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Catalog No. H - 300PF  
Sep. 2011

# Instrument Thread & Weld Fittings

for 1/8" thru 1"



**HY-LOK CORPORATION**

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# Instrument Thread Fittings

## Features

1. Precision pipe fittings for instrumentation and process control
2. Fine threads constructed to ensure leak-free & reliable systems
3. Male threads are protected with plastic cap
4. Various materials including SS316, Brass and Carbon steel
5. Many choice of connections and configurations are available

## Temperature Ratings

SS316	-325°F - 1200°F (-198°C - 648°C)
Brass	-325°F - 400°F (-198°C - 204°C)
Carbon Steel	-20°F - 350°F (-29°C - 176°C)

▶ PTFE tape applied to male threads limits the maximum temperature to + 450°F (232°C)

## Welding Information

Due to coefficients of expansion and contraction fitting material and material to be welded shall be the same.

All socket weld port have a machined taper at the end, which facilitates proper true fit, consistent assembly and alignment.

## Standard material

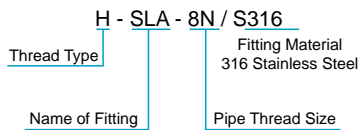
316 stainless steel is the standard material. Fitting made from forgings are manufactured from materials to ASTM A-182 and ASME SA-182 and fittings made from bar stock are manufactured from materials to ASTM A-479 and ASME SA-479.

## Pressure ratings

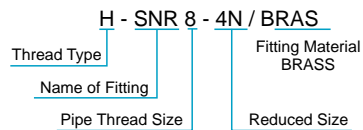
Pressure ratings for Hope weld fittings are in accordance with ANSI B31.3 and safety factor 4:1 is reflected to all working pressure listed.

## Part Number Example & How To Order

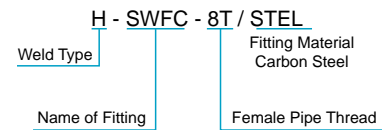
### 1) All Ports Both Ends Type



### 2) Reduced Type



### 3) Union Weld Type



## Name of Thread Fittings

H - SLA = Elbow	H - SXA = Cross	H - SNA = Hex Nipple
H - SLC = Street Elbow	H - SSA = Hex Coupling	H - SNR = Hex Reducing Nipple
H - SML = Male Elbow	H - SSR = Red. Coupling	H - SNL = Hex Long Nipple
H - STA = Tee	H - SHB = Hex Bushing	H - MFAA = Adapter
H - SRT = Run Tee	H - SCA = Pipe Cap	H - MFAC = Reducing Adapter
H - SBT = Branch Tee	H - SPB = Pipe Plug	H - SUR = Union Ball Joint
H - SMT = Male Tee	H - SBE = Close Nipple	H - P = ISO Parallel Gasket

## Name of Weld Fittings

H - SWFC = Union	H - SLD = Female Elbow
H - SWLA = Union Elbow	H - SWRM = Pipe Weld to Tube Socket Weld
H - SWTA = Union Tee	H - SWRM = Tube Weld to Tube Socket Weld
H - SWXA = Union Cross	
H - SSD = Male Connector	
H - SSB = Female Connector	
H - SLG = Male Elbow	

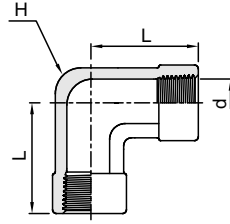
## Pipe Thread Symbol

Nom. Pipe Size	Symbol	ANSI Pipe Thread (NPT)	BSP / ISO Thread	
			Tapered(7/1)	Parallel(228/1)
1/8	2	2N	2R	2G
1/4	4	4N	4R	4G
3/8	6	6N	6R	6G
1/2	8	8N	8R	8G
3/4	12	12N	12R	12G
1	16	16N	16R	16G

## Tube & Pipe Symbol

Nom. Tube Size	Symbol	Nom. Pipe Size	Symbol
1/8	2T	1/8	2P
1/4	4T	1/4	4P
3/8	6T	3/8	6P
1/2	8T	1/2	8P
3/4	12T	3/4	12P
1	16T	1	16P

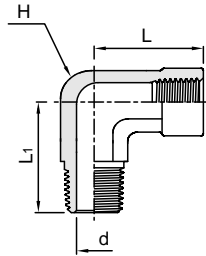
## Elbow H-SLA



### Female NPT Both Ends.

Part No.	Pipe Size	L	d	H Width Across Flat	Pressure Rating			
					SS316 Carbon Steel		Brass	
					psig	bar	psig	bar
H - SLA - 2N	1/8	24.0	8.9	12.7	6,500	447	3,200	220
H - SLA - 4N	1/4	29.0	11.7	17.5	6,600	454	3,300	227
H - SLA - 6N	3/8	34.5	15.0	20.6	5,300	365	2,600	179
H - SLA - 8N	1/2	37.0	18.7	25.4	4,900	337	2,400	165
H - SLA - 12N	3/4	46.5	23.5	31.8	4,600	316	2,300	158
H - SLA - 16N	1	48.8	29.7	42.9	4,400	303	2,200	151

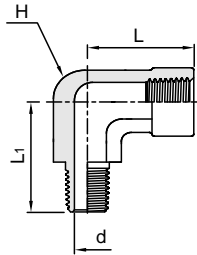
## Street Elbow H-SLC



### Female to Male NPT.

Part No.	Pipe Size	L	L <sub>1</sub>	d	H Width Across Flat	Pressure Rating			
						SS316 Carbon Steel		Brass	
						psig	bar	psig	bar
H - SLC - 2N	1/8	24.1	19.6	4.8	12.7	6,500	447	3,200	220
H - SLC - 4N	1/4	29.0	26.5	7.1	17.5	6,600	454	3,300	227
H - SLC - 6N	3/8	34.5	28.2	9.6	20.6	5,300	365	2,600	179
H - SLC - 8N	1/2	37.0	35.3	11.9	25.4	4,900	337	2,400	165
H - SLC - 12N	3/4	46.5	39.6	15.7	31.8	4,600	316	2,300	158
H - SLC - 16N	1	48.8	49.2	22.3	42.9	4,400	303	2,200	151

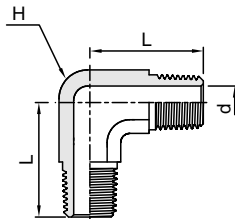
## Reducing Street Elbow H-SLCR



### Female to Male NPT.

Part No.	Pipe Size	Male Pipe Size	L	L <sub>1</sub>	d	H Width Across Flat	Pressure Rating			
							SS316 Carbon Steel		Brass	
							psig	bar	psig	bar
H - SLCR 4 - 2N	1/4	1/8	29.0	22.4	4.8	17.5	6,500	447	3,200	220
H - SLCR 6 - 4N	3/8	1/4	34.5	28.2	7.1	20.6	5,300	365	2,600	179
H - SLCR 8 - 4N	1/2	1/4	37.0	30.5	7.1	25.4	4,900	337	2,400	165
H - SLCR 8 - 6N	1/2	3/8	37.0	30.5	9.6	25.4	4,900	337	2,400	165
H - SLCR12 - 8N	3/4	1/2	46.5	39.6	11.9	31.8	4,600	316	2,300	158
H - SLCR16 - 8N	1	1/2	48.8	44.5	11.9	42.9	4,400	303	2,200	151

## Male Elbow H-SML



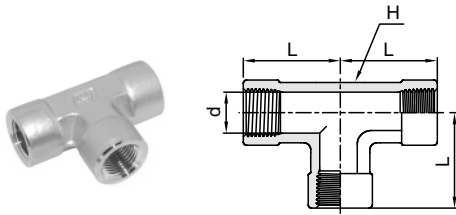
### Male NPT Both Ends.

Part No.	Pipe Size	L	d	H Width Across Flat	Pressure Rating			
					SS316 Carbon Steel		Brass	
					psig	bar	psig	bar
H - SML - 2N	1/8	19.05	4.8	12.7	10,000	689	5,000	344
H - SML - 4N	1/4	24.50	7.1	12.7	8,000	551	4,000	275
H - SML - 6N	3/8	26.90	9.6	17.5	7,800	537	3,900	268
H - SML - 8N	1/2	33.20	11.9	20.6	7,700	530	3,800	261
H - SML - 12N	3/4	35.30	15.7	25.4	7,300	502	3,600	248
H - SML - 16N	1	44.50	22.3	31.8	5,300	365	2,600	179

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# Instrument Thread Fittings

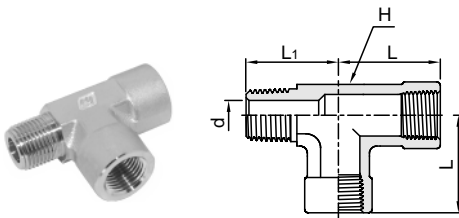
## Tee H-STA



### Female NPT all ports.

Part No.	Pipe Size	L	d	H Width Across Flat	Pressure Rating			
					SS316 Carbon Steel		Brass	
					psig	bar	psig	bar
H - STA - 2N	1/8	24.0	8.9	12.7	6,500	447	3,200	220
H - STA - 4N	1/4	29.0	11.7	17.5	6,600	454	3,300	227
H - STA - 6N	3/8	34.5	15.0	20.6	5,300	365	2,600	179
H - STA - 8N	1/2	37.0	18.7	25.4	4,900	337	2,400	165
H - STA - 12N	3/4	46.5	23.5	31.8	4,600	316	2,300	158
H - STA - 16N	1	48.8	29.7	42.9	4,400	303	2,200	151

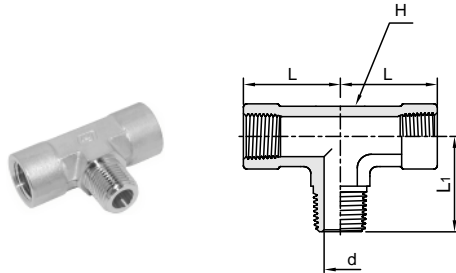
## Run Tee H-SRT



### Female to Male to Female NPT.

Part No.	Pipe Size	L	L <sub>1</sub>	d	H Width Across Flat	Pressure Rating			
						SS316 Carbon Steel		Brass	
						psig	bar	psig	bar
H - SRT - 2N	1/8	24.0	19.6	4.8	12.7	6,500	447	3,200	220
H - SRT - 4N	1/4	29.0	26.5	7.1	17.5	6,600	454	3,300	227
H - SRT - 6N	3/8	34.5	28.2	9.6	20.6	5,300	365	2,600	179
H - SRT - 8N	1/2	37.0	35.3	11.9	25.4	4,900	337	2,400	165
H - SRT - 12N	3/4	46.5	39.6	15.7	31.8	4,600	316	2,300	158
H - SRT - 16N	1	48.8	49.2	22.3	42.9	4,400	303	2,200	151

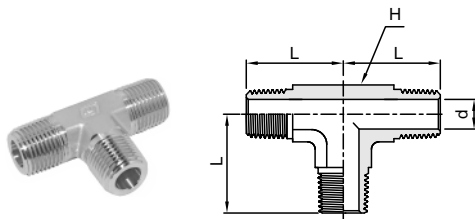
## Branch Tee H-SBT



### Female to Female to Male NPT.

Part No.	Pipe Size	L	L <sub>1</sub>	d	H Width Across Flat	Pressure Rating			
						SS316 Carbon Steel		Brass	
						psig	bar	psig	bar
H - SBT - 2N	1/8	24.0	19.6	4.8	12.7	6,500	447	3,200	220
H - SBT - 4N	1/4	29.0	26.5	7.1	17.5	6,600	454	3,300	227
H - SBT - 6N	3/8	34.5	28.2	9.6	20.6	5,300	365	2,600	179
H - SBT - 8N	1/2	37.0	35.3	11.9	25.4	4,900	337	2,400	165
H - SBT - 12N	3/4	46.5	39.6	15.7	31.8	4,600	316	2,300	158
H - SBT - 16N	1	48.8	49.2	22.3	42.9	4,400	303	2,200	151

## Male Tee H-SMT

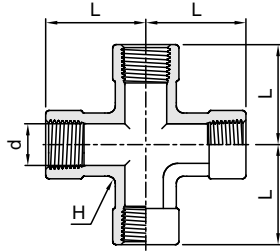


### Male NPT all ports.

Part No.	Pipe Size	L	d	H Width Across Flat	Pressure Rating			
					SS316 Carbon Steel		Brass	
					psig	bar	psig	bar
H - SMT - 2N	1/8	19.05	4.8	12.7	10,000	689	5,000	344
H - SMT - 4N	1/4	24.50	7.1	12.7	8,000	551	4,000	275
H - SMT - 6N	3/8	26.90	9.6	17.5	7,800	537	3,900	268
H - SMT - 8N	1/2	33.20	11.9	20.6	7,700	530	3,800	261
H - SMT - 12N	3/4	35.30	15.7	25.4	7,300	502	3,600	248
H - SMT - 16N	1	44.50	22.3	31.8	5,300	365	2,600	179

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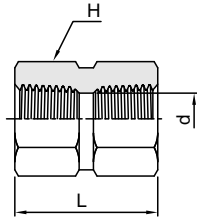
## Cross H-SXA



### Female NPT all ports.

Part No.	Pipe Size	L	d	H Width Across Flat	Pressure Rating			
					SS316 Carbon Steel		Brass	
					psig	bar	psig	bar
H - SXA - 2N	1/8	24.0	8.9	12.7	6,500	447	3,200	220
H - SXA - 4N	1/4	29.0	11.7	17.5	6,600	454	3,300	227
H - SXA - 6N	3/8	34.5	15.0	20.6	5,300	365	2,600	179
H - SXA - 8N	1/2	37.0	18.7	25.4	4,900	337	2,400	165
H - SXA - 12N	3/4	46.5	23.5	31.8	4,600	316	2,300	158
H - SXA - 16N	1	48.8	29.7	42.9	4,400	303	2,200	151

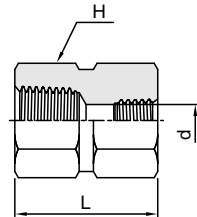
## Hex Coupling H-SSA



### Female NPT Both Ends.

Part No.	Pipe Size	L	d	H Width Across Flat	Pressure Rating			
					SS316 Carbon Steel		Brass	
					psig	bar	psig	bar
H - SSA - 2N	1/8	20.3	8.9	14.20	6,500	447	3,200	220
H - SSA - 4N	1/4	30.0	11.7	19.05	6,600	454	3,300	227
H - SSA - 6N	3/8	33.0	15.0	22.20	5,300	365	2,600	179
H - SSA - 8N	1/2	39.4	18.7	26.90	4,900	337	2,400	165
H - SSA - 12N	3/4	41.0	23.5	31.80	4,600	316	2,300	158
H - SSA - 16N	1	50.5	29.7	41.20	4,400	303	2,200	151

## Hex Reducing Coupling H-SSR



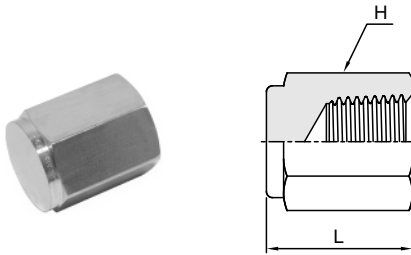
### Female NPT to Reduced Female NPT.

Part No.	Pipe Size	Reduced Pipe Size	L	d	H Width Across Flat	Pressure Rating			
						SS316 Carbon Steel		Brass	
						psig	bar	psig	bar
H - SSR 4 - 2N	1/4	1/8	31.2	8.9	19.05	6,500	447	3,200	220
H - SSR 6 - 4N	3/8	1/4	34.8	11.7	22.20	5,300	365	2,600	179
H - SSR 8 - 2N	1/2	1/8	39.4	8.9	26.90	4,900	337	2,400	165
H - SSR 8 - 4N	1/2	1/4	44.2	11.7	26.90	4,900	337	2,400	165
H - SSR 8 - 6N	1/2	3/8	45.0	15.0	26.90	4,900	337	2,400	165
H - SSR12 - 4N	3/4	1/4	45.7	11.7	31.80	4,600	316	2,300	158
H - SSR12 - 8N	3/4	1/2	52.0	18.7	31.80	4,600	316	2,300	158
H - SSR16 - 4N	1	1/4	50.8	11.7	41.20	4,600	316	2,300	158
H - SSR16 - 8N	1	1/2	55.4	18.7	41.20	4,400	303	2,200	151
H - SSR16 - 12N	1	3/4	57.0	23.5	41.20	4,400	303	2,200	151

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# Instrument Thread Fittings

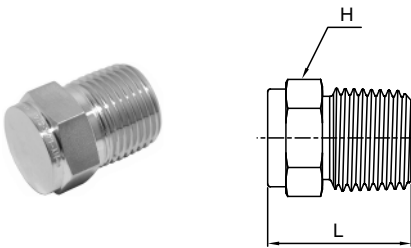
## Pipe Cap H-SCA



### Female NPT.

Part No.	Pipe Size	L	H Width Across Flat
H - SCA - 2N	1/8	19.1	14.20
H - SCA - 4N	1/4	22.9	19.05
H - SCA - 6N	3/8	26.2	22.20
H - SCA - 8N	1/2	34.0	26.90
H - SCA - 12N	3/4	36.6	31.80
H - SCA - 16N	1	41.1	41.20

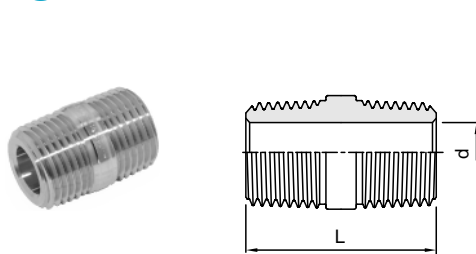
## Pipe Plug H-SPB



### Male NPT.

Part No.	Pipe Size	L	H Width Across Flat
H - SPB - 2N	1/8	19.05	11.1
H - SPB - 4N	1/4	24.40	14.2
H - SPB - 6N	3/8	25.10	17.4
H - SPB - 8N	1/2	30.70	22.2
H - SPB - 12N	3/4	30.70	26.9
H - SPB - 16N	1	38.10	34.9

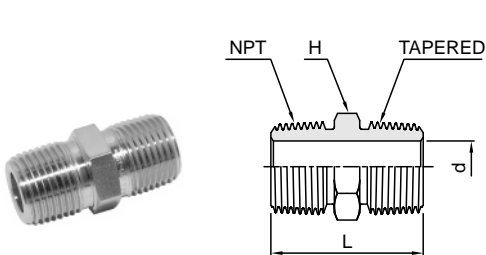
## Close Nipple H-SBE



### Male NPT Both Ends.

Part No.	Pipe Size	L	d	H Width Across Flat	Pressure Rating			
					SS316 Carbon Steel		Brass	
					psig	bar	psig	bar
H - SBE - 2N	1/8	19.05	4.8	4.8	10,000	689	5,000	344
H - SBE - 4N	1/4	28.40	7.1	7.1	8,000	551	4,000	275
H - SBE - 6N	3/8	28.40	9.6	9.6	7,800	537	3,900	268
H - SBE - 8N	1/2	31.70	11.9	11.9	7,700	530	3,800	261
H - SBE - 12N	3/4	31.70	15.7	15.7	7,300	502	3,600	248
H - SBE - 16N	1	47.80	22.3	22.4	5,300	365	2,600	179

## Hex Nipple H-SNA

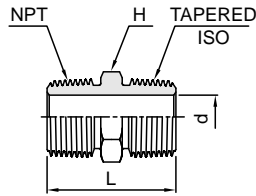


### Male NPT Both Ends.

Part No.	Pipe Size	L	d	H Width Across Flat	Pressure Rating			
					SS316 Carbon Steel		Brass	
					psig	bar	psig	bar
H - SNA - 2N	1/8	25.4	4.8	11.1	10,000	689	5,000	344
H - SNA - 4N	1/4	35.3	7.1	14.2	8,000	551	4,000	275
H - SNA - 6N	3/8	36.1	9.6	17.4	7,800	537	3,900	268
H - SNA - 8N	1/2	46.7	11.9	22.2	7,700	530	3,800	261
H - SNA - 12N	3/4	46.7	15.7	26.9	7,300	502	3,600	248
H - SNA - 16N	1	58.7	22.3	34.9	5,300	365	2,600	179

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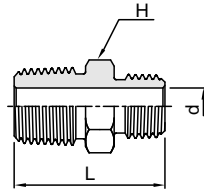
## Hex Nipple H-SNA



### Male NPT to ISO Tapered.

Part No.	NPT Thread Size	BSP/ISO Thread Size	L	d	H Width Across Flat	Pressure Rating			
						SS316 Carbon Steel		Brass	
						psig	bar	psig	bar
H - SNA - 2NR	1/8	1/8-28 7/1	24.6	4.1	11.1	10,000	689	5,000	344
H - SNA - 4NR	1/4	1/4-19 7/1	35.6	6.4	14.2	8,000	551	4,000	275
H - SNA - 6NR	3/8	3/8-19 7/1	36.3	9.7	17.4	7,800	537	3,900	268
H - SNA - 8NR	1/2	1/2-14 7/1	46.0	11.9	22.2	7,700	530	3,800	261
H - SNA - 12NR	3/4	3/4-14 7/1	46.7	15.7	26.9	7,300	502	3,600	248
H - SNA - 16NR	1	1-11 7/1	58.9	22.4	34.9	5,300	365	2,600	179

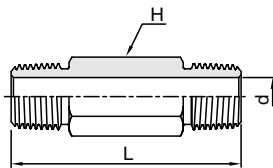
## Hex Reducing Nipple H-SNR



### Male NPT to Reduced Male NPT.

Part No.	Pipe Size	Reduced Pipe Size	L	d	H Width Across Flat	Pressure Rating			
						SS316 Carbon Steel		Brass	
						psig	bar	psig	bar
H - SNR 4 - 2N	1/4	1/8	30.7	4.8	14.2	8,000	551	4,000	275
H - SNR 6 - 2N	3/8	1/8	32.0	4.8	17.4	7,800	537	3,900	268
H - SNR 6 - 4N	3/8	1/4	36.1	7.1	17.4	7,800	537	3,900	268
H - SNR 8 - 2N	1/2	1/8	37.2	4.8	22.2	7,700	530	3,800	261
H - SNR 8 - 4N	1/2	1/4	41.7	7.1	22.2	7,700	530	3,800	261
H - SNR 8 - 6N	1/2	3/8	41.7	9.6	22.2	7,700	530	3,800	261
H - SNR 12 - 4N	3/4	1/4	41.7	7.1	26.9	7,300	502	3,600	248
H - SNR 12 - 8N	3/4	1/2	46.7	11.9	26.9	7,300	502	3,600	248
H - SNR 16 - 4N	1	1/4	49.3	7.1	34.9	5,300	365	2,600	179
H - SNR 16 - 8N	1	1/2	54.1	11.9	34.9	5,300	365	2,600	179

## Hex Long Nipple H-SNL



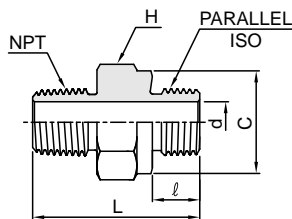
### Male NPT Both Ends.

Part No.	Pipe Size	L	d	H Width Across Flat	Pressure Rating			
					SS316 Carbon Steel		Brass	
					psig	bar	psig	bar
H - SNL - 2N	1/8	*	4.8	11.1	10,000	689	5,000	344
H - SNL - 4N	1/4	*	7.1	14.2	8,000	551	4,000	275
H - SNL - 6N	3/8	*	9.7	17.4	7,800	537	3,900	268
H - SNL - 8N	1/2	*	11.9	22.2	7,700	530	3,800	261
H - SNL - 12N	3/4	*	15.7	26.9	7,300	502	3,600	248
H - SNL - 16N	1	*	22.4	34.9	5,300	365	2,600	179

\* Specified length to be shown as last designator in part number.

Example : H - SNL - 4N L 51(51mm = 2" Length)

## Hex Nipple H-SNA



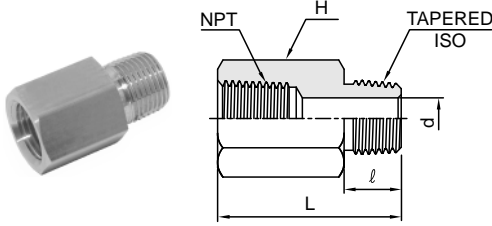
### Male NPT to Male ISO Parallel

Part No.	NPT Thread Size	BSP/ISO Thread Size	L	l	C	d	H Hex	Pressure Rating			
								SS316 Carbon Steel		Brass	
								psig	bar	psig	bar
H - SNA - 2NG	1/8	1/8-28 228/1	27.4	7.1	13.7	4.1	14.20	10,000	689	5,000	344
H - SNA - 4NG	1/4	1/4-19 228/1	36.8	11.2	17.8	5.8	19.05	8,000	551	4,000	275
H - SNA - 6NG	3/8	3/8-19 228/1	37.6	11.2	21.8	7.9	22.20	7,800	537	3,900	268
H - SNA - 8NG	1/2	1/2-14 228/1	45.0	14.2	26.1	11.9	26.90	7,700	530	3,800	261
H - SNA - 12NG	3/4	3/4-14 228/1	49.0	15.7	31.5	15.7	33.30	7,300	502	3,600	248
H - SNA - 16NG	1	1-11 228/1	56.9	18.3	38.9	19.8	41.00	5,300	365	2,600	179

All dimensions are in millimeters unless otherwise specified. Dimensions are for reference only, subject to change.

# Instrument Thread Fittings

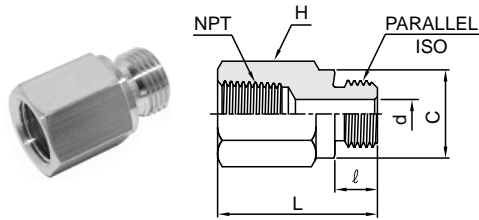
## Adapter H-MFAA



### Female NPT to Male ISO Tapered.

Part No.	NPT Thread Size	BSP/ISO Thread Size	L	ℓ	d	H Width Across Flat	Pressure Rating			
							SS316 Carbon Steel		Brass	
							psig	bar	psig	bar
H - MFAA - 2RN	1/8	1/8-28 7/1	27.4	9.7	4.8	14.20	6,500	447	3,200	220
H - MFAA - 4RN	1/4	1/4-19 7/1	35.8	14.2	7.1	19.05	6,600	454	3,300	227
H - MFAA - 6RN	3/8	3/8-19 7/1	37.6	14.2	9.7	22.20	5,300	365	2,600	179
H - MFAA - 8RN	1/2	1/2-14 7/1	49.0	19.1	11.9	26.90	4,900	337	2,400	165
H - MFAA - 12RN	3/4	3/4-14 7/1	50.3	19.1	15.7	31.80	4,600	316	2,300	158
H - MFAA - 16RN	1	1-11 7/1	58.0	23.9	22.3	41.20	4,400	303	2,200	151

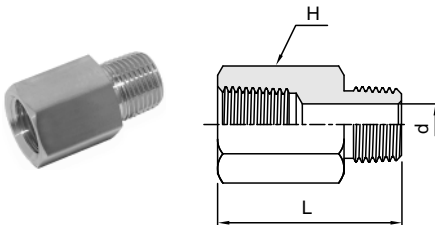
## Adapter H-MFAB



### Female NPT Male ISO Parallel

Part No.	NPT Thread Size	BSP/ISO Thread Size	L	ℓ	C	d	H Width Across Flat	Pressure Rating			
								SS316 Carbon Steel		Brass	
								psig	bar	psig	bar
H - MFAB - 2GN	1/8	1/8-28 228/1	24.9	7.1	13.7	4.1	14.20	6,500	447	3,200	220
H - MFAB - 4GN	1/4	1/4-19 228/1	33.3	11.2	17.8	5.8	19.05	6,600	454	3,300	227
H - MFAB - 6GN	3/8	3/8-19 228/1	37.8	11.2	21.8	7.9	22.20	5,300	365	2,600	179
H - MFAB - 8GN	1/2	1/2-14 228/1	43.9	14.2	26.1	11.9	26.90	4,900	337	2,400	165
H - MFAB - 12GN	3/4	3/4-14 228/1	50.8	15.7	31.5	15.7	33.30	4,600	316	2,300	158
H - MFAB - 16GN	1	1-11 228/1	53.1	18.3	38.9	19.8	41.20	4,400	303	2,200	151

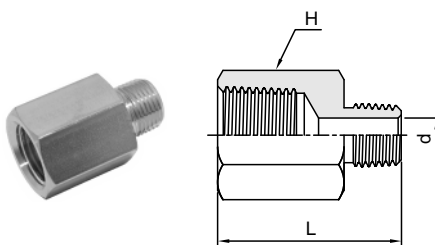
## Adapter H-MFAA



### Female NPT to Same Size Male NPT.

Part No.	Pipe Size	L	d	H Width Across Flat	Pressure Rating			
					SS316 Carbon Steel		Brass	
					psig	bar	psig	bar
H - MFAA - 2N	1/8	27.4	4.8	14.20	6,500	447	3,200	220
H - MFAA - 4N	1/4	35.6	7.1	19.05	6,600	454	3,300	227
H - MFAA - 6N	3/8	37.8	9.6	22.20	5,300	365	2,600	179
H - MFAA - 8N	1/2	49.0	11.9	26.90	4,900	337	2,400	165
H - MFAA - 12N	3/4	50.3	15.7	31.70	4,600	316	2,300	158
H - MFAA - 16N	1	58.0	22.3	41.20	4,400	303	2,200	151

## Reducing Adapter H-MFAC



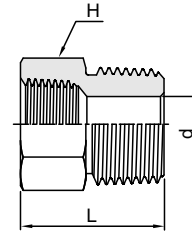
### Female NPT to Reduced Male NPT.

Part No.	Female Pipe Size	Male Pipe Size	L	d	H Width Across Flat	Pressure Rating			
						SS316 Carbon Steel		Brass	
						psig	bar	psig	bar
H - MFAC 2 - 4N	1/4	1/8	31.5	4.8	19.05	6,600	454	3,300	227
H - MFAC 2 - 6N	3/8	1/8	33.5	4.8	22.20	5,300	365	2,600	179
H - MFAC 4 - 6N	3/8	1/4	37.8	7.1	22.20	5,300	365	2,600	179
H - MFAC 2 - 8N	1/2	1/8	40.0	4.8	26.90	4,900	337	2,400	165
H - MFAC 4 - 8N	1/2	1/4	44.5	7.1	26.90	4,900	337	2,400	165
H - MFAC 6 - 8N	1/2	3/8	44.5	9.6	26.90	4,900	337	2,400	165
H - MFAC 4 - 12N	3/4	1/4	45.7	7.1	31.80	4,600	316	2,300	158
H - MFAC 6 - 12N	3/4	3/8	45.7	9.6	31.80	4,600	316	2,300	158
H - MFAC 8 - 12N	3/4	1/2	51.1	11.9	31.80	4,600	316	2,300	158
H - MFAC 4 - 16N	1	1/4	50.8	7.1	41.20	4,400	303	2,200	151
H - MFAC 8 - 16N	1	1/2	55.3	11.9	41.20	4,400	303	2,200	151
H - MFAC 16 - 16N	1	1	54.9	15.7	41.20	4,400	303	2,200	151

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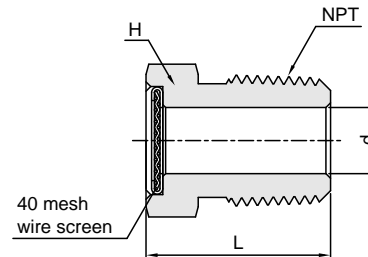
## Hex Bushing H-SHB



### Male NPT to Reduced Female NPT.

Part No.	Male Pipe Size	Female Pipe Size	L	d	H Width Across Flat	Working Pressure (PSIG)			Pressure Rating			
						316SS	Brass	Carbon Steel	SS316 Carbon Steel		Brass	
									psig	bar	psig	bar
H - SHB 4 - 2N	1/4	1/8	26.7	7.1	14.20	5600	3100	6200	6,500	447	3,200	220
H - SHB 6 - 2N	3/8	1/8	21.8	8.5	17.40				6,500	447	3,200	220
H - SHB 6 - 4N	3/8	1/4	30.0	9.6	19.05	5200	3100	6200	6,600	454	3,300	227
H - SHB 8 - 2N	1/2	1/8	27.4	8.5	22.20	-	-	-	6,500	447	3,200	220
H - SHB 8 - 4N	1/2	1/4	27.4	11.7	22.20	5800	3100	6200	6,600	454	3,300	227
H - SHB 8 - 6N	1/2	3/8	35.6	11.9	22.20	4400	2500	5100	5,300	365	2,600	179
H - SHB 12 - 4N	3/4	1/4	27.4	11.4	26.90	-	-	-	6,600	454	3,300	227
H - SHB 12 - 6N	3/4	3/8	27.4	15.0	26.90	-	-	-	5,300	365	2,600	179
H - SHB 12 - 8N	3/4	1/2	41.4	15.7	26.90	-	-	-	4,900	337	2,400	165
H - SHB 16 - 4N	1	1/4	34.8	11.4	34.90	-	-	-	6,600	454	3,300	227
H - SHB 16 - 8N	1	1/2	34.8	18.5	34.90	-	-	-	4,900	337	2,400	165
H - SHB 16 - 12N	1	3/4	47.0	22.4	34.90	-	-	-	4,600	316	2,300	158

## Vent Protector H-SBS



### Male NPT

Part No.	Pipe Size	L	d	H Width Across Flat
H-SBS- 4N	1/4	19.8	7.1	14.2
H-SBS- 6N	3/8	20.6	10.4	17.4
H-SBS- 8N	1/2	26.2	12.7	22.2
H-SBS-12N	3/4	26.9	18.3	26.9

Hy-Lok vent protectors, more commonly known as mud dauber fittings, protect open ends of instruments, tubing, outlet vents, and bleed-off lines

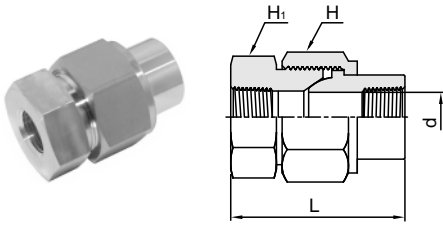
The mesh wire screen prevents foreign objects, such as mud dauber insects, from entering and clogging various systems and causing damage.

Vent protectors are available in stainless steel and brass.

All dimensions are in millimeters unless otherwise specified. Dimensions are for reference only, subject to change.

## Instrument Thread Fittings

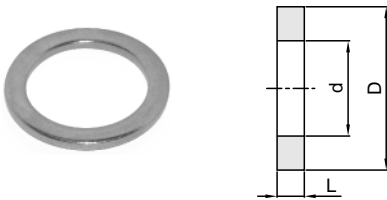
### Union Ball Joint H-SUR



### Female NPT Both Ends.

Part No.	Pipe Size	L	d	H Width Across Flat	H <sub>1</sub> Width Across Flat	Pressure Rating			
						SS316 Carbon Steel		Brass	
						psig	bar	psig	bar
H - SUR - 2N	1/8	45.7	6.9	28.6	23.8	6,500	447	3,200	220
H - SUR - 4N	1/4	59.4	9.1	34.9	30.2	6,600	454	3,300	227
H - SUR - 6N	3/8	63.5	13.2	38.1	33.3	5,300	365	2,600	179
H - SUR - 8N	1/2	68.6	15.7	44.5	41.3	4,900	337	2,400	165
H - SUR - 12N	3/4	79.2	22.4	50.8	47.6	4,600	316	2,300	158
H - SUR - 16N	1	90.4	26.2	63.5	60.3	4,400	303	2,200	151

### ISO Parallel Gasket W-P



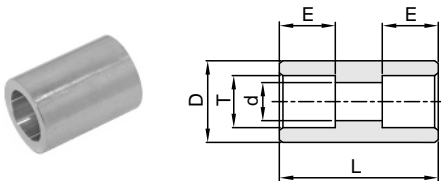
Part No.	Pipe Size	L	D	d
W - P16.0 D10.2 T2.0	1/8	2.0	16.0	10.0
W - P19.5 D13.4 T2.0	1/4	2.0	19.5	14.0
W - P24.0 D17.0 T2.0	3/8	2.0	24.0	17.0
W - P29.0 D21.2 T2.0	1/2	2.0	29.0	22.0
W - P34.5 D27.2 T2.0	3/4	2.0	34.5	27.0
W - P42.0 D34.0 T2.0	1	2.0	42.0	34.0

Used to provide a seal with ISO parallel thread. (Material is Copper only)

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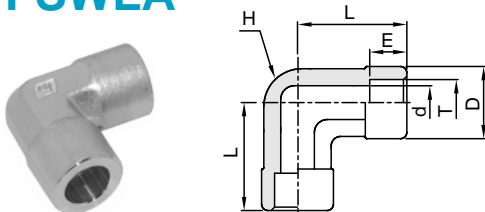
## Instrument Weld Fittings

### Union H-SWFC



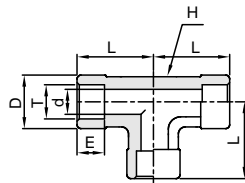
Part No.	T Tube O.D.	L	D	d	E	Working Pressure SS316	
						psig	bar
H - SWFC - 4T	1/4	19.1	13.0	4.6	7.1	10,000	689
H - SWFC - 6T	3/8	22.4	15.8	7.1	7.9	7,600	523
H - SWFC - 8T	1/2	26.9	19.0	10.2	9.7	6,200	427
H - SWFC - 10T	5/8	30.2	24.0	12.7	10.4	6,400	440
H - SWFC - 12T	3/4	33.3	26.9	15.7	11.2	5,500	378
H - SWFC - 16T	1	36.6	35.0	22.1	15.7	5,200	358

### Union Elbow H-SWLA



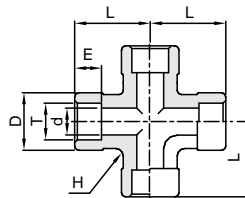
Part No.	T Tube O.D.	L	D	d	E	H Width Across Flat	Working Pressure SS316	
							psig	bar
H - SWLA - 4T	1/4	21.8	13.4	4.6	7.1	11.1	11,300	778
H - SWLA - 6T	3/8	26.4	15.8	7.1	7.9	12.7	8,400	578
H - SWLA - 8T	1/2	29.7	20.6	10.2	9.7	17.4	7,800	537
H - SWLA - 10T	5/8	36.1	23.8	12.7	10.4	20.6	6,700	461
H - SWLA - 12T	3/4	37.0	28.6	15.7	11.2	25.4	6,700	461
H - SWLA - 16T	1	46.5	35.0	22.1	15.7	31.8	6,100	420

Union Tee  
**H-SWTA**



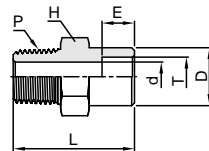
Part No.	T Tube O.D.	L	D	d	E	H Width Across Flat	Working Pressure SS316	
							psig	bar
H - SWTA - 2T	1/8	15.0	13.4	2.3	2.5	11.1	11,800	813
H - SWTA - 4T	1/4	21.8	13.4	4.6	7.1	11.1	11,300	778
H - SWTA - 6T	3/8	26.4	15.8	7.1	7.9	12.7	8,400	578
H - SWTA - 8T	1/2	29.7	20.6	10.2	9.7	17.4	7,800	537
H - SWTA -10T	5/8	36.1	23.8	12.7	10.4	20.6	6,700	461
H - SWTA -12T	3/4	37.0	28.6	15.7	11.2	25.4	6,700	461
H - SWTA -16T	1	46.5	35.0	22.1	15.7	31.8	6,100	420

Union Cross  
**H-SWXA**



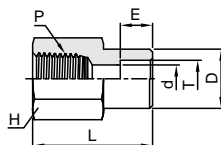
Part No.	T Tube O.D.	L	D	d	E	H Width Across Flat	Working Pressure SS316	
							psig	bar
H - SWXA - 4T	1/4	21.8	13.4	4.6	7.1	11.1	11,300	778
H - SWXA - 6T	3/8	26.4	15.8	7.1	7.9	12.7	8,400	578
H - SWXA - 8T	1/2	29.7	20.6	10.2	9.7	17.4	7,800	537
H - SWXA -12T	3/4	37.0	28.6	15.7	11.2	25.4	6,700	461
H - SWXA -16T	1	46.5	35.0	22.1	15.7	31.8	6,100	420

Male Connector  
**H-SSD**



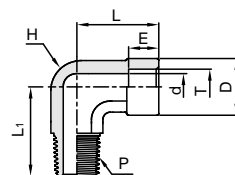
Part No.	T Tube O.D.	P-NPT Male Pipe Size	L	D	d	E	H Width Across Flat	Working Pressure SS316	
								psig	bar
H - SSD4T - 4N	1/4	1/4	29.2	12.2	4.6	7.1	14.20	7,500	516
H - SSD6T - 4N	3/8	1/4	31.8	15.3	7.1	7.9	15.80	7,500	516
H - SSD6T - 6N	3/8	3/8	31.8	15.3	7.1	7.9	17.40	7,300	502
H - SSD6T - 8N	3/8	1/2	37.3	15.3	7.1	7.9	22.20	7,200	496
H - SSD8T - 4N	1/2	1/4	33.3	18.5	7.1	9.7	19.05	6,200	427
H - SSD8T - 6N	1/2	3/8	33.3	18.5	9.4	9.7	19.05	6,200	427
H - SSD8T - 8N	1/2	1/2	38.9	18.5	10.2	9.7	22.20	6,200	427

Female Connector  
**H-SSB**



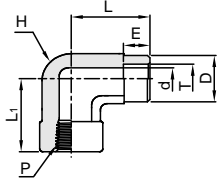
Part No.	T Tube O.D.	P-NPT Female Pipe Size	L	D	d	E	H Width Across Flat	Working Pressure SS316	
								psig	bar
H-SSB 2T- 2N	1/8	1/8	21.1	7.4	2.3	2.5	14.20	6,100	420
H-SSB 4T- 2N	1/4	1/8	26.7	12.2	4.6	7.1	14.20	6,100	420
H-SSB 4T- 4N	1/4	1/4	30.0	12.2	4.6	7.1	19.05	6,200	427
H-SSB 6T- 4N	3/8	1/4	31.5	15.3	7.1	7.9	19.05	6,200	427
H-SSB 8T- 6N	1/2	3/8	34.5	18.5	10.2	9.7	22.20	5,000	344
H-SSB 8T- 8N	1/2	1/2	40.4	18.5	10.2	9.7	26.90	4,600	316
H-SSB10T- 8N	5/8	1/2	41.9	23.4	12.7	10.4	24.90	4,600	316
H-SSB12T-12N	3/4	3/4	43.9	26.4	15.7	11.2	33.30	4,300	296

Male Elbow  
**H-SLG**



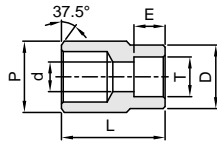
Part No.	T Tube O.D.	P-NPT Male Pipe Size	L	L <sub>1</sub>	D	d	E	H Width Across Flat	Working Pressure SS316	
									psig	bar
H-SLG 4T- 4N	1/4	1/4	20.1	26.7	15.8	4.6	7.1	12.7	7,500	516
H-SLG 6T- 4N	3/8	1/4	26.4	26.7	15.8	7.1	7.9	12.7	7,500	516
H-SLG 6T- 6N	3/8	3/8	24.6	29.7	20.6	7.1	7.9	17.4	7,300	502
H-SLG 6T- 8N	3/8	1/2	25.9	36.0	23.8	7.1	7.9	20.6	7,200	496
H-SLG 8T- 8N	1/2	1/2	27.4	36.0	23.8	10.2	9.7	20.6	6,200	427
H-SLG12T-12N	3/4	3/4	37.0	37.0	28.6	15.7	11.2	25.4	6,700	461

## Female Elbow H-SLD



Part No.	T Tube O.D	P-NPT Female Pipe Size	L	L <sub>1</sub>	D	d	E	H Width Across Flat	Working Pressure SS316	
									psig	bar
H - SLD4T - 4N	1/4	1/4	22.9	29.7	12.2	4.8	7.1	17.4	6,200	427
H - SLD6T - 4N	3/8	1/4	25.1	29.7	15.3	4.1	7.9	17.4	7,000	482
H - SLD6T - 8N	3/8	1/2	28.7	37.0	15.3	7.1	7.9	25.4	5,400	372
H - SLD8T - 8N	1/2	1/2	30.2	37.0	18.5	10.2	9.7	25.4	5,400	372

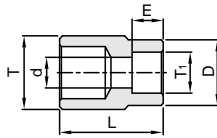
## Pipe Weld to Tube Socket Weld H-SWRM



Part No.	P Pipe Size	T Tube Socket Size	L	D	d	E	Working Pressure SS316	
							psig	bar
H - SWRM 4P - 4T	1/4	1/4	22.4	13.7	4.6	7.1	9,600	661
H - SWRM 6P - 6T	3/8	3/8	26.2	15.3	7.1	7.9	7,600	523
H - SWRM 6P - 8T	3/8	1/2	27.9	18.5	10.2	9.7	6,200	427
H - SWRM 8P - 4T	1/2	1/4	28.4	12.2	4.6	7.1	7,300	502
H - SWRM 8P - 6T	1/2	3/8	28.4	15.3	7.1	7.9	7,300	502
H - SWRM 8P - 8T	1/2	1/2	30.2	18.5	10.2	9.7	6,200	427
H - SWRM12P - 6T	3/4	3/8	38.1	15.3	7.1	7.9	6,200	427
H - SWRM12P - 8T	3/4	1/2	38.1	18.5	10.2	9.7	6,200	427

Used to reduce from a pipe butt weld or pipe socket weld to a smaller tube size

## Tube Weld to Tube Socket Weld H-SWRM



Part No.	T Tube Size	T <sub>1</sub> Tube Socket Size	L	D	d	E	Working Pressure SS316	
							psig	bar
H - SWRM 4T - 2T	1/4	1/8	14.2	7.4	2.3	2.5	11,800	813
H - SWRM 6T - 4T	3/8	1/4	19.1	12.2	4.6	7.1	7,700	530
H - SWRM 8T - 4T	1/2	1/4	22.4	18.2	4.6	7.1	7,000	482
H - SWRM 8T - 6T	1/2	3/8	22.4	15.7	8.1	7.9	7,000	482
H - SWRM12T - 8T	3/4	1/2	28.4	18.5	10.2	9.7	5,900	406
H - SWRM16T - 8T	1	1/2	35.1	18.5	10.2	9.7	5,600	344

Used to reduce from a tube butt weld or tube socket weld to a smaller tube size



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