



HAM-LET PRECISION INSTRUMENT PIPE FITTINGS PIPELINE



- ✔ Extensive pipe fittings line covering all common shapes and thread types
- ✔ Available in 316/316L stainless steel, brass, and a variety of other alloys
- ✔ Size range 1/16" to 2"



GENERAL

Our pipeline connectors range is manufactured to fit typical applications in the chemical and petrochemical, oil, gas and power generation industries.

FEATURES

- Sizes range from 1/16" to 2"
- The exposed threads of the fittings are properly covered during packaging to prevent damage during delivery.
- All pipe threads meet the requirements of ASME/ANSI B1.20.1 (1983) for tapered pipe threads (NPT).
- Working pressures are calculated in accordance with Power Piping Code ANSI B 31.1, Refiner Piping Code ASME/ANSI B 31.3 and section VIII of ASME Boiler & Pressure Vessel Code.

PRESSURE RATINGS (PSI)

NPT or BSPT/ISO Size	SST 316		BRASS	
	Male	Female	Male	Female
1/16	11000	6700	5500	3300
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
1 1/4	6000	5000	3000	2500
1 1/2	5000	4600	2500	2300
2	3900	3900	1900	1900

MATERIALS

MATERIAL	Specifications	
	Barstock	Forgings
SST 316	ASTM A-276	ASTM A-182
	ASTM A-479	
BRASS	ASTM B-453	ASME B-283
	ASTM B-16	
	DIN 176.60	

INSTALLATION INSTRUCTIONS

To ensure a leak-tight seal, we recommend the use of a pipe thread sealant on all NPT threads. The most effective sealing method is PTFE tape. Tape should be used only on male tapered pipe threads.

Do not use tape on flared, coned or tube fitting ends!

Clean both male and female tapered threads and wrap tape in the direction of the male tapered thread spiral.

NOTE: Two wraps are suggested for stainless steel tapered pipe threads. Make sure tape does not overhang the first thread as the tape might shred and enter the fluid system. Cut off excess tape. The connection is now ready for proper makeup.

PIPELINE INDEX

ELBOW
100 H



136

MALE ELBOW
100 HM



136

TEE
101H



136

MALE TEE
101HM



137

CROSS
102H



137

HEX COUPLING
103H



137

UNION BALL JOINT
104H



138

HOLLOW HEX PLUGS
107H



138

HOLLOW HEX PLUGS
SAE/MS STRAIGHT
THREAD BOSS
107HOB



138

PIPE CAP
108H



139

REDUCING BUSHING
110H



139

REDUCING BUSHING
SAE/MS STRAIGHT
THREAD BOSS
110HOB



140

HEX LONG NIPPLE
113H



140

STREET ELBOW
116H



141

HEX REDUCING COUPLING
119H



141

ADAPTER NPT
120H



142

ADAPTER
NPT FEMALE TO
MALE BSPT
120HNR



142

ADAPTER
FEMALE NPT TO MALE BSPP
120HNG



143

ADAPTER
NPT TO SAE/MS STRAIGHT
THREAD BOSS
120HNOB



143

ADAPTER
FEMALE BSPT TO
MALE NPT
120HRN



143

GAUGE ADAPTER
FEMALE BSPP TO
MALE NPT
120HGN



144

PIPE PLUG NPT
121H



144

HEX HEAD PLUG
SAE/MS STRAIGHT
THREAD BOSS
121HOB



144

HEX NIPPLE
122H



145

HEX NIPPLE
MALE NPT TO
MALE BSPT
122HNR



145

HEX NIPPLE
MALE NPT TO
MALE BSPP
122HNG



146

HEX NIPPLE
NPT TO SAE/MS
STRAIGHT BOSS
122HNOB



146

CLOSE NIPPLE
122HCN



146

REDUCING NIPPLE
123H



147

BRANCH TEE
3600H



147

STREET TEE
3750H



148

MALE HOSE CONNECTOR
130HM



148

FEMALE HOSE CONNECTOR
130HF



149

TUBE TO HOSE CONNECTOR
130LT



149

ORDERING INFORMATION

EXAMPLE:

120H

Material Description

SS	Stainless Steel 316
B	Brass

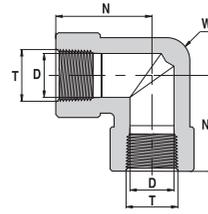
1/2

x

1/4

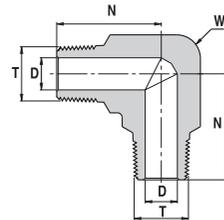
All orders should include ordering information and material description.

**100 H
ELBOW**



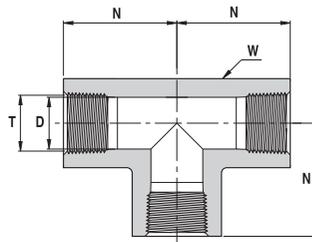
Ordering Information	T (NPT)	N		D Min. Opening		W Wrench Flat
	inch	inch	mm	inch	mm	inch
100H _ 1/8	1/8	1.04	26.4	0.31	7.8	5/8
100H _ 1/4	1/4	1.17	29.7	0.41	10.5	11/16
100H _ 3/8	3/8	1.42	36.1	0.56	14.2	15/16
100H _ 1/2	1/2	1.56	39.6	0.69	17.4	1 1/8
100H _ 3/4	3/4	1.92	48.8	0.90	22.9	1 3/8
100H _ 1	1	1.91	48.5	1.13	28.7	1 11/16

**100 HM
MALE ELBOW**



Ordering Information	T (NPT)	N		D Min. Opening		W Wrench Flat
	inch	inch	mm	inch	mm	inch
100HM _ 1/8	1/8	0.88	22.4	0.19	4.8	1/2
100HM _ 1/4	1/4	1.05	26.7	0.28	7.1	5/8
100HM _ 3/8	3/8	1.17	29.7	0.38	9.6	13/16
100HM _ 1/2	1/2	1.45	36.8	0.47	11.9	15/16

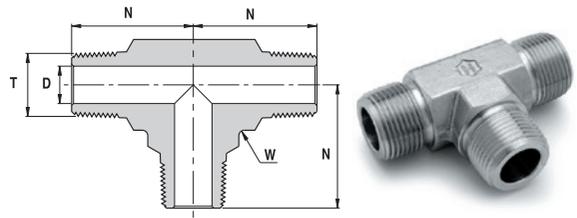
**101 H
TEE**



Ordering Information	A (NPT)	N		D Min. Opening		W Wrench Flat
	inch	inch	mm	inch	mm	inch
101H _ 1/8	1/8	1.04	26.4	0.31	7.8	5/8
101H _ 1/4	1/4	1.17	29.7	0.41	10.5	13/16
101H _ 3/8	3/8	1.42	36.1	0.56	14.2	15/16
101H _ 1/2	1/2	1.56	39.6	0.69	17.4	1 1/8
101H _ 3/4	3/4	1.92	48.8	0.90	22.9	1 3/8
101H _ 1	1	1.91	48.5	1.13	28.7	1 11/16

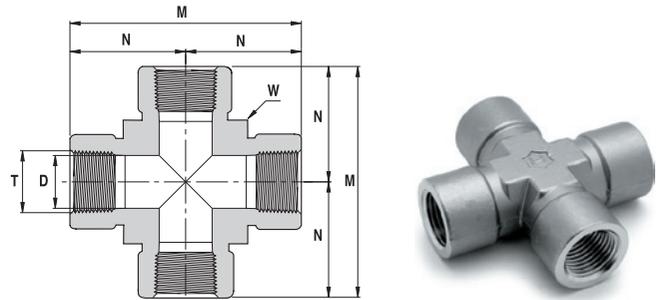
"D" Dimension is minimum opening. Dimensions are for reference only and subject to change without notice.

101 HM
MALE TEE



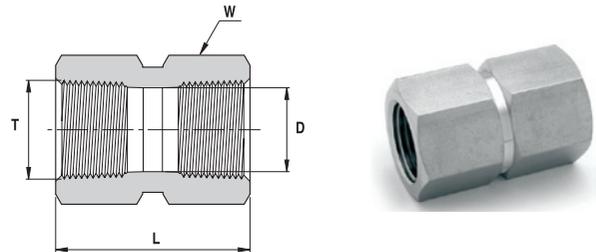
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	inch	inch	mm	inch	mm	inch
101HM_ 1/8	1/8	0.88	22.4	0.19	4.8	1/2
101HM_ 1/4	1/4	1.05	26.7	0.28	7.1	5/8
101HM_ 3/8	3/8	1.17	29.7	0.38	9.6	13/16
101HM_ 1/2	1/2	1.45	36.8	0.47	11.9	15/16

102 H
CROSS



Ordering Information	T (NPT)	N		M		D Min. Opening		W Wrench Flat
	inch	inch	mm	inch	mm	inch	mm	inch
102H_ 1/8	1/8	1.04	26.4	2.08	52.8	0.31	7.8	5/8
102H_ 1/4	1/4	1.17	29.7	2.34	59.4	0.41	10.5	11/16
102H_ 3/8	3/8	1.42	36.1	2.84	72.2	0.56	14.2	13/16
102H_ 1/2	1/2	1.56	39.6	3.12	79.2	0.69	17.4	1
102H_ 3/4	3/4	1.92	48.8	3.84	97.6	0.90	22.9	1 1/4
102H_ 1	1	1.91	48.5	3.82	97.0	1.13	28.7	1 11/16

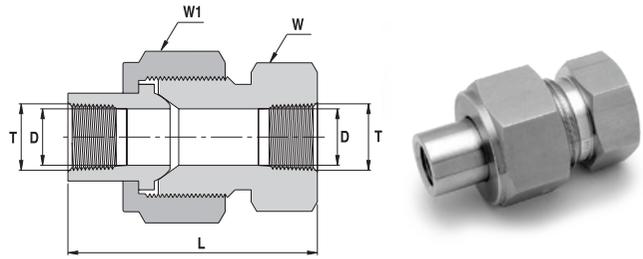
103 H
HEX COUPLING



Ordering Information	T (NPT)	L		D Min. Opening		W Hex. Flat
	inch	inch	mm	inch	mm	inch
103H_ 1/8	1/8	0.81	20.6	0.31	7.8	9/16
103H_ 1/4	1/4	1.19	30.2	0.41	10.5	3/4
103H_ 3/8	3/8	1.31	33.3	0.56	14.2	7/8
103H_ 1/2	1/2	1.56	39.6	0.69	17.4	1 1/16
103H_ 3/4	3/4	1.62	41.1	0.90	22.9	1 5/16
103H_ 1	1	2.00	50.8	1.13	28.7	1 5/8

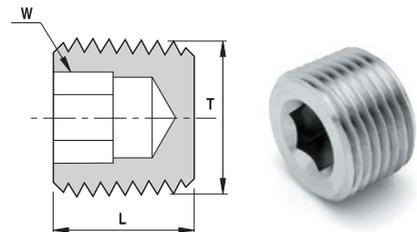
"D" Dimension is minimum opening. Dimensions are for reference only and subject to change without notice.

104 H UNION BALL JOINT



Ordering Information	T (NPT)	L		D Min. Opening		W Hex. Flat		W1 Hex. Flat
	inch	inch	mm	inch	mm	inch	mm	inch
104H_ 1/8	1/8	1.81	46.0	0.27	6.9	15/16	23.81	1 1/8
104H_ 1/4	1/4	2.34	59.4	0.36	9.1	1 3/16	30.16	1 3/8
104H_ 3/8	3/8	2.50	63.5	0.52	13.2	1 5/16	33.34	1 1/2
104H_ 1/2	1/2	2.69	68.3	0.62	15.7	1 5/8	41.28	1 3/4
104H_ 3/4	3/4	3.12	79.2	0.87	22.1	1 7/8	47.63	2
104H_ 1	1	3.56	90.4	1.03	26.2	2 3/8	60.33	2 1/2

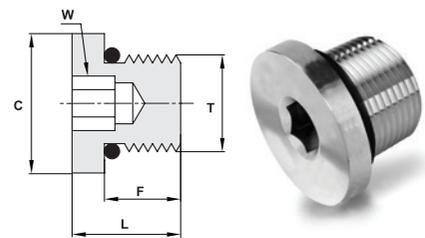
107 H HOLLOW HEX PLUGS



Ordering Information	T (NPT)	L		W Hex. Flat
	inch	inch	mm	inch
107H_ 1/8	1/8	0.29	7.4	3/16
107H_ 1/4	1/4	0.44	11.3	1/4
107H_ 3/8	3/8	0.44	11.3	5/16
107H_ 1/2	1/2	0.61	15.5	3/8

107HOB HOLLOW HEX PLUG SAE/MS STRAIGHT THREAD BOSS¹

Straight Thread UN

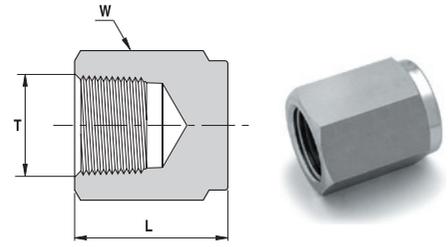


Ordering Information	T Straight Thread UN	L		F		C		W Hex. Flat	O-Ring ²
	inch	inch	mm	inch	mm	inch	mm	inch	
107HOB_ 7/16-20	7/16-20	0.45	11.4	0.36	9.1	0.56	14.2	3/16	-904
107HOB_ 1/2-20	1/2-20	0.45	11.4	0.36	9.1	0.63	15.9	3/16	-905
107HOB_ 9/16-18	9/16-18	0.48	12.2	0.39	9.9	0.69	17.5	1/4	-906
107HOB_ 3/4-16	3/4-16	0.56	14.2	0.44	11.2	0.88	22.4	5/16	-908

¹Per SAE J1926 and MS 16142.

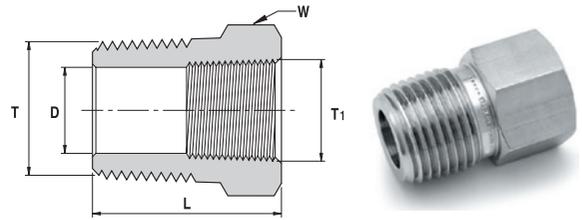
²O-rings used are Fluorocarbon FKM 90 Durometer. Other O-ring materials available on request.

108 H PIPE CAP



Ordering Information	T (NPT)	L		W Hex. Flat
	inch	inch	mm	inch
108H_ 1/8	1/8	0.75	19.1	9/16
108H_ 1/4	1/4	0.91	23.1	3/4
108H_ 3/8	3/8	1.03	26.2	7/8
108H_ 1/2	1/2	1.34	34.0	1 1/16
108H_ 3/4	3/4	1.44	36.6	1 5/16
108H_ 1	1	1.62	41.1	1 5/8

110 H REDUCING BUSHING

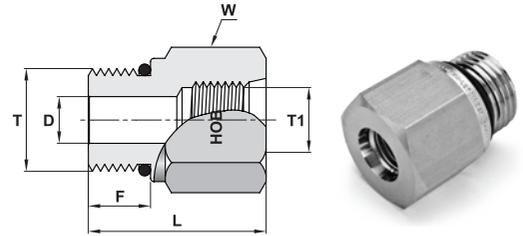


Ordering Information	T (NPT)	T1 (NPT)	L		D Min. Opening		W Hex. Flat
	inch		inch	mm	inch	mm	inch
110H_ 1/8 X 1/16	1/8	1/16	1.03	26.2	0.19	4.8	7/16
110H_ 1/4 X 1/8	1/4	1/8	1.06	26.9	0.28	7.1	9/16
110H_ 3/8 X 1/8	3/8	1/8	0.86	21.8	0.34	8.6	11/16
110H_ 3/8 X 1/4	3/8	1/4	1.19	30.2	0.38	9.6	3/4
110H_ 1/2 X 1/8	1/2	1/8	1.08	27.4	0.34	8.6	7/8
110H_ 1/2 X 1/4	1/2	1/4	1.08	27.4	0.41	10.5	7/8
110H_ 1/2 X 3/8	1/2	3/8	1.41	35.8	0.47	11.9	7/8
110H_ 3/4 X 1/4	3/4	1/4	1.08	27.4	0.45	11.4	1 1/16
110H_ 3/4 X 3/8	3/4	3/8	1.08	27.4	0.56	14.2	1 1/16
110H_ 3/4 X 1/2	3/4	1/2	1.63	41.4	0.62	15.7	1 1/16
110H_ 1 X 1/4	1	1/4	1.37	34.8	0.41	10.5	1 3/8
110H_ 1 X 3/8	1	3/8	1.37	34.8	0.56	14.2	1 3/8
110H_ 1 X 1/2	1	1/2	1.37	34.8	0.69	17.4	1 3/8
110H_ 1 X 3/4	1	3/4	1.85	47.0	0.87	22.1	1 3/8
110H_ 1 1/4 X 1/2	1 1/4	1/2	1.46	37.1	0.69	17.4	1 3/4
110H_ 1 1/4 X 3/4	1 1/4	3/4	1.47	37.3	0.90	22.9	1 3/4
110H_ 1 1/4 X 1	1 1/4	1	1.94	49.3	1.09	27.8	1 3/4
110H_ 1 1/2 X 1/2	1 1/2	1/2	1.61	40.9	0.72	18.3	2 1/8
110H_ 1 1/2 X 3/4	1 1/2	3/4	1.61	40.9	0.90	22.9	2 1/8
110H_ 1 1/2 X 1	1 1/2	1	1.61	40.9	1.17	29.7	2 1/8
110H_ 1 1/2 X 1 1/4	1 1/2	1 1/4	2.31	58.7	1.50	38.1	2 1/8
110H_ 2 X 1/2	2	1/2	1.83	46.5	0.73	18.5	2 3/4
110H_ 2 X 3/4	2	3/4	1.83	46.5	0.94	23.9	2 3/4
110H_ 2 X 1	2	1	1.83	46.5	1.17	29.7	2 3/4
110H_ 2 X 1 1/4	2	1 1/4	1.83	46.5	1.50	38.1	2 3/4
110H_ 2 X 1 1/2	2	1 1/2	1.83	46.5	1.73	43.9	2 3/4

"D" Dimension is minimum opening. Dimensions are for reference only and subject to change without notice.

110HOB

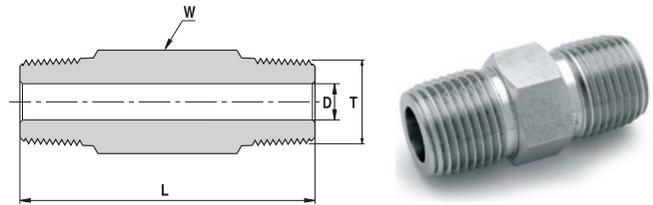
**REDUCING BUSHING SAE/MS
STRAIGHT THREAD BOSS¹**



Ordering Information	T	T1	D		L		F		W	O-Ring ²
	Straight Thread UN	Straight Thread UN	inch	mm	inch	mm	inch	mm	Hex. Flat	
110HOB_ 9/16-18 X 7/16-20	9/16-18	7/16-20	0.28	7.1	1.12	28.4	0.36	9.1	13/16	-906
110HOB_ 3/4-16 X 7/16-20	3/4-16	7/16-20	0.24	6.0	1.30	33.0	0.44	11.2	15/16	-908
110HOB_ 3/4-16 X 9/16-18	3/4-16	9/16-18	0.42	10.7	1.19	30.2	0.44	11.2	1	-908
110HOB_ 3/4-16 X 7/8-14	3/4-16	7/8-14	0.42	10.7	1.60	40.6	0.44	11.2	1 1/2	-908
110HOB_ 7/8-14 X 9/16-18	7/8-14	9/16-18	0.50	12.7	1.10	27.9	0.50	12.7	1	-910
110HOB_ 7/8-14 X 3/4-16	7/8-14	3/4-16	0.50	12.7	1.42	36.1	0.50	12.7	1 3/16	-910
110HOB_ 1 1/16-12 X 3/4-16	1 1/16-12	3/4-16	0.65	16.5	1.27	32.3	0.59	15.0	1 1/4	-912
110HOB_ 1 5/16-12 X 1 1/16-12	1 5/16-12	1 1/16-12	0.87	22.1	1.61	40.9	0.59	15.0	1 5/8	-916
110HOB_ 1 5/8-12 X 1 5/16-12	1 5/8-12	1 5/16-12	1.09	27.7	1.98	50.3	0.59	15.0	2 1/8	-920
110HOB_ 1 7/8-12 X 1 5/16-12	1 7/8-12	1 5/16-12	1.23	31.2	1.27	32.3	0.59	15.0	2 1/8	-924

113 H

HEX LONG NIPPLE



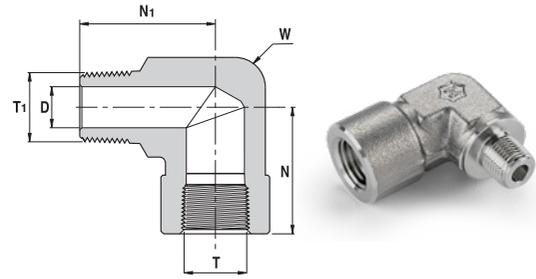
Ordering Information	T	L						D		W
	(NPT)	Available Lengths (inch)						Min. Opening	Hex. Flat	
	inch	1.50	2.00	2.50	3.00	4.00	6.00	inch	mm	inch
113H_ 1/8 X 1.5 / 2 / 2.5 / 3	1/8	□	□	□	□	-	-	0.19	4.8	7/16
113H_ 1/4 X 1.5 / 2 / 2.5 / 3 / 4	1/4	□	□	□	□	□	-	0.28	7.1	9/16
113H_ 3/8 X 1.5 / 2 / 2.5 / 3 / 4	3/8	□	□	□	□	□	-	0.38	9.6	11/16
113H_ 1/2 X 2 / 3 / 4	1/2	-	□	-	□	□	□	0.47	11.9	7/8
113H_ 3/4 X 2 / 3 / 4	3/4	-	□	-	□	□	-	0.62	15.8	1 1/16
113H_ 1 X 3 / 4	1	-	-	-	□	□	-	0.88	22.4	1 3/8

¹Per SAE J1926 and MS 16142.

²O-rings used are Fluorocarbon FKM 90 Durometer. Other O-ring materials are available on request.

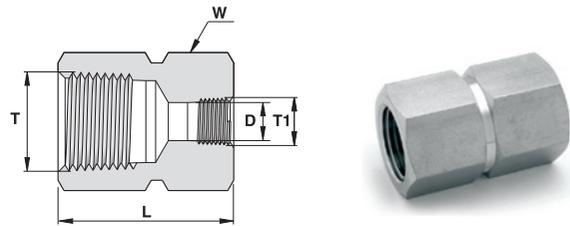
"D" Dimension is minimum opening. Dimensions are for reference only and subject to change without notice.

116 H
STREET ELBOW



Ordering Information	T (NPT)	T1 (NPT)	N		N1		D Min. Opening		W Wrench Flat
			inch	mm	inch	mm	inch	mm	inch
116H_ 1/16 X 1/16	1/16	1/16	0.86	21.8	0.88	22.4	0.12	3.10	7/16
116H_ 1/8 X 1/16	1/8	1/16	1.04	26.4	0.87	22.1	0.12	3.10	5/8
116H_ 1/8 X 1/8	1/8	1/8	1.04	26.4	0.87	22.1	0.19	4.80	5/8
116H_ 1/4 X 1/8	1/4	1/8	1.17	29.7	1.00	25.4	0.19	4.80	11/16
116H_ 1/4 X 1/4	1/4	1/4	1.17	29.7	1.17	29.7	0.28	7.10	11/16
116H_ 3/8 X 1/4	3/8	1/4	1.42	36.1	1.26	32.0	0.28	7.10	15/16
116H_ 3/8 X 3/8	3/8	3/8	1.42	36.1	1.26	32.0	0.38	9.60	15/16
116H_ 1/2 X 1/4	1/2	1/4	1.56	39.6	1.38	35.1	0.28	7.10	1 1/8
116H_ 1/2 X 3/8	1/2	3/8	1.56	39.6	1.38	35.1	0.38	9.60	1 1/8
116H_ 1/2 X 1/2	1/2	1/2	1.56	39.6	1.56	39.6	0.47	11.9	1 1/8
116H_ 3/4 X 3/4	3/4	3/4	1.92	48.8	1.67	42.4	0.62	15.8	1 3/8
116H_ 1 X 1	1	1	1.83	46.5	1.94	49.3	0.86	21.8	1 11/16

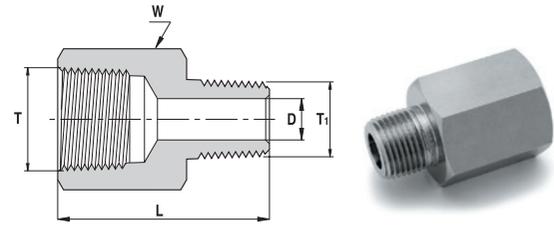
119 H
HEX REDUCING COUPLING



Ordering Information	T (NPT)	T1 (NPT)	L		D Min. Opening		W Hex. Flat
			inch	mm	inch	mm	inch
119H_ 1/4 X 1/8	1/4	1/8	1.22	31.0	0.31	7.8	3/4
119H_ 3/8 X 1/4	3/8	1/4	1.38	35.1	0.41	10.5	7/8
119H_ 1/2 X 1/8	1/2	1/8	1.56	39.6	0.31	7.8	1 1/16
119H_ 1/2 X 1/4	1/2	1/4	1.75	44.5	0.41	10.5	1 1/16
119H_ 1/2 X 3/8	1/2	3/8	1.78	45.2	0.56	14.2	1 1/16
119H_ 3/4 X 1/4	3/4	1/4	1.81	46.0	0.41	10.5	1 5/16
119H_ 3/4 X 1/2	3/4	1/2	2.06	52.3	0.69	17.4	1 5/16
119H_ 1 X 1/2	1	1/2	2.19	55.6	0.69	17.4	1 5/8
119H_ 1 X 3/4	1	3/4	2.25	57.2	0.90	22.9	1 5/8

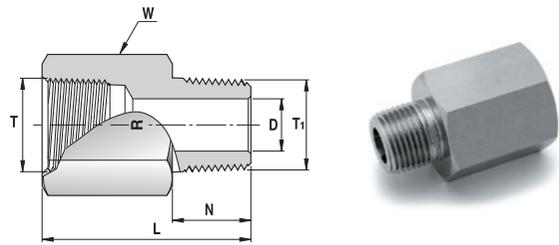
"D" Dimension is minimum opening. Dimensions are for reference only and subject to change without notice.

120 H ADAPTER NPT



Ordering Information	T (NPT)	T1 (NPT)	L		D Min. Opening		W Hex. Flat
	inch	inch	inch	mm	inch	mm	inch
120H_ 1/8 X 1/16	1/8	1/16	1.09	27.7	0.12	3.0	9/16
120H_ 1/8 X 1/8	1/8	1/8	1.10	27.9	0.19	4.8	9/16
120H_ 1/4 X 1/8	1/4	1/8	1.26	32.0	0.19	4.8	3/4
120H_ 1/4 X 1/4	1/4	1/4	1.40	35.6	0.28	7.1	3/4
120H_ 3/8 X 1/8	3/8	1/8	1.33	33.8	0.19	4.8	7/8
120H_ 3/8 X 1/4	3/8	1/4	1.50	38.1	0.28	7.1	7/8
120H_ 3/8 X 3/8	3/8	3/8	1.51	38.4	0.38	9.6	7/8
120H_ 1/2 X 1/8	1/2	1/8	1.58	40.1	0.19	4.8	1 1/16
120H_ 1/2 X 1/4	1/2	1/4	1.76	44.7	0.28	7.1	1 1/16
120H_ 1/2 X 3/8	1/2	3/8	1.75	44.5	0.37	9.5	1 1/16
120H_ 1/2 X 1/2	1/2	1/2	1.94	49.3	0.47	11.9	1 1/16
120H_ 3/4 X 1/4	3/4	1/4	1.85	47.0	0.28	7.1	1 5/16
120H_ 3/4 X 3/8	3/4	3/8	1.82	46.2	0.37	9.5	1 5/16
120H_ 3/4 X 1/2	3/4	1/2	2.02	51.3	0.47	11.9	1 5/16
120H_ 3/4 X 3/4	3/4	3/4	2.02	51.3	0.62	15.8	1 5/16
120H_ 1 X 1/4	1	1/4	1.96	49.8	0.28	7.1	1 5/8
120H_ 1 X 1/2	1	1/2	2.16	54.9	0.47	11.9	1 5/8
120H_ 1 X 3/4	1	3/4	2.17	55.1	0.62	15.7	1 5/8
120H_ 1 X 1	1	1	2.28	57.9	0.86	21.8	1 5/8

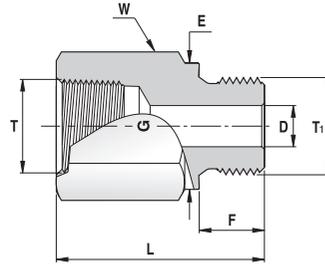
120 HNR ADAPTER NPT TO BSPT



Ordering Information	T (NPT)	T1 Male BSPT ISO 7/1, BS21 Size	L		N		D Min. Opening		W Hex. Flat
	inch		inch	mm	inch	mm	inch	mm	inch
120HNR_ 1/8	1/8	1/8-28	1.09	27.7	0.38	9.7	0.19	4.8	9/16
120HNR_ 1/4	1/4	1/4-19	1.42	36.1	0.56	14.2	0.28	7.1	3/4
120HNR_ 3/8	3/8	3/8-19	1.50	38.1	0.56	14.2	0.38	9.6	7/8
120HNR_ 1/2	1/2	1/2-14	1.94	49.3	0.75	19.0	0.47	11.9	1 1/16
120HNR_ 3/4	3/4	3/4-14	2.02	51.3	0.75	19.0	0.62	15.8	1 5/16
120HNR_ 1	1	1-11	2.30	58.4	0.94	23.9	0.88	22.4	1 5/8

"D" Dimension is minimum opening. Dimensions are for reference only and subject to change without notice.

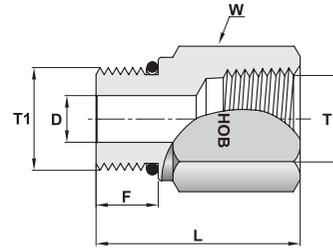
120 HNG ADAPTER NPT TO BSPP



Ordering Information	T (NPT)	T1 Male BSPP ISO 228/1, BS 2779	L		F		E Dia.		D Min. Opening		W Hex. Flat
	inch		inch	mm	inch	mm	inch	mm	inch	mm	inch
120HNG_ 1/8	1/8	1/8-28	0.99	25.1	0.28	7.1	0.54	13.8	0.16	4.1	9/16
120HNG_ 1/4	1/4	1/4-19	1.32	33.5	0.44	11.2	0.70	18.0	0.23	5.8	3/4
120HNG_ 3/8	3/8	3/8-19	1.41	35.8	0.44	11.2	0.85	21.8	0.31	7.9	7/8
120HNG_ 1/2	1/2	1/2-14	1.74	44.2	0.56	14.2	1.02	26.0	0.47	11.9	1 1/16
120HNG_ 3/4	3/4	3/4-14	1.89	48.0	0.62	15.7	1.26	32.0	0.62	15.7	1 5/16
120HNG_ 1	1	1-11	2.10	53.3	0.72	18.3	1.53	39.0	0.78	19.8	1 5/8

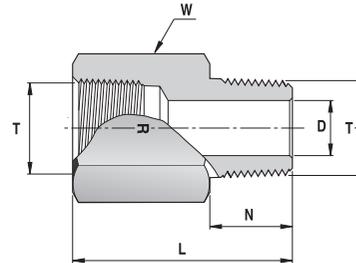
Gaskets for BSPP Parallel Threads Sealing, see page 85

120HNOB ADAPTER NPT TO SAE/MS STRAIGHT THREAD BOSS¹



Ordering Information	T (NPT)	T1 Straight Thread UN	D		L		F		W Hex. Flat	O-Ring ²
	inch		inch	mm	inch	mm	inch	mm	inch	
120HNOB_ 1/4 X 7/16-20	1/4	7/16-20	0.20	5.1	1.32	33.5	0.36	9.1	3/4	-904
120HNOB_ 3/8 X 9/16-18	3/8	9/16-18	0.28	7.1	1.39	35.3	0.39	9.9	15/16	-906
120HNOB_ 1/2 X 3/4-16	1/2	3/4-16	0.42	10.7	1.76	44.7	0.44	11.2	1 1/16	-908
120HNOB_ 3/4 X 1 1/16-12	3/4	1 1/16-12	0.66	16.7	1.99	50.5	0.59	15.0	1 3/8	-912
120HNOB_ 1 X 1 5/16-12	1	1 5/16-12	0.88	22.3	2.12	53.8	0.59	15.0	1 5/8	-916

120 HRN ADAPTER BSPT TO NPT



Ordering Information	T Female BSPT ISO 7/1, BS21	T1 (NPT)	L		N		D Min. Opening		W Hex. Flat
	inch		inch	mm	inch	mm	inch	mm	inch
120HRN_ 1/4	1/4-19	1/4	1.43	36.3	0.56	14.2	0.28	7.1	3/4
120HRN_ 3/8	3/8-19	3/8	1.51	38.4	0.56	14.2	0.38	9.6	7/8
120HRN_ 1/2	1/2-14	1/2	1.96	49.8	0.75	19.1	0.47	11.9	1 1/16

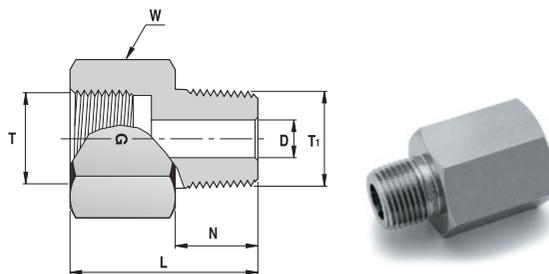
¹Per SAE J1926 and MS 16142.

²O-rings used are Fluorocarbon FKM 90 Durometer. Other O-ring materials available on request.

"D" Dimension is minimum opening. Dimensions are for reference only and subject to change without notice.

120 HGN

GAUGE ADAPTER BSPP TO NPT

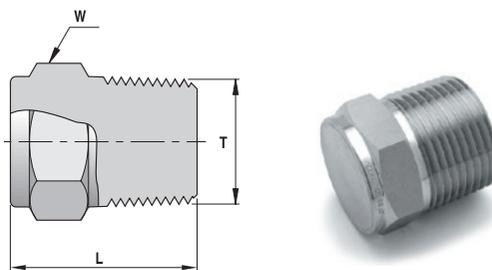


Ordering Information	T Female BSPP ISO 228/1, BS 2779 Size	T (NPT)	L		N		D Min. Opening		W Hex. Flat
		inch	inch	mm	inch	mm	inch	mm	inch
120HGN_ 1/4	1/4-19	1/4	1.19	30.2	0.56	14.2	0.22	5.6	3/4
120HGN_ 3/8	3/8-19	3/8	1.27	32.3	0.56	14.2	0.26	6.6	15/16
120HGN_ 1/2	1/2-14	1/2	1.65	41.9	0.75	19.0	0.28	7.1	1 1/16

Gaskets for BSPP Parallel Threads Sealing, see page 85

121 H

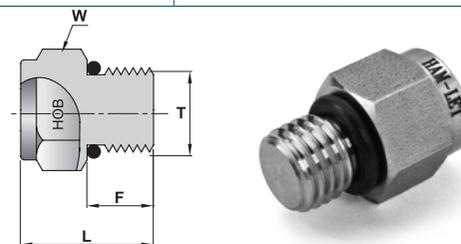
PIPE PLUG NPT



Ordering Information	T (NPT)	L		W Hex. Flat
	inch	inch	mm	inch
121H_ 1/16	1/16	0.75	19.0	5/16
121H_ 1/8	1/8	0.75	19.0	7/16
121H_ 1/4	1/4	0.96	24.4	9/16
121H_ 3/8	3/8	0.99	25.2	11/16
121H_ 1/2	1/2	1.21	30.7	7/8
121H_ 3/4	3/4	1.21	30.7	1 1/16
121H_ 1	1	1.50	38.1	1 3/8

121HOB

HEX HEAD PLUG SAE/MS STRAIGHT THREAD BOSS¹



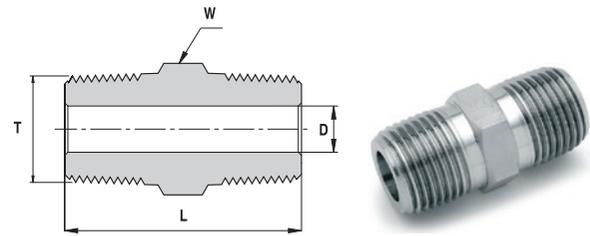
Ordering Information	T Straight Thread UN	L		F		W Hex. Flat	O-Ring ²
	inch	inch	mm	inch	mm	inch	
121HOB_ 5/16-24	5/16-24	0.70	17.8	0.30	7.6	7/16	-902
121HOB_ 7/16-20	7/16-20	0.76	19.3	0.36	9.1	9/16	-904
121HOB_ 9/16-18	9/16-18	0.82	20.8	0.39	9.9	11/16	-906
121HOB_ 3/4-16	3/4-16	0.89	22.6	0.44	11.2	7/8	-908
121HOB_ 1 1/16-12	1 1/16-12	1.12	28.4	0.59	15.0	1 1/4	-912
121HOB_ 1 5/16-12	1 5/16-12	1.18	30.0	0.59	15.0	1 1/2	-916

¹Per SAE J1926 and MS 16142.

²O-rings used are Fluorocarbon FKM 90 Durometer. Other O-ring materials available on request.

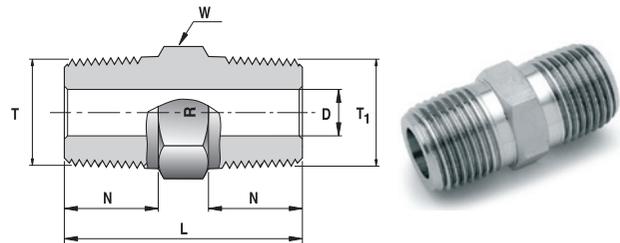
"D" Dimension is minimum opening. Dimensions are for reference only and subject to change without notice.

122 H HEX NIPPLE



Ordering Information	T (NPT)	L		D Min. Opening		W Hex. Flat
	inch	inch	mm	inch	mm	inch
122H_ 1/16	1/16	1.01	25.7	0.12	3.0	5/16
122H_ 1/8	1/8	1.01	25.7	0.19	4.8	7/16
122H_ 1/4	1/4	1.40	35.6	0.28	7.1	9/16
122H_ 3/8	3/8	1.43	36.3	0.38	9.6	11/16
122H_ 1/2	1/2	1.84	46.7	0.47	11.9	7/8
122H_ 3/4	3/4	1.84	46.7	0.62	15.8	1 1/16
122H_ 1	1	2.32	58.9	0.87	22.1	1 3/8

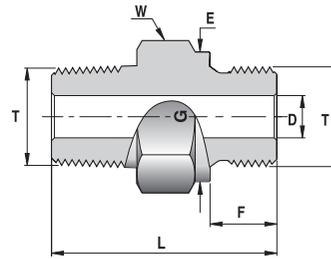
122 HNR HEX NIPPLE NPT TO BSPT



Ordering Information	T (NPT)	T1 Male BSPT ISO 7/1, BS21 Size	L		N		D Min. Opening		W Hex. Flat
	inch		inch	mm	inch	mm	inch	mm	inch
122HNR_ 1/8	1/8	1/8-28	1.01	25.6	0.38	9.7	0.19	4.8	7/16
122HNR_ 1/4	1/4	1/4-19	1.40	35.6	0.56	14.2	0.28	7.1	9/16
122HNR_ 3/8	3/8	3/8-19	1.43	36.3	0.56	14.2	0.38	9.6	11/16
122HNR_ 1/2	1/2	1/2-14	1.84	46.7	0.75	19.0	0.47	11.9	7/8
122HNR_ 3/4	3/4	3/4-14	1.84	46.7	0.75	19.0	0.62	15.8	11/16
122HNR_ 1	1	1-11	2.32	58.9	0.94	23.9	0.87	22.1	1 3/8

"D" Dimension is minimum opening. Dimensions are for reference only and subject to change without notice.

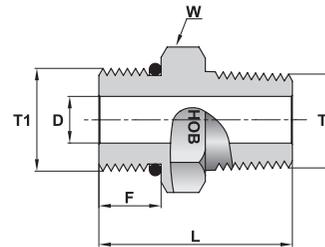
122 HNG HEX NIPPLE NPT TO BSPP



Ordering Information	T (NPT)	T1 Male BSPP ISO 228/1, BS 2779	L		F		E		D Min. Opening		W Hex. Flat
	inch		inch	mm	inch	mm	inch	mm	inch	mm	inch
122HNG _ 1/8											
122HNG _ 1/4	1/4	1/4-19	1.44	36.6	0.44	11.2	0.71	18.0	0.23	5.8	3/4
122HNG _ 3/8											
122HNG _ 1/2	1/2	1/2-14	1.78	45.2	0.56	14.2	1.02	26.0	0.47	11.9	1 1/16
122HNG _ 3/4											
122HNG _ 1	1	1-11	2.26	57.4	0.72	18.3	1.53	39.0	0.78	19.8	1 5/8

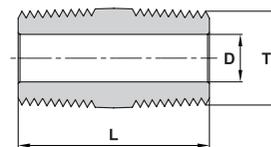
Gaskets for BSPP Parallel Threads Sealing, see page 85

122HNOB HEX NIPPLE NPT TO SAE/MS STRAIGHT THREAD BOSS¹



Ordering Information	T (NPT)	T1 Straight Thread UN	D		L		F		W Hex. Flat	O-Ring ²
	inch		inch	mm	inch	mm	inch	mm	inch	
122HNOB _ 1/4 X 7/16-20	1/4	7/16-20	0.20	5.1	1.20	30.5	0.36	9.1	9/16	-904
122HNOB _ 3/8 X 9/16-18	3/8	9/16-18	0.28	7.1	1.26	32.0	0.39	9.9	11/16	-906
122HNOB _ 1/2 X 3/4-16	1/2	3/4-16	0.42	10.7	1.53	38.9	0.44	11.2	7/8	-908
122HNOB _ 3/4 X 1 1/16-12	3/4	1 1/16-12	0.62	15.7	1.75	44.4	0.59	15.0	1 1/4	-912
122HNOB _ 1 X 1 5/16-12	1	1 5/16-12	0.88	22.4	2.00	50.8	0.59	15.0	1 1/2	-916

122HCN CLOSE NIPPLE



Ordering Information	T (NPT)	D		L	
	inch	inch	mm	inch	mm
122HCN _ 1/8	1/8	0.19	4.8	0.75	19.1
122HCN _ 1/4	1/4	0.28	7.1	1.12	28.4
122HCN _ 3/8	3/8	0.38	9.6	1.12	28.4
122HCN _ 1/2	1/2	0.47	11.9	1.50	38.1
122HCN _ 3/4	3/4	0.62	15.7	1.50	38.1
122HCN _ 1	1	0.88	22.4	1.88	47.8

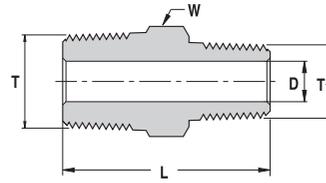
¹Per SAE J1926 and MS 16142.

²O-rings used are Fluorocarbon FKM 90 Durometer. Other O-ring materials available on request.

"D" Dimension is minimum opening. Dimensions are for reference only and subject to change without notice.

123 H

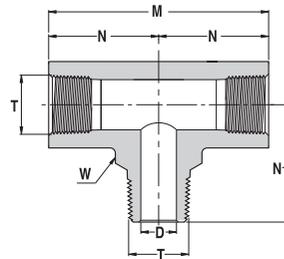
REDUCING NIPPLE



Ordering Information	T (NPT)	T1 (NPT)	L		D Min. Opening		W Hex. Flat
	inch		inch	mm	inch	mm	
123H _ 1/8 X 1/16	1/8	1/16	1.01	25.7	0.12	3.0	7/16
123H _ 1/4 X 1/8	1/4	1/8	1.22	31.0	0.19	4.8	9/16
123H _ 3/8 X 1/8	3/8	1/8	1.25	31.8	0.19	4.8	11/16
123H _ 3/8 X 1/4	3/8	1/4	1.43	36.3	0.28	7.1	11/16
123H _ 1/2 X 1/8	1/2	1/8	1.47	37.3	0.19	4.8	7/8
123H _ 1/2 X 1/4	1/2	1/4	1.65	41.9	0.28	7.1	7/8
123H _ 1/2 X 3/8	1/2	3/8	1.65	41.9	0.38	9.6	7/8
123H _ 3/4 X 1/4	3/4	1/4	1.65	41.9	0.28	7.1	1 1/16
123H _ 3/4 X 1/2	3/4	1/2	1.84	46.7	0.47	11.9	1 1/16
123H _ 1 X 1/2	1	1/2	2.13	54.1	0.47	11.9	1 3/8
123H _ 1 X 3/4	1	3/4	2.13	54.1	0.62	15.8	1 3/8

3600 H

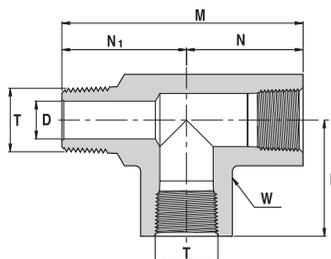
BRANCH TEE



Ordering Information	T (NPT)	M		N		N1		D		W Wrench Flat
	inch	inch	mm	inch	mm	inch	mm	inch	mm	
3600H _ 1/8	1/8	2.08	52.8	1.04	26.4	0.87	22.1	0.19	4.8	5/8
3600H _ 1/4	1/4	2.34	59.4	1.17	29.7	1.17	29.7	0.28	7.1	13/16
3600H _ 3/8	3/8	2.84	72.1	1.42	36.1	1.26	32.0	0.38	9.6	15/16
3600H _ 1/2	1/2	3.12	79.2	1.56	39.6	1.56	39.6	0.47	11.9	1 1/8

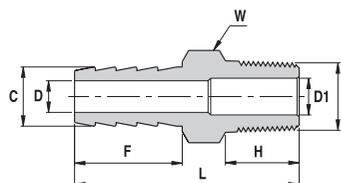
"D" Dimension is minimum opening. Dimensions are for reference only and subject to change without notice.

3750 H STREET TEE



Ordering Information	T (NPT)	M		N		N1		D Min. Opening		W Wrench Flat
	inch	inch	mm	inch	mm	inch	mm	inch	mm	inch
3750H_ 1/8	1/8	1.91	48.5	1.04	26.4	0.87	22.1	0.19	4.8	5/8
3750H_ 1/4	1/4	2.34	59.4	1.17	29.7	1.17	29.7	0.28	7.1	13/16
3750H_ 3/8	3/8	2.68	68.1	1.42	36.1	1.26	32.0	0.38	9.6	15/16
3750H_ 1/2	1/2	3.12	79.2	1.56	39.6	1.56	39.6	0.47	11.9	1 1/8

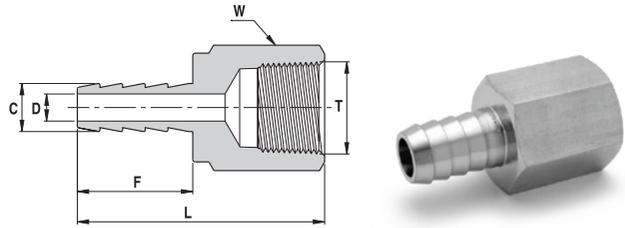
130 HM MALE TO HOSE CONNECTOR



Ordering Information	Hose I.D.	T (NPT)	C		D		D1		F		H		L		W Hex. Flat
		inch	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
130HM_ 1/8 X 1/8	1/8	1/8	0.15	3.80	0.08	2.0	0.19	4.80	0.40	10.2	0.38	9.70	1.08	27.4	7/16
130HM_ 1/8 X 1/4	1/8	1/4	0.15	3.80	0.08	2.0	0.28	7.10	0.40	10.2	0.56	14.2	1.26	32.0	9/16
130HM_ 3/16 X 1/8	3/16	1/8	0.23	5.84	0.12	3.0	0.12	3.00	0.59	15.0	0.38	9.70	1.27	32.3	7/16
130HM_ 3/16 X 1/4	3/16	1/4	0.23	5.84	0.12	3.0	0.28	7.10	0.59	15.0	0.56	14.2	1.45	36.8	9/16
130HM_ 1/4 X 1/8	1/4	1/8	0.30	7.62	0.19	4.8	0.19	4.80	0.79	20.1	0.38	9.70	1.47	37.3	7/16
130HM_ 1/4 X 1/4	1/4	1/4	0.30	7.62	0.19	4.8	0.19	4.80	0.79	20.1	0.56	14.2	1.65	41.9	9/16
130HM_ 1/4 X 3/8	1/4	3/8	0.30	7.62	0.19	4.8	0.19	4.80	0.79	20.1	0.56	14.2	1.66	42.2	11/16
130HM_ 1/4 X 1/2	1/4	1/2	0.30	7.62	0.19	4.8	0.47	11.9	0.79	20.1	0.75	19.0	1.85	47.0	7/8
130HM_ 5/16 X 1/8	5/16	1/8	0.38	9.65	0.19	4.8	0.19	4.80	0.87	22.1	0.38	9.70	1.55	39.4	7/16
130HM_ 5/16 X 1/4	5/16	1/4	0.38	9.65	0.19	4.8	0.19	4.80	0.87	22.1	0.56	14.2	1.73	43.9	9/16
130HM_ 5/16 X 3/8	5/16	3/8	0.38	9.65	0.19	4.8	0.37	9.50	0.87	22.1	0.56	14.2	1.74	44.2	11/16
130HM_ 5/16 X 1/2	5/16	1/2	0.38	9.65	0.19	4.8	0.47	11.9	0.87	22.1	0.75	19.0	1.96	49.8	7/8
130HM_ 3/8 X 1/4	3/8	1/4	0.45	11.43	0.30	7.6	0.30	7.60	0.87	22.1	0.56	14.2	1.73	43.9	9/16
130HM_ 3/8 X 3/8	3/8	3/8	0.45	11.43	0.30	7.6	0.30	7.60	0.87	22.1	0.56	14.2	1.74	44.2	11/16
130HM_ 3/8 X 1/2	3/8	1/2	0.45	11.43	0.30	7.6	0.30	7.60	0.87	22.1	0.75	19.0	1.96	49.8	7/8
130HM_ 1/2 X 1/4	1/2	1/4	0.60	15.24	0.37	9.5	0.28	7.10	0.94	23.8	0.56	14.2	1.80	45.7	11/16
130HM_ 1/2 X 3/8	1/2	3/8	0.60	15.24	0.37	9.5	0.37	9.50	0.94	23.8	0.56	14.2	1.81	46.0	11/16
130HM_ 1/2 X 1/2	1/2	1/2	0.60	15.24	0.37	9.5	0.37	9.50	0.94	23.8	0.75	19.0	2.03	51.6	7/8
130HM_ 5/8 X 1/2	5/8	1/2	0.75	19.10	0.47	11.9	0.47	11.9	0.98	24.9	0.75	19.0	2.07	52.6	1 1/16
130HM_ 5/8 X 3/4	5/8	3/4	0.75	19.10	0.50	12.7	0.63	16.0	0.98	24.9	0.75	19.0	2.07	52.6	1 1/16
130HM_ 3/4 X 1/2	3/4	1/2	0.90	22.86	0.63	16.0	0.47	11.9	1.05	26.7	0.75	19.0	2.14	54.4	1 1/16
130HM_ 3/4 X 3/4	3/4	3/4	0.90	22.86	0.63	16.0	0.63	16.0	1.05	26.7	0.75	19.0	2.14	54.4	1 1/16
130HM_ 3/4 X 1	3/4	1	0.90	22.86	0.63	16.0	0.88	22.4	1.05	26.7	0.94	23.9	2.43	61.7	1 3/8
130HM_ 1 X 3/4	1	3/4	1.2	30.48	0.88	22.4	0.63	16.0	1.19	30.2	0.75	19.0	2.38	60.5	1 3/8
130HM_ 1 X 1	1	1	1.2	30.48	0.88	22.4	0.88	22.4	1.19	30.2	0.94	23.9	2.57	65.3	1 3/8

"D" Dimension is minimum opening. Dimensions are for reference only and subject to change without notice.

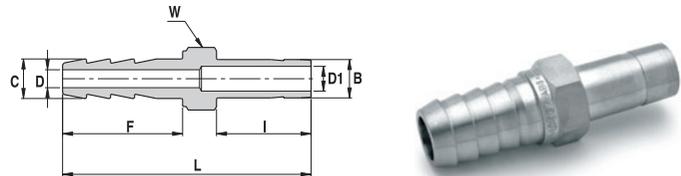
130 HF
FEMALE HOSE
CONNECTOR



Ordering Information	Hose I.D.	T (NPT)	C		D		F		L		W Hex. Flat
		inch	inch	mm	inch	mm	inch	mm	inch	mm	inch
130HF_ 1/8 X 1/8	1/8	1/8	0.15	3.80	0.08	2.00	0.40	10.2	1.11	28.2	9/16
130HF_ 1/8 X 1/4	1/8	1/4	0.15	3.80	0.08	2.00	0.40	10.2	1.26	32.0	3/4
130HF_ 3/16 X 1/8	3/16	1/8	0.23	5.84	0.12	3.00	0.59	15.0	1.29	32.8	9/16
130HF_ 3/16 X 1/4	3/16	1/4	0.23	5.84	0.12	3.00	0.59	15.0	1.44	36.6	3/4
130HF_ 1/4 X 1/8	1/4	1/8	0.30	7.62	0.19	4.80	0.79	20.1	1.47	37.3	9/16
130HF_ 1/4 X 1/4	1/4	1/4	0.30	7.62	0.19	4.80	0.79	20.1	1.64	41.7	3/4
130HF_ 1/4 X 3/8	1/4	3/8	0.30	7.62	0.19	4.80	0.79	20.1	1.71	43.4	7/8
130HF_ 5/16 X 1/4	5/16	1/4	0.38	9.65	0.19	4.80	0.87	22.1	1.73	43.9	3/4
130HF_ 5/16 X 3/8	5/16	3/8	0.38	9.65	0.19	4.80	0.87	22.1	1.82	46.2	7/8
130HF_ 3/8 X 1/4	3/8	1/4	0.45	11.43	0.30	7.60	0.87	22.1	1.69	42.9	3/4
130HF_ 3/8 X 3/8	3/8	3/8	0.45	11.43	0.30	7.60	0.87	22.1	1.78	45.2	7/8
130HF_ 3/8 X 1/2	3/8	1/2	0.45	11.43	0.30	7.60	0.87	22.1	2.03	51.6	1 1/16
130HF_ 1/2 X 1/2	1/2	1/2	0.60	15.24	0.38	9.70	0.94	23.9	2.13	54.1	1 1/16

"D" Dimension is minimum opening.

130 LT
TUBE TO HOSE
CONNECTOR



Ordering Information	Hose I.D.	B Tube O.D.	C		D		D1		F		I		L		W Hex. Flat
		inch	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
130LT_ 1/8 X 1/8	1/8	1/8	0.15	3.80	0.08	2.00	0.08	2.00	0.40	10.2	0.53	13.5	1.35	34.3	5/16
130LT_ 1/8 X 1/4	1/8	1/4	0.15	3.80	0.08	2.00	0.17	4.20	0.40	10.2	0.62	15.7	1.44	36.6	3/8
130LT_ 1/4 X 1/4	1/4	1/4	0.30	7.62	0.19	4.80	0.17	4.20	0.79	20.1	0.62	15.7	1.83	46.5	7/16
130LT_ 1/4 X 3/8	1/4	3/8	0.30	7.62	0.19	4.80	0.27	6.85	0.79	20.1	0.69	17.5	1.90	48.3	7/16
130LT_ 1/4 X 6 MM	1/4	6mm	0.30	7.62	0.19	4.80	0.16	4.00	0.79	20.1	0.62	15.7	1.86	47.2	7/16
130LT_ 5/16 X 1/4	5/16	1/4	0.37	9.40	0.19	4.80	0.17	4.20	0.87	22.1	0.62	15.7	1.91	48.5	7/16
130LT_ 3/8 X 3/8	3/8	3/8	0.45	11.43	0.30	7.60	0.27	6.85	0.87	22.1	0.69	17.5	1.98	50.3	9/16
130LT_ 3/8 X 1/2	3/8	1/2	0.45	11.43	0.30	7.60	0.37	9.40	0.87	22.1	0.91	23.1	2.20	55.9	5/8
130LT_ 1/2 X 3/8	1/2	3/8	0.60	15.24	0.38	9.70	0.27	6.85	0.94	23.9	0.69	17.5	2.05	52.1	11/16
130LT_ 1/2 X 1/2	1/2	1/2	0.60	15.24	0.38	9.70	0.37	9.40	0.94	23.9	0.91	23.1	2.27	57.7	11/16
130LT_ 3/4 X 3/4	3/4	3/4	0.90	22.86	0.63	16.0	0.59	15.0	1.05	26.7	0.97	24.6	2.44	62.0	1 1/16

"D" Dimension is minimum opening. Dimensions are for reference only and subject to change without notice.



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