

# Hy-Lok Instrument Weld Fittings

for Use with 1/8" thru 1" Tubing

Catalog No. H-500WF  
Jan. 2002

## 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 tube fit, consistent assembly and alignment.

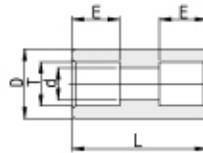
## Standard material

316 stainless steel is the standard material. Fitting made from forgings are manufactured from materials to ASTM A-314 and ASME SA-182 and fittings made from bar stock are manufactured from materials to ASTM A-276 and ASME SA-479.

## Pressure ratings

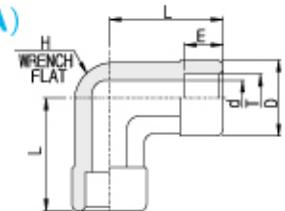
Pressure ratings for Hope weld fittings are in accordance with ANSI B31.3 and safety factor 4:1 is reflected to all working pressure listed.

### Union (H-SWFC)



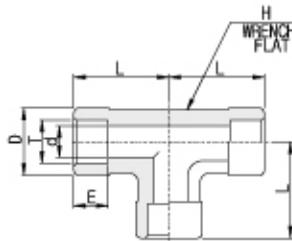
T Tube O.D	Part Number	d	D	E	L	Working Pressure	
						psig	bar
1/4	H-SWFC- 4T	4.6	13.0	7.1	19.1	10,000	689
3/8	H-SWFC- 6T	7.1	15.8	7.9	22.4	7,600	523
1/2	H-SWFC- 8T	10.2	19.0	9.7	26.9	6,200	427
5/8	H-SWFC-10T	12.7	24.0	10.4	30.2	6,400	440
3/4	H-SWFC-12T	15.7	26.9	11.2	33.3	5,500	378
1	H-SWFC-16T	22.1	35.0	15.7	36.6	5,200	358

### Union Elbow (H-SWLA)



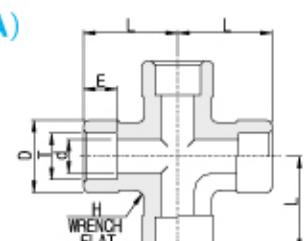
T Tube O.D	Part Number	d	D	E	H Wrench Flat	L	Working Pressure	
							psig	bar
1/4	H-SWLA- 4T	4.6	13.4	7.1	11.1	21.8	11,300	778
3/8	H-SWLA- 6T	7.1	15.8	7.9	12.7	26.4	8,400	578
1/2	H-SWLA- 8T	10.2	20.6	9.7	17.4	29.7	7,800	537
5/8	H-SWLA-10T	12.7	23.8	10.4	20.6	36.1	6,700	461
3/4	H-SWLA-12T	15.7	28.6	11.2	25.4	37.0	6,700	461
1	H-SWLA-16T	22.1	35.0	15.7	31.8	46.5	6,100	420

### Union Tee (H-SWTA)



T Tube O.D	Part Number	d	D	E	H Wrench Flat	L	Working Pressure	
							psig	bar
1/8	H-SWTA- 2T	2.3	13.4	2.5	11.1	15.0	11,800	813
1/4	H-SWTA- 4T	4.6	13.4	7.1	11.1	21.8	11,300	778
3/8	H-SWTA- 6T	7.1	15.8	7.9	12.7	26.4	8,400	578
1/2	H-SWTA- 8T	10.2	20.6	9.7	17.4	29.7	7,800	537
5/8	H-SWTA-10T	12.7	23.8	10.4	20.6	36.1	6,700	461
3/4	H-SWTA-12T	15.7	28.6	11.2	25.4	37.0	6,700	461
1	H-SWTA-16T	22.1	35.0	15.7	31.8	46.5	6,100	420

### Union Cross (H-SWXA)



T Tube O.D	Part Number	d	D	E	H Wrench Flat	L	Working Pressure	
							psig	bar
1/4	H-SWXA- 4T	4.6	13.4	7.1	11.1	21.8	11,300	778
3/8	H-SWXA- 6T	7.1	15.8	7.9	12.7	26.4	8,400	578
1/2	H-SWXA- 8T	10.2	20.6	9.7	17.4	29.7	7,800	537
3/4	H-SWXA-12T	15.7	28.6	11.2	25.4	37.0	6,700	461
1	H-SWXA-16T	22.1	35.0	15.7	31.8	46.5	6,100	420

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

#### ■ QUALITY SYSTEM CERTIFICATES



ISO 9001  
CERTIFICATE NO. GQC 212

ASME SECT III (MO)  
CERTIFICATE NO. GSC 584

#### ■ TYPE APPROVALS



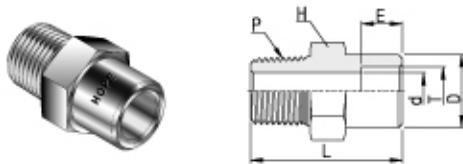
American Bureau Shipping  
CERTIFICATE NO. 00-BK50288-X



# HY-LOK CORPORATION

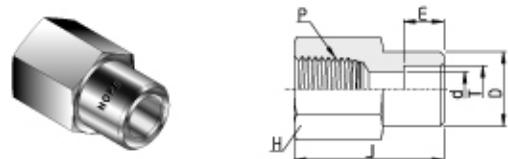
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### Male Connector(H-SSD)



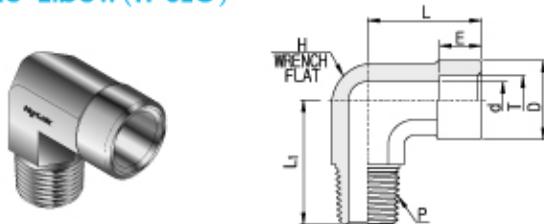
T Tube O.D	P-NPT Male Pipe Size	Part Number	d	D	E	H HEX	L	Working Pressure	
								psig	bar
1/4	1/4	H-SSD4T- 4N	4.6	12.2	7.1	14.2	29.2	7,500	516
3/8	1/4	H-SSD6T- 4N	7.1	15.3	7.9	15.8	31.8	7,500	516
3/8	3/8	H-SSD6T- 6N	7.1	15.3	7.9	17.4	31.8	7,300	502
3/8	1/2	H-SSD6T- 8N	7.1	15.3	7.9	22.2	37.3	7,200	496
1/2	1/4	H-SSD8T- 4N	7.1	18.5	9.7	19.05	33.3	6,200	427
1/2	3/8	H-SSD8T- 6N	9.4	18.5	9.7	19.05	33.3	6,200	427
1/2	1/2	H-SSD8T- 8N	10.2	18.5	9.7	22.2	38.9	6,200	427

### Female Connector(H-SSB)



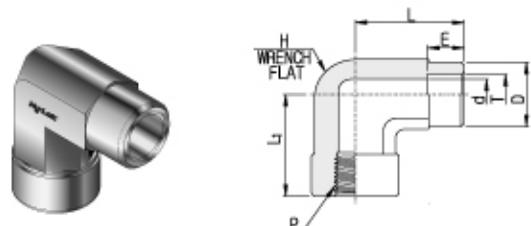
T Tube O.D	P-NPT Female Pipe Size	Part Number	d	D	E	H HEX	L	Working Pressure	
								psig	bar
1/8	1/8	H-SSB 2T- 2N	2.3	7.4	2.5	14.2	21.1	6,100	420
1/4	1/8	H-SSB 4T- 2N	4.6	12.2	7.1	14.2	26.7	6,100	420
1/4	1/4	H-SSB 4T- 4N	4.6	12.2	7.1	19.05	30.0	6,200	427
3/8	1/4	H-SSB 6T- 4N	7.1	15.3	7.9	19.05	31.5	6,200	427
1/2	3/8	H-SSB 8T- 6N	10.2	18.5	9.7	22.2	34.5	5,000	344
1/2	1/2	H-SSB 8T- 8N	10.2	18.5	9.7	26.9	40.4	4,600	316
5/8	1/2	H-SSB10T- 8N	12.7	23.4	10.4	24.9	41.9	4,600	316
3/4	3/4	H-SSB12T-12N	15.7	26.4	11.2	33.3	43.9	4,300	296

### Male Elbow(H-SLG)



T Tube O.D	P-NPT Male Pipe Size	Part Number	d	D	E	H Wrench Flat	L	L <sub>1</sub>	Working Pressure	
									psig	bar
1/4	1/4	H-SLG 4T- 4N	4.6	15.8	7.1	12.7	20.1	26.7	7,500	516
3/8	1/4	H-SLG 6T- 4N	7.1	15.8	7.9	12.7	26.4	26.7	7,500	516
3/8	3/8	H-SLG 6T- 6N	7.1	20.6	7.9	17.4	24.6	29.7	7,300	502
3/8	1/2	H-SLG 6T- 8N	7.1	23.8	7.9	20.6	25.9	36.0	7,200	496
1/2	1/2	H-SLG 8T- 8N	10.2	23.8	9.7	20.6	27.4	36.0	6,200	427
3/4	3/4	H-SLG12T-12N	15.7	28.6	11.2	25.4	37.0	37.0	6,700	461

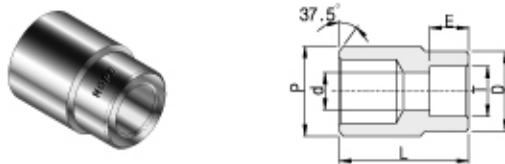
### Female Elbow(H-SLD)



T Tube O.D	P-NPT Female Pipe Size	Part Number	d	D	E	H Wrench Flat	L	L <sub>1</sub>	Working Pressure	
									psig	bar
1/4	1/4	H-SLD4T-4N	4.8	12.2	7.1	17.4	22.9	29.7	6,200	427
3/8	1/4	H-SLD6T-4N	7.1	15.3	7.9	17.4	25.1	29.7	7,000	482
3/8	1/2	H-SLD6T-8N	7.1	15.3	7.9	25.4	28.7	37.0	5,400	372
1/2	1/2	H-SLD8T-8N	10.2	18.5	9.7	25.4	30.2	37.0	5,400	372

### Pipe Weld to Tube Socket Weld(H-SWRM)

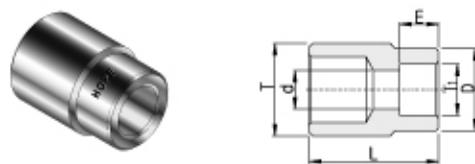
Used to reduce from a pipe butt weld or pipe socket weld to a smaller tube size



P Pipe Size	T Tube Socket Size	Part Number	d	D	E	L	Working Pressure	
							psig	bar
1/4	1/4	H-SWRM 4P- 4T	4.6	13.7	7.1	22.4	9,600	661
3/8	3/8	H-SWRM 6P- 6T	7.1	15.3	7.9	26.2	7,600	523
3/8	1/2	H-SWRM 6P- 8T	10.2	18.5	9.7	27.9	6,200	427
1/2	1/4	H-SWRM 8P- 4T	4.6	12.2	7.1	28.4	7,300	502
1/2	3/8	H-SWRM 8P- 6T	7.1	15.3	7.9	28.4	7,300	502
1/2	1/2	H-SWRM 8P- 8T	10.2	18.5	9.7	30.2	6,200	427
3/4	3/8	H-SWRM12P- 6T	7.1	15.3	7.9	38.1	6,200	427
3/4	1/2	H-SWRM12P- 8T	10.2	18.5	9.7	38.1	6,200	427

### Tube Weld to Tube Socket Weld(H-SWRM)

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



T Tube Size	T <sub>1</sub> Tube Socket Size	Part Number	d	D	E	L	Working Pressure	
							psig	bar
1/4	1/8	H-SWRM 4T-2T	2.3	7.4	2.5	14.2	11,800	813
3/8	1/4	H-SWRM 6T-4T	4.6	12.2	7.1	19.1	7,700	530
1/2	1/4	H-SWRM 8T-4T	4.6	18.2	7.1	22.4	7,000	482
1/2	3/8	H-SWRM 8T-6T	8.1	15.7	7.9	22.4	7,000	482
3/4	1/2	H-SWRM12T-8T	10.2	18.5	9.7	28.4	5,900	406
1	1/2	H-SWRM16T-8T	10.2	18.5	9.7	35.1	5,600	344

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