

DIMENSIONAL STANDARD · MSS SP-75

MSS SP-75 High-Test Fitting Dimensions

MSS SP-75 WPHY high-test butt-weld elbow, tee, reducer and cap dimensions, NPS 16–60, in mm.

This chart gives **MSS SP-75** high-test (WPHY 42–70) butt-weld fitting dimensions in millimetres for NPS 16 to 60 — elbows, tees, caps and reducers for high-yield pipeline service.

Teshi Group manufactures MSS SP-75 WPHY fittings in India.

- A** 90° elbow centre to end
- B** 45° elbow centre to end
- C** Tee centre to end of run
- M** Tee centre to end of outlet
- H** Cap length / reducer end to end

MSS SP-75 elbows (mm)

NPS	DN	OD Pipe OD	A 90° centre to end	B 45° centre to end
16	400	406.4	610	254
18	450	457	686	286
20	500	508	762	318
22	550	559	838	343
24	600	610	914	381
26	650	660	991	406
28	700	711	1067	438
30	750	762	1143	470
32	800	813	1219	502
34	850	864	1295	533
36	900	914	1372	565
38	950	965	1448	600
40	1000	1016	1524	632
42	1050	1067	1600	660
44	1100	1118	1676	695
46	1150	1168	1753	727
48	1200	1219	1829	759
50	1250	1270	1905	787
52	1300	1321	1981	819
54	1350	1372	2057	851
56	1400	1422	2134	883
58	1450	1473	2210	914

NPS	DN	OD Pipe OD	A 90° centre to end	B 45° centre to end
60	1500	1524	2286	946

MSS SP-75 tees (mm)

NPS	DN	OD Pipe OD	C Centre to end run	M Centre to end outlet
16	400	406.4	305	305
18	450	457	343	343
20	500	508	381	381
22	550	559	419	419
24	600	610	432	432
26	650	660	495	495
28	700	711	521	521
30	750	762	559	559
32	800	813	597	597
34	850	864	635	635
36	900	914	673	673
38	950	965	711	711
40	1000	1016	749	749
42	1050	1067	762	711
44	1100	1118	813	762
46	1150	1168	851	800
48	1200	1219	889	838
50	1250	1270	934	876
52	1300	1321	978	908
54	1350	1372	1016	946
56	1400	1422	1054	978
58	1450	1473	1092	1016
60	1500	1524	1118	1054

MSS SP-75 caps (mm)

NPS	DN	OD Pipe OD	H Length	H* Length, t > 1.0 in
16	400	406.4	178	203
18	450	457	203	229
20	500	508	229	254
22	550	559	254	279

NPS	DN	OD Pipe OD	H Length	H* Length, t > 1.0 in
24	600	610	267	305
26	650	660	267	305
28	700	711	267	305
30	750	762	267	305
32	800	813	267	305
34	850	864	267	305
36	900	914	267	305
38	950	965	305	343
40	1000	1016	305	343
42	1050	1067	305	343
44	1100	1118	343	381
46	1150	1168	343	381
48	1200	1219	343	381
50	1250	1270	368	406
52	1300	1321	368	406
54	1350	1372	406	445
56	1400	1422	406	445
58	1450	1473	419	457
60	1500	1524	419	457

MSS SP-75 reducers (mm)

NPS Large × small	OD Large-end OD	H End to end
16 × 14	406.4	356
16 × 12	406.4	356
16 × 10	406.4	356
16 × 8	406.4	356
18 × 16	457.2	381
18 × 14	457.2	381
18 × 12	457.2	381
18 × 10	457.2	381
20 × 18	508	508
20 × 16	508	508
20 × 14	508	508
20 × 12	508	508
22 × 20	558.8	508

NPS Large × small	OD Large-end OD	H End to end
22 × 18	558.8	508
22 × 16	558.8	508
22 × 14	558.8	508
24 × 22	609.6	508
24 × 20	609.6	508
24 × 18	609.6	508
24 × 16	609.6	508
26 × 24	660	610
26 × 22	660	610
26 × 20	660	610
26 × 18	660	610
28 × 26	711	610
28 × 24	711	610
28 × 22	711	610
28 × 20	711	610
28 × 18	711	610
30 × 28	762	610
30 × 26	762	610
30 × 24	762	610
30 × 22	762	610
30 × 20	762	610
32 × 30	813	610
32 × 28	813	610
32 × 26	813	610
32 × 24	813	610
34 × 32	864	610
34 × 30	864	610
34 × 28	864	610
34 × 26	864	610
34 × 24	864	610
36 × 34	914	610
36 × 32	914	610
36 × 30	914	610
36 × 28	914	610
36 × 26	914	610

NPS Large × small	OD Large-end OD	H End to end
36 × 24	914	610
38 × 36	965	610
38 × 34	965	610
38 × 32	965	610
38 × 30	965	610
38 × 28	965	610
38 × 26	965	610
38 × 24	965	610
38 × 22	965	610
38 × 20	965	610
40 × 38	1016	610
40 × 36	1016	610
40 × 34	1016	610
40 × 32	1016	610
40 × 30	1016	610
40 × 28	1016	610
40 × 26	1016	610
40 × 24	1016	610
40 × 22	1016	610
40 × 20	1016	610
42 × 40	1067	610
42 × 38	1067	610
42 × 36	1067	610
42 × 34	1067	610
42 × 32	1067	610
42 × 30	1067	610
42 × 28	1067	610
42 × 26	1067	610
42 × 24	1067	610
42 × 22	1067	610
44 × 42	1118	610
44 × 40	1118	610
44 × 38	1118	610
44 × 36	1118	610
44 × 34	1118	610

NPS Large × small	OD Large-end OD	H End to end
44 × 32	1118	610
44 × 30	1118	610
44 × 28	1118	610
44 × 26	1118	610
44 × 24	1118	610
44 × 22	1118	610
46 × 44	1168	711
46 × 42	1168	711
46 × 40	1168	711
46 × 38	1168	711
46 × 36	1168	711
46 × 34	1168	711
46 × 32	1168	711
46 × 30	1168	711
46 × 28	1168	711
46 × 26	1168	711
46 × 24	1168	711
48 × 46	1219	711
48 × 44	1219	711
48 × 42	1219	711
48 × 40	1219	711
48 × 38	1219	711
48 × 36	1219	711
48 × 34	1219	711
48 × 32	1219	711
48 × 30	1219	711
48 × 28	1219	711
48 × 26	1219	711
48 × 24	1219	711
50 × 48	1270	711
50 × 42	1270	711
50 × 36	1270	711
50 × 30	1270	711
50 × 24	1270	711
50 × 20	1270	711

NPS Large × small	OD Large-end OD	H End to end
52 × 50	1321	711
52 × 48	1321	711
52 × 42	1321	711
52 × 36	1321	711
52 × 30	1321	711
52 × 24	1321	711
54 × 52	1372	711
54 × 48	1372	711
54 × 42	1372	711
54 × 36	1372	711
54 × 30	1372	711
54 × 24	1372	711
56 × 54	1422	711
56 × 48	1422	711
56 × 42	1422	711
56 × 36	1422	711
56 × 30	1422	711
56 × 24	1422	711
58 × 56	1473	711
58 × 54	1473	711
58 × 48	1473	711
58 × 42	1473	711
58 × 36	1473	711
58 × 30	1473	711
60 × 58	1524	711
60 × 54	1524	711
60 × 48	1524	711
60 × 42	1524	711
60 × 36	1524	711
60 × 30	1524	711

Notes

- All dimensions are in millimetres.
- Centre-to-end dimensions follow ASME B16.9 for the same size.
- Values are nominal, compiled from published copies of the standard; blank cells (—) are values not confirmed from the sources available. Verify against the current edition before design, purchase or fabrication.

Reference information compiled from the published standard for convenience. It does not replace the current edition of the governing standard, which takes precedence. Verify critical dimensions before design, purchase or fabrication. Teshi Engineers & Sales Promoters (P) Ltd accepts no liability for errors or omissions. Online version: <https://teshigroup.com/dimensional-standards/mss-sp-75-fitting-dimensions/>

