



# 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
- Precision Pipe Fittings
- Flare Fittings
- Industrial Valves

**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.



## 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 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 / 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)

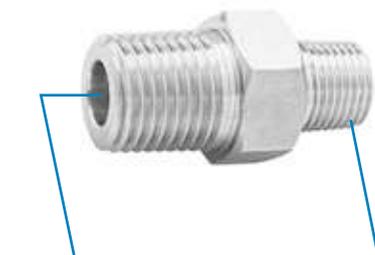
## Features

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

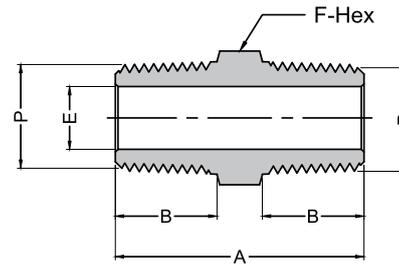


# PRECISION PIPE FITTING

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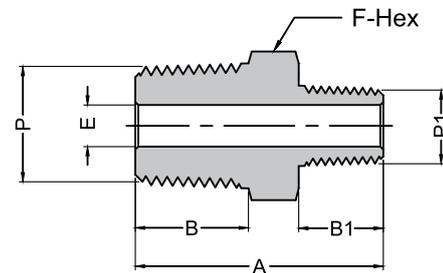
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## HEX NIPPLE SEW-HN



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"

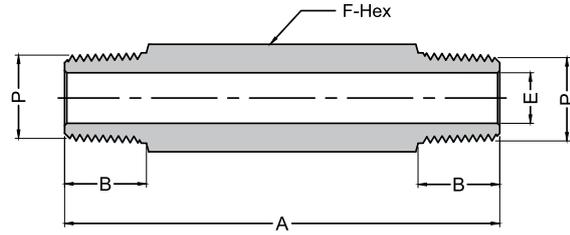
## HEX REDUCING NIPPLE SEW-HRN



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"

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.

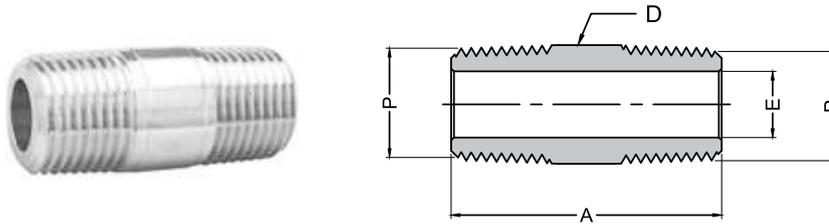
# LONG HEX NIPPLE SEW-LHN



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"

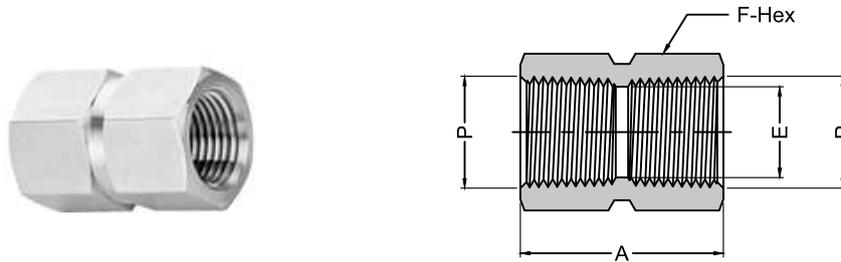
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## CLOSE NIPPLE SEW-CN



Male NPT Threads						
Super Engg. Part No.	Pipe Size 'P' NPT (Male)	Dimensions				
		A		E		Ø D
		inch	mm	inch	mm	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

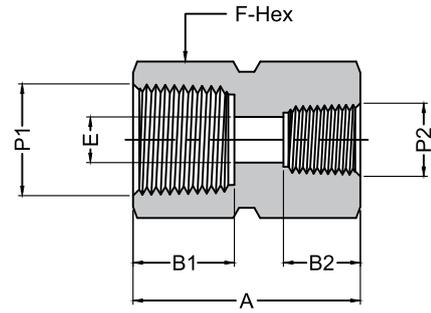
## HEX COUPLING SEW-HC



Female NPT Threads						
Super Engg. Part No.	Pipe Size 'P' NPT (F)	Dimensions				
		A		E		F - A/F
		inch	mm	inch	mm	inch
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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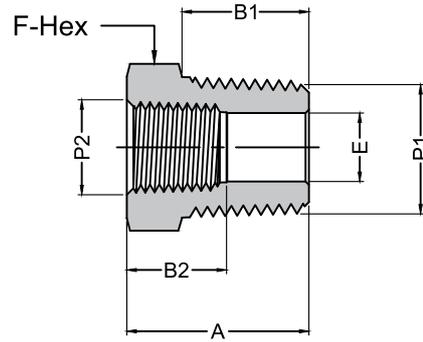
# HEX REDUCING COUPLING SEW-HRC



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"	

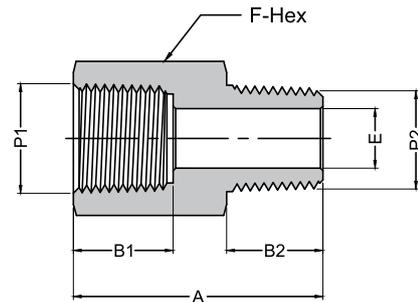
All dimensions are for reference only, and are subject to change without prior notice. Sizes and types other than those featured above are available on request.

# 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"

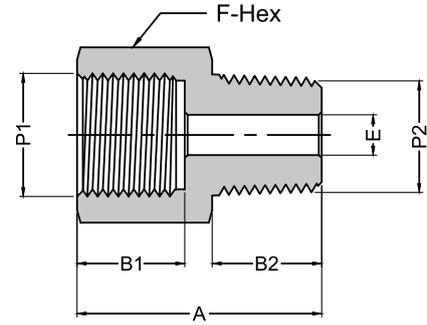
# ADAPTER (SEW-A)



Female to Male NPT Threads											
Super Engg. Part No.	Pipe Size 'P1' NPT (F)	Pipe Size 'P2' NPT (M)	Dimensions								
			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"

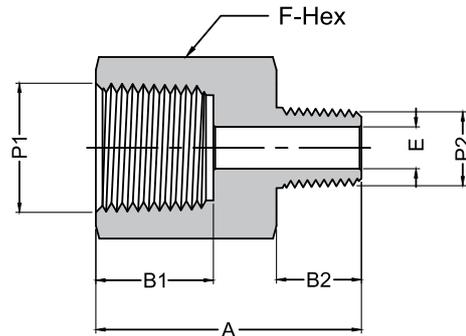
All dimensions are for reference only, and are subject to change without prior notice. Sizes and types other than those featured above are available on request.

## 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"

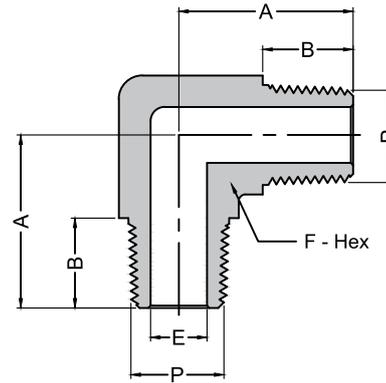
## REDUCING ADAPTER SEW-RA



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"

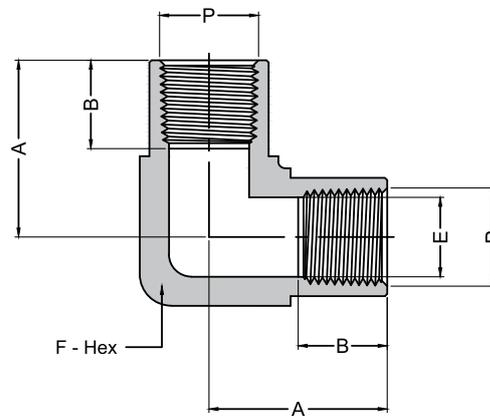
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## MALE ELBOW SEW-ME



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"

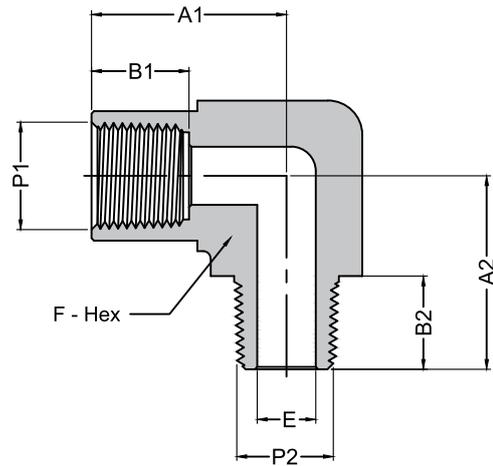
## FEMALE ELBOW SEW-FE



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"

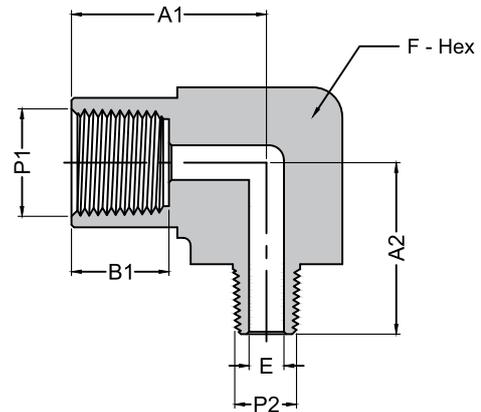
All dimensions are for reference only, and are subject to change without prior notice. Sizes and types other than those featured above are available on request.

## 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"

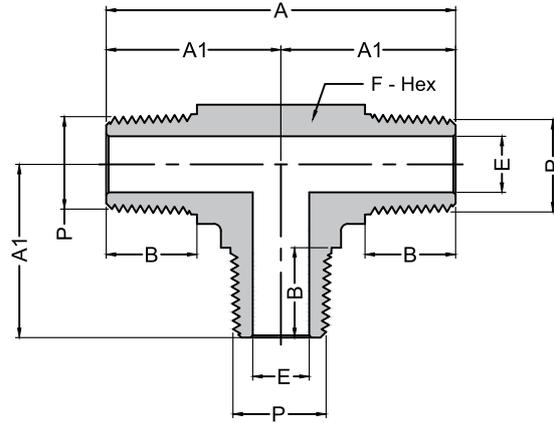
## REDUCING STREET ELBOW SEW-RSE



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"

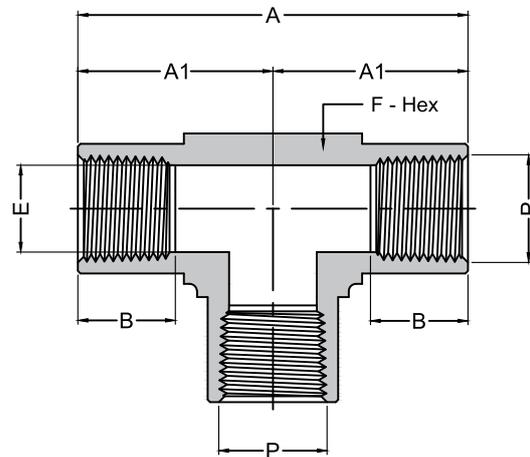
All dimensions are for reference only, and are subject to change without prior notice. Sizes and types other than those featured above are available on request.

## MALE TEE SEW-MT



Male NPT Threads										
Super Engg. Part No.	Pipe Size 'p' NPT (Male)	Dimensions								
		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"

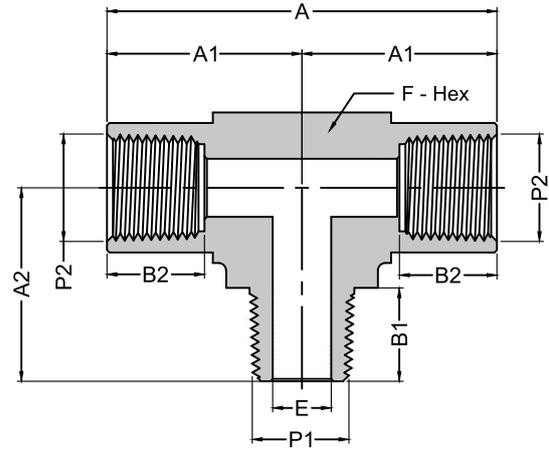
## FEMALE TEE SEW-FT



Female NPT Threads										
Super Engg. Part No.	Pipe Size 'p' NPT (F)	DimSEWsions								
		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"

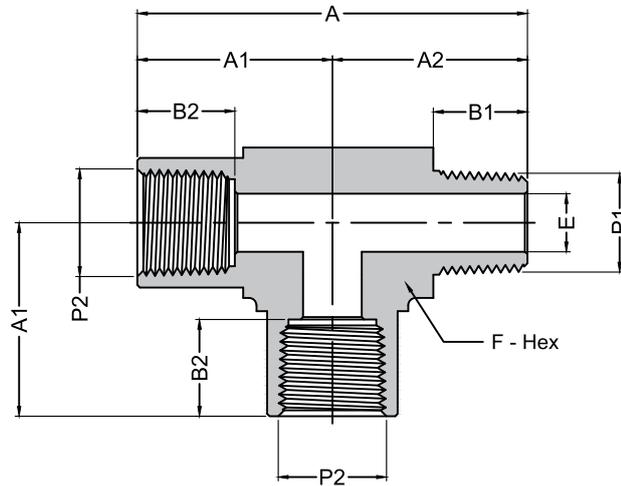
All dimensions are for reference only, and are subject to change without prior notice. Sizes and types other than those featured above are available on request.

## 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	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"

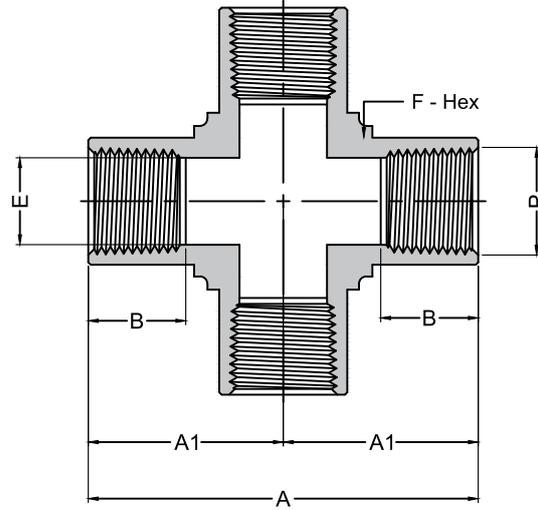
## STREET TEE SEW-ST



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	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"

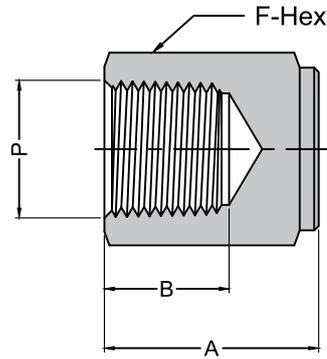
All dimensions are for reference only, and are subject to change without prior notice. Sizes and types other than those featured above are available on request.

## 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"

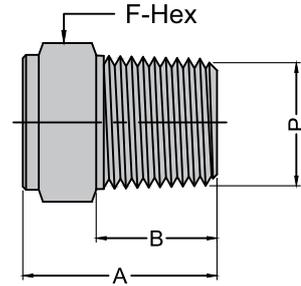
## PIPE CAP SEW-PC



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"

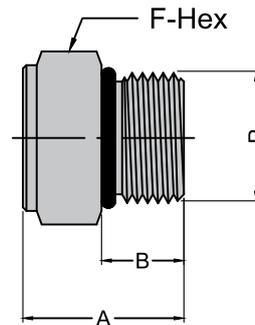
All dimensions are for reference only, and are subject to change without prior notice. Sizes and types other than those featured above are available on request.

## 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"

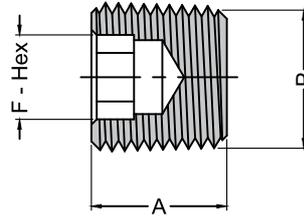
## HEX HEAD PLUG SEW-HP-SEW



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"

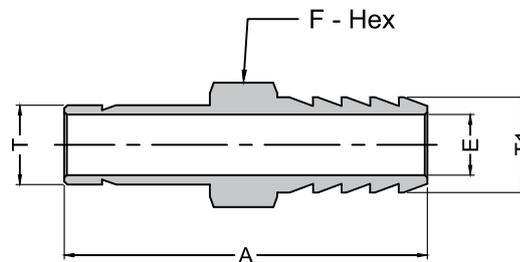
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## HOLLOW HEX PLUG SEW-HHP



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"

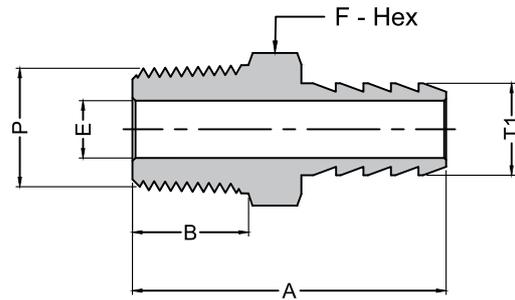
## TUBE TO HOSE CONNECTOR SEW-THC



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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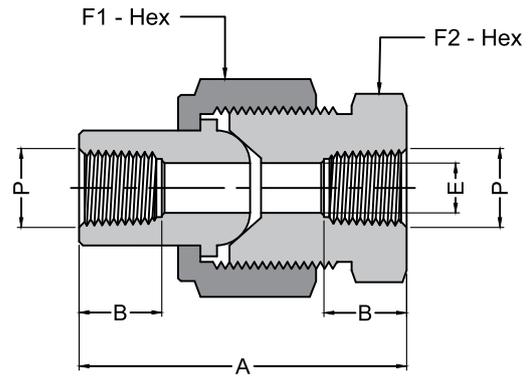
# MALE HOSE CONNECTOR SEW-MHC



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"

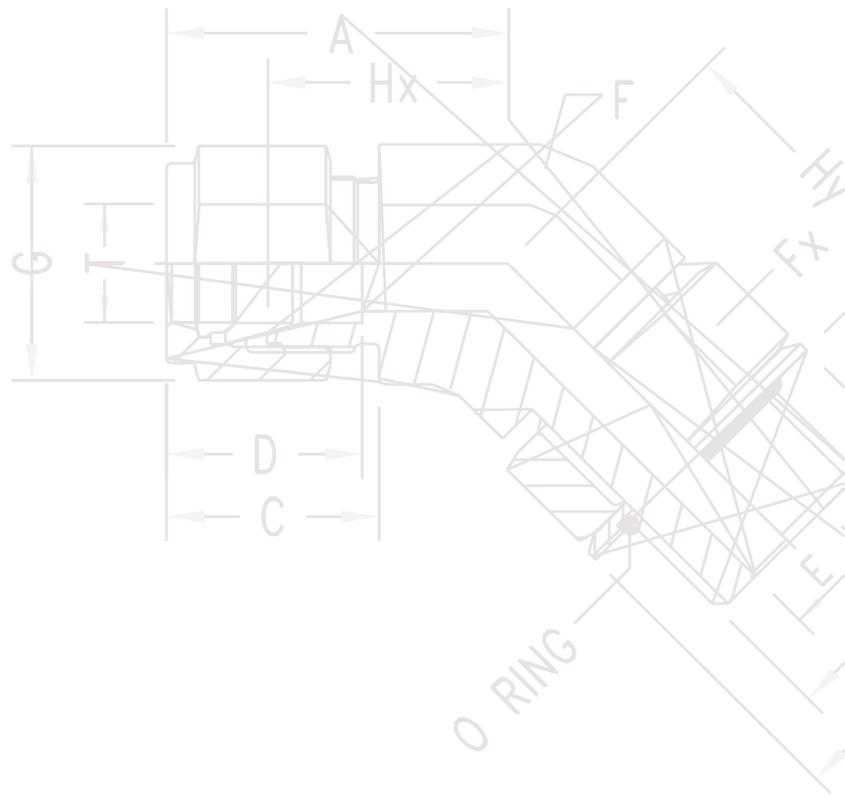
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# UNION BALL JOINT SEW-UBJ



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
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"

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# SUPER ENGINEERING WORKS

INSTRUMENTATION FITTINGS & VALVES



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