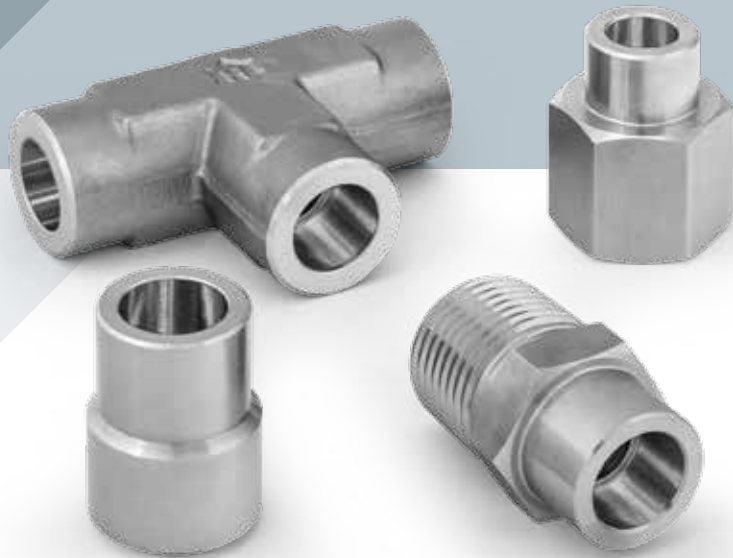


HAM-LET PRECISION INSTRUMENT WELD FITTINGS

WELDLINE



HAM-LET **WELDLINE** FITTINGS

MATERIAL

Standard material is 316L stainless steel and is in accordance with ASTM A479 and ASTM A276.
316 / 316L Stainless steel SHAPED items are manufactured from material in Accordance with ASTM A182.
Cleaning requirements: Per HAM-LET STD Cleaning SOP 8184.

HOW TO ORDER:

EXAMPLE:

I

INCH / MM	
I -	Inch
M -	mm

P

Material	
P -	Stainless Steel 316

All orders should include material description and ordering information (see product table).

94 TS

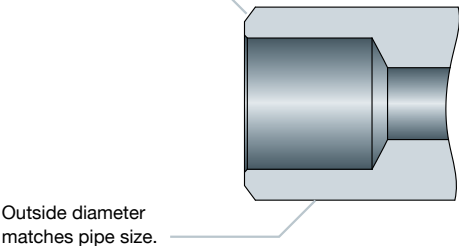
Fittings Designator	
TS	Tube Socket weld
TBW	Tube Butt Weld
PT	Pipe Butt weld to Tube Socket Weld
PS	Pipe Socket weld
PBW	Pipe Butt weld

04H04

Size Designator	
inch	mm
04 = 1/4	06 = 6mm
06 = 3/8	08 = 8mm
08 = 1/2	10 = 10mm
12 = 3/4	12 = 12mm
16 = 1"	

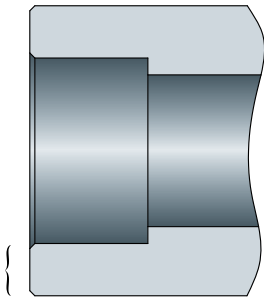
PBW - PIPE BUTT WELD

37.5° chamfer for proper weld Fillet



PS - PIPE SOCKET WELD

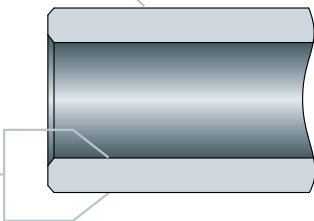
Heavy wall plus strength of material assures long life in severe service application



TBW - TUBE BUTT WELD

Male tube weld

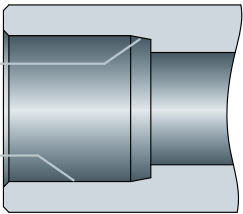
Quality machining of all surfaces assures consistent welding to tube



TS - TUBE SOCKET WELD

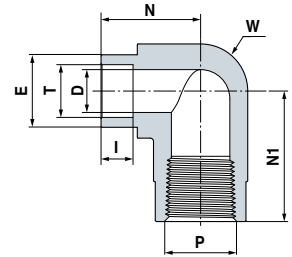
Tapered socket speeds layout, assembly & alignment

Precise machining of socket assures proper tube fit



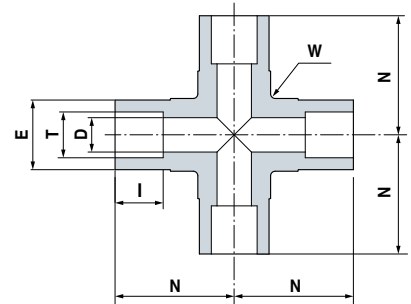
Accurate socket depth assures proper tube support & consistent assembly

IP90TS

TUBE SOCKET WELD
FEMALE ELBOW

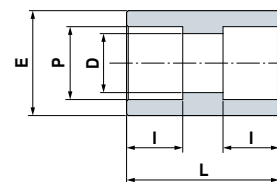
Ordering Information	T Tube O.D.	P NPT	N		N1		I		D Min. Opening		E		W Wrench Flat		Working Pressure [Psi]
			inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	
IP90TS04H04	1/4	1/4	0.9	22.9	1.17	29.7	0.28	7.1	0.19	4.8	0.48	12.2	13/16	20.6	6600
IP90TS06H04	3/8	1/4	0.99	25.1	1.17	29.7	0.31	7.9	0.28	7.1	0.60	15.2	13/16	20.6	5300
IP90TS06H08	3/8	1/2	1.13	28.7	1.56	39.6	0.31	7.9	0.28	7.1	0.60	15.2	1 1/8	28.6	4900
IP90TS08H08	1/2	1/2	1.19	30.2	1.56	39.6	0.38	9.7	0.41	10.4	0.73	18.5	1 1/8	28.6	4900

IP91TS

TUBE SOCKET WELD
UNION CROSS

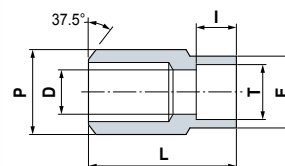
Ordering Information	T Tube O.D.	N		I		D Min. Opening		E		W Wrench Flat		Working Pressure [Psi]
		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	
IP91TS04H00	1/4	0.86	21.8	0.28	7.1	0.19	4.8	0.53	13.5	5/8	15.8	10300
IP91TS06H00	3/8	1.04	26.4	0.31	7.9	0.28	7.1	0.64	16.3	13/16	20.6	8100
IP91TS08H00	1/2	1.13	28.7	0.38	9.7	0.41	10.4	0.81	20.6	13/16	20.6	6600
IP91TS12H00	3/4	1.49	37.9	0.44	11.2	0.62	15.7	1.20	30.5	1 3/8	34.9	5900
IP91TS16H00	1	1.92	48.8	0.62	15.7	0.88	22.4	1.45	36.8	1 11/16	42.9	5600

IP92PS

PIPE SOCKET WELD
UNION

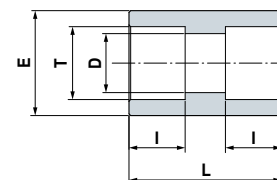
Ordering Information	P Pipe Size.	L		I		D Min. Opening		E		Working Pressure [Psi]
		inch	mm	inch	mm	inch	mm	inch	mm	
IP92PS04H00	1/4	1.06	26.9	0.39	9.9	0.36	9.1	0.88	22.4	8100
IP92PS06H00	3/8	1.12	28.4	0.39	9.9	0.49	12.4	1.03	26.2	7100
IP92PS08H00	1/2	1.12	28.4	0.39	9.9	0.62	15.7	1.25	31.8	6800
IP92PS12H00	3/4	1.75	44.5	0.51	13.0	0.82	20.8	1.47	37.3	5800
IP92PS16H00	1	1.75	44.5	0.51	13.0	1.05	26.7	1.86	47.2	6100

IP92PT

PIPE BUTT WELD TO
TUBE SOCKET WELD

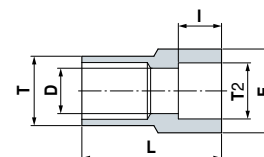
Ordering Information	P Pipe Size	T Tube O.D.	L		I		D Min. Opening		E		Working Pressure [Psi]
			inch	mm	inch	mm	inch	mm	inch	mm	
IP92PT04H04	1/4	1/4	0.88	22.4	0.28	7.1	0.19	4.8	0.48	12.2	10300
IP92PT06H06	3/8	3/8	1.03	26.2	0.31	7.9	0.28	7.1	0.60	15.2	8100
IP92PT06H08	3/8	1/2	1.00	25.4	0.38	7.9	0.41	10.4	0.73	18.5	6600
IP92PT08H04	1/2	1/4	1.12	28.4	0.28	7.1	0.19	4.8	0.48	12.2	7800
IP92PT08H06	1/2	3/8	1.12	28.4	0.31	7.9	0.28	7.1	0.60	15.2	7800
IP92PT08H08	1/2	1/2	1.19	30.2	0.38	9.7	0.41	10.4	0.73	18.5	6600
IP92PT12H06	3/4	3/8	1.50	38.1	0.31	7.9	0.28	7.1	0.60	15.2	6600
IP92PT12H08	3/4	1/2	1.50	38.1	0.38	9.7	0.41	10.4	0.73	18.5	6600
IP92PT12H12	3/4	3/4	1.50	38.1	0.44	11.2	0.62	15.7	1.05	26.7	5900
IP92PT16H06	1	3/8	1.38	35.1	0.31	7.9	0.28	7.1	0.60	15.2	6000
IP92PT16H08	1	1/2	1.56	39.6	0.38	9.7	0.41	10.4	0.73	18.5	6000

IP92TS TUBE SOCKET WELD UNION



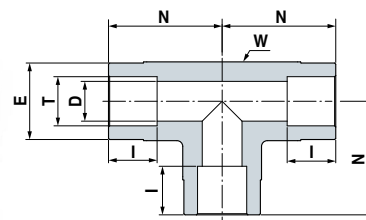
Ordering Information	T Tube O.D.	L		I		D Min. Opening		E		Working Pressure [Psi]
		inch	mm	inch	mm	inch	mm	inch	mm	
IP92TS04H00	1/4	0.75	19.1	0.28	7.1	0.19	4.8	0.48	12.2	10300
IP92TS06H00	3/8	0.88	22.4	0.31	7.9	0.28	7.1	0.60	15.2	8100
IP92TS08H00	1/2	1.06	26.9	0.38	9.7	0.41	10.4	0.73	18.5	6600
IP92TS12H00	3/4	1.31	33.3	0.44	11.2	0.62	15.7	1.04	26.4	5900
IP92TS16H00	1	1.44	36.6	0.62	15.7	0.88	22.4	1.36	34.6	5600

IP93TBW TUBE BUTT WELD TO TUBE SOCKET WELD



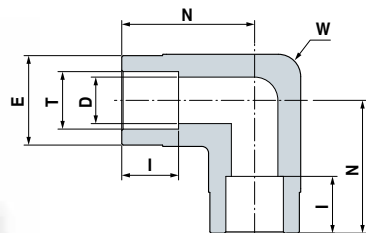
Ordering Information	T Tube O.D.	T2 Tube O.D.	L		I		D Min. Opening		E		Working Pressure [Psi]
			inch	mm	inch	mm	inch	mm	inch	mm	
IP93TBW04H02	1/4	1/8	0.56	14.9	0.10	2.5	0.09	2.3	0.29	7.4	12600
IP93TBW06H04	3/8	1/4	0.75	19.1	0.28	7.1	0.19	4.8	0.48	12.2	8200
IP93TBW08H04	1/2	1/4	0.88	22.4	0.28	7.1	0.19	4.8	0.50	12.7	7500
IP93TBW08H06	1/2	3/8	0.88	22.4	0.31	7.9	0.33	8.4	0.60	15.2	7500
IP93TBW12H08	3/4	1/2	1.12	28.4	0.38	9.7	0.41	10.4	0.75	19.1	6300
IP93TBW16H08	1	1/2	1.38	35.1	0.38	9.7	0.41	10.4	0.73	18.5	5300

IP94TS TUBE SOCKET WELD UNION TEE

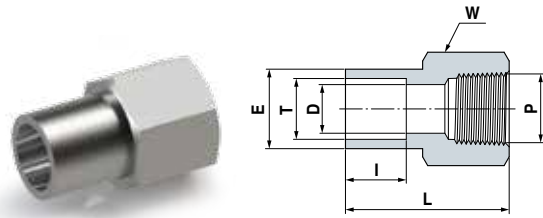


Ordering Information	T Tube O.D.	N		I		D Min. Opening		E		W Wrench Flat		Working Pressure [Psi]
		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	
IP94TS02H00	1/8	0.59	15.0	0.10	2.5	0.09	2.3	0.35	9.0	7/16	11.1	12600
IP94TS04H00	1/4	0.86	21.8	0.28	7.1	0.19	4.8	0.53	13.5	5/8	15.9	10300
IP94TS06H00	3/8	1.04	26.4	0.31	7.9	0.28	7.1	0.69	17.5	11/16	17.5	8100
IP94TS08H00	1/2	1.17	29.7	0.38	9.7	0.41	10.4	0.81	20.6	13/16	20.6	6600
IP94TS12H00	3/4	1.56	39.6	0.44	11.2	0.62	15.7	1.13	28.6	1 1/8	28.6	5900
IP94TS16H00	1	1.92	48.8	0.62	15.7	0.88	22.4	1.45	36.8	1 11/16	42.9	5600

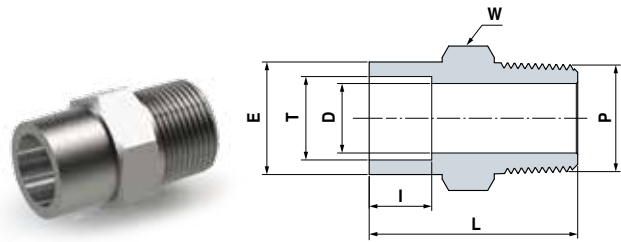
IP95TS TUBE SOCKET WELD UNION ELBOW



Ordering Information	T Tube O.D.	N		I		D Min. Opening		E		W Wrench Flat		Working Pressure [Psi]
		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	
IP95TS04H00	1/4	0.86	21.8	0.28	7.1	0.19	4.8	0.53	13.5	5/8	15.8	10300
IP95TS06H00	3/8	1.00	25.4	0.31	7.9	0.28	7.1	0.69	17.5	11/16	17.5	8100
IP95TS08H00	1/2	1.17	29.7	0.38	9.7	0.41	10.4	0.81	20.6	13/16	20.6	6600
IP95TS12H00	3/4	1.56	39.6	0.44	11.2	0.62	15.7	1.13	28.6	1 1/8	28.6	5900
IP95TS16H00	1	1.92	48.8	0.62	15.7	0.88	22.4	1.45	36.8	1 11/16	42.9	5600

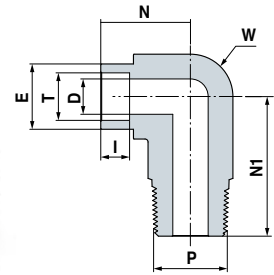
IP96TS**TUBE SOCKET WELD
FEMALE CONNECTOR**

Ordering Information	T TUBE O.D.	P NPT	L		I		D Min. Opening		E		W Hex Flat	Working Pressure [Psi]
			inch	mm	inch	mm	inch	mm	inch	mm		
IP96TS02H02	1/8	1/8	0.83	21.1	0.10	2.5	0.09	2.3	0.29	7.4	9/16	6500
IP96TS04H02	1/4	1/8	1.05	26.7	0.28	7.1	0.19	4.8	0.48	12.2	9/16	6500
IP96TS04H04	1/4	1/4	1.18	30.0	0.28	7.1	0.19	4.8	0.48	12.2	3/4	6600
IP96TS06H04	3/8	1/4	1.24	31.5	0.31	7.9	0.28	7.1	0.60	15.2	3/4	6600
IP96TS08H06	1/2	3/8	1.36	34.5	0.38	9.7	0.41	10.4	0.73	18.5	7/8	5300
IP96TS08H08	1/2	1/2	1.59	40.4	0.38	9.7	0.41	10.4	0.73	18.5	1 1/16	4900
IP96TS12H12	3/4	3/4	1.73	43.9	0.44	11.2	0.62	15.7	1.04	26.4	1 5/16	4600

IP98TS**TUBE SOCKET WELD
MALE CONNECTOR**

Ordering Information	T TUBE O.D.	P NPT	L		I		D Min. Opening		E		W Hex Flat	Working Pressure [Psi]
			inch	mm	inch	mm	inch	mm	inch	mm		
IP98TS04H04	1/4	1/4	1.15	29.2	0.28	7.1	0.19	4.8	0.48	12.2	9/16	8000
IP98TS06H04	3/8	1/4	1.25	31.8	0.31	7.9	0.28	7.1	0.62	15.8	5/8	8000
IP98TS06H06	3/8	3/8	1.25	31.8	0.31	7.9	0.28	7.1	0.62	15.8	11/16	7800
IP98TS06H08	3/8	1/2	1.47	37.3	0.31	7.9	0.28	7.1	0.62	15.8	7/8	7700
IP98TS08H04	1/2	1/4	1.31	33.3	0.38	9.7	0.28	7.1	0.73	18.5	3/4	6600
IP98TS08H06	1/2	3/8	1.31	33.3	0.38	9.7	0.38	9.7	0.73	18.5	3/4	6600
IP98TS08H08	1/2	1/2	1.53	38.9	0.38	9.7	0.41	10.4	0.73	18.5	7/8	6600

IP99TS
TUBE SOCKET WELD
MALE ELBOW



Ordering Information	T Tube O.D.	P NPT	N		N1		I		D Min. Opening		E		W Wrench Flat		Working Pressure [Psi]
			inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	
IP99TS04H04	1/4	1/4	0.79	20.1	0.94	24.0	0.28	7.1	0.19	4.8	0.48	12.2	1/2	12.7	8000
IP99TS06H04	3/8	1/4	1.04	26.4	1.05	26.7	0.31	7.9	0.28	7.1	0.64	16.3	11/16	17.5	8000
IP99TS06H06	3/8	3/8	0.97	24.6	1.03	26.2	0.31	7.9	0.28	7.1	0.60	15.2	11/16	17.5	7800
IP99TS06H08	3/8	1/2	1.02	25.9	1.45	36.9	0.31	7.9	0.28	7.1	0.60	15.2	13/16	20.6	7700
IP99TS08H08	1/2	1/2	1.08	27.4	1.45	36.9	0.38	9.7	0.41	10.4	0.73	18.5	13/16	20.6	6600