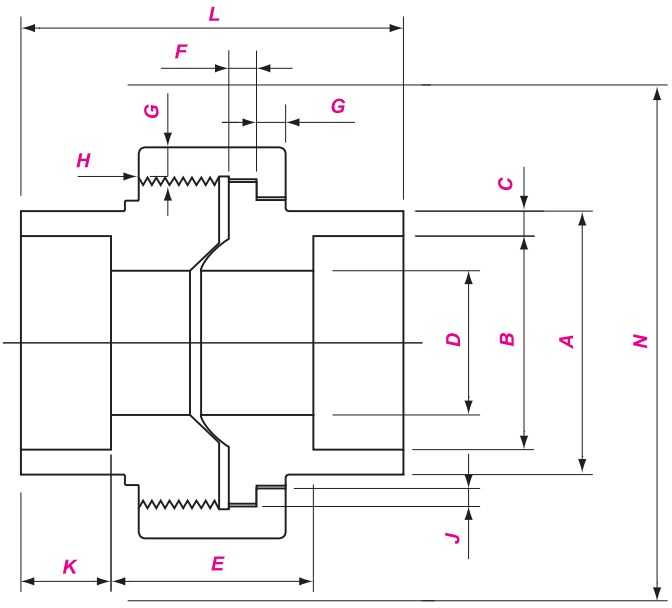
UNIONS

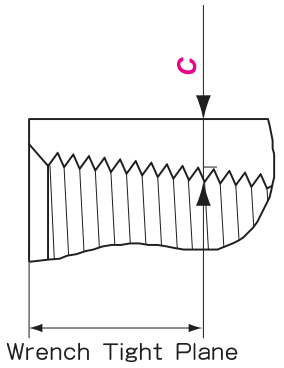


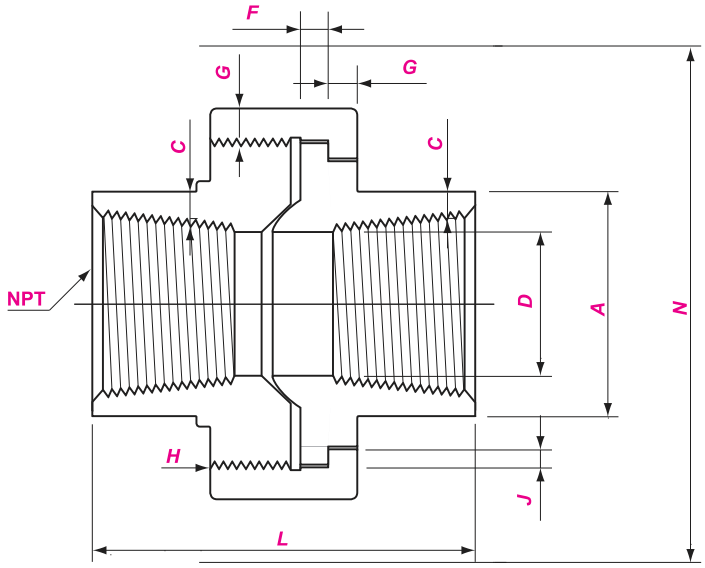
Class 3000 Socket Weld Union

MSS SP-83

Nominal Size		Pipe End	Socket Bore Dia.	Socket Wall	Water Way Bore	Laying Length	Male Flange	Nut	THD Per Inch	Bearing	Depth of Socket	Length Assem	Clear Assem. Nut
DN	NPS	A_{min}	B	C_{min}	D	E	F_{min}	G_{min}	H	J_{min}	K_{min}	L_{nom}	N
6	1/8	21.8	10.9	3.2	6.1	20.7	3.2	3.2	16	1.2	9.7	41.4	51
8	1/4	21.8	14.3	3.3	8.5	20.7	3.2	3.2	16	1.2	9.7	41.4	51
10	3/8	25.9	17.7	3.5	11.8	23.8	3.4	3.4	14	1.4	9.7	46.0	56
15	1/2	31.2	21.9	4.1	15.0	23.8	3.7	3.7	14	1.5	9.7	49.0	59
20	3/4	37.1	27.3	4.3	20.2	28.6	4.1	4.1	11	1.7	12.7	56.9	66
25	1	45.5	34.0	5.0	25.9	30.2	4.6	4.4	11	1.9	12.7	62.0	79
32	1¼	54.9	42.8	5.3	34.3	36.6	5.3	5.2	10	2.1	12.7	71.1	94
40	1½	61.5	48.9	5.5	40.1	38.1	5.8	5.6	10	2.3	12.7	76.5	112
50	2	75.2	61.2	6.0	51.7	41.4	6.6	6.4	10	2.7	15.7	86.1	132
65	2½	91.7	73.9	7.7	61.2	56.9	7.5	7.1	8	3.1	15.7	102.4	150
80	3	109.2	89.9	8.3	76.4	58.7	8.3	8.0	8	3.5	15.7	109.0	176

Note:
1) *H* is the number of threads per inch with the min. of 4 tighting turns, and the female and male thread herein shall be machined per ASME B1.1 2A/2B.





Class 3000 Threaded Union

MSS SP-83

Nominal Size		Pipe End	Wall	Bore	Male Flange	Nut	THRD Per Inch	Bearing	Length Assem	Clear Assem. Nut
DN	NPS	A_{min}	C_{min}	D	F_{min}	G_{min}	H	J_{min}	L_{nom}	N
6	1/8	14.7	2.4	8.4 6.4	3.2	3.2	16	1.2	41.4	51
8	1/4	19.1	3.0	11.1 9.4	3.2	3.2	16	1.2	41.4	51
10	3/8	22.9	3.2	14.3 13.5	3.4	3.4	14	1.4	46.0	56
15	1/2	27.7	3.7	17.9 17.1	3.7	3.7	14	1.5	49.0	59
20	3/4	33.5	3.9	23.0 21.4	4.1	4.1	11	1.7	56.9	66
25	1	41.4	4.5	29.0 27.7	4.6	4.4	11	1.9	62.0	79
32	1¼	50.5	4.9	37.7 35.4	5.3	5.2	10	2.1	71.1	94
40	1½	57.2	5.1	43.5 41.2	5.8	5.6	10	2.3	76.5	112
50	2	70.1	5.5	55.6 52.1	6.6	6.4	10	2.7	86.1	132
65	2½	85.3	7.0	66.3 64.3	7.5	7.1	8	3.1	102.4	150
80	3	102.4	7.6	82.6 77.3	8.3	8.0	8	3.5	109.0	176