubes – SEW-BU (DimSEWisions in inch)												
Super Engg. Part No. (Ordering No)	T Tube OD	A	Ax	C	D	E Min.	F A/F	G A/F	H	Hx	Panel Hole Drill Size	Max Panel Thickness
SEW-BU-2	1/8"	2.02	1.23	0.60	0.50	0.09	1/2"	7/16"	1.50	0.97	21/64"	0.50
SEW-BU-3	3/16"	2.11	1.26	0.63	0.54	0.12	9/16"	1/2"	1.59	1.00	25/64"	0.50
SEW-BU-4	1/4"	2.27	1.32	0.70	0.60	0.19	5/8"	9/16"	1.69	1.03	29/64"	0.40
SEW-BU-5	5/16"	2.39	1.41	0.73	0.64	0.25	11/16"	5/8"	1.81	1.12	33/64"	0.44
SEW-BU-6	3/8"	2.45	1.45	0.76	0.66	0.28	3/4"	11/16"	1.87	1.16	37/64"	0.44
SEW-BU-8	1/2"	2.80	1.65	0.86	0.90	0.41	15/16"	7/8"	2.00	1.25	49/64"	0.50
SEW-BU-10	5/8"	2.86	1.68	0.86	0.96	0.50	1-1/16"	1"	2.06	1.28	57/64"	0.50
SEW-BU-12	3/4"	3.11	1.87	0.86	0.96	0.62	1-3/16"	1-1/8"	2.31	1.47	1-1/64"	0.66
SEW-BU-16	1"	3.77	2.26	1.04	1.23	0.88	1-5/8"	1-1/2"	2.81	1.78	1-21/64"	0.75

Connects Metric Tubes – SEW-BU-m (DimSEWisions in mm)												
Super Engg. Part No. (Ordering No)	T Tube OD	A	Ax	C	D	E Min.	F A/F	G A/F	H	Hx	Panel Hole Drill Size	Max Panel Thickness
SEW-BU-3m	3	51.3	31.2	15.3	12.9	2.4	14.0	11.0	38.1	24.6	8.3	12.7
SEW-BU-6m	6	57.7	33.6	17.7	15.3	4.8	16.0	14.0	42.9	26.2	11.5	10.2
SEW-BU-8m	8	61.0	36.1	18.6	16.2	6.3	17.0	16.0	46.0	28.6	13.1	11.2
SEW-BU-10m	10	63.7	37.0	19.5	17.2	7.9	22.0	19.0	48.5	29.4	16.3	11.2
SEW-BU-12m	12	71.0	41.9	22.0	22.8	9.5	24.0	22.0	50.8	31.8	19.5	12.7
SEW-BU-14m	14	72.5	42.6	22.0	24.4	11.1	27.0	25.0	52.3	32.5	22.5	12.7
SEW-BU-15m	15	72.5	42.6	22.0	24.4	11.9	27.0	25.0	52.3	32.5	22.8	12.7
SEW-BU-16m	16	72.5	42.6	22.0	24.4	12.7	27.0	25.0	52.3	32.5	22.8	12.7
SEW-BU-18m	18	78.9	47.4	22.0	24.4	15.1	30.0	30.0	58.7	37.3	26.0	16.8
SEW-BU-20m	20	84.5	53.0	22.0	26.0	15.9	35.0	32.0	64.3	42.9	29.0	19.0
SEW-BU-25m	25	95.8	57.4	26.5	31.3	21.8	41.0	38.0	71.4	45.2	33.7	19.0

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# BULKHEAD REDUCING UNION SEW-BRU

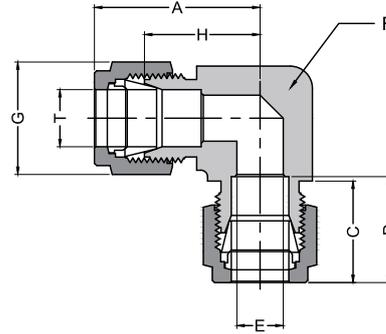


Connects Fractional Tubes – SEW-BRU (DimSEWisions in inch)															
Super Engg. Part No. (Ordering No)	T Tube OD	Tx Tube OD	A	Ax	Cx	D	Dx	E	F A/F	G A/F	Gx A/F	H	Hx	Panel Hole Drill Size	Max Panel Thickness
SEW-BRU-4-2	1/4"	1/8"	2.17	1.32	0.60	0.60	0.50	0.09	5/8"	9/16"	7/16"	1.62	1.03	29/64"	0.40
SEW-BRU-6-4	3/8"	1/4"	2.39	1.45	0.70	0.66	0.60	0.19	3/4"	11/16"	9/16"	1.81	1.16	37/64"	0.44
SEW-BRU-8-4	1/2"	1/4"	2.63	1.65	0.70	0.90	0.60	0.19	15/16"	7/8"	9/16"	1.94	1.25	49/64"	0.50
SEW-BRU-8-6	1/2"	3/8"	2.63	1.65	0.76	0.90	0.66	0.28	15/16"	7/8"	11/16"	1.94	1.25	49/64"	0.50

Connects Metric Tubes – SEW-BRU-m (DimSEWisions in mm)															
Super Engg. Part No. (Ordering No)	T Tube OD	Tx Tube OD	A	Ax	Cx	D	Dx	E	F A/F	G A/F	Gx A/F	H	Hx	Panel Hole Drill Size	Max Panel Thickness
SEW-BRU-6m-3m	6	3	56.0	33.6	15.3	15.3	12.9	2.4	16.0	14.0	11.0	41.1	26.2	11.5	10.2
SEW-BRU-8m-6m	8	6	61.0	36.1	16.2	16.2	15.3	4.8	17.0	16.0	14.0	48.0	28.6	13.1	11.2
SEW-BRU-10m-6m	10	6	63.7	37.0	16.2	17.2	15.3	4.8	22.0	19.0	14.0	48.5	29.4	16.3	11.2
SEW-BRU-12m-6m	12	6	71.0	41.9	16.2	22.8	15.3	4.8	24.0	22.0	14.0	50.8	31.8	19.5	12.7
SEW-BRU-12m-10m	12	10	71.0	41.9	19.5	22.8	17.2	7.9	24.0	22.0	19.0	50.8	31.8	19.5	12.7

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# UNION ELBOW SEW-UE

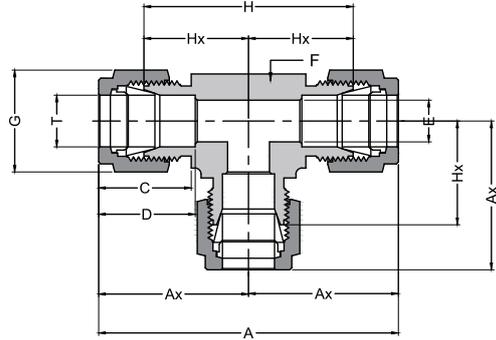


Connects Fractional Tubes – SEW-UE (DimSEWisions in inch)								
Super Engg. Part No. (Ordering No)	T Tube OD	A	C	D	E Min.	F A/F	G A/F	Hx
SEW-UE-2	1/8"	0.88	0.60	0.50	0.09	1/2"	7/16"	0.62
SEW-UE-3	3/16"	1.00	0.63	0.54	0.12	1/2"	1/2"	0.74
SEW-UE-4	1/4"	1.06	0.70	0.60	0.19	1/2"	9/16"	0.77
SEW-UE-5	5/16"	1.13	0.73	0.64	0.25	9/16"	5/8"	0.84
SEW-UE-6	3/8"	1.20	0.76	0.66	0.28	5/8"	11/16"	0.91
SEW-UE-8	1/2"	1.42	0.86	0.90	0.41	1-3/16"	7/8"	1.02
SEW-UE-10	5/8"	1.50	0.86	0.96	0.50	15/16"	1"	1.10
SEW-UE-12	3/4"	1.57	0.86	0.96	0.62	1-1/16"	1-1/8"	1.17
SEW-UE-14	7/8"	1.76	0.86	1.02	0.72	1-1/4"	1-1/4"	1.36
SEW-UE-16	1"	1.93	1.04	1.23	0.88	1-3/8"	1-1/2"	1.45

Connects Metric Tubes – SEW-UE-m (DimSEWisions in mm)								
Super Engg. Part No. (Ordering No)	T Tube OD	A	C	D	E Min.	F A/F	G A/F	Hx
SEW-UE-3m	3	22.3	15.3	12.9	2.4	12.7	11.0	15.7
SEW-UE-6m	6	27.0	17.7	15.3	4.8	12.7	14.0	19.6
SEW-UE-8m	8	28.8	18.6	16.2	6.3	14.0	16.0	21.3
SEW-UE-10m	10	31.5	19.5	17.2	7.9	17.0	19.0	23.9
SEW-UE-12m	12	36.0	22.0	22.8	9.5	20.6	22.0	25.9
SEW-UE-14m	14	38.0	22.0	24.4	11.1	24.0	25.0	27.9
SEW-UE-15m	15	38.0	22.0	24.4	11.9	24.0	25.0	27.9
SEW-UE-16m	16	38.0	22.0	24.4	12.7	24.0	25.0	27.9
SEW-UE-18m	18	39.8	22.0	24.4	15.1	27.0	30.0	29.7
SEW-UE-20m	20	44.6	22.0	26.0	15.9	32.0	32.0	34.5
SEW-UE-22m	22	44.6	22.0	26.0	18.3	32.0	32.0	34.5
SEW-UE-25m	25	49.1	26.5	31.3	21.8	35.0	38.0	36.8

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# UNION TEE SEW-UT

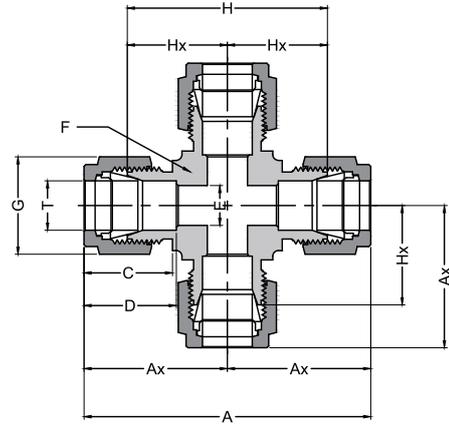


Connects Fractional Tubes – SEW-UT (Dimensions in inch)										
Super Engg. Part No. (Ordering No)	T Tube OD	A	Ax	C	D	E Min.	F A/F	G A/F	H	Hx
SEW-UT-2	1/8"	1.76	0.88	0.60	0.50	0.09	1/2"	7/16"	1.24	0.62
SEW-UT-3	3/16"	2.00	1.00	0.63	0.54	0.12	1/2"	1/2"	1.40	0.70
SEW-UT-4	1/4"	2.12	1.06	0.70	0.60	0.19	9/16"	9/16"	1.54	0.77
SEW-UT-5	5/16"	2.34	1.17	0.73	0.64	0.25	9/16"	5/8"	1.76	0.88
SEW-UT-6	3/8"	2.40	1.20	0.76	0.66	0.28	5/8"	11/16"	1.82	0.91
SEW-UT-8	1/2"	2.84	1.42	0.86	0.90	0.41	13/16"	7/8"	2.04	1.02
SEW-UT-10	5/8"	3.00	1.50	0.86	0.96	0.50	15/16"	1"	2.20	1.10
SEW-UT-12	3/4"	3.14	1.57	0.86	0.96	0.62	1-1/16"	1-1/8"	2.34	1.17
SEW-UT-14	7/8"	3.52	1.76	0.86	1.02	0.72	1-1/4"	1-1/4"	2.72	1.36
SEW-UT-16	1"	3.86	1.93	1.04	1.23	0.88	1-3/8"	1-1/2"	2.90	1.45

Connects Metric Tubes – SEW-UT-m (Dimensions in mm)										
Super Engg. Part No. (Ordering No)	T Tube OD	A	Ax	C	D	E Min.	F A/F	G A/F	H	Hx
SEW-UT-3m	3	44.6	22.3	15.3	12.9	2.4	12.7	11.0	31.6	15.8
SEW-UT-6m	6	54.0	27.0	17.7	15.3	4.8	12.7	14.0	39.2	19.6
SEW-UT-8m	8	57.6	28.8	18.6	16.2	6.3	16.0	16.0	42.6	21.3
SEW-UT-10m	10	63.0	31.5	19.5	17.2	7.9	17.0	19.0	47.8	23.9
SEW-UT-12m	12	72.0	36.0	22.0	22.8	9.5	20.6	22.0	51.8	25.9
SEW-UT-15m	15	76.0	38.0	22.0	24.4	11.9	24.0	25.0	55.8	27.9
SEW-UT-16m	16	76.0	38.0	22.0	24.4	12.7	24.0	25.0	57.4	28.7
SEW-UT-18m	18	79.6	39.8	22.0	24.4	15.1	27.0	30.0	59.4	29.7
SEW-UT-20m	20	89.2	44.6	22.0	26.0	15.9	32.0	32.0	69.0	34.5
SEW-UT-22m	22	89.2	44.6	22.0	26.0	18.3	32.0	32.0	69.0	34.5
SEW-UT-25m	25	98.2	49.1	26.5	31.3	21.8	35.0	38.0	73.6	36.8

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# UNION CROSS SEW-UC



Connects Fractional Tubes – SEW-UC (DimSEWisions in inch)										
Super Engg. Part No. (Ordering No)	T Tube OD	A	Ax	C	D	E Min.	F A/F	G A/F	H	Hx
SEW-UC-2	1/8"	1.76	0.88	0.60	0.50	0.09	1/2"	7/16"	1.24	0.62
SEW-UC-4	1/4"	2.12	1.06	0.70	0.60	0.19	9/16"	9/16"	1.54	0.77
SEW-UC-5	5/16"	2.34	1.17	0.73	0.64	0.25	9/16"	5/8"	1.76	0.88
SEW-UC-6	3/8"	2.40	1.20	0.76	0.66	0.28	5/8"	11/16"	1.82	0.91
SEW-UC-8	1/2"	2.84	1.42	0.86	0.90	0.41	13/16"	7/8"	2.04	1.02
SEW-UC-12	3/4"	3.14	1.57	0.86	0.96	0.62	1-1/16"	1-1/8"	2.34	1.17
SEW-UC-16	1"	3.86	1.93	1.04	1.23	0.88	1-3/8"	1-1/2"	2.90	1.45

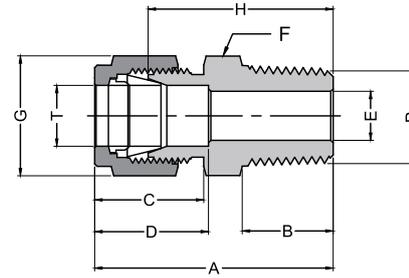
Connects Metric Tubes – SEW-UC-m (DimSEWisions in mm)										
Super Engg. Part No. (Ordering No)	T Tube OD	A	Ax	C	D	E Min.	F A/F	G A/F	H	Hx
SEW-UC-3m	3	44.6	22.3	15.3	12.9	2.4	12.7	11.0	31.6	15.8
SEW-UC-6m	6	54.0	27.0	17.7	15.3	4.8	12.7	14.0	39.2	19.6
SEW-UC-8m	8	59.4	29.7	18.6	16.2	6.3	16.0	16.0	44.8	22.4
SEW-UC-10m	10	63.0	31.5	19.5	17.2	7.9	17.0	19.0	47.8	23.9
SEW-UC-12m	12	72.0	36.0	22.0	22.8	9.5	20.6	22.0	51.8	25.9
SEW-UC-16m	16	76.0	38.0	22.0	24.4	12.7	24.0	25.0	57.4	28.7
SEW-UC-18m	18	79.6	39.8	22.0	24.4	15.1	27.0	30.0	59.4	29.7
SEW-UC-20m	20	89.2	44.6	22.0	26.0	15.9	32.0	32.0	69.0	34.5
SEW-UC-25m	25	98.2	49.1	26.5	31.3	21.8	35.0	38.0	73.6	36.8

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# MALE CONNECTOR SEW-MC

## NPT THREAD



Connects Fractional Tube To Female NPT Threads – SEW-MC (Dimensions in inch)										
Super Engg. Part No. (Ordering No)	T Tube OD	P NPT (M)	A	B	C	D	E Min.	F A/F	G A/F	H
SEW-MC-2-2N	1/8"	1/8"	1.20	0.38	0.60	0.50	0.09	7/16"	7/16"	0.94
SEW-MC-2-4N	1/8"	1/4"	1.40	0.56	0.60	0.50	0.09	9/16"	7/16"	1.14
SEW-MC-3-2N	3/16"	1/8"	1.23	0.38	0.63	0.54	0.12	7/16"	1/2"	0.97
SEW-MC-3-4N	3/16"	1/4"	1.43	0.56	0.63	0.54	0.12	9/16"	1/2"	1.17
SEW-MC-4-2N	1/4"	1/8"	1.29	0.38	0.70	0.60	0.19	1/2"	9/16"	1.00
SEW-MC-4-4N	1/4"	1/4"	1.49	0.56	0.70	0.60	0.19	9/16"	9/16"	1.20
SEW-MC-4-6N	1/4"	3/8"	1.51	0.56	0.70	0.60	0.19	11/16"	9/16"	1.22
SEW-MC-4-8N	1/4"	1/2"	1.76	0.75	0.70	0.60	0.19	7/8"	9/16"	1.47
SEW-MC-5-4N	5/16"	1/4"	1.52	0.56	0.73	0.64	0.25	9/16"	5/8"	1.23
SEW-MC-6-2N	3/8"	1/8"	1.39	0.38	0.76	0.66	0.19	5/8"	11/16"	1.10
SEW-MC-6-4N	3/8"	1/4"	1.57	0.56	0.76	0.66	0.28	5/8"	11/16"	1.28
SEW-MC-6-6N	3/8"	3/8"	1.57	0.56	0.76	0.66	0.28	11/16"	11/16"	1.28
SEW-MC-6-8N	3/8"	1/2"	1.82	0.75	0.76	0.66	0.28	7/8"	11/16"	1.53
SEW-MC-8-4N	1/2"	1/4"	1.71	0.56	0.86	0.90	0.28	13/16"	7/8"	1.31
SEW-MC-8-6N	1/2"	3/8"	1.71	0.56	0.86	0.90	0.38	13/16"	7/8"	1.31
SEW-MC-8-8N	1/2"	1/2"	1.93	0.75	0.86	0.90	0.41	7/8"	7/8"	1.53
SEW-MC-8-12N	1/2"	3/4"	1.99	0.75	0.86	0.90	0.41	1-1/16"	7/8"	1.59
SEW-MC-8-16N	1/2"	1"	2.25	0.94	0.86	0.90	0.41	1-3/8"	7/8"	1.85
SEW-MC-10-6N	5/8"	3/8"	1.74	0.56	0.86	0.96	0.38	15/16"	1"	1.34
SEW-MC-10-8N	5/8"	1/2"	1.93	0.75	0.86	0.96	0.47	15/16"	1"	1.53
SEW-MC-12-8N	3/4"	1/2"	1.99	0.75	0.86	0.96	0.47	1-1/16"	1-1/8"	1.59
SEW-MC-12-12N	3/4"	3/4"	1.99	0.75	0.86	0.96	0.62	1-1/16"	1-1/8"	1.59
SEW-MC-12-16N	3/4"	1"	2.25	0.94	0.86	0.96	0.62	1-3/8"	1-1/8"	1.85
SEW-MC-14-12N	7/8"	3/4"	1.99	0.75	0.86	1.02	0.62	1-3/16"	1-1/4"	1.59
SEW-MC-16-8N	1"	1/2"	2.26	0.75	1.04	1.23	0.47	1-3/8"	1-1/2"	1.78
SEW-MC-16-12N	1"	3/4"	2.26	0.75	1.04	1.23	0.62	1-3/8"	1-1/2"	1.78
SEW-MC-16-16N	1"	1"	2.45	0.94	1.04	1.23	0.88	1-3/8"	1-1/2"	1.97

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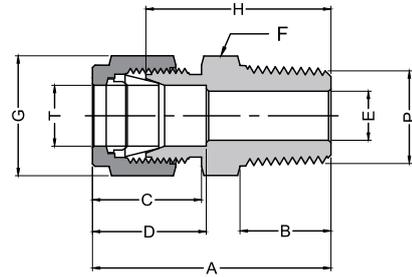
All dimensions are for reference only, and are subject to change without prior notice. Sizes and types other than those featured above are available on request.



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# MALE CONNECTOR SEW-MC

## NPT THREAD

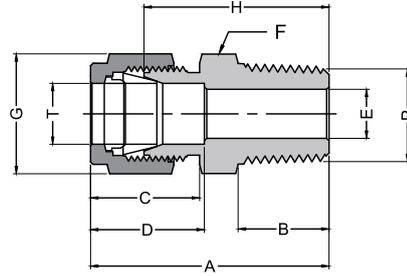


Connects Metric Tube To Female NPT Threads – SEW-MC-m (DimSEW'sions in mm)										
Super Engg. Part No. (Ordering No)	T Tube OD	P NPT (M)	A	B	C	D	E Min.	F A/F	G A/F	H
SEW-MC-3m-2N	3	1/8"	30.5	9.7	15.3	12.9	2.4	11.1	11.1	23.9
SEW-MC-3m-4N	3	1/4"	35.6	14.3	15.3	12.9	2.4	14.0	11.1	29.0
SEW-MC-6m-2N	6	1/8"	32.8	9.7	17.7	15.3	4.8	14.0	14.0	25.4
SEW-MC-6m-4N	6	1/4"	37.9	14.3	17.7	15.3	4.8	14.0	14.0	30.5
SEW-MC-6m-6N	6	3/8"	38.4	14.3	17.7	15.3	4.8	17.4	14.0	31.0
SEW-MC-6m-8N	6	1/2"	44.7	19.0	17.7	15.3	4.8	22.0	14.0	37.3
SEW-MC-8m-4N	8	1/4"	38.7	14.3	18.6	16.2	6.3	14.0	16.0	31.4
SEW-MC-8m-6N	8	3/8"	39.2	14.3	18.6	16.2	6.3	17.4	16.0	31.8
SEW-MC-8m-8N	8	1/2"	45.6	19.0	18.6	16.2	6.3	22.0	16.0	38.1
SEW-MC-10m-4N	10	1/4"	40.9	14.3	19.5	17.2	7.1	19.0	19.0	33.3
SEW-MC-10m-6N	10	3/8"	40.9	14.3	19.5	17.2	7.9	19.0	19.0	33.3
SEW-MC-10m-8N	10	1/2"	46.5	19.0	19.5	17.2	7.9	22.0	19.0	38.9
SEW-MC-12m-4N	12	1/4"	43.4	14.3	22.0	22.8	7.1	20.6	22.0	33.3
SEW-MC-12m-6N	12	3/8"	43.4	14.3	22.0	22.8	9.5	20.6	22.0	33.3
SEW-MC-12m-8N	12	1/2"	49.0	19.0	22.0	22.8	9.5	22.0	22.0	38.9
SEW-MC-12m-12N	12	3/4"	50.5	19.0	22.0	22.8	9.5	27.0	22.0	40.4
SEW-MC-14m-4N	14	1/4"	44.1	14.3	22.0	24.4	7.1	24.0	25.0	34.0
SEW-MC-14m-6N	14	3/8"	44.1	14.3	22.0	24.4	9.5	24.0	25.0	34.0
SEW-MC-14m-8N	14	1/2"	49.0	19.0	22.0	24.4	11.1	24.0	25.0	38.9
SEW-MC-16m-6N	16	3/8"	44.1	14.3	22.0	24.4	9.5	24.0	25.0	34.0
SEW-MC-16m-8N	16	1/2"	49.0	19.0	22.0	24.4	11.9	24.0	25.0	38.9
SEW-MC-16m-12N	16	3/4"	50.5	19.0	22.0	24.4	12.7	27.0	25.0	40.4
SEW-MC-18m-8N	18	1/2"	50.5	19.0	22.0	24.4	11.9	27.0	30.0	40.0
SEW-MC-18m-12N	18	3/4"	50.5	19.0	22.0	24.4	15.1	27.0	30.0	40.0
SEW-MC-20m-8N	20	1/2"	52.3	19.0	22.0	26.0	11.9	30.0	32.0	42.2
SEW-MC-20m-12N	20	3/4"	52.3	19.0	22.0	26.0	15.9	30.0	32.0	42.2
SEW-MC-22m-12N	22	3/4"	52.3	19.0	22.0	26.0	15.9	30.0	32.0	42.2
SEW-MC-22m-16N	22	1"	57.1	23.8	22.0	26.0	18.3	35.0	32.0	47.0
SEW-MC-25m-8N	25	1/2"	57.5	19.0	26.5	31.3	11.9	35.0	38.0	45.2
SEW-MC-25m-12N	25	3/4"	57.5	19.0	26.5	31.3	15.9	35.0	38.0	45.2
SEW-MC-25m-16N	25	1"	62.3	23.8	26.5	31.3	21.8	35.0	38.0	50.0

All dimensions are for reference only, and are subject to change without prior notice. Sizes and types other than those featured above are available on request.

# MALE CONNECTOR SEW-MC

## ISO-TAPERED THREAD



Connects Fractional Tube To Female ISO Tapered Pipe Threads – SEW-MC (Dimensions in inch)										
SEW-MC Part No. (Ordering No)	T Tube OD	P BSPT (M)	A	B	C	D	E Min.	F A/F	G A/F	H
SEW-MC-2-2RT	1/8"	1/8"	1.20	0.38	0.60	0.50	0.09	7/16"	7/16"	0.94
SEW-MC-2-4RT	1/8"	1/4"	1.40	0.56	0.60	0.50	0.09	9/16"	7/16"	1.14
SEW-MC-3-2RT	3/16"	1/8"	1.23	0.38	0.63	0.54	0.12	7/16"	1/2"	0.97
SEW-MC-3-4RT	3/16"	1/4"	1.43	0.56	0.63	0.54	0.12	9/16"	1/2"	1.17
SEW-MC-4-2RT	1/4"	1/8"	1.29	0.38	0.70	0.60	0.19	1/2"	9/16"	1.00
SEW-MC-4-4RT	1/4"	1/4"	1.49	0.56	0.70	0.60	0.19	9/16"	9/16"	1.20
SEW-MC-4-6RT	1/4"	3/8"	1.51	0.56	0.70	0.60	0.19	11/16"	9/16"	1.22
SEW-MC-4-8RT	1/4"	1/2"	1.76	0.75	0.70	0.60	0.19	7/8"	9/16"	1.47
SEW-MC-5-4RT	5/16"	1/4"	1.52	0.56	0.73	0.64	0.25	9/16"	5/8"	1.23
SEW-MC-6-2RT	3/8"	1/8"	1.39	0.38	0.76	0.66	0.19	5/8"	11/16"	1.10
SEW-MC-6-4RT	3/8"	1/4"	1.57	0.56	0.76	0.66	0.28	5/8"	11/16"	1.28
SEW-MC-6-6RT	3/8"	3/8"	1.57	0.56	0.76	0.66	0.28	11/16"	11/16"	1.28
SEW-MC-6-8RT	3/8"	1/2"	1.82	0.75	0.76	0.66	0.28	7/8"	11/16"	1.53
SEW-MC-8-4RT	1/2"	1/4"	1.71	0.56	0.86	0.90	0.28	13/16"	7/8"	1.31
SEW-MC-8-6RT	1/2"	3/8"	1.71	0.56	0.86	0.90	0.38	13/16"	7/8"	1.31
SEW-MC-8-8RT	1/2"	1/2"	1.93	0.75	0.86	0.90	0.41	7/8"	7/8"	1.53
SEW-MC-8-12RT	1/2"	3/4"	1.99	0.75	0.86	0.90	0.41	1-1/16"	7/8"	1.59
SEW-MC-8-16RT	1/2"	1"	2.25	0.94	0.86	0.90	0.41	1-3/8"	7/8"	1.85
SEW-MC-10-6RT	5/8"	3/8"	1.74	0.56	0.86	0.96	0.38	15/16"	1"	1.34
SEW-MC-10-8RT	5/8"	1/2"	1.93	0.75	0.86	0.96	0.47	15/16"	1"	1.53
SEW-MC-12-8RT	3/4"	1/2"	1.99	0.75	0.86	0.96	0.47	1-1/16"	1-1/8"	1.59
SEW-MC-12-12RT	3/4"	3/4"	1.99	0.75	0.86	0.96	0.62	1-1/16"	1-1/8"	1.59
SEW-MC-12-16RT	3/4"	1"	2.25	0.94	0.86	0.96	0.62	1-3/8"	1-1/8"	1.85
SEW-MC-14-12RT	7/8"	3/4"	1.99	0.75	0.86	1.02	0.62	1-3/16"	1-1/4"	1.59
SEW-MC-16-8RT	1"	1/2"	2.26	0.75	1.04	1.23	0.47	1-3/8"	1-1/2"	1.78
SEW-MC-16-12RT	1"	3/4"	2.26	0.75	1.04	1.23	0.62	1-3/8"	1-1/2"	1.78
SEW-MC-16-16RT	1"	1"	2.45	0.94	1.04	1.23	0.88	1-3/8"	1-1/2"	1.97

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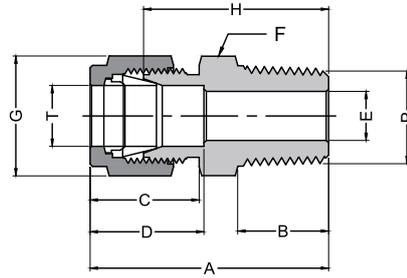
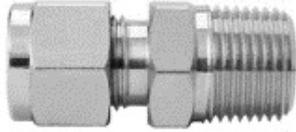
All dimensions are for reference only, and are subject to change without prior notice. Sizes and types other than those featured above are available on request.



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# MALE CONNECTOR SEW-MC

## ISO-TAPERED THREAD



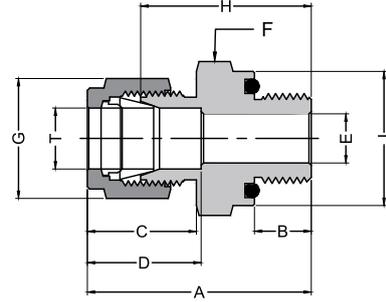
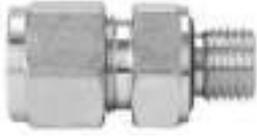
Connects Metric Tube To Female ISO Tapered Pipe Threads – SEW-MC-m (Dimensions in mm)

Super Engg. Part No. (Ordering No)	T Tube OD	P BSPT (M)	A	B	C	D	E Min.	F A/F	G A/F	H
SEW-MC-3m-2RT	3	1/8"	30.5	9.7	15.3	12.9	2.4	11.1	11.1	23.9
SEW-MC-3m-4RT	3	1/4"	35.6	14.3	15.3	12.9	2.4	14.0	11.1	29.0
SEW-MC-6m-2RT	6	1/8"	32.8	9.7	17.7	15.3	4.8	14.0	14.0	25.4
SEW-MC-6m-4RT	6	1/4"	37.9	14.3	17.7	15.3	4.8	14.0	14.0	30.5
SEW-MC-6m-6RT	6	3/8"	38.4	14.3	17.7	15.3	4.8	17.4	14.0	31.0
SEW-MC-6m-8RT	6	1/2"	44.7	19.0	17.7	15.3	4.8	22.0	14.0	37.3
SEW-MC-8m-4RT	8	1/4"	38.7	14.3	18.6	16.2	6.3	14.0	16.0	31.4
SEW-MC-8m-6RT	8	3/8"	39.2	14.3	18.6	16.2	6.3	17.4	16.0	31.8
SEW-MC-8m-8RT	8	1/2"	45.6	19.0	18.6	16.2	6.3	22.0	16.0	38.1
SEW-MC-10m-4RT	10	1/4"	40.9	14.3	19.5	17.2	7.1	19.0	19.0	33.3
SEW-MC-10m-6RT	10	3/8"	40.9	14.3	19.5	17.2	7.9	19.0	19.0	33.3
SEW-MC-10m-8RT	10	1/2"	46.5	19.0	19.5	17.2	7.9	22.0	19.0	38.9
SEW-MC-12m-4RT	12	1/4"	43.4	14.3	22.0	22.8	7.1	20.6	22.0	33.3
SEW-MC-12m-6RT	12	3/8"	43.4	14.3	22.0	22.8	9.5	20.6	22.0	33.3
SEW-MC-12m-8RT	12	1/2"	49.0	19.0	22.0	22.8	9.5	22.0	22.0	38.9
SEW-MC-12m-12RT	12	3/4"	50.5	19.0	22.0	22.8	9.5	27.0	22.0	40.4
SEW-MC-14m-4RT	14	1/4"	44.1	14.3	22.0	24.4	7.1	24.0	25.0	34.0
SEW-MC-14m-6RT	14	3/8"	44.1	14.3	22.0	24.4	9.5	24.0	25.0	34.0
SEW-MC-14m-8RT	14	1/2"	49.0	19.0	22.0	24.4	11.1	24.0	25.0	38.9
SEW-MC-16m-6RT	16	3/8"	44.1	14.3	22.0	24.4	9.5	24.0	25.0	34.0
SEW-MC-16m-8RT	16	1/2"	49.0	19.0	22.0	24.4	11.9	24.0	25.0	38.9
SEW-MC-16m-12RT	16	3/4"	50.5	19.0	22.0	24.4	12.7	27.0	25.0	40.4
SEW-MC-18m-8RT	18	1/2"	50.5	19.0	22.0	24.4	11.9	27.0	30.0	40.0
SEW-MC-18m-12RT	18	3/4"	50.5	19.0	22.0	24.4	15.1	27.0	30.0	40.0
SEW-MC-20m-8RT	20	1/2"	52.3	19.0	22.0	26.0	11.9	30.0	32.0	42.2
SEW-MC-20m-12RT	20	3/4"	52.3	19.0	22.0	26.0	15.9	30.0	32.0	42.2
SEW-MC-22m-12RT	22	3/4"	52.3	19.0	22.0	26.0	15.9	30.0	32.0	42.2
SEW-MC-22m-16RT	22	1"	57.1	23.8	22.0	26.0	18.3	35.0	32.0	47.0
SEW-MC-25m-8RT	25	1/2"	57.5	19.0	26.5	31.3	11.9	35.0	38.0	45.2
SEW-MC-25m-12RT	25	3/4"	57.5	19.0	26.5	31.3	15.9	35.0	38.0	45.2
SEW-MC-25m-16RT	25	1"	62.3	23.8	26.5	31.3	21.8	35.0	38.0	50.0

All dimensions are for reference only, and are subject to change without prior notice. Sizes and types other than those featured above are available on request.

# MALE CONNECTOR SEW-MC

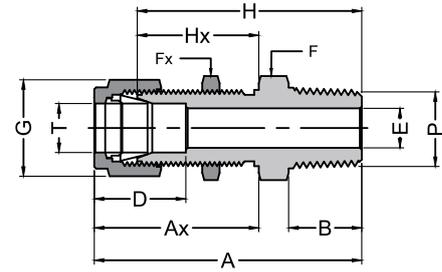
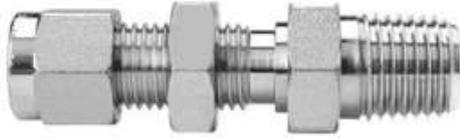
(O-Seal Male Straight Threads)



Connects Fractional Tube To Female Straight Threads – SEW-MC (DimSEWisions in inch)											
Super Engg. Part No. (Ordering No)	T Tube OD	SSEW/MS Straight Thread	A	B	C	D	E Min.	F A/F	G A/F	H	J
SEW-OMC-2-5 SE	1/8"	5/16-24	1.29	0.34	0.60	0.50	0.09	9/16"	7/16"	1.03	0.55
SEW-OMC-2-7 SE	1/4"	7/16-20	1.51	0.41	0.70	0.60	0.19	3/4"	9/16"	1.22	0.74
SEW-OMC-3-8 SE	5/16"	1/2-20	1.60	0.44	0.73	0.64	0.25	7/8"	5/8"	1.31	0.86
SEW-OMC-3-9 SE	3/8"	9/16-18	1.67	0.47	0.76	0.66	0.28	15/16"	11/16"	1.38	0.93
SEW-OMC-4-12 SE	1/2"	3/4-16	1.81	0.47	0.86	0.90	0.41	1-1/8"	7/8"	1.41	1.12
SEW-OMC-4-17 SE	3/4"	1,1/16-12	2.06	0.56	0.86	0.96	0.62	1-1/2"	1-1/8"	1.66	1.49
SEW-OMC-4-21 SE	1"	1,5/16-12	2.29	0.56	1.04	1.23	0.88	1-3/4"	1-1/2"	1.81	1.74

All dimensions are for reference only, and are subject to change without prior notice. Sizes and types other than those featured above are available on request.

# BULKHEAD MALE CONNECTOR SEW-BMC



Connects Fractional Tube To Female NPT Threads – SEW-BMC (DimSEWsions in inch)														
Super Engg. Part No. (Ordering No)	T Tube OD	P NPT (M)	A	Ax	B	D	E Min.	F A/F	Fx A/F	G A/F	H	Hx	Panel Hole Drill Size	Max Panel Thickness
SEW-BMC-2-2N	1/8"	1/8"	1.83	1.23	0.38	0.50	0.09	1/2"	1/2"	7/16"	1.57	0.97	21/64"	0.50
SEW-BMC-4-2N	1/4"	1/8"	1.95	1.32	0.38	0.60	0.19	5/8"	5/8"	9/16"	1.66	1.03	29/64"	0.40
SEW-BMC-4-4N	1/4"	1/4"	2.13	1.32	0.56	0.60	0.19	5/8"	5/8"	9/16"	1.84	1.03	29/64"	0.40
SEW-BMC-6-4N	3/8"	1/4"	2.26	1.45	0.56	0.66	0.28	3/4"	3/4"	11/16"	1.97	1.16	37/64"	0.44
SEW-BMC-6-6N	3/8"	3/8"	2.26	1.45	0.56	0.66	0.28	3/4"	3/4"	11/16"	1.97	1.16	37/64"	0.44
SEW-BMC-6-8N	3/8"	1/2"	2.51	1.45	0.75	0.66	0.28	7/8"	3/4"	11/16"	2.22	1.16	37/64"	0.44
SEW-BMC-8-6N	1/2"	3/8"	2.49	1.65	0.56	0.90	0.38	15/16"	15/16"	7/8"	2.09	1.25	49/64"	0.50
SEW-BMC-8-8N	1/2"	1/2"	2.71	1.65	0.75	0.90	0.41	15/16"	15/16"	7/8"	2.31	1.25	49/64"	0.50
SEW-BMC-12-12N	3/4"	3/4"	3.00	1.87	0.75	0.96	0.62	1-3/16"	1-3/16"	1-1/8"	2.60	1.47	1-1/64"	0.66
SEW-BMC-16-16N	1"	1"	3.67	2.26	0.94	1.23	0.88	1-5/8"	1-5/8"	1-1/2"	3.19	1.78	1-21/64"	0.75

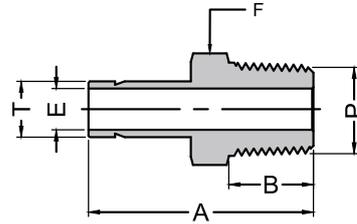
Connects Metric Tube To Female NPT Threads – SEW-BMC-m (DimSEWsions in mm)														
Super Engg. Part No. (Ordering No)	T Tube OD	P NPT (M)	A	Ax	B	D	E Min.	F A/F	Fx A/F	G A/F	H	Hx	Panel Hole Drill Size	Max Panel Thickness
SEW-BMC-6m-2N	6	1/8"	49.5	33.5	9.70	15.3	4.80	16.0	16.0	14.0	42.1	26.2	11.50	10.20
SEW-BMC-6m-4N	6	1/4"	53.6	33.5	14.3	15.3	4.80	16.0	16.0	14.0	46.2	26.2	11.50	10.20
SEW-BMC-8m-2N	8	1/8"	52.3	36.0	9.70	16.2	4.80	17.0	17.0	16.0	44.8	28.5	13.10	11.20
SEW-BMC-8m-4N	8	1/4"	57.5	36.0	14.3	16.2	6.40	17.0	17.0	16.0	50.0	28.5	13.10	11.20
SEW-BMC-10m-4N	10	1/4"	58.4	36.8	14.3	17.2	7.1	22.0	22.0	19.0	50.8	29.4	16.30	11.20
SEW-BMC-10m-6N	10	3/8"	58.4	36.8	14.3	17.2	7.9	22.0	22.0	19.0	50.8	29.4	16.30	11.20
SEW-BMC-10m-8N	10	1/2"	58.4	36.8	19.0	17.2	7.9	22.0	22.0	19.0	55.5	29.4	16.30	11.20
SEW-BMC-12m-4N	12	1/4"	63.3	41.9	14.3	22.8	7.1	24.0	24.0	22.0	53.2	31.8	19.50	12.70
SEW-BMC-12m-6N	12	3/8"	63.3	41.9	14.3	22.8	9.5	24.0	24.0	22.0	54.4	31.8	19.50	12.70
SEW-BMC-12m-8N	12	1/2"	68.8	41.9	19.0	22.8	9.5	24.0	24.0	22.0	58.7	31.80	19.50	12.70

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# MALE ADAPTER SEW-MA

## NPT THREAD

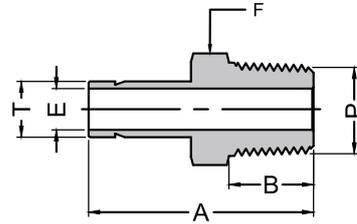


Connects Fractional Port to Female NPT Threads – SEW-MA (DimSEWnsions in inch)						
Super Engg. Part No. (Ordering No)	T Tube OD	Pipe Size P NPT (M)	A	B	E	F
SEW-MA-2-2N	1/8"	1/8"	1.16	0.38	0.08	7/16"
SEW-MA-2-4N	1/8"	1/4"	1.37	0.56	0.08	9/16"
SEW-MA-3-2N	3/16"	1/8"	1.19	0.38	0.12	7/16"
SEW-MA-3-4N	3/16"	1/4"	1.40	0.56	0.12	9/16"
SEW-MA-4-2N	1/4"	1/8"	1.25	0.38	0.17	7/16"
SEW-MA-4-4N	1/4"	1/4"	1.46	0.56	0.17	9/16"
SEW-MA-4-6N	1/4"	3/8"	1.49	0.56	0.17	11/16"
SEW-MA-4-8N	1/4"	1/2"	1.71	0.75	0.17	7/8"
SEW-MA-5-2N	5/16"	1/8"	1.29	0.38	0.19	7/16"
SEW-MA-5-4N	5/16"	1/4"	1.50	0.56	0.22	9/16"
SEW-MA-6-2N	3/8"	1/8"	1.32	0.38	0.19	7/16"
SEW-MA-6-4N	3/8"	1/4"	1.53	0.56	0.27	9/16"
SEW-MA-6-6N	3/8"	3/8"	1.56	0.56	0.27	11/16"
SEW-MA-6-8N	3/8"	1/2"	1.78	0.75	0.27	7/8"
SEW-MA-8-4N	1/2"	1/4"	1.75	0.56	0.28	9/16"
SEW-MA-8-6N	1/2"	3/8"	1.78	0.56	0.37	11/16"
SEW-MA-8-8N	1/2"	1/2"	2.00	0.75	0.37	7/8"
SEW-MA-10-8N	5/8"	1/2"	2.06	0.75	0.47	7/8"
SEW-MA-12-8N	3/4"	1/2"	2.06	0.75	0.47	7/8"
SEW-MA-12-12N	3/4"	3/4"	2.06	0.75	0.58	1-1/16"
SEW-MA-16-12N	1"	3/4"	2.31	0.75	0.62	1-1/16"
SEW-MA-16-16N	1"	1"	2.60	0.94	0.80	1-3/8"

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Cont'd  
**MALE ADAPTER** SEW-MA  
**NPT THREAD**

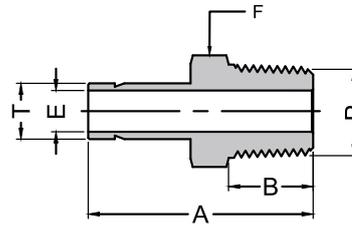


Connects Metric Port to Female NPT Threads – SEW-MA-m (Dimensions in mm)						
Super Engg. Part No. (Ordering No)	T Tube OD	Pipe Size P NPT (M)	A	B	E	F
SEW-MA-3m-2N	3	1/8"	29.4	9.7	2.0	11.0
SEW-MA-3m-4N	3	1/4"	34.8	14.3	2.0	14.0
SEW-MA-6m-2N	6	1/8"	32.8	9.7	4.5	11.0
SEW-MA-6m-4N	6	1/4"	38.1	14.3	4.5	14.0
SEW-MA-8m-4N	8	1/4"	39.1	14.3	6.2	14.0
SEW-MA-10m-4N	10	1/4"	39.9	14.3	7.7	14.0
SEW-MA-10m-6N	10	3/8"	40.6	14.3	7.7	17.5
SEW-MA-10m-8N	10	1/2"	45.2	19.1	7.7	22.0
SEW-MA-12m-4N	12	1/4"	46.5	14.3	7.1	14.3
SEW-MA-12m-6N	12	3/8"	46.5	14.3	9.1	17.5
SEW-MA-12m-8N	12	1/2"	52.1	19.1	9.1	22.0
SEW-MA-18m-8N	18	1/2"	53.2	19.1	11.9	22.0
SEW-MA-18m-12N	18	3/4"	53.2	19.1	13.9	27.0
SEW-MA-25m-12N	25	3/4"	62.0	19.1	15.7	27.0
SEW-MA-25m-16N	25	1"	66.8	23.8	15.7	35.0

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# MALE ADAPTER SEW-MA

## ISO TAPERED



Connects Fractional Port to Female ISO Tapered Pipe Threads – SEW-MA (DimSEWsions in inch)						
Super Engg. Part No. (Ordering No)	T Tube OD	Pipe Size P BSPT (M)	A	B	E	F
SEW-MA-2-2RT	1/8"	1/8"	1.16	0.38	0.08	7/16"
SEW-MA-2-4RT	1/8"	1/4"	1.37	0.56	0.08	9/16"
SEW-MA-3-2RT	3/16"	1/8"	1.19	0.38	0.12	7/16"
SEW-MA-3-4RT	3/16"	1/4"	1.40	0.56	0.12	9/16"
SEW-MA-4-2RT	1/4"	1/8"	1.25	0.38	0.17	7/16"
SEW-MA-4-4RT	1/4"	1/4"	1.46	0.56	0.17	9/16"
SEW-MA-4-6RT	1/4"	3/8"	1.49	0.56	0.17	11/16"
SEW-MA-4-8RT	1/4"	1/2"	1.71	0.75	0.17	7/8"
SEW-MA-5-2RT	5/16"	1/8"	1.29	0.38	0.19	7/16"
SEW-MA-5-4RT	5/16"	1/4"	1.50	0.56	0.22	9/16"
SEW-MA-6-2RT	3/8"	1/8"	1.32	0.38	0.19	7/16"
SEW-MA-6-4RT	3/8"	1/4"	1.53	0.56	0.27	9/16"
SEW-MA-6-6RT	3/8"	3/8"	1.56	0.56	0.27	11/16"
SEW-MA-6-8RT	3/8"	1/2"	1.78	0.75	0.27	7/8"
SEW-MA-8-4RT	1/2"	1/4"	1.75	0.56	0.28	9/16"
SEW-MA-8-6RT	1/2"	3/8"	1.78	0.56	0.37	11/16"
SEW-MA-8-8RT	1/2"	1/2"	2.00	0.75	0.37	7/8"
SEW-MA-10-8RT	5/8"	1/2"	2.06	0.75	0.47	7/8"
SEW-MA-12-8RT	3/4"	1/2"	2.06	0.75	0.47	7/8"
SEW-MA-12-12RT	3/4"	3/4"	2.06	0.75	0.58	1-1/16"
SEW-MA-16-12RT	1"	3/4"	2.31	0.75	0.62	1-1/16"
SEW-MA-16-16RT	1"	1"	2.60	0.94	0.80	1-3/8"

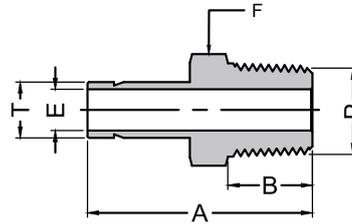
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# MALE ADAPTER SEW-MA

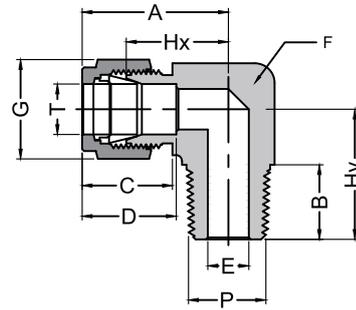
## ISO TAPERED



Connects Metric Port to Female ISO Tapered Pipe Threads – SEW-MA-m (Dimensions in mm)						
Super Engg. Part No. (Ordering No)	T Tube OD	Pipe Size P BSPT (M)	A	B	E	F
SEW-MA-3m-2RT	3	1/8"	29.4	9.7	2.0	11.0
SEW-MA-3m-4RT	3	1/4"	34.8	14.3	2.0	14.0
SEW-MA-6m-2RT	6	1/8"	32.8	9.7	4.5	11.0
SEW-MA-6m-4RT	6	1/4"	38.1	14.3	4.5	14.0
SEW-MA-8m-4RT	8	1/4"	39.1	14.3	6.2	14.0
SEW-MA-10m-4RT	10	1/4"	39.9	14.3	7.7	14.0
SEW-MA-10m-6RT	10	3/8"	40.6	14.3	7.7	17.5
SEW-MA-10m-8RT	10	1/2"	45.2	19.1	7.7	22.0
SEW-MA-12m-4RT	12	1/4"	46.5	14.3	7.1	14.3
SEW-MA-12m-6RT	12	3/8"	46.5	14.3	9.1	17.5
SEW-MA-12m-8RT	12	1/2"	52.1	19.1	9.1	22.0
SEW-MA-18m-8RT	18	1/2"	53.2	19.1	11.9	22.0
SEW-MA-18m-12RT	18	3/4"	53.2	19.1	13.9	27.0
SEW-MA-25m-12RT	25	3/4"	62.0	19.1	15.7	27.0
SEW-MA-25m-16RT	25	1"	66.8	23.8	15.7	35.0

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# MALE ELBOW SEW-ME



Connects Fractional Tube To Female NPT Threads – SEW-ME (DimSEW'sions in inch)											
Super Engg. Part No. (Ordering No)	T Tube OD	P NPT (M)	A	B	C	D	E Min.	F A/F	G A/F	Hx	Hy
SEW-ME-2-2N	1/8"	1/8"	0.93	0.38	0.60	0.50	0.09	1/2"	7/16"	0.67	0.70
SEW-ME-2-4N	1/8"	1/4"	0.97	0.56	0.60	0.50	0.09	9/16"	7/16"	0.71	0.92
SEW-ME-3-2N	3/16"	1/8"	1.00	0.38	0.63	0.54	0.12	1/2"	1/2"	0.74	0.74
SEW-ME-3-4N	3/16"	1/4"	1.00	0.56	0.63	0.54	0.12	9/16"	1/2"	0.74	0.92
SEW-ME-4-2N	1/4"	1/8"	1.06	0.38	0.70	0.60	0.19	1/2"	9/16"	0.77	0.74
SEW-ME-4-4N	1/4"	1/4"	1.06	0.56	0.70	0.60	0.19	9/16"	9/16"	0.77	0.92
SEW-ME-4-6N	1/4"	3/8"	1.17	0.56	0.70	0.60	0.19	11/16"	9/16"	0.88	1.03
SEW-ME-4-8N	1/4"	1/2"	1.25	0.75	0.70	0.60	0.19	7/8"	9/16"	0.96	1.30
SEW-ME-5-4N	5/16"	1/4"	1.13	0.56	0.73	0.64	0.25	9/16"	5/8"	0.84	0.96
SEW-ME-6-2N	3/8"	1/8"	1.20	0.38	0.76	0.66	0.19	5/8"	11/16"	0.91	0.82
SEW-ME-6-4N	3/8"	1/4"	1.20	0.56	0.76	0.66	0.28	5/8"	11/16"	0.91	1.00
SEW-ME-6-6N	3/8"	3/8"	1.23	0.56	0.76	0.66	0.28	11/16"	11/16"	0.94	1.03
SEW-ME-6-8N	3/8"	1/2"	1.31	0.75	0.76	0.66	0.28	7/8"	11/16"	1.02	1.30
SEW-ME-8-4N	1/2"	1/4"	1.42	0.56	0.86	0.90	0.28	13/16"	7/8"	1.02	1.11
SEW-ME-8-6N	1/2"	3/8"	1.42	0.56	0.86	0.90	0.38	13/16"	7/8"	1.02	1.11
SEW-ME-8-8N	1/2"	1/2"	1.42	0.75	0.86	0.90	0.41	7/8"	7/8"	1.02	1.30
SEW-ME-8-12N	1/2"	3/4"	1.57	0.75	0.86	0.90	0.41	1-1/16"	7/8"	1.17	1.45
SEW-ME-10-6N	5/8"	3/8"	1.50	0.56	0.86	0.96	0.38	15/16"	1"	1.10	1.19
SEW-ME-10-8N	5/8"	1/2"	1.50	0.75	0.86	0.96	0.47	15/16"	1"	1.10	1.38
SEW-ME-12-8N	3/4"	1/2"	1.57	0.75	0.86	0.96	0.47	1-1/16"	1-1/8"	1.17	1.45
SEW-ME-12-12N	3/4"	3/4"	1.57	0.75	0.86	0.96	0.62	1-1/16"	1-1/8"	1.17	1.45
SEW-ME-14-12N	7/8"	3/4"	1.76	0.75	0.86	1.02	0.62	1-1/4"	1-1/4"	1.36	1.64
SEW-ME-16-12N	1"	3/4"	1.93	0.75	1.04	1.23	0.62	1-3/8"	1-1/2"	1.45	1.64
SEW-ME-16-16N	1"	1"	1.93	0.94	1.04	1.23	0.88	1-3/8"	1-1/2"	1.45	1.83

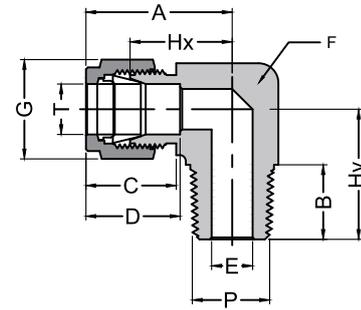
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# MALE ELBOW SEW-ME

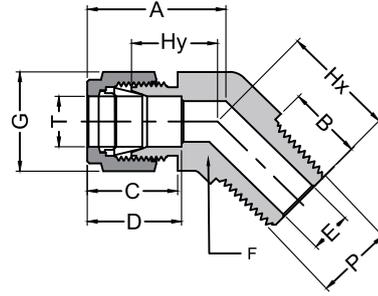


Connects Metric Tube To Female NPT Threads – SEW-ME-m (DimSEWisions in mm)											
Super Engg. Part No. (Ordering No)	T Tube OD	P NPT (M)	A	B	C	D	E Min.	F A/F	G A/F	Hx	Hy
SEW-ME-3m-2N	3	1/8"	23.6	9.7	15.3	12.9	2.4	12.7	11.0	17.0	17.8
SEW-ME-3m-4N	3	1/4"	24.6	14.3	15.3	12.9	2.4	14.0	11.0	18.0	23.4
SEW-ME-6m-2N	6	1/8"	27.0	9.7	17.7	15.3	4.8	12.7	14.0	19.6	18.8
SEW-ME-6m-4N	6	1/4"	27.0	14.3	17.7	15.3	4.8	14.0	14.0	19.6	23.4
SEW-ME-6m-6N	6	3/8"	29.8	14.3	17.7	15.3	4.8	17.4	14.0	22.4	26.2
SEW-ME-6m-8N	6	1/2"	31.8	19.0	17.7	15.3	4.8	22.0	14.0	24.4	33.0
SEW-ME-8m-2N	8	1/8"	28.8	9.7	18.6	16.2	4.8	14.0	16.0	21.3	19.8
SEW-ME-8m-4N	8	1/4"	28.8	14.3	18.6	16.2	6.3	14.0	16.0	21.3	24.4
SEW-ME-8m-6N	8	3/8"	30.6	14.3	18.6	16.2	6.3	17.4	16.0	23.1	26.2
SEW-ME-8m-8N	8	1/2"	32.6	19.0	18.6	16.2	6.3	22.0	16.0	25.1	33.0
SEW-ME-10m-4N	10	1/4"	31.5	14.3	19.5	17.2	7.1	17.0	19.0	23.9	26.2
SEW-ME-10m-6N	10	3/8"	31.5	14.3	19.5	17.2	7.9	17.4	19.0	23.9	26.2
SEW-ME-10m-8N	10	1/2"	33.5	19.0	19.5	17.2	7.9	20.6	19.0	25.9	33.0
SEW-ME-12m-4N	12	1/4"	36.0	14.3	22.0	22.8	7.1	20.6	22.0	25.9	28.2
SEW-ME-12m-6N	12	3/8"	36.0	14.3	22.0	22.8	9.5	20.6	22.0	25.9	28.2
SEW-ME-12m-8N	12	1/2"	36.0	19.0	22.0	22.8	9.5	22.0	22.0	25.9	33.0
SEW-ME-12m-12N	12	3/4"	39.8	19.0	22.0	22.8	9.5	27.0	22.0	29.7	36.8
SEW-ME-15m-8N	15	1/2"	38.0	19.0	22.0	24.4	11.9	24.0	25.0	27.9	35.1
SEW-ME-16m-6N	16	3/8"	38.0	14.3	22.0	24.4	9.5	24.0	25.0	27.9	30.2
SEW-ME-16m-8N	16	1/2"	38.0	19.0	22.0	24.4	11.9	24.0	25.0	27.9	35.1
SEW-ME-16m-12N	16	3/4"	39.8	19.0	22.0	24.4	12.7	27.0	25.0	29.7	36.8
SEW-ME-18m-8N	18	1/2"	39.8	19.0	22.0	24.4	11.9	27.0	30.0	29.7	36.8
SEW-ME-18m-12N	18	3/4"	39.8	19.0	22.0	24.4	15.1	27.0	30.0	29.7	36.8
SEW-ME-20m-8N	20	1/2"	44.6	19.0	22.0	26.0	11.9	32.0	32.0	34.5	41.7
SEW-ME-20m-12N	20	3/4"	44.6	19.0	22.0	26.0	15.9	32.0	32.0	34.5	41.7
SEW-ME-22m-12N	22	3/4"	44.6	19.0	22.0	26.0	15.9	32.0	32.0	34.5	41.7
SEW-ME-22m-16N	22	1"	44.6	23.8	22.0	26.0	18.3	35.0	32.0	34.5	46.5
SEW-ME-25m-12N	25	3/4"	49.1	19.0	26.5	31.3	15.9	35.0	38.0	36.8	41.7
SEW-ME-25m-16N	25	1"	49.1	23.8	26.5	31.3	21.8	35.0	38.0	36.8	46.5

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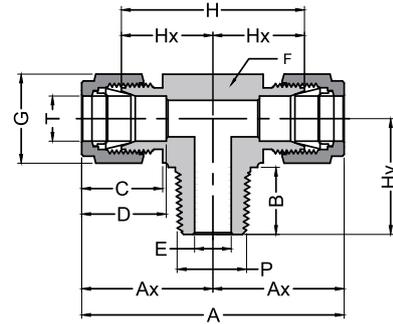
# 45° MALE ELBOW AE-45ME



Connects Fractional Tube To Female NPT Threads – SEW-ME (Dimensions in inch)											
Super Engg. Part No. (Ordering No)	T Tube OD	P NPT (M)	A	B	C	D	E Min.	F A/F	G A/F	Hx	Hy
SEW-45ME-2-2N	1/8"	1/8"	0.97	0.38	0.60	0.50	0.09	9/16"	7/16"	0.65	0.59
SEW-45ME-4-2N	1/4"	1/8"	0.97	0.38	0.70	0.60	0.19	9/16"	9/16"	0.65	0.68
SEW-45ME-4-4N	1/4"	1/4"	0.97	0.56	0.70	0.60	0.19	9/16"	9/16"	0.83	0.68
SEW-45ME-5-2N	5/16"	1/8"	0.97	0.38	0.73	0.64	0.19	9/16"	5/8"	0.65	0.66
SEW-45ME-6-2N	3/8"	1/8"	1.10	0.38	0.76	0.66	0.19	9/16"	11/16"	0.72	0.81
SEW-45ME-6-4N	3/8"	1/4"	1.10	0.56	0.76	0.66	0.28	5/8"	11/16"	0.90	0.81
SEW-45ME-6-6N	3/8"	3/8"	1.15	0.56	0.76	0.66	0.28	11/16"	11/16"	0.95	0.86
SEW-45ME-8-6N	1/2"	3/8"	1.26	0.56	0.86	0.90	0.38	13/16"	7/8"	0.95	0.86
SEW-45ME-8-8N	1/2"	1/2"	1.26	0.75	0.86	0.90	0.41	7/8"	7/8"	1.14	0.86
SEW-45ME-10-8N	5/8"	1/2"	1.34	0.75	0.86	0.96	0.47	15/16"	1"	1.17	0.81
SEW-45ME-12-12N	3/4"	3/4"	1.34	0.75	0.86	0.96	0.62	1-1/16"	1-1/8"	1.22	0.94
SEW-45ME-14-12N	7/8"	3/4"	1.59	0.75	0.86	1.02	0.62	1-1/4"	1-1/4"	1.27	1.36
SEW-45ME-16-16N	1"	1"	1.59	0.94	1.04	1.23	0.88	1-3/8"	1-1/2"	1.49	1.11

All dimensions are for reference only, and are subject to change without prior notice. Sizes and types other than those featured above are available on request.

# MALE BRANCH TEE SEW-MBT

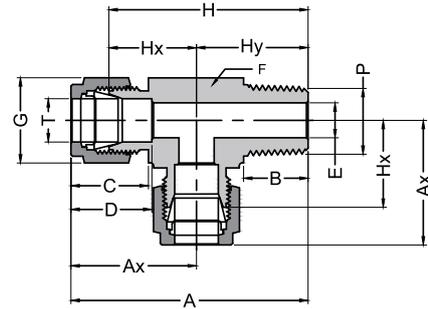


Connects Fractional Tube To Female NPT Threads – SEW-MBT (DimSEWsions in inch)													
Super Engg. Part No. (Ordering No)	T Tube OD	P NPT (M)	A	Ax	B	C	D	E Min.	F A/F	G A/F	H	Hx	Hy
SEW-MBT-2-2N	1/8"	1/8"	1.86	0.93	0.38	0.60	0.50	0.09	1/2"	7/16"	1.34	0.67	0.70
SEW-MBT-2-4N	1/8"	1/4"	1.94	0.97	0.56	0.60	0.50	0.09	9/16"	7/16"	1.42	0.71	0.92
SEW-MBT-3-2N	3/16"	1/8"	1.92	0.96	0.38	0.63	0.54	0.12	1/2"	1/2"	1.40	0.70	0.70
SEW-MBT-4-2N	1/4"	1/8"	2.12	1.06	0.38	0.70	0.60	0.19	1/2"	9/16"	1.54	0.77	0.74
SEW-MBT-4-4N	1/4"	1/4"	2.12	1.06	0.56	0.70	0.60	0.19	9/16"	9/16"	1.54	0.77	0.92
SEW-MBT-5-2N	5/16"	1/8"	2.34	1.17	0.38	0.73	0.64	0.25	9/16"	5/8"	1.76	0.88	0.82
SEW-MBT-6-4N	3/8"	1/4"	2.40	1.20	0.56	0.76	0.66	0.28	5/8"	11/16"	1.82	0.91	1.00
SEW-MBT-6-6N	3/8"	3/8"	2.46	1.23	0.56	0.76	0.66	0.28	11/16"	11/16"	1.88	0.94	1.03
SEW-MBT-8-6N	1/2"	3/8"	2.84	1.42	0.56	0.86	0.90	0.38	13/16"	7/8"	2.04	1.02	1.11
SEW-MBT-8-8N	1/2"	1/2"	2.84	1.42	0.75	0.86	0.90	0.41	7/8"	7/8"	2.04	1.02	1.30
SEW-MBT-10-8N	5/8"	1/2"	3.00	1.50	0.75	0.86	0.96	0.47	15/16"	1"	2.20	1.10	1.38
SEW-MBT-12-12N	3/4"	3/4"	3.14	1.57	0.75	0.86	0.96	0.62	1-1/16"	1-1/8"	2.34	1.17	1.45

Connects Metric Tube To Female NPT Threads – SEW-MBT-m (DimSEWsions in mm)													
Super Engg. Part No. (Ordering No)	T Tube OD	P NPT (M)	A	Ax	B	C	D	E Min.	F A/F	G A/F	H	Hx	Hy
SEW-MBT-3m-2N	3	1/8"	47.2	23.6	9.7	15.3	12.9	2.4	12.7	11.0	34.0	17.0	17.8
SEW-MBT-3m-4N	3	1/4"	49.2	24.6	14.3	15.3	12.9	2.4	14.0	11.0	36.0	18.0	23.4
SEW-MBT-6m-2N	6	1/8"	54.0	27.0	9.7	17.7	15.3	4.8	12.7	14.0	39.2	19.6	18.8
SEW-MBT-6m-4N	6	1/4"	54.0	27.0	14.3	17.7	15.3	4.8	14.0	14.0	39.2	19.6	23.4
SEW-MBT-8m-2N	8	1/8"	57.6	28.8	9.7	18.6	16.2	4.8	14.0	16.0	42.6	21.3	19.8
SEW-MBT-8m-4N	8	1/4"	57.6	28.8	14.3	18.6	16.2	6.3	14.0	16.0	42.6	21.3	24.4
SEW-MBT-10m-4N	10	1/4"	63.0	31.5	14.3	19.5	17.2	7.1	17.0	19.0	47.8	23.9	26.2
SEW-MBT-10m-6N	10	3/8"	63.0	31.5	14.3	19.5	17.2	7.9	17.4	19.0	47.8	23.9	26.2
SEW-MBT-12m-4N	12	1/4"	72.0	36.0	14.3	22.0	22.8	7.1	20.6	22.0	51.8	25.9	28.2
SEW-MBT-12m-6N	12	3/8"	72.0	36.0	14.3	22.0	22.8	7.9	20.6	22.0	51.8	25.9	28.2
SEW-MBT-12m-8N	12	1/2"	72.0	36.0	19.0	22.0	22.8	9.5	22.0	22.0	51.8	25.9	33.0
SEW-MBT-16m-8N	16	1/2"	76.0	38.0	19.0	22.0	24.4	11.9	24.0	25.0	55.8	27.9	35.1

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# MALE RUN TEE SEW-MRT



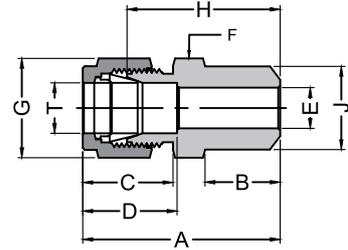
Connects Fractional Tube To Female NPT Threads – SEW-MRT (DimSEWsions in inch)													
Super Engg. Part No. (Ordering No)	T Tube OD	P NPT (M)	A	Ax	B	C	D	E Min.	F A/F	G A/F	H	Hx	Hy
SEW-MRT-2-2N	1/8"	1/8"	1.63	0.93	0.38	0.60	0.50	0.09	1/2"	7/16"	1.37	0.67	0.70
SEW-MRT-2-4N	1/8"	1/4"	1.89	0.97	0.56	0.60	0.50	0.09	9/16"	7/16"	1.63	0.71	0.92
SEW-MRT-3-2N	3/16"	1/8"	1.66	0.96	0.38	0.63	0.54	0.12	1/2"	1/2"	1.40	0.70	0.70
SEW-MRT-4-2N	1/4"	1/8"	1.80	1.06	0.38	0.70	0.60	0.19	1/2"	9/16"	1.51	0.77	0.74
SEW-MRT-4-4N	1/4"	1/4"	1.98	1.06	0.56	0.70	0.60	0.19	9/16"	9/16"	1.69	0.77	0.92
SEW-MRT-5-2N	5/16"	1/8"	1.99	1.17	0.38	0.73	0.64	0.25	9/16"	5/8"	1.70	0.88	0.82
SEW-MRT-6-4N	3/8"	1/4"	2.20	1.20	0.56	0.76	0.66	0.28	5/8"	11/16"	1.91	0.91	1.00
SEW-MRT-6-6N	3/8"	3/8"	2.26	1.23	0.56	0.76	0.66	0.28	11/16"	11/16"	1.97	0.94	1.03
SEW-MRT-8-6N	1/2"	3/8"	2.53	1.42	0.56	0.86	0.90	0.38	13/16"	7/8"	2.13	1.02	1.11
SEW-MRT-8-8N	1/2"	1/2"	2.72	1.42	0.75	0.86	0.90	0.41	7/8"	7/8"	2.32	1.02	1.30
SEW-MRT-10-8N	5/8"	1/2"	2.88	1.50	0.75	0.86	0.96	0.47	15/16"	1"	2.48	1.10	1.38
SEW-MRT-12-12N	3/4"	3/4"	3.02	1.57	0.75	0.86	0.96	0.62	1-1/16"	1-1/8"	2.62	1.17	1.45

Connects Metric Tube To Female NPT Threads – SEW-MRT-m (DimSEWsions in mm)													
Super Engg. Part No. (Ordering No)	T Tube OD	P NPT (M)	A	Ax	B	C	D	E Min.	F A/F	G A/F	H	Hx	Hy
SEW-MRT-3m-2N	3	1/8"	41.4	23.6	9.7	15.3	12.9	2.4	12.7	11.0	34.8	17.0	17.8
SEW-MRT-3m-4N	3	1/4"	48.0	24.6	14.3	15.3	12.9	2.4	14.0	11.0	41.4	18.0	23.4
SEW-MRT-6m-2N	6	1/8"	45.8	27.0	9.7	17.7	15.3	4.8	12.7	14.0	38.4	19.6	18.8
SEW-MRT-6m-4N	6	1/4"	50.4	27.0	14.3	17.7	15.3	4.8	14.0	14.0	43.0	19.6	23.4
SEW-MRT-8m-2N	8	1/8"	48.6	28.8	9.7	18.6	16.2	4.8	14.0	16.0	41.1	21.3	19.8
SEW-MRT-8m-4N	8	1/4"	53.2	28.8	14.3	18.6	16.2	6.3	14.0	16.0	45.7	21.3	24.4
SEW-MRT-10m-4N	10	1/4"	57.7	31.5	14.3	19.5	17.2	7.1	17.0	19.0	50.1	23.9	26.2
SEW-MRT-10m-6N	10	3/8"	57.7	31.5	14.3	19.5	17.2	7.9	17.4	19.0	50.1	23.9	26.2
SEW-MRT-12m-4N	12	1/4"	64.2	36.0	14.3	22.0	22.8	7.1	20.6	22.0	54.1	25.9	28.2
SEW-MRT-12m-6N	12	3/8"	64.2	36.0	14.3	22.0	22.8	7.9	20.6	22.0	54.1	25.9	28.2
SEW-MRT-12m-8N	12	1/2"	69.0	36.0	19.0	22.0	22.8	9.5	22.0	22.0	58.9	25.9	33.0
SEW-MRT-16m-8N	16	1/2"	73.1	38.0	19.0	22.0	24.4	11.9	24.0	25.0	63.0	27.9	35.1

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# MALE PIPE WELD CONNECTOR SEW-MWC



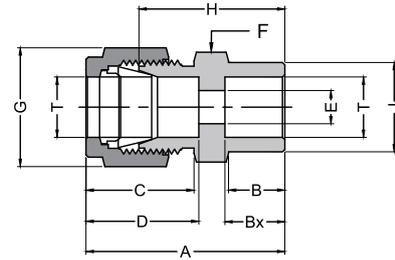
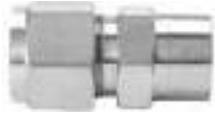
Connects Fractional Tube To Pipe – SEW-MWC (DimSEWisions in inch)											
Super Engg. Part No. (Ordering No)	T Tube OD	Male Pipe Size	A	B	C	D	E Min.	F A/F	G A/F	H	J
SEW-MWC-2-2P	1/8"	1/8"	1.20	0.38	0.60	0.50	0.09	7/16"	7/16"	0.94	0.405
SEW-MWC-3-2P	3/16"	1/8"	1.23	0.38	0.63	0.54	0.12	7/16"	1/2"	0.97	0.405
SEW-MWC-4-2P	1/4"	1/8"	1.29	0.38	0.70	0.60	0.19	1/2"	9/16"	1.00	0.405
SEW-MWC-4-4P	1/4"	1/4"	1.49	0.56	0.70	0.60	0.19	9/16"	9/16"	1.20	0.540
SEW-MWC-5-2P	5/16"	1/8"	1.34	0.38	0.73	0.64	0.20	9/16"	5/8"	1.05	0.405
SEW-MWC-5-4P	5/16"	1/4"	1.52	0.56	0.73	0.64	0.25	9/16"	5/8"	1.23	0.540
SEW-MWC-6-4P	3/8"	1/4"	1.57	0.56	0.76	0.66	0.28	5/8"	11/16"	1.28	0.540
SEW-MWC-6-6P	3/8"	3/8"	1.57	0.56	0.76	0.66	0.28	11/16"	11/16"	1.28	0.675
SEW-MWC-6-8P	3/8"	1/2"	1.82	0.75	0.76	0.66	0.28	7/8"	11/16"	1.53	0.840
SEW-MWC-6-12P	3/8"	3/4"	1.88	0.75	0.76	0.66	0.28	1-1/16"	11/16"	1.59	1.050
SEW-MWC-8-6P	1/2"	3/8"	1.71	0.56	0.86	0.90	0.41	13/16"	7/8"	1.31	0.675
SEW-MWC-8-8P	1/2"	1/2"	1.93	0.75	0.86	0.90	0.41	7/8"	7/8"	1.53	0.840
SEW-MWC-8-12P	1/2"	3/4"	1.99	0.75	0.86	0.90	0.41	1-1/16"	7/8"	1.59	1.050
SEW-MWC-10-8P	5/8"	1/2"	1.93	0.75	0.86	0.96	0.50	15/16"	1"	1.53	0.840
SEW-MWC-12-12P	3/4"	3/4"	1.99	0.75	0.86	0.96	0.62	1-1/16"	1-1/8"	1.59	1.050
SEW-MWC-16-16P	1"	1"	2.45	0.94	1.04	1.23	0.88	1-3/8"	1-1/2"	1.97	1.315

Connects Metric Tube To Pipe – SEW-MWC-m (DimSEWisions in inch)											
Super Engg. Part No. (Ordering No)	T Tube OD	Male Pipe Size	A	B	C	D	E Min.	F A/F	G A/F	H	J
SEW-MWC-3m-2P	3	1/8"	30.5	9.7	15.3	12.9	2.4	11.1	11.1	23.9	10.3
SEW-MWC-6m-2P	6	1/8"	32.8	9.7	17.7	15.3	4.8	14.0	14.0	25.4	10.3
SEW-MWC-6m-4P	6	1/4"	37.9	14.3	17.7	15.3	4.8	14.0	14.0	30.5	13.7
SEW-MWC-8m-4P	8	1/4"	38.7	14.3	18.6	16.2	6.3	14.0	16.0	31.4	13.7
SEW-MWC-8m-8P	8	1/2"	45.6	19.0	18.6	16.2	6.3	22.0	16.0	38.1	21.3
SEW-MWC-10m-4P	10	1/4"	40.9	14.3	19.5	17.2	7.1	19.0	19.0	33.3	13.7
SEW-MWC-10m-6P	10	3/8"	40.9	14.3	19.5	17.2	7.9	19.0	19.0	33.3	17.1
SEW-MWC-10m-8P	10	1/2"	46.5	19.0	19.5	17.2	7.9	22.0	19.0	38.9	21.3
SEW-MWC-12m-4P	12	1/4"	43.4	14.3	22.0	22.8	7.1	20.6	22.0	33.3	13.7
SEW-MWC-12m-6P	12	3/8"	43.4	14.3	22.0	22.8	9.5	20.6	22.0	33.3	17.1
SEW-MWC-12m-8P	12	1/2"	49.0	19.0	22.0	22.8	9.5	22.0	22.0	38.9	21.3
SEW-MWC-14m-6P	14	3/8"	44.1	14.3	22.0	24.4	9.5	24.0	25.0	34.0	17.1
SEW-MWC-16m-8P	16	1/2"	49.0	19.0	22.0	24.4	11.9	24.0	25.0	38.9	21.3
SEW-MWC-18m-8P	18	1/2"	50.5	19.0	22.0	24.4	11.9	27.0	30.0	40.0	21.3

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# SOCKET WELD TUBE CONNECTOR SEW-SWC

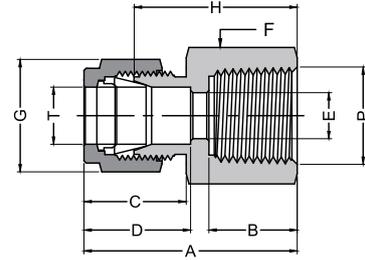


Connects Fractional Tubes – SEW-SWC (Dimensions in inch)											
Super Engg. Part No. (Ordering No)	T Tube OD	A	B	Bx	C	D	E Min.	F A/F	G A/F	H	J
SEW-SWU-2	1/8"	1.14	0.34	0.25	0.60	0.50	0.09	7/16"	7/16"	0.88	0.31
SEW-SWU-4	1/4"	1.32	0.41	0.31	0.70	0.60	0.19	1/2"	9/16"	1.03	0.44
SEW-SWU-6	3/8"	1.48	0.47	0.38	0.76	0.66	0.19	5/8"	11/16"	1.19	0.62
SEW-SWU-8	1/2"	1.62	0.47	0.50	0.86	0.90	0.28	13/16"	7/8"	1.22	0.75
SEW-SWU-12	3/4"	1.71	0.47	0.56	0.86	0.96	0.47	1-1/16"	1-1/8"	1.31	1.05
SEW-SWU-16	1"	2.07	0.56	0.75	1.04	1.23	0.47	1-3/8"	1-1/2"	1.59	1.31

All dimensions are for reference only, and are subject to change without prior notice. Sizes and types other than those featured above are available on request.

# FEMALE CONNECTOR SEW-FC

## NPT THREAD



Connects Fractional Tube To Male NPT Threads – SEW-FC (DimSEWisions in inch)										
Super Engg. Part No. (Ordering No)	T Tube OD	P NPT (F)	A	B	C	D	E Min.	F A/F	G A/F	H
SEW-FC-2-2N	1/8"	1/8"	1.13	0.41	0.60	0.50	0.09	9/16"	7/16"	0.87
SEW-FC-2-4N	1/8"	1/4"	1.32	0.59	0.60	0.50	0.09	3/4"	7/16"	1.06
SEW-FC-3-2N	3/16"	1/8"	1.17	0.41	0.63	0.54	0.12	9/16"	1/2"	0.91
SEW-FC-4-2N	1/4"	1/8"	1.23	0.41	0.70	0.60	0.19	9/16"	9/16"	0.94
SEW-FC-4-4N	1/4"	1/4"	1.41	0.59	0.70	0.60	0.19	3/4"	9/16"	1.12
SEW-FC-4-6N	1/4"	3/8"	1.48	0.59	0.70	0.60	0.19	7/8"	9/16"	1.19
SEW-FC-4-8N	1/4"	1/2"	1.67	0.78	0.70	0.60	0.19	1-1/16"	9/16"	1.38
SEW-FC-5-2N	5/16"	1/8"	1.26	0.41	0.73	0.64	0.25	9/16"	5/8"	0.97
SEW-FC-5-4N	5/16"	1/4"	1.45	0.59	0.73	0.64	0.25	3/4"	5/8"	1.16
SEW-FC-6-2N	3/8"	1/8"	1.29	0.41	0.76	0.66	0.28	5/8"	11/16"	1.00
SEW-FC-6-4N	3/8"	1/4"	1.48	0.59	0.76	0.66	0.28	3/4"	11/16"	1.19
SEW-FC-6-6N	3/8"	3/8"	1.54	0.59	0.76	0.66	0.28	7/8"	11/16"	1.25
SEW-FC-6-8N	3/8"	1/2"	1.73	0.78	0.76	0.66	0.28	1-1/16"	11/16"	1.44
SEW-FC-8-4N	1/2"	1/4"	1.59	0.59	0.86	0.90	0.41	13/16"	7/8"	1.19
SEW-FC-8-6N	1/2"	3/8"	1.65	0.59	0.86	0.90	0.41	7/8"	7/8"	1.25
SEW-FC-8-8N	1/2"	1/2"	1.84	0.78	0.86	0.90	0.41	1-1/16"	7/8"	1.44
SEW-FC-8-12N	1/2"	3/4"	1.90	0.81	0.86	0.90	0.41	1-5/16"	7/8"	1.50
SEW-FC-10-6N	5/8"	3/8"	1.65	0.59	0.86	0.96	0.50	15/16"	1"	1.25
SEW-FC-10-8N	5/8"	1/2"	1.84	0.78	0.86	0.96	0.50	1-1/16"	1"	1.44
SEW-FC-10-12N	5/8"	3/4"	1.90	0.81	0.86	0.96	0.50	1-5/16"	1"	1.50
SEW-FC-12-8N	3/4"	1/2"	1.84	0.78	0.86	0.96	0.62	1-1/16"	1-1/8"	1.44
SEW-FC-12-12N	3/4"	3/4"	1.90	0.81	0.86	0.96	0.62	1-5/16"	1-1/8"	1.50
SEW-FC-14-12N	7/8"	3/4"	1.96	0.81	0.86	1.02	0.72	1-5/16"	1-1/4"	1.56
SEW-FC-16-12N	1"	3/4"	2.10	0.81	1.04	1.23	0.88	1-3/8"	1-1/2"	1.62
SEW-FC-16-16N	1"	1"	2.45	1.00	1.04	1.23	0.88	1-5/8"	1-1/2"	1.97

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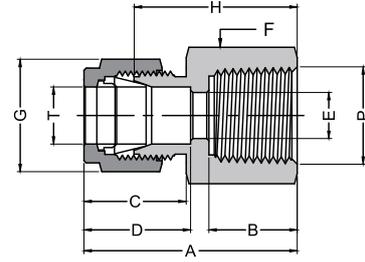
All dimensions are for reference only, and are subject to change without prior notice. Sizes and types other than those featured above are available on request.



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# FEMALE CONNECTOR SEW-FC

## NPT THREAD

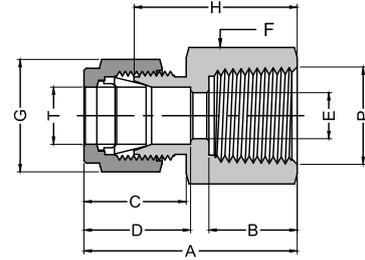


Connects Metric Tube To Male NPT Threads – SEW-FC-m (Dimensions in mm)										
Super Engg. Part No. (Ordering No)	T Tube OD	P NPT (F)	A	B	C	D	E Min.	F A/F	G A/F	H
SEW-FC-3m-2N	3	1/8"	28.7	10.4	15.3	12.9	2.4	14.0	11.0	22.1
SEW-FC-3m-4N	3	1/4"	33.5	15.0	15.3	12.9	2.4	19.0	11.0	26.9
SEW-FC-6m-2N	6	1/8"	31.3	10.4	17.7	15.3	4.8	14.0	14.0	23.9
SEW-FC-6m-4N	6	1/4"	35.8	15.0	17.7	15.3	4.8	19.0	14.0	28.4
SEW-FC-6m-6N	6	3/8"	37.6	15.0	17.7	15.3	4.8	22.0	14.0	30.2
SEW-FC-6m-8N	6	1/2"	42.5	19.8	17.7	15.3	4.8	27.0	14.0	35.1
SEW-FC-8m-4N	8	1/4"	37.0	15.0	18.6	16.2	6.3	19.0	16.0	29.5
SEW-FC-8m-6N	8	3/8"	38.5	15.0	18.6	16.2	6.3	22.0	16.0	31.0
SEW-FC-8m-8N	8	1/2"	43.3	19.8	18.6	16.2	6.3	27.0	16.0	35.8
SEW-FC-10m-4N	10	1/4"	37.8	15.0	19.5	17.2	7.9	19.0	19.0	30.2
SEW-FC-10m-6N	10	3/8"	39.4	15.0	19.5	17.2	7.9	22.0	19.0	31.8
SEW-FC-10m-8N	10	1/2"	44.2	19.8	19.5	17.2	7.9	27.0	19.0	36.6
SEW-FC-12m-4N	12	1/4"	40.3	15.0	22.0	22.8	9.5	20.6	22.0	30.2
SEW-FC-12m-6N	12	3/8"	41.9	15.0	22.0	22.8	9.5	22.0	22.0	31.8
SEW-FC-12m-8N	12	1/2"	46.7	19.8	22.0	22.8	9.5	27.0	22.0	36.6
SEW-FC-15m-8N	15	1/2"	46.7	19.8	22.0	24.4	11.9	27.0	25.0	36.6
SEW-FC-16m-8N	16	1/2"	46.9	19.8	22.0	24.4	12.7	27.0	25.0	36.8
SEW-FC-20m-8N	20	1/2"	47.9	19.8	22.0	26.0	15.9	30.0	32.0	37.8
SEW-FC-20m-12N	20	3/4"	49.7	20.6	22.0	26.0	15.9	35.0	32.0	39.6
SEW-FC-22m-12N	22	3/4"	49.7	20.6	22.0	26.0	18.3	35.0	32.0	39.6
SEW-FC-22m-16N	22	1"	57.9	25.4	22.0	26.0	18.3	41.0	32.0	47.8
SEW-FC-25m-12N	25	3/4"	53.4	20.6	26.5	31.3	21.8	35.0	38.0	41.1
SEW-FC-25m-16N	25	1"	62.3	25.4	26.5	31.3	21.8	41.0	38.0	50.0

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# FEMALE CONNECTOR SEW-FC

## ISO TAPERED THREADS



Connects Metric Tube To Male NPT Threads – SEW-FC-m (Dimensions in mm)										
Super Engg. Part No. (Ordering No)	T Tube OD	P NPT (F)	A	B	C	D	E Min.	F A/F	G A/F	H
SEW-FC-3m-2N	3	1/8"	28.7	10.4	15.3	12.9	2.4	14.0	11.0	22.1
SEW-FC-3m-4N	3	1/4"	33.5	15.0	15.3	12.9	2.4	19.0	11.0	26.9
SEW-FC-6m-2N	6	1/8"	31.3	10.4	17.7	15.3	4.8	14.0	14.0	23.9
SEW-FC-6m-4N	6	1/4"	35.8	15.0	17.7	15.3	4.8	19.0	14.0	28.4
SEW-FC-6m-6N	6	3/8"	37.6	15.0	17.7	15.3	4.8	22.0	14.0	30.2
SEW-FC-6m-8N	6	1/2"	42.5	19.8	17.7	15.3	4.8	27.0	14.0	35.1
SEW-FC-8m-4N	8	1/4"	37.0	15.0	18.6	16.2	6.3	19.0	16.0	29.5
SEW-FC-8m-6N	8	3/8"	38.5	15.0	18.6	16.2	6.3	22.0	16.0	31.0
SEW-FC-8m-8N	8	1/2"	43.3	19.8	18.6	16.2	6.3	27.0	16.0	35.8
SEW-FC-10m-4N	10	1/4"	37.8	15.0	19.5	17.2	7.9	19.0	19.0	30.2
SEW-FC-10m-6N	10	3/8"	39.4	15.0	19.5	17.2	7.9	22.0	19.0	31.8
SEW-FC-10m-8N	10	1/2"	44.2	19.8	19.5	17.2	7.9	27.0	19.0	36.6
SEW-FC-12m-4N	12	1/4"	40.3	15.0	22.0	22.8	9.5	20.6	22.0	30.2
SEW-FC-12m-6N	12	3/8"	41.9	15.0	22.0	22.8	9.5	22.0	22.0	31.8
SEW-FC-12m-8N	12	1/2"	46.7	19.8	22.0	22.8	9.5	27.0	22.0	36.6
SEW-FC-15m-8N	15	1/2"	46.7	19.8	22.0	24.4	11.9	27.0	25.0	36.6
SEW-FC-16m-8N	16	1/2"	46.9	19.8	22.0	24.4	12.7	27.0	25.0	36.8
SEW-FC-20m-8N	20	1/2"	47.9	19.8	22.0	26.0	15.9	30.0	32.0	37.8
SEW-FC-20m-12N	20	3/4"	49.7	20.6	22.0	26.0	15.9	35.0	32.0	39.6
SEW-FC-22m-12N	22	3/4"	49.7	20.6	22.0	26.0	18.3	35.0	32.0	39.6
SEW-FC-22m-16N	22	1"	57.9	25.4	22.0	26.0	18.3	41.0	32.0	47.8
SEW-FC-25m-12N	25	3/4"	53.4	20.6	26.5	31.3	21.8	35.0	38.0	41.1
SEW-FC-25m-16N	25	1"	62.3	25.4	26.5	31.3	21.8	41.0	38.0	50.0

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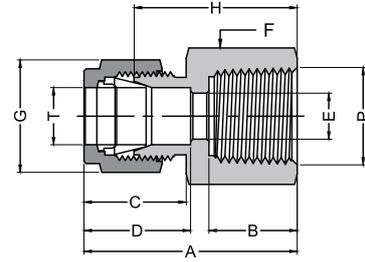
All dimensions are for reference only, and are subject to change without prior notice. Sizes and types other than those featured above are available on request.



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# FEMALE CONNECTOR SEW-FC

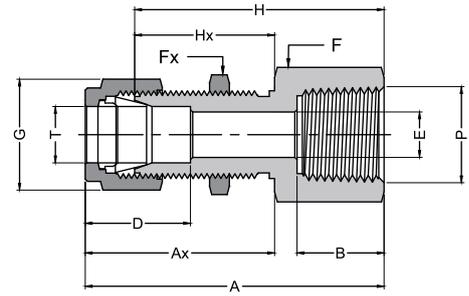
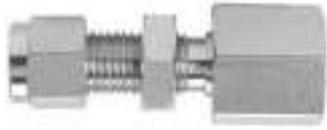
## ISO TAPERED THREAD



Connects Metric Tube To Male ISO Tapered Pipe Threads – SEW-FC-m (DimSEWisions in mm)										
Super Engg. Part No. (Ordering No)	T Tube OD	P BSPT (F)	A	B	C	D	E Min.	F A/F	G A/F	H
SEW-FC-3m-2RT	3	1/8"	28.7	10.4	15.3	12.9	2.4	14.0	11.0	22.1
SEW-FC-3m-4RT	3	1/4"	33.5	15.0	15.3	12.9	2.4	19.0	11.0	26.9
SEW-FC-6m-2RT	6	1/8"	31.3	10.4	17.7	15.3	4.8	14.0	14.0	23.9
SEW-FC-6m-4RT	6	1/4"	35.8	15.0	17.7	15.3	4.8	19.0	14.0	28.4
SEW-FC-6m-6RT	6	3/8"	37.6	15.0	17.7	15.3	4.8	22.0	14.0	30.2
SEW-FC-6m-8RT	6	1/2"	42.5	19.8	17.7	15.3	4.8	27.0	14.0	35.1
SEW-FC-8m-4RT	8	1/4"	37.0	15.0	18.6	16.2	6.3	19.0	16.0	29.5
SEW-FC-8m-6RT	8	3/8"	38.5	15.0	18.6	16.2	6.3	22.0	16.0	31.0
SEW-FC-8m-8RT	8	1/2"	43.3	19.8	18.6	16.2	6.3	27.0	16.0	35.8
SEW-FC-10m-4RT	10	1/4"	37.8	15.0	19.5	17.2	7.9	19.0	19.0	30.2
SEW-FC-10m-6RT	10	3/8"	39.4	15.0	19.5	17.2	7.9	22.0	19.0	31.8
SEW-FC-10m-8RT	10	1/2"	44.2	19.8	19.5	17.2	7.9	27.0	19.0	36.6
SEW-FC-12m-4RT	12	1/4"	40.3	15.0	22.0	22.8	9.5	20.6	22.0	30.2
SEW-FC-12m-6RT	12	3/8"	41.9	15.0	22.0	22.8	9.5	22.0	22.0	31.8
SEW-FC-12m-8RT	12	1/2"	46.7	19.8	22.0	22.8	9.5	27.0	22.0	36.6
SEW-FC-15m-8RT	15	1/2"	46.7	19.8	22.0	24.4	11.9	27.0	25.0	36.6
SEW-FC-16m-8RT	16	1/2"	46.9	19.8	22.0	24.4	12.7	27.0	25.0	36.8
SEW-FC-20m-8RT	20	1/2"	47.9	19.8	22.0	26.0	15.9	30.0	32.0	37.8
SEW-FC-20m-12RT	20	3/4"	49.7	20.6	22.0	26.0	15.9	35.0	32.0	39.6
SEW-FC-22m-12RT	22	3/4"	49.7	20.6	22.0	26.0	18.3	35.0	32.0	39.6
SEW-FC-22m-16RT	22	1"	57.9	25.4	22.0	26.0	18.3	41.0	32.0	47.8
SEW-FC-25m-12RT	25	3/4"	53.4	20.6	26.5	31.3	21.8	35.0	38.0	41.1
SEW-FC-25m-16RT	25	1"	62.3	25.4	26.5	31.3	21.8	41.0	38.0	50.0

All dimensions are for reference only, and are subject to change without prior notice. Sizes and types other than those featured above are available on request.

# BULKHEAD FEMALE CONNECTOR SEW-BFC



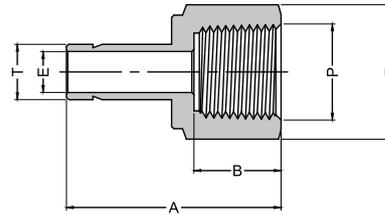
Connects Fractional Tube To Male NPT Threads – SEW-BFC (Dimensions in inch)														
Super Engg. Part No. (Ordering No)	T Tube OD	P NPT (F)	A	Ax	B	D	E Min.	F A/F	Fx A/F	G A/F	H	Hx	Panel Hole Drill Size	Max Panel Thickness
SEW-BFC-2-2N	1/8"	1/8"	1.76	1.23	0.41	0.50	0.09	9/16"	1/2"	7/16"	1.50	0.97	21/64"	0.50
SEW-BFC-3-2N	3/16"	1/8"	1.79	1.26	0.41	0.54	0.12	9/16"	9/16"	1/2"	1.53	1.00	25/64"	0.50
SEW-BFC-4-2N	1/4"	1/8"	1.85	1.32	0.41	0.60	0.19	5/8"	5/8"	9/16"	1.56	1.03	29/64"	0.40
SEW-BFC-4-4N	1/4"	1/4"	2.04	1.32	0.59	0.60	0.19	3/4"	5/8"	9/16"	1.75	1.03	29/64"	0.40
SEW-BFC-5-2N	5/16"	1/8"	1.96	1.42	0.41	0.64	0.25	11/16"	11/16"	5/8"	1.66	1.12	33/64"	0.44
SEW-BFC-6-4N	3/8"	1/4"	2.17	1.44	0.59	0.66	0.28	3/4"	3/4"	11/16"	1.88	1.15	37/64"	0.44
SEW-BFC-8-6N	1/2"	3/8"	2.43	1.65	0.59	0.90	0.41	15/16"	15/16"	7/8"	2.03	1.25	49/64"	0.50
SEW-BFC-8-8N	1/2"	1/2"	2.62	1.65	0.78	0.90	0.41	1-1/16"	15/16"	7/8"	2.22	1.25	49/64"	0.50
SEW-BFC-10-8N	5/8"	1/2"	2.66	1.68	0.78	0.96	0.50	1-1/16"	1-1/16"	1"	2.25	1.28	57/64"	0.50
SEW-BFC-12-12N	3/4"	3/4"	2.90	1.87	0.81	0.96	0.62	1-3/8"	1-3/16"	1-1/8"	2.50	1.47	1-1/64"	0.66
SEW-BFC-14-12N	7/8"	3/4"	3.18	2.09	0.81	1.02	0.72	1-3/8"	1-3/8"	1-1/4"	2.78	1.69	1-9/64"	0.66
SEW-BFC-16-16N	1"	1"	3.68	2.27	1.00	1.23	0.88	1-5/8"	1-5/8"	1-1/2"	3.19	1.78	1-21/64"	0.75

Connects Metric Tube To Male NPT Threads – SEW-BFC-m (Dimensions in mm)														
Super Engg. Part No. (Ordering No)	T Tube OD	P NPT (F)	A	Ax	B	D	E Min.	F A/F	Fx A/F	G A/F	H	Hx	Panel Hole Drill Size	Max Panel Thickness
SEW-BFC-6m-2N	6	1/8"	47.2	33.7	10.4	15.3	4.8	16.0	16.0	14.0	39.7	26.2	11.5	10.2
SEW-BFC-6m-4N	6	1/4"	51.8	33.7	15.0	15.3	4.8	19.0	16.0	14.0	44.5	26.2	11.5	10.2
SEW-BFC-8m-2N	8	1/8"	49.6	36.1	10.4	16.2	6.3	17.0	17.0	16.0	42.1	28.5	13.1	11.2
SEW-BFC-10m-4N	10	1/4"	55.2	37.0	15.0	17.2	7.1	19.0	19.0	19.0	47.6	29.4	16.3	11.2
SEW-BFC-12m-6N	12	3/8"	61.8	41.9	15.0	22.8	9.5	24.0	24.0	22.0	50.8	31.8	19.5	12.7
SEW-BFC-12m-8N	12	1/2"	66.5	41.9	19.8	22.8	9.5	27.0	24.0	22.0	56.3	31.8	19.5	12.7

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# FEMALE ADAPTER SEW-FA

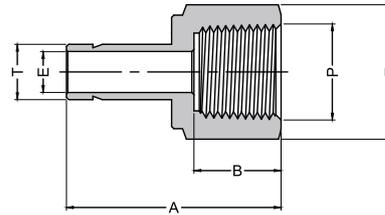


Connects Fractional Port to Male NPT Threads – SEW-FA (Dimensions in inch)						
Super Engg. Part No. (Ordering No)	T Tube OD	P Pipe Size NPT (F)	A	B	E	F
SEW-FA-2-2N	1/8"	1/8"	1.24	0.41	0.08	9/16"
SEW-FA-2-4N	1/8"	1/4"	1.39	0.59	0.08	3/4"
SEW-FA-3-4N	3/16"	1/4"	1.41	0.59	0.12	3/4"
SEW-FA-4-2N	1/4"	1/8"	1.30	0.41	0.17	9/16"
SEW-FA-4-4N	1/4"	1/4"	1.46	0.59	0.17	3/4"
SEW-FA-4-6N	1/4"	3/8"	1.55	0.59	0.17	7/8"
SEW-FA-4-8N	1/4"	1/2"	1.79	0.78	0.17	1-1/16"
SEW-FA-5-4N	5/16"	1/4"	1.48	0.59	0.22	3/4"
SEW-FA-6-2N	3/8"	1/8"	1.35	0.41	0.27	9/16"
SEW-FA-6-4N	3/8"	1/4"	1.50	0.59	0.27	3/4"
SEW-FA-6-6N	3/8"	3/8"	1.59	0.59	0.27	7/8"
SEW-FA-6-8N	3/8"	1/2"	1.84	0.78	0.27	1-1/16"
SEW-FA-8-4N	1/2"	1/4"	1.71	0.59	0.34	3/4"
SEW-FA-8-6N	1/2"	3/8"	1.79	0.59	0.37	7/8"
SEW-FA-8-8N	1/2"	1/2"	2.05	0.78	0.37	1-1/16"
SEW-FA-10-8N	5/8"	1/2"	2.09	0.78	0.47	1-1/16"
SEW-FA-12-8N	3/4"	1/2"	2.08	0.78	0.58	1-1/16"
SEW-FA-12-12N	3/4"	3/4"	2.16	0.81	0.58	1-5/16"
SEW-FA-12-16N	3/4"	1"	2.30	1.00	0.58	1-5/8"
SEW-FA-16-12N	1"	3/4"	2.39	0.81	0.80	1-5/16"
SEW-FA-16-16N	1"	1"	2.53	1.00	0.80	1-5/8"

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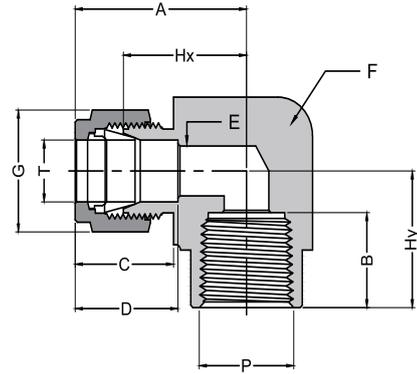
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**FEMALE ADAPTER SEW-FA**



Connects Metric Port to Male NPT Threads – SEW-FA-m (DimSEWisions in mm)						
Super Engg. Part No. (Ordering No)	T Tube OD	Pipe Size P NPT (F)	A	B	E	F
SEW-FA-3m-4N	3	1/4"	31.7	15.0	2.0	19.0
SEW-FA-6m-2N	6	1/8"	33.0	10.4	4.1	14.0
SEW-FA-6m-4N	6	1/4"	37.1	15.0	4.1	19.0
SEW-FA-8m-4N	8	1/4"	37.6	15.0	5.6	19.0
SEW-FA-10m-4N	10	1/4"	38.1	15.0	6.9	19.0
SEW-FA-10m-6N	10	3/8"	40.1	15.0	6.9	22.0
SEW-FA-10m-8N	10	1/2"	46.5	19.8	6.9	27.0
SEW-FA-12m-4N	12	1/4"	43.7	15.0	8.8	19.0
SEW-FA-12m-8N	12	1/2"	52.3	19.8	8.8	27.0
SEW-FA-16m-8N	16	1/2"	47.7	19.8	9.1	27.0
SEW-FA-25m-12N	25	3/4"	51.2	20.6	19.8	35.0
SEW-FA-25m-16N	25	1"	66.5	25.4	19.8	41.0

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# FEMALE ELBOW SEW-FE



Connects Fractional Tube To Male NPT Threads – SEW-FE (DimSEW'sions in inch)											
Super Engg. Part No. (Ordering No)	T Tube OD	P NPT (F)	A	B	C	D	E Min.	F A/F	G A/F	Hx	Hy
SEW-FE-2-2N	1/8"	1/8"	0.97	0.41	0.60	0.50	0.09	9/16"	7/16"	0.71	0.75
SEW-FE-2-4N	1/8"	1/4"	1.08	0.59	0.60	0.50	0.09	3/4"	7/16"	0.82	0.88
SEW-FE-3-2N	3/16"	1/8"	1.00	0.41	0.63	0.54	0.12	9/16"	1/2"	0.74	0.75
SEW-FE-4-2N	1/4"	1/8"	1.06	0.41	0.70	0.60	0.19	9/16"	9/16"	0.77	0.75
SEW-FE-4-4N	1/4"	1/4"	1.17	0.59	0.70	0.60	0.19	3/4"	9/16"	0.88	0.88
SEW-FE-4-6N	1/4"	3/8"	1.25	0.59	0.70	0.60	0.19	7/8"	9/16"	0.96	0.88
SEW-FE-4-8N	1/4"	1/2"	1.36	0.78	0.70	0.60	0.19	1-1/16"	9/16"	1.07	1.12
SEW-FE-5-2N	5/16"	1/8"	1.13	0.41	0.73	0.64	0.25	9/16"	5/8"	0.84	0.75
SEW-FE-5-4N	5/16"	1/4"	1.20	0.59	0.73	0.64	0.25	3/4"	5/8"	0.91	0.88
SEW-FE-6-2N	3/8"	1/8"	1.20	0.41	0.76	0.66	0.28	5/8"	11/16"	0.91	0.75
SEW-FE-6-4N	3/8"	1/4"	1.23	0.59	0.76	0.66	0.28	3/4"	11/16"	0.94	0.88
SEW-FE-6-6N	3/8"	3/8"	1.31	0.59	0.76	0.66	0.28	7/8"	11/16"	1.02	0.88
SEW-FE-6-8N	3/8"	1/2"	1.42	0.78	0.76	0.66	0.28	1-1/16"	11/16"	1.13	1.12
SEW-FE-8-4N	1/2"	1/4"	1.42	0.59	0.86	0.90	0.41	13/16"	7/8"	1.02	0.88
SEW-FE-8-6N	1/2"	3/8"	1.42	0.59	0.86	0.90	0.41	7/8"	7/8"	1.02	0.88
SEW-FE-8-8N	1/2"	1/2"	1.53	0.78	0.86	0.90	0.41	1-1/16"	7/8"	1.13	1.12
SEW-FE-10-6N	5/8"	3/8"	1.50	0.59	0.86	0.96	0.50	15/16"	1"	1.10	0.88
SEW-FE-10-8N	5/8"	1/2"	1.57	0.78	0.86	0.96	0.50	1-1/16"	1"	1.17	1.12
SEW-FE-12-8N	3/4"	1/2"	1.57	0.78	0.86	0.96	0.62	1-1/16"	1-1/8"	1.17	1.12
SEW-FE-12-12N	3/4"	3/4"	1.76	0.81	0.86	0.96	0.62	1-3/8"	1-1/8"	1.36	1.25
SEW-FE-14-12N	7/8"	3/4"	1.76	0.81	0.86	1.02	0.72	1-3/8"	1-1/4"	1.36	1.25
SEW-FE-16-12N	1"	3/4"	1.93	0.81	1.04	1.23	0.88	1-3/8"	1-1/2"	1.45	1.25
SEW-FE-16-16N	1"	1"	2.11	1.00	1.04	1.23	0.88	1-5/8"	1-1/2"	1.63	1.50

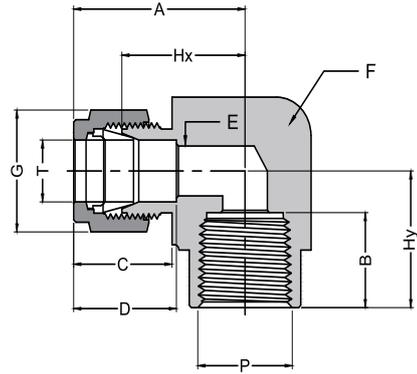
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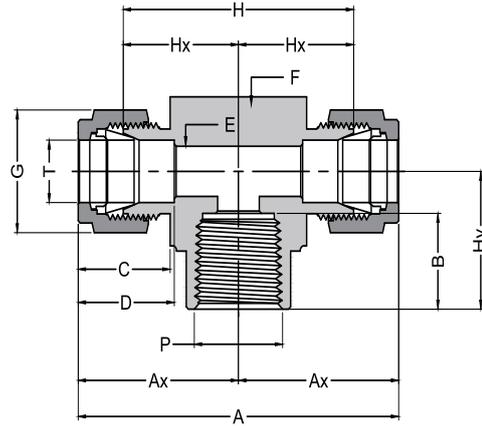
# FEMALE ELBOW SEW-FE



Connects Metric Tube To Male NPT Threads – SEW-FE-m (DimSEWsions in mm)											
Super Engg. Part No. (Ordering No)	T Tube OD	P NPT (F)	A	B	C	D	E Min.	F A/F	G A/F	Hx	Hy
SEW-FE-6m-2N	6	1/8"	27.0	10.4	17.7	15.3	4.8	14.0	14.0	19.6	19.0
SEW-FE-6m-4N	6	1/4"	29.8	15.0	17.7	15.3	4.8	19.0	14.0	22.4	22.4
SEW-FE-6m-6N	6	3/8"	31.7	15.0	17.7	15.3	4.8	22.0	14.0	24.4	22.4
SEW-FE-6m-8N	6	1/2"	34.6	19.8	17.7	15.3	4.8	27.0	14.0	27.2	28.4
SEW-FE-8m-4N	8	1/4"	30.6	15.0	18.6	16.2	6.3	19.0	16.0	23.1	22.4
SEW-FE-8m-8N	8	1/2"	35.2	19.8	18.6	16.2	6.3	27.0	16.0	28.0	28.4
SEW-FE-10m-4N	10	1/4"	33.5	15.0	19.5	17.2	7.9	19.0	19.0	25.9	22.4
SEW-FE-10m-6N	10	3/8"	33.5	15.0	19.5	17.2	7.9	22.0	19.0	25.9	22.4
SEW-FE-10m-8N	10	1/2"	36.1	19.8	19.5	17.2	7.9	27.0	19.0	28.7	28.4
SEW-FE-12m-4N	12	1/4"	36.0	15.0	22.0	22.8	9.5	20.6	22.0	25.9	22.4
SEW-FE-12m-6N	12	3/8"	36.0	15.0	22.0	22.8	9.5	22.0	22.0	25.9	22.4
SEW-FE-12m-8N	12	1/2"	38.8	19.8	22.0	22.8	9.5	27.0	22.0	28.7	28.4
SEW-FE-16m8N	16	1/2"	39.5	19.8	22.0	24.4	12.7	27.0	25.0	29.7	28.4

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# FEMALE BRANCH TEE SEW-FBT



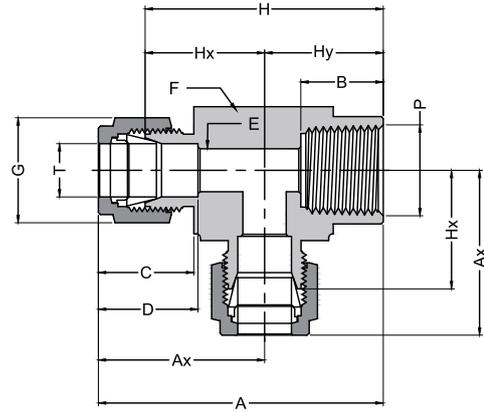
Connects Fractional Tube To Male NPT Threads – SEW-FBT (DimSEWsions in inch)													
Super Engg. Part No. (Ordering No)	T Tube OD	P NPT (F)	A	Ax	B	C	D	E Min.	F A/F	G A/F	H	Hx	Hy
SEW-FBT-2-2N	1/8"	1/8"	1.94	0.97	0.41	0.60	0.50	0.09	9/16"	7/16"	1.42	0.71	0.75
SEW-FBT-4-2N	1/4"	1/8"	2.12	1.06	0.41	0.70	0.60	0.19	9/16"	9/16"	1.54	0.77	0.75
SEW-FBT-4-4N	1/4"	1/4"	2.34	1.17	0.59	0.70	0.60	0.19	3/4"	9/16"	1.76	0.88	0.88
SEW-FBT-6-4N	3/8"	1/4"	2.46	1.23	0.59	0.76	0.66	0.28	3/4"	11/16"	1.88	0.94	0.88
SEW-FBT-8-6N	1/2"	3/8"	2.84	1.42	0.59	0.86	0.90	0.41	7/8"	7/8"	2.04	1.02	0.88
SEW-FBT-8-8N	1/2"	1/2"	3.06	1.53	0.78	0.86	0.90	0.41	1-1/16"	7/8"	2.26	1.13	1.12
SEW-FBT-12-12N	3/4"	3/4"	3.52	1.76	0.81	0.86	0.96	0.62	1-3/8"	1-1/8"	2.72	1.36	1.25
SEW-FBT-16-12N	1"	3/4"	3.86	1.93	0.81	1.04	1.23	0.88	1-3/8"	1-1/2"	2.90	1.45	1.25
SEW-FBT-16-16N	1"	1"	4.22	2.11	1.00	1.04	1.23	0.88	1-5/8"	1-1/2"	3.26	1.63	1.50

Connects Metric Tube To Male NPT Threads – SEW-FBT-m (DimSEWsions in mm)													
Super Engg. Part No. (Ordering No)	T Tube OD	P NPT (F)	A	Ax	B	C	D	E Min.	F A/F	G A/F	H	Hx	Hy
SEW-FBT-6m-2N	6	1/8"	54.0	27.0	10.4	17.7	15.3	4.8	14.0	14.0	39.2	19.6	19.0
SEW-FBT-6m-4N	6	1/4"	59.6	29.8	15.0	17.7	15.3	4.8	19.0	14.0	44.8	22.4	22.4
SEW-FBT-8m-2N	8	1/8"	59.8	29.9	10.4	18.6	16.2	6.3	14.0	16.0	44.8	22.4	19.0
SEW-FBT-8m-4N	8	1/4"	61.2	30.6	15.0	18.6	16.2	6.3	19.0	16.0	46.2	23.1	22.4
SEW-FBT-10m-4N	10	1/4"	67.0	33.5	15.0	19.5	17.2	7.9	19.0	19.0	51.8	25.9	22.4
SEW-FBT-12m-4N	12	1/4"	72.0	36.0	15.0	22.0	22.8	9.5	20.6	22.0	51.8	25.9	22.4
SEW-FBT-12m-6N	12	3/8"	72.0	36.0	15.0	22.0	22.8	9.5	22.0	22.0	51.8	25.9	22.4
SEW-FBT-12m-8N	12	1/2"	77.6	38.8	19.8	22.0	22.8	9.5	27.0	22.0	57.4	28.7	28.4
SEW-FBT-16m-8N	16	1/2"	79.0	39.5	19.8	22.0	24.4	12.7	27.0	25.0	59.4	29.7	28.4

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# FEMALE RUN TEE SEW-FRT

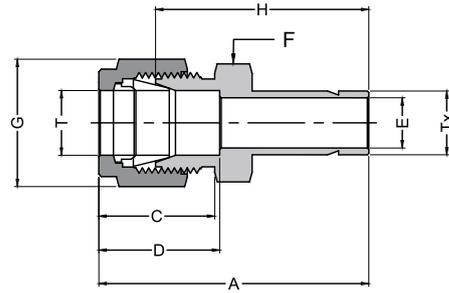
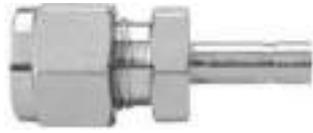


Connects Fractional Tube To Male NPT Threads – SEW-FRT (DimSEWsions in inch)													
Super Engg. Part No. (Ordering No)	T Tube OD	P NPT (F)	A	Ax	B	C	D	E Min.	F A/F	G A/F	H	Hx	Hy
SEW-FRT-2-2N	1/8"	1/8"	1.72	0.97	0.41	0.60	0.50	0.09	9/16"	7/16"	1.46	0.71	0.75
SEW-FRT-4-2N	1/4"	1/8"	1.81	1.06	0.41	0.70	0.60	0.19	9/16"	9/16"	1.52	0.77	0.75
SEW-FRT-4-4N	1/4"	1/4"	2.05	1.17	0.59	0.70	0.60	0.19	3/4"	9/16"	1.76	0.88	0.88
SEW-FRT-6-4N	3/8"	1/4"	2.11	1.23	0.59	0.76	0.66	0.28	3/4"	11/16"	1.82	0.94	0.88
SEW-FRT-8-6N	1/2"	3/8"	2.30	1.42	0.59	0.86	0.90	0.41	7/8"	7/8"	1.90	1.02	0.88
SEW-FRT-8-8N	1/2"	1/2"	2.65	1.53	0.78	0.86	0.90	0.41	1-1/16"	7/8"	2.25	1.13	1.12
SEW-FRT-12-12N	3/4"	3/4"	3.01	1.76	0.81	0.86	0.96	0.62	1-3/8"	1-1/8"	2.61	1.36	1.25
SEW-FRT-16-12N	1"	3/4"	3.18	1.93	0.81	1.04	1.23	0.88	1-3/8"	1-1/2"	2.70	1.45	1.25
SEW-FRT-16-16N	1"	1"	3.61	2.11	1.00	1.04	1.23	0.88	1-5/8"	1-1/2"	3.13	1.63	1.50

Connects Metric Tube To Male NPT Threads – SEW-FRT-m (DimSEWsions in mm)													
Super Engg. Part No. (Ordering No)	T Tube OD	P NPT (F)	A	Ax	B	C	D	E Min.	F A/F	G A/F	H	Hx	Hy
SEW-FRT-6m-2N	6	1/8"	46.0	27.0	10.4	17.7	15.3	4.8	14.0	14.0	38.6	19.6	19.0
SEW-FRT-6m-4N	6	1/4"	52.2	29.8	15.0	17.7	15.3	4.8	19.0	14.0	44.8	22.4	22.4
SEW-FRT-8m-2N	8	1/8"	48.9	29.9	10.4	18.6	16.2	6.3	14.0	16.0	41.4	22.4	19.0
SEW-FRT-8m-4N	8	1/4"	53.0	30.6	15.0	18.6	16.2	6.3	19.0	16.0	45.5	23.1	22.4
SEW-FRT-10m-4N	10	1/4"	55.9	33.5	15.0	19.5	17.2	7.9	19.0	19.0	48.3	25.9	22.4
SEW-FRT-12m-4N	12	1/4"	58.4	36.0	15.0	22.0	22.8	9.5	20.6	22.0	48.3	25.9	22.4
SEW-FRT-12m-6N	12	3/8"	58.4	36.0	15.0	22.0	22.8	9.5	22.0	22.0	48.3	25.9	22.4
SEW-FRT-12m-8N	12	1/2"	67.2	38.8	19.8	22.0	22.8	9.5	27.0	22.0	57.1	28.7	28.4
SEW-FRT-16m-8N	16	1/2"	67.9	39.5	19.8	22.0	24.4	12.7	27.0	25.0	58.1	29.7	28.4

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# REDUCER SEW-R



Connects Fractional Tube To Fractional Port – SEW-R (DimSEWnsions in inch)									
Super Engg. Part No. (Ordering No)	T Tube OD	Tx Tube OD	A	C	D	E Min.	F A/F	G A/F	H
SEW-R-2-2	1/8"	1/8"	1.32	0.60	0.50	0.08	7/16"	7/16"	1.06
SEW-R-2-4	1/8"	1/4"	1.42	0.60	0.50	0.09	7/16"	7/16"	1.16
SEW-R-3-2	3/16"	1/8"	1.37	0.63	0.54	0.09	7/16"	1/2"	1.11
SEW-R-3-4	3/16"	1/4"	1.46	0.63	0.54	0.12	7/16"	1/2"	1.20
SEW-R-4-2	1/4"	1/8"	1.45	0.70	0.60	0.08	1/2"	9/16"	1.16
SEW-R-4-3	1/4"	3/16"	1.48	0.70	0.60	0.12	1/2"	9/16"	1.19
SEW-R-4-4	1/4"	1/4"	1.54	0.70	0.60	0.19	1/2"	9/16"	1.25
SEW-R-4-5	1/4"	5/16"	1.57	0.70	0.60	0.19	1/2"	9/16"	1.28
SEW-R-4-6	1/4"	3/8"	1.60	0.70	0.60	0.19	1/2"	9/16"	1.31
SEW-R-4-8	1/4"	1/2"	1.82	0.70	0.60	0.19	9/16"	9/16"	1.53
SEW-R-5-6	5/16"	3/8"	1.65	0.73	0.64	0.25	9/16"	5/8"	1.36
SEW-R-5-8	5/16"	1/2"	1.87	0.73	0.64	0.25	9/16"	5/8"	1.58
SEW-R-6-4	3/8"	1/4"	1.63	0.76	0.66	0.19	5/8"	11/16"	1.34
SEW-R-6-6	3/8"	3/8"	1.70	0.76	0.66	0.28	5/8"	11/16"	1.41
SEW-R-6-8	3/8"	1/2"	1.91	0.76	0.66	0.28	5/8"	11/16"	1.62
SEW-R-8-4	1/2"	1/4"	1.77	0.86	0.90	0.19	13/16"	7/8"	1.37
SEW-R-8-6	1/2"	3/8"	1.84	0.86	0.90	0.28	13/16"	7/8"	1.44
SEW-R-8-8	1/2"	1/2"	2.06	0.86	0.90	0.39	13/16"	7/8"	1.66
SEW-R-8-12	1/2"	3/4"	2.12	0.86	0.90	0.41	13/16"	7/8"	1.72
SEW-R-8-16	1/2"	1"	2.37	0.86	0.90	0.41	1-1/16"	7/8"	1.97
SEW-R-10-12	5/8"	3/4"	2.15	0.86	0.96	0.50	15/16"	1"	1.75
SEW-R-10-14	5/8"	7/8"	2.21	0.86	0.96	0.50	15/16"	1"	1.81
SEW-R-12-8	3/4"	1/2"	2.15	0.86	0.96	0.39	1-1/16"	1-1/8"	1.75
SEW-R-12-16	3/4"	1"	2.46	0.86	0.96	0.62	1-1/16"	1-1/8"	2.06

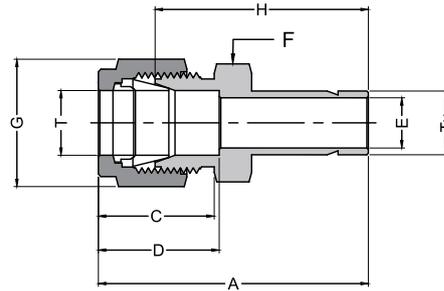
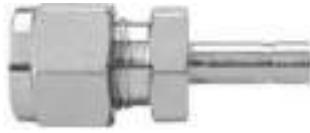
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# REDUCER SEW-R

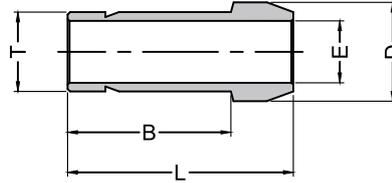
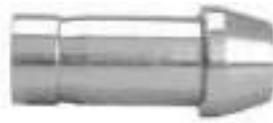


Connects Metric Tube To Metric Port – SEW-R-m (Dimensions in mm)									
Super Engg. Part No. (Ordering No)	T Tube OD	Tx Tube OD	A	C	D	E Min.	F A/F	G A/F	H
SEW-R-3m-6m	3	6	36.1	15.3	12.9	2.4	11.0	11.0	29.5
SEW-R-3m-10m	3	10	38.4	15.3	12.9	2.4	12.0	11.0	31.8
SEW-R-6m-3m	6	3	36.9	17.7	15.3	1.8	14.0	14.0	29.5
SEW-R-6m-8m	6	8	39.9	17.7	15.3	4.8	14.0	14.0	32.5
SEW-R-6m-10m	6	10	40.7	17.7	15.3	4.8	14.0	14.0	33.3
SEW-R-6m-12m	6	12	46.3	17.7	15.3	4.8	14.0	14.0	38.9
SEW-R-8m-6m	8	6	40.3	18.6	16.2	4.6	14.0	16.0	32.8
SEW-R-8m-10m	8	10	42.0	18.6	16.2	6.3	14.0	16.0	34.5
SEW-R-8m-12m	8	12	47.6	18.6	16.2	6.3	14.0	16.0	40.1
SEW-R-10m-6m	10	6	42.4	19.5	17.2	4.6	17.0	19.0	34.8
SEW-R-10m-12m	10	12	49.8	19.5	17.2	7.9	17.0	19.0	42.2
SEW-R-10m-15m	10	15	51.3	19.5	17.2	7.9	17.0	19.0	43.7
SEW-R-10m-18m	10	18	51.3	19.5	17.2	7.9	19.0	19.0	43.7
SEW-R-12m-6m	12	6	44.9	22.0	22.8	4.6	20.6	22.0	34.8
SEW-R-12m-10m	12	10	46.7	22.0	22.8	7.7	20.6	22.0	36.6
SEW-R-12m-16m	12	16	53.8	22.0	22.8	9.5	20.6	22.0	43.7
SEW-R-12m-18m	12	18	53.8	22.0	22.8	9.5	20.6	22.0	43.7
SEW-R-12m-20m	12	20	56.1	22.0	22.8	9.5	22.0	22.0	46.0
SEW-R-12m-22m	12	22	56.1	22.0	22.8	9.5	24.0	22.0	46.0
SEW-R-12m-25m	12	25	62.4	22.0	22.8	9.5	27.0	22.0	52.3
SEW-R-16m-12m	16	12	53.0	22.0	24.4	9.1	24.0	25.4	42.9
SEW-R-18m-12m	18	12	54.6	22.0	24.4	9.1	27.0	30.0	44.5
SEW-R-18m-16m	18	16	56.1	22.0	24.4	12.7	27.0	30.0	46.0
SEW-R-18m-20m	18	20	57.6	22.0	24.4	15.1	27.0	30.0	47.5
SEW-R-18m-22m	18	22	57.6	22.0	24.4	15.1	27.0	30.0	47.5
SEW-R-18m-25m	18	25	62.4	22.0	24.4	15.1	27.0	30.0	52.3
SEW-R-20m-16m	20	16	57.9	22.0	26.0	12.7	30.0	32.0	47.8
SEW-R-20m-18m	20	18	57.9	22.0	26.0	13.9	30.0	32.0	47.8
SEW-R-20m-22m	20	22	59.4	22.0	26.0	15.9	30.0	32.0	49.3
SEW-R-20m-25m	20	25	64.2	22.0	26.0	15.9	30.0	32.0	54.1
SEW-R-22m-18m	22	18	57.9	22.0	26.0	13.9	30.0	32.0	47.8
SEW-R-22m-20m	22	20	59.4	22.0	26.0	15.1	30.0	32.0	49.3
SEW-R-22m-25m	22	25	64.2	22.0	26.0	18.3	30.0	32.0	54.1
SEW-R-25m-18m	25	18	63.1	26.5	31.3	13.9	35.0	38.0	50.8
SEW-R-25m-20m	25	20	64.6	26.5	31.3	15.1	35.0	38.0	52.3

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# PORT CONNECTOR SEW-PC

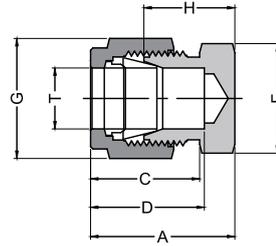


Connects Fractional Ports – SEW-PC (Dimensions in inch)					
Super Engg. Part No. (Ordering No)	T Tube OD	B	E	L	D
SEW-PC-2	1/8"	0.62	0.09	0.88	0.24
SEW-PC-4	1/4"	0.74	0.19	0.97	0.37
SEW-PC-5	5/16"	0.79	0.25	1.02	0.43
SEW-PC-6	3/8"	0.80	0.30	1.03	0.50
SEW-PC-8	1/2"	1.02	0.39	1.41	0.62
SEW-PC-12	3/4"	1.09	0.59	1.47	0.87
SEW-PC-16	1"	1.36	0.80	1.89	1.12

Connects Metric Ports – SEW-PC-m (Dimensions in mm)					
Super Engg. Part No. (Ordering No)	T Tube OD	B	E	L	D
SEW-PC-3m	3	15.7	2.1	22.2	6.0
SEW-PC-6m	6	18.7	4.4	24.6	9.0
SEW-PC-8m	8	20.0	6.2	25.9	11.0
SEW-PC-10m	10	20.2	8.2	26.1	13.1
SEW-PC-12m	12	26.0	9.1	35.8	15.0
SEW-PC-15m	15	27.6	12.7	37.4	19.0
SEW-PC-16m	16	27.6	12.7	37.4	19.0
SEW-PC-18m	18	27.6	13.9	37.4	21.0
SEW-PC-20m	20	29.2	15.1	38.9	23.0
SEW-PC-25m	25	34.5	19.8	48.0	28.0

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**CAP SEW-C**



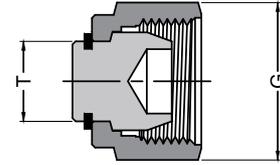
Connects Fractional Tube SEWd – SEW-C (DimSEWisions in inch)							
Super Engg. Part No. (Ordering No)	T Tube OD	A	C	D	F A/F	G A/F	H
SEW-C-2	1/8"	0.79	0.60	0.50	7/16"	7/16"	0.53
SEW-C-3	3/16"	0.84	0.63	0.54	7/16"	1/2"	0.58
SEW-C-4	1/4"	0.92	0.70	0.60	1/2"	9/16"	0.63
SEW-C-5	5/16"	0.96	0.73	0.64	9/16"	5/8"	0.67
SEW-C-6	3/8"	1.01	0.76	0.66	5/8"	11/16"	0.72
SEW-C-8	1/2"	1.15	0.86	0.90	13/16"	7/8"	0.75
SEW-C-10	5/8"	1.18	0.86	0.96	15/16"	1"	0.78
SEW-C-12	3/4"	1.24	0.86	0.96	1-1/16"	1-1/8"	0.84
SEW-C-14	7/8"	1.34	0.86	1.02	1-3/16"	1-1/4"	0.94
SEW-C-16	1"	1.51	1.04	1.23	1-3/8"	1-1/2"	1.03

Connects Metric Tube SEWd – SEW-C-m (DimSEWisions in mm)							
Super Engg. Part No. (Ordering No)	T Tube OD	A	C	D	F A/F	G A/F	H
SEW-C-3m	3	20.1	15.3	12.9	11.0	11.0	13.5
SEW-C-6m	6	23.1	17.7	15.3	14.0	14.0	15.7
SEW-C-8m	8	24.5	18.6	16.2	14.0	16.0	17.0
SEW-C-10m	10	26.6	19.5	17.2	17.0	19.0	19.0
SEW-C-12m	12	29.1	22.0	22.8	20.6	22.0	19.0
SEW-C-14m	14	29.9	22.0	24.4	24.0	25.0	19.8
SEW-C-15m	15	29.9	22.0	24.4	24.0	25.0	19.8
SEW-C-16m	16	29.9	22.0	24.4	24.0	25.4	19.8
SEW-C-18m	18	31.4	22.0	24.4	27.0	30.0	21.3
SEW-C-20m	20	34.0	22.0	26.0	30.0	32.0	23.9
SEW-C-22m	22	34.0	22.0	26.0	30.0	32.0	23.9
SEW-C-25m	25	38.5	26.5	31.3	35.0	38.0	26.2

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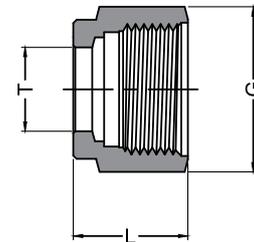
## PLUG SEW-P



Connects Fractional Port – SEW-P		
Super Engg. Part No. (Ordering No)	T Tube OD	G A/F
SEW-P-2	1/8"	7/16"
SEW-P-3	3/16"	1/2"
SEW-P-4	1/4"	9/16"
SEW-P-5	5/16"	5/8"
SEW-P-6	3/8"	11/16"
SEW-P-8	1/2"	7/8"
SEW-P-10	5/8"	1"
SEW-P-12	3/4"	1-1/8"
SEW-P-14	7/8"	1-1/4"
SEW-P-16	1"	1-1/2"

Connects Metric Port – SEW-P-m		
Super Engg. Part No. (Ordering No)	T Tube OD	G A/F
SEW-P-3m	3	11.0
SEW-P-6m	6	14.0
SEW-P-8m	8	16.0
SEW-P-10m	10	19.0
SEW-P-12m	12	22.0
SEW-P-14m	14	25.0
SEW-P-15m	15	25.0
SEW-P-16m	16	25.0
SEW-P-18m	18	30.0
SEW-P-20m	20	32.0
SEW-P-22m	22	32.0
SEW-P-25m	25	38.0

## NUT SEW-N

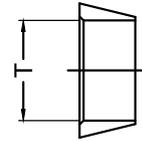


Fractional – SEW-N			
Super Engg. Part No. (Ordering No)	T Tube OD	G A/F	L
SEW-N-2	1/8"	7/16"	0.47
SEW-N-3	3/16"	1/2"	0.47
SEW-N-4	1/4"	9/16"	0.50
SEW-N-5	5/16"	5/8"	0.53
SEW-N-6	3/8"	11/16"	0.56
SEW-N-8	1/2"	7/8"	0.69
SEW-N-10	5/8"	1"	0.69
SEW-N-12	3/4"	1-1/8"	0.69
SEW-N-14	7/8"	1-1/4"	0.69
SEW-N-16	1"	1-1/2"	0.81

Metric – SEW-N-m			
Super Engg. Part No. (Ordering No)	T Tube OD	G A/F	L
SEW-N-3m	3	11.0	11.9
SEW-N-6m	6	14.0	12.7
SEW-N-8m	8	16.0	13.5
SEW-N-10m	10	19.0	15.1
SEW-N-12m	12	22.0	17.4
SEW-N-14m	14	25.0	17.4
SEW-N-15m	15	25.0	17.4
SEW-N-16m	16	25.0	17.4
SEW-N-18m	18	30.0	17.4
SEW-N-20m	20	32.0	17.4
SEW-N-22m	22	32.0	17.4
SEW-N-25m	25	38.0	20.6

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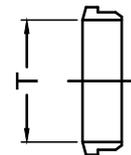
## FRONT FERRULE SEW-FF



Fractional – SEW-FF	
Super Engg. Part No. (Ordering No)	T Tube OD
SEW-FF-2	1/8"
SEW-FF-3	3/16"
SEW-FF-4	1/4"
SEW-FF-5	5/16"
SEW-FF-6	3/8"
SEW-FF-8	1/2"
SEW-FF-10	5/8"
SEW-FF-12	3/4"
SEW-FF-14	7/8"
SEW-FF-16	1"

Metric – SEW-FF-m	
Super Engg. Part No. (Ordering No)	T Tube OD
SEW-FF-3m	3
SEW-FF-6m	6
SEW-FF-8m	8
SEW-FF-10m	10
SEW-FF-12m	12
SEW-FF-14m	14
SEW-FF-15m	15
SEW-FF-16m	16
SEW-FF-18m	18
SEW-FF-20m	20
SEW-FF-22m	22
SEW-FF-25m	25

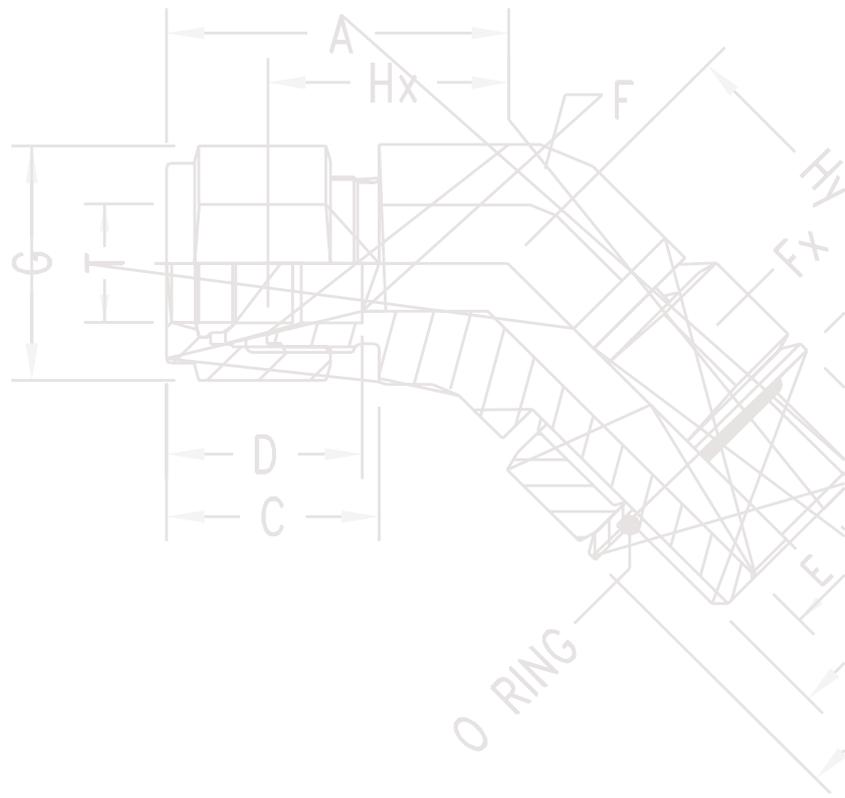
## BACK FERRULE SEW-BF



Fractional – SEW-BF	
Super Engg. Part No. (Ordering No)	T Tube OD
SEW-BF-2	1/8"
SEW-BF-3	3/16"
SEW-BF-4	1/4"
SEW-BF-5	5/16"
SEW-BF-6	3/8"
SEW-BF-8	1/2"
SEW-BF-10	5/8"
SEW-BF-12	3/4"
SEW-BF-14	7/8"
SEW-BF-16	1"

Metric – SEW-BF-m	
Super Engg. Part No. (Ordering No)	T Tube OD
SEW-BF-3m	3
SEW-BF-6m	6
SEW-BF-8m	8
SEW-BF-10m	10
SEW-BF-12m	12
SEW-BF-14m	14
SEW-BF-15m	15
SEW-BF-16m	16
SEW-BF-18m	18
SEW-BF-20m	20
SEW-BF-22m	22
SEW-BF-25m	25

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# SUPER ENGINEERING WORKS

INSTRUMENTATION FITTINGS & VALVES



Gala No 2, Munshi Compound,  
Behind A R Paradise Hotel, Kashmirira,  
Miraroad (E), Thane 401 107.



[superengineering5550@gmail.com](mailto:superengineering5550@gmail.com)



+91 7021984169