MSS-SP-83 Union Dimensions

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Specification For MSS SP 83 Standard PDF

MSS SP-83 Standard Specification

Standard MSS SP-83	Size 1/8” To 3”	Pressure Class Class 3000
End Socket Welding Threaded	Raw Material Seamless Pipe Welded Pipe Round Bar	Types Union
Service Temperature 100 Deg F To 1000 Deg F	Process Method Forged CNC Machined	Material F304/ 304L F316/ F316L ASTM A105
Threads NPT, NPSC BSPT, BSPP	Connection Male & Female	Forming Hot Formed Cold Formed

MSS-SP-83 Threaded Union Available Size Range From 1/8" To 3"

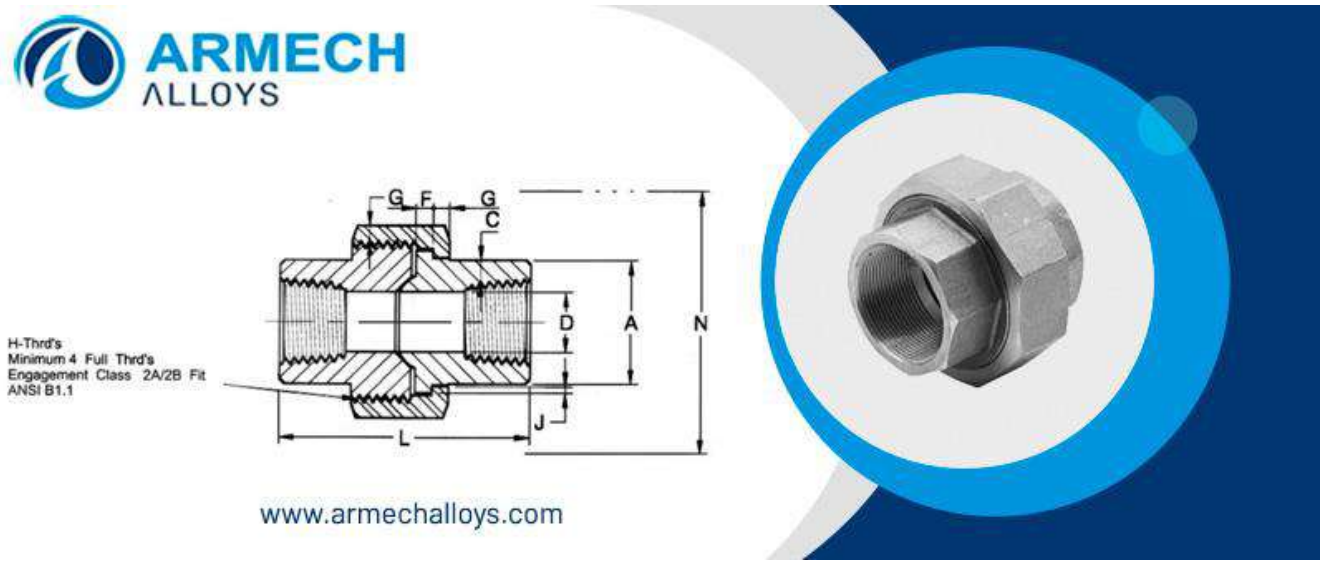
MSS SP 83 Union Price List

- Class: 3000 PSI
- Material: F304
- Threads: NPT

Size	Price in US (Dollar)	Price in UAE (Dirham)	Price in Saudi Riyal (Saudi Arabia)	Price in Philippine Peso (Philippines)
1/8	US $7.53	AED 27.66	SAR 28.26	PHP 424.77
1/4	US $7.53	AED 27.66	SAR 28.26	PHP 424.77
3/8	US $8.71	AED 31.99	SAR 32.69	PHP 491.34
1/2	US $9.52	AED 34.97	SAR 35.73	PHP 537.03
3/4	US $11.32	AED 41.58	SAR 42.49	PHP 638.57
1	US $18.10	AED 66.48	SAR 67.93	PHP 1021.04
1-1/4	US $24.18	AED 88.81	SAR 90.75	PHP 1364.02
1-1/2	US $29.42	AED 108.06	SAR 110.42	PHP 1659.61
2	US $37.82	AED 138.91	SAR 141.95	PHP 2133.46
2-1/2	US $67.83	AED 249.14	SAR 254.59	PHP 3826.36
3	US $87.98	AED 323.15	SAR 330.21	PHP 4963.04
4	US $103.28	AED 379.35	SAR 387.64	PHP 5826.13

MSS SP 83 Dimensions in Threaded & Socket Welding

MSS-SP-83 Union Dimensions



NPS	Length	Threads	Bearing	Male Flange	Wall	Water Way Bore	Water Way Bore)	Nut	End Of Pipe
Inch	(L)	(H)	(J)	(F)	(C)	(D1)	(D2)	(G)	(A)
1/8	41.4	16	1.24	3.18	2.41	8.43	6.43	3.18	14.7
1/4	41.4	16	1.24	3.18	3.02	11.13	9.45	3.18	19
3/8	46	14	1.37	3.43	3.2	14.27	13.51	3.43	22.9
1/2	49	14	1.5	3.68	3.73	17.86	17.07	3.68	27.7
3/4	56.9	11	1.68	4.06	3.91	23.01	21.39	4.06	33.5

NPS	Length	Threads	Bearing	Male Flange	Wall	Water Way Bore	Water Way Bore)	Nut	End Of Pipe
1	62	11	1.85	4.57	4.55	28.98	27.74	4.45	41.4
1-1/4	71.1	11	2.13	5.33	4.85	37.69	35.36	5.21	50.5
1-1/2	76.5	10	2.31	5.84	5.08	43.54	41.2	5.59	57.2
2	86.1	10	2.69	6.6	5.54	55.58	52.12	6.35	70.1
2-1/2	102.4	8	3.07	7.49	7.01	66.27	64.31	7.11	85.3
3	109	8	3.53	8.26	7.62	88.25	77.27	8	102.4

MSS SP-83 Class 3000 Unions Temperature Service Rating in Grade ASTM A182 F304, F316, and ASTM A105

Temperature Rating of MSS SP-83 Class 3000 Union

Temperature Service Rating	ASTM A182 F304	ASTM A182 F316	ASTM A 105
100°F	2915	2915	3000
200°F	2430	2510	2735
300°F	2140	2265	2655
400°F	1905	2080	2565
500°F	1770	1935	2425
600°F	1680	1830	2220
700°F	1630	1750	2155
800°F	1595	1680	-
900°F	1555	1595	-
1000°F	1300	1470	-

Three Parts of SP 83 Union

- Male End
- Female End
- Nut

Check MSS SP-83 Socket Welding Union Weight Chart

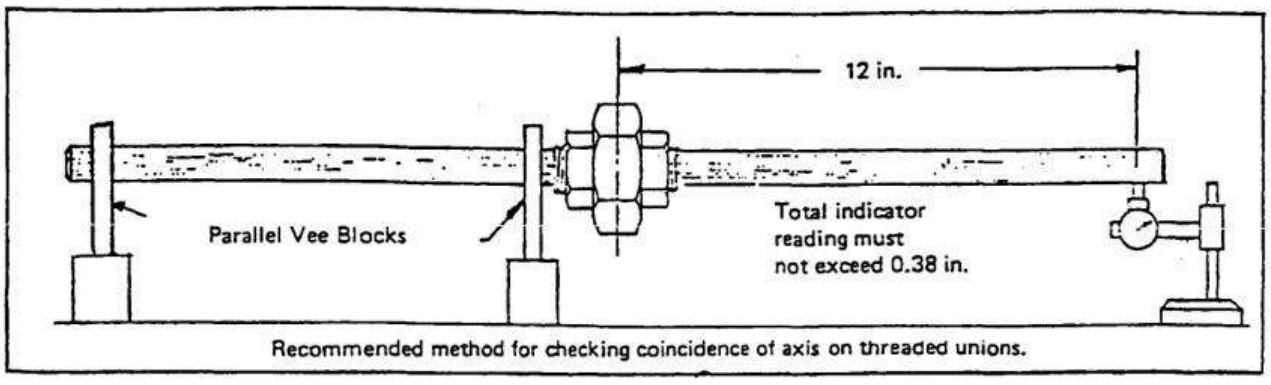
MSS SP 83 Threaded Union Weight

Size	3000# (KG)
DN6	0.25
DN8	0.3
DN10	0.35
DN15	0.46
DN20	0.61
DN25	0.85
DN32	1.35
DN40	0.92
DN50	2.85
DN65	4.9
DN80	7.1

MSS SP 83 Socket Welding Union Weight

Size	3000# (KG)
DN6	0.06
DN8	0.06
DN10	0.08
DN15	0.14
DN20	0.2
DN25	0.28
DN32	0.48
DN40	0.52
DN50	1
DN65	1.6
DN80	1.8

Recommended Method for Checking Coincidence of Axis on MSS SP-83 Union



Recommended method for checking coincidence of axis on threaded unions.