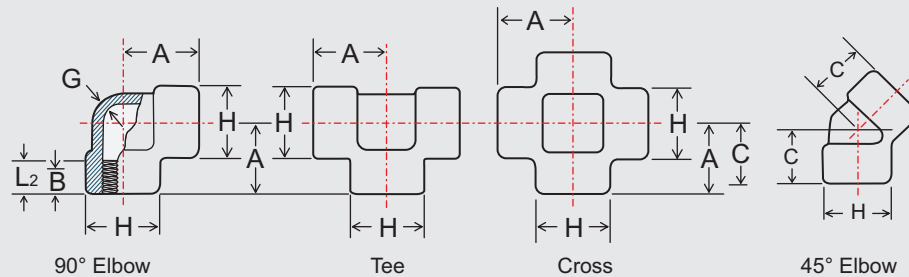


### STEEL SOCKET - WELDING FITTINGS

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					
1/8	0.430	0.299	0.189	0.125	0.125	0.156	0.135	0.095	0.124	0.38	0.44	0.44	0.31	0.31	0.25	0.62	0.03	0.06	0.03
	0.420	0.239	0.126																
1/4	0.565	0.394	0.280	0.149	0.130	0.181	0.158	0.119	0.145	0.38	0.44	0.53	0.31	0.31	0.25	0.62	0.03	0.06	0.03
	0.555	0.334	0.220																
3/8	0.700	0.523	0.389	0.158	1.138	0.198	0.172	0.126	0.158	0.38	0.53	0.62	0.31	0.44	0.25	0.69	0.06	0.12	0.06
	0.690	0.463	0.329																
1/2	0.865	0.652	0.494	0.184	0.161	0.235	0.204	0.147	0.188	0.38	0.62	0.75	0.44	0.50	0.38	0.88	0.06	0.12	0.06
	0.855	0.592	0.434																
3/4	1.075	0.854	0.642	0.193	0.168	0.274	0.238	0.154	0.219	0.50	0.75	0.88	0.50	0.56	0.38	0.94	0.06	0.12	0.06
	1.065	0.794	0.582																
1	1.340	1.079	0.845	0.224	0.196	0.312	0.273	0.179	0.250	0.50	0.88	1.06	0.56	0.69	0.50	1.12	0.08	0.16	0.08
	1.330	1.019	0.785																
1-1/4	1.685	1.410	1.190	0.239	0.208	0.312	0.273	0.191	0.250	0.50	1.06	1.25	0.69	0.81	0.50	1.19	0.08	0.16	0.08
	1.675	1.350	1.130																
1-1/2	1.925	1.640	1.368	0.250	0.218	0.351	0.307	0.200	0.281	0.50	1.25	1.50	0.81	1.00	0.50	1.25	0.08	0.16	0.08
	1.915	1.580	1.308																
2	2.416	2.097	1.717	0.273	0.238	0.430	0.374	0.218	0.344	0.62	1.50	1.62	1.00	1.12	0.75	1.62	0.08	0.16	0.08
	2.406	2.037	1.657																
2-1/2	2.921	2.529		0.345	0.302			0.276		0.62	1.62		1.12		0.75	1.69	0.10	0.20	0.10
	2.906	2.409																	
3	3.550	3.128		0.375	0.327			0.300		0.62	2.25		1.25		0.75	1.75	0.10	0.20	0.10
	3.535	3.008																	
4	4.560	4.086		0.421	0.368			0.337		0.75	2.62		1.62		0.75	1.88	0.10	0.20	0.10
	4.545	3.966																	

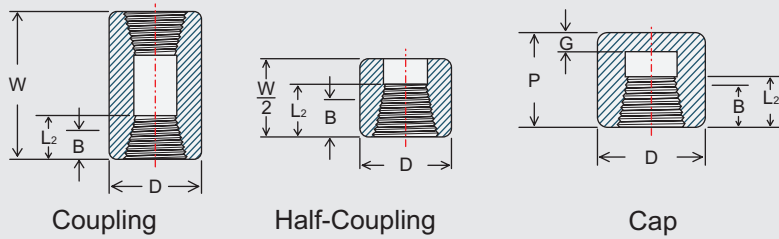
1. Average of Socket Wall Thickness around periphery shall be not less than listed values. the minimum values are permitted in localized areas.
2. Upper and lower values for each size are the respective maximum and minimum dimension.



### 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>
	1/8	0.81	0.97	0.69	0.75	0.88	1.00	0.125	0.250	0.25
1/4	0.97	1.12	0.75	0.88	1.00	1.31	0.130	0.260	0.32	0.4018
3/8	1.12	1.31	0.88	1.00	1.31	1.50	0.138	0.275	0.36	0.4078
1/2	1.31	1.50	1.00	1.12	1.50	1.81	0.161	0.321	0.43	0.5337
3/4	1.50	1.75	1.12	1.31	1.81	2.19	0.170	0.336	0.50	0.5457
1	1.75	2.00	1.31	1.38	2.19	2.44	0.196	0.391	0.58	0.6828
1-1/4	2.00	2.38	1.38	1.69	2.44	2.97	0.208	0.417	0.67	0.7068
1-1/2	2.38	3.00	1.69	1.72	2.97	3.31	0.219	0.436	0.70	0.7235
2	2.50	3.25	1.72	2.06	3.31	4.00	0.281	0.476	0.75	0.7565
2-1/2	3.25	3.75	2.06	2.50	4.00	4.75	0.301	0.602	0.93	1.138
3	3.75	4.19	2.50	3.12	4.75	5.75	0.348	0.655	1.02	1.200
4	4.50	4.50	3.12	3.12	6.00	6.00	0.440	0.735	1.09	1.300

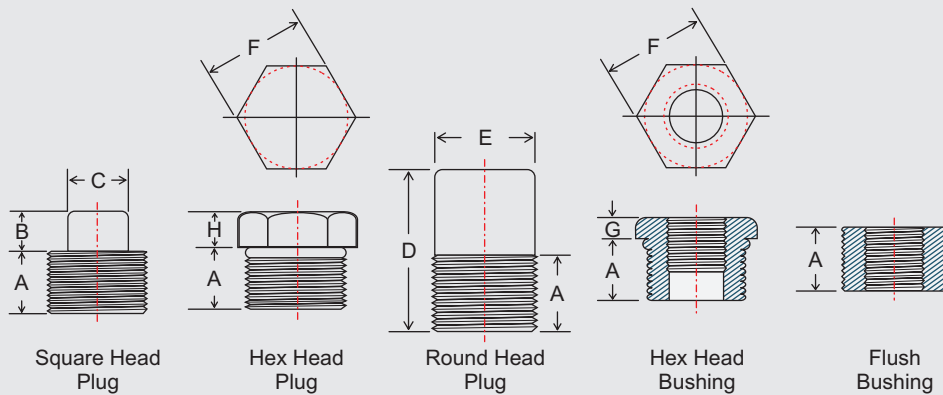
\* Dimension B is minimum length of perfect thread. The length of useful thread (B plus threads with fully formed root and flat crests) shall not be less than L<sub>2</sub> (effective length of external thread) required by American National Standard for Pipe Threads (ANSI B2.1)



**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>
1/8	1.25	0.75		0.62	0.88	0.19		0.25	0.2639
1/4	1.38	1.00	1.06	0.75	1.00	0.19	0.25	0.32	0.4018
3/8	1.50	1.00	1.06	0.88	1.25	0.19	0.25	0.36	0.4078
1/2	1.88	1.25	1.31	1.12	1.50	0.25	0.31	0.43	0.5337
3/4	2.00	1.44	1.50	1.38	1.75	0.25	0.31	0.50	0.5457
1	2.38	1.62	1.69	1.75	2.25	0.38	0.44	0.58	0.6828
1-1/4	2.62	1.75	1.81	2.25	2.50	0.38	0.44	0.67	0.7068
1-1/2	3.12	1.75	1.88	2.50	3.00	0.44	0.50	0.70	0.7235
2	3.38	1.88	2.00	3.00	3.62	0.50	0.62	0.75	0.7565
2-1/2	3.62	2.38	2.50	3.62	4.25	0.62	0.75	0.93	1.138
3	4.25	2.56	2.69	4.25	5.00	0.75	0.88	1.02	1.200
4	4.75	2.69	2.94	5.50	6.25	0.88	1.12	1.09	1.300

\* 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
1/8	0.38	0.25	0.28	0.41	1.38	0.44		0.25
1/4	0.44	0.25	0.38	0.53	1.62	0.62	0.12	0.25
3/8	0.50	0.31	0.44	0.69	1.62	0.69	0.16	0.31
1/2	0.56	0.38	0.56	0.84	1.75	0.88	0.19	0.31
3/4	0.62	0.44	0.62	1.06	1.75	1.06	0.22	0.38
1	0.75	0.50	0.81	1.31	2.00	1.38	0.25	0.38
1-1/4	0.81	0.56	0.94	1.69	2.00	1.75	0.28	0.56
1-1/2	0.81	0.62	1.12	1.91	2.00	2.00	0.31	0.62
2	0.88	0.69	1.31	2.38	2.50	2.50	0.34	0.69
2-1/2	1.06	0.75	1.50	2.88	2.75	3.00	0.38	0.75
3	1.12	0.81	1.69	3.50	2.75	3.50	0.41	0.81
4	1.25	1.00	2.50	4.50	3.00	4.62	0.50	1.25

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