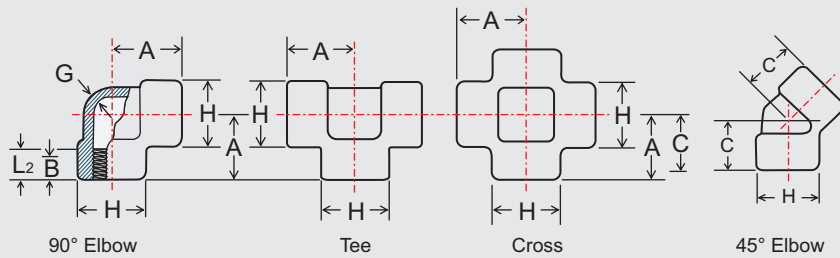


### STEEL SOCKET - WELDING FITTINGS

Nom. Pipe Size	Socket Bore Dia B <sub>2</sub>	Bore Diameter of Fitting D <sub>2</sub>		Socket Wall Thickness, C				Body Wall G		Depth of Socket	Center to Bottom of Socket - A				Laying Lengths		Tolerances ±		
		Pressure Class Designation		Pressure Class Designation				Pressure Class Designation			90° Elbows, Tees, and Crosses	45° Elbows		Couplings E	Half Couplings F	A	E	F	
		3000 lb	6000 lb	3000 lb		6000 lb		3000 lb	6000 lb			Pressure Class Designation							
		Ave.	Min.	Ave.	Min.	Min.	Min.	Min.	Min.		3000 lb	6000 lb	3000 lb	6000 lb					
3	10.92	7.59	4.80	3.18	3.18	3.96	3.43	2.41	3.15	9.65	11.18	11.18	7.87	7.87	6.35	15.75	0.76	1.52	0.76
6	10.67	6.07	3.20	3.78	3.30	4.60	4.01	3.02	3.68	9.65	11.18	13.46	7.87	7.87	6.35	15.75	0.76	1.52	0.76
	14.10	8.48	5.59																
10	17.78	13.28	9.88	4.01	28.91	5.03	4.37	3.20	4.01	9.65	13.46	15.75	7.87	11.18	6.35	17.53	1.52	3.05	1.52
	17.53	11.76	8.36																
15	21.97	16.56	12.55	4.67	4.09	5.97	5.18	3.73	4.78	9.65	15.75	19.05	11.18	12.70	9.65	22.35	1.52	3.05	1.52
	21.72	15.04	11.02																
20	27.31	21.69	16.31	4.90	4.27	6.96	6.05	3.91	5.56	12.70	19.05	22.35	12.70	14.22	9.65	23.88	1.52	3.05	1.52
	27.05	20.17	14.78																
25	34.04	27.41	21.46	5.69	4.98	7.92	6.93	4.55	6.35	12.70	22.35	26.92	14.22	17.53	12.70	28.45	2.03	4.06	2.03
	33.78	25.88	19.94																
32	42.80	35.81	30.23	6.07	5.28	7.92	6.93	4.85	6.35	12.70	26.92	31.75	17.53	20.57	12.70	30.23	2.03	4.06	2.03
	42.55	34.29	28.70																
40	48.90	41.66	34.75	6.35	5.54	8.92	7.80	5.08	7.14	12.70	31.75	38.10	20.57	25.40	12.70	31.75	2.03	4.06	2.03
	48.64	40.13	33.22																
50	61.37	53.26	43.61	6.93	6.05	10.92	9.50	5.54	8.74	15.75	38.10	41.15	25.40	28.45	19.05	41.15	2.03	4.06	2.03
	61.11	51.74	42.09																
65	74.19	64.24		8.76	7.67			7.01		15.75	41.15		28.45		19.05	42.93	2.54	5.08	2.54
	73.81	61.19																	
80	90.17	79.45		9.53	8.31			7.62		15.75	57.15		31.75		19.05	44.45	2.54	5.08	2.54
	89.79	76.40																	
100	115.82	103.78		10.69	9.35			8.56		19.05	66.55		41.15		19.05	47.75	2.54	5.08	2.54
	115.44	100.74																	

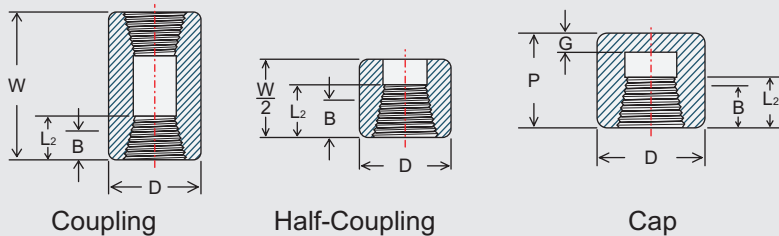
1. Average of Socket Wall Thickness around periphery shall be not less than listed values. the minimum values are permitted in localized areas.
2. Upper and lower values for each size are the respective maximum and minimum dimension.



### STEEL THREADED FITTINGS

Nom. Pipe Size	Center to End Elbows, Tees, Crosses A		Center to End 45° Elbow C		Outside Diameter of Band H		Minimum Wall Thickness G		Length of Thread, Min.*	
	3000 lb	6000 lb	3000 lb	6000 lb	3000 lb	6000 lb	3000 lb	6000 lb	B	L <sub>2</sub>
	3000 lb	6000 lb	3000 lb	6000 lb	3000 lb	6000 lb	3000 lb	6000 lb	B	L <sub>2</sub>
3	20.57	24.64	17.53	19.05	22.35	25.40	3.18	6.35	6.35	6.70
6	24.64	28.45	19.05	22.35	25.40	33.27	3.30	6.60	8.13	10.21
10	28.45	33.27	22.35	25.40	33.27	38.10	3.51	6.99	9.14	10.36
15	33.27	38.10	25.40	28.45	38.10	45.97	4.09	8.15	10.92	13.56
20	38.10	44.45	28.45	33.27	45.97	55.63	4.32	8.53	12.70	13.86
25	44.45	50.80	33.27	35.05	55.63	61.98	4.98	9.93	14.73	17.34
32	50.80	60.45	35.05	42.93	61.98	75.44	5.28	10.59	17.02	17.95
40	60.45	76.20	42.93	45.69	75.44	84.07	5.56	11.07	17.78	17.87
50	63.50	82.55	43.69	52.32	84.07	101.60	7.14	12.09	19.05	19.22
65	82.55	95.25	52.32	63.50	101.60	120.65	7.65	15.29	23.62	28.91
80	95.25	106.43	63.50	79.25	120.65	146.05	8.84	16.64	25.91	30.48
100	114.30	114.30	53.85	79.25	152.40	152.40	11.18	18.67	27.69	33.02

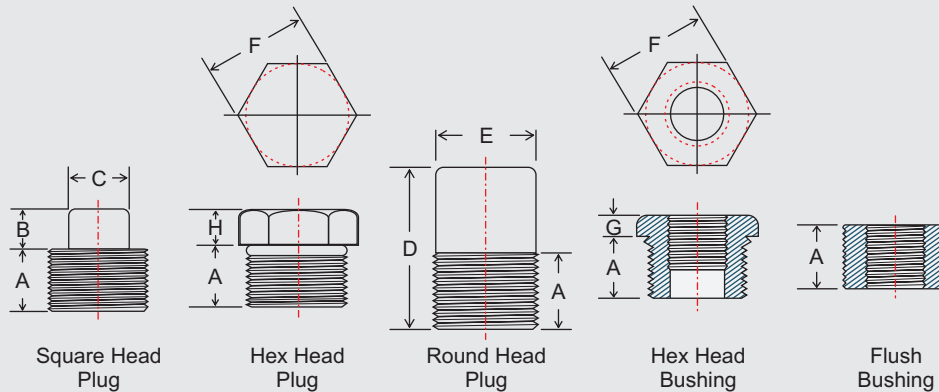
\* Dimension B is minimum length of perfect thread. The length of useful thread (B plus threads with fully formed root and flat crests) shall not be less than L<sub>2</sub> (effective length of external thread) required by American National Standard for Pipe Threads (ANSI B2.1)



### STEEL THREADED FITTINGS

Nom. Pipe Size	End to End Couplings W	End to End Caps P		Outside Diameter D		End Wall Thickness G Min.		Length of Thread, Min.*	
	3000 lb & 6000 lb	3000 lb	6000 lb	3000 lb	6000 lb	3000 lb	6000 lb	B	L <sub>2</sub>
3	31.75	19.05		15.75	22.35	4.83		6.35	6.70
6	35.05	25.40	26.92	19.05	25.40	4.83	6.35	8.13	10.21
10	38.10	25.40	26.92	22.35	31.75	4.83	6.35	9.14	10.36
15	47.75	31.75	33.27	28.45	38.10	6.35	7.87	10.92	13.56
20	50.80	36.58	38.10	35.05	44.45	6.35	7.87	12.70	13.86
25	60.45	41.15	42.93	44.45	57.15	9.65	11.18	14.73	17.34
32	66.55	44.45	45.97	57.15	63.50	9.65	11.18	17.02	17.95
40	79.25	44.45	47.75	63.50	76.20	11.18	12.70	17.78	18.38
50	85.85	47.75	50.80	76.20	91.95	12.70	15.75	19.05	19.22
65	91.95	60.45	63.50	91.95	107.95	15.75	19.05	23.62	28.91
80	107.95	65.02	68.33	107.95	127.00	19.05	22.35	25.91	30.48
100	120.65	68.33	74.68	139.70	158.75	22.35	28.45	27.69	33.02

\* Dimension B is minimum length of perfect thread. The length of useful thread (B plus threads with fully formed root and flat crests) shall not be less than L<sub>2</sub> (effective length of external thread) required by American National Standard for Pipe Threads (ANSI B2.1)



### STEEL THREADED PLUGS & BUSHINGS

Nom. Pipe Size	Thread Length (Minimum) A	Plugs Square Head		Plugs Round Head		Hex Plugs & Bushings		
		Height of Square (Minimum) B	Width Flats (Minimum) C	Nom. Diam. of Head E	Length (Minimum) D	Width Flats (Nominal) F	Hex Height (Min.)	
							Bushing G	Plug H
3	9.65	6.35	7.11	10.41	35.05	11.18		6.35
6	11.18	6.35	9.65	13.46	41.15	15.75	3.05	6.35
10	12.70	7.87	11.18	17.53	41.15	17.53	4.06	7.87
15	14.22	9.65	14.22	21.34	44.45	22.35	4.83	7.87
20	15.75	11.18	15.75	26.92	44.45	26.92	5.59	9.65
25	19.05	12.70	20.57	33.27	50.80	35.05	6.35	9.65
32	20.57	14.22	23.88	42.93	50.80	44.45	7.11	14.22
40	20.57	15.75	28.45	48.51	50.80	50.80	7.87	15.75
50	22.35	17.53	33.27	60.45	63.50	63.50	8.64	17.53
65	26.92	19.05	38.10	73.15	69.85	76.20	9.65	19.05
80	28.45	20.57	42.93	88.90	69.85	88.90	10.41	20.57
100	31.75	25.40	63.50	114.30	76.20	117.35	12.70	31.75

## VENUS FITTINGS & VALVES PVT. LTD.

<b>MUMBAI OFFICE</b> 897/911, John Roberts' Compound, Sewri-Fort Road, Sewri (East), Mumbai 400 015, Maharashtra (India). Phone : (91-22) 2412 3151 / 2412 7006 Fax : (91-22) 2413 5576 E-mail : venusfittings@gmail.com Website : www.venusfittings.com	<b>AHMEDABAD OFFICE</b> 8E, Sumeru Centre, Near Parimal Rly. Crossing, Paldi, Ahmedabad 380 007, Gujarat (India). Phone : (91-79) 2665 0877 / 2665 2754 Fax : (91-79) 2665 0877	<b>WORKS</b> Sub Plot No. 1/2, Natraj Industrial Estate, Village Wasna - Iyawa, Taluka - Sanand, Dist. Ahmedabad 382 110, Gujarat (India). Phone : (91-2717) 284 392	<b>FORGED STEEL THREADED &amp; SOCKET-WELDING FITTINGS</b> ASME-ANSI B16.11 All dimensions are in mm
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