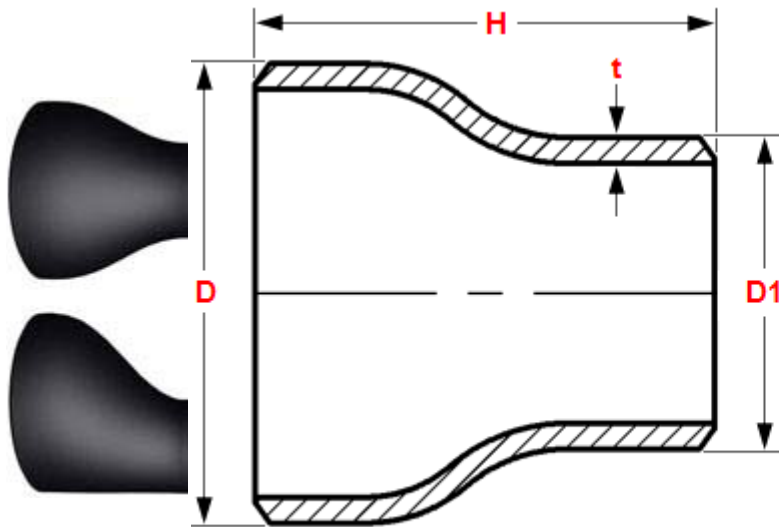
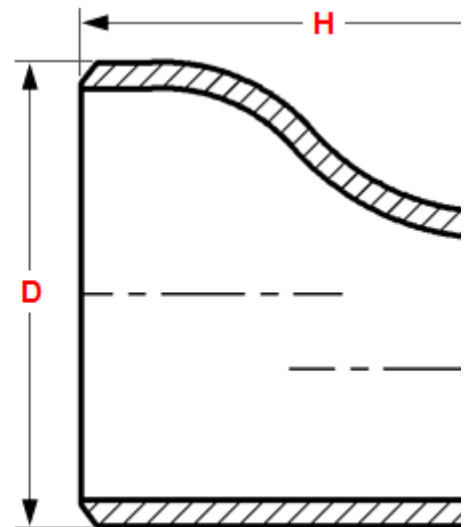


DIMENSIONS REDUCERS CONCENTRIC AND ECCENTRIC ACCORDING TO ASME B16.9

NPS	O.D. D	O.D. D1	Length H
3/4 x 1/2	26.7	21.3	38
1 x 1/2	33.4	21.3	51
1 x 3/4	33.4	26.7	51
1 1/4 x 1/2	42.2	21.3	51
1 1/4 x 3/4	42.2	26.7	51
1 1/4 x 1	42.2	33.4	51
1 1/2 x 1/2	48.3	21.3	64
1 1/2 x 3/4	48.3	26.7	64
1 1/2 x 1	48.3	33.4	64
1 1/2 x 1 1/4	48.3	42.2	64
2 x 3/4	60.3	26.7	76
2 x 1	60.3	33.4	76
2 x 1 1/4	60.3	42.2	76
2 x 1 1/2	60.3	48.3	76

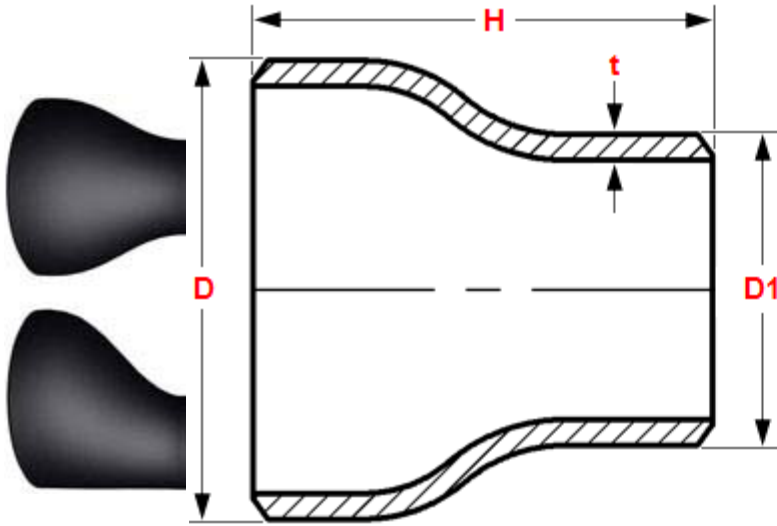


Reducer concentric

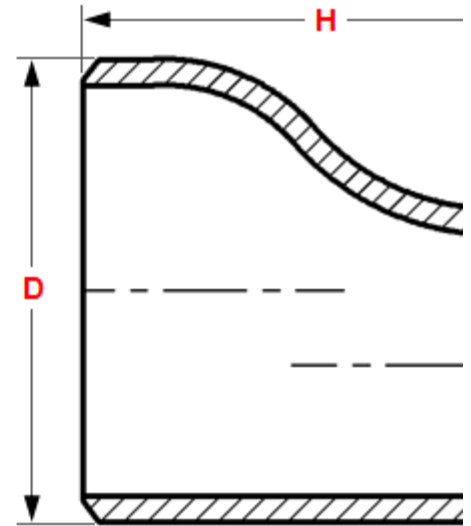


Reducer eccentric

NPS	O.D. D	O.D. D1	Length H
2 1/2 x 1	73	33.4	89
2 1/2 x 1 1/4	73	42.2	89
2 1/2 x 1 1/2	73	48.3	89
2 1/2 x 2	73	60.3	89
3 x 1 1/4	88.9	42.2	89
3 x 1 1/2	88.9	48.3	89
3 x 2	88.9	60.3	89
3 x 2 1/2	88.9	73	89
3 1/2 x 1 1/4	101.6	42.2	102
3 1/2 x 1 1/2	101.6	48.3	102
3 1/2 x 2	101.6	60.3	102
3 1/2 x 2 1/2	101.6	73	102
3 1/2 x 3	101.6	88.9	102
NPS	O.D. D	O.D. D1	Length H
4 x 1 1/2	114.3	48.3	102
4 x 2	114.3	60.3	102
4 x 2 1/2	114.3	73	102
4 x 3	114.3	88.9	102
4 x 3 1/2	114.3	101.6	102
5 x 2	141.3	60.3	127
5 x 2 1/2	141.3	73	127
5 x 3	141.3	88.9	127
5 x 3 1/2	141.3	101.6	127
5 x 4	141.3	114.3	127
6 x 2 1/2	168.3	73	140
6 x 3	168.3	88.9	140
6 x 3 1/2	168.3	101.6	140
6 x 4	168.3	114.3	140
6 x 5	168.3	141.3	140

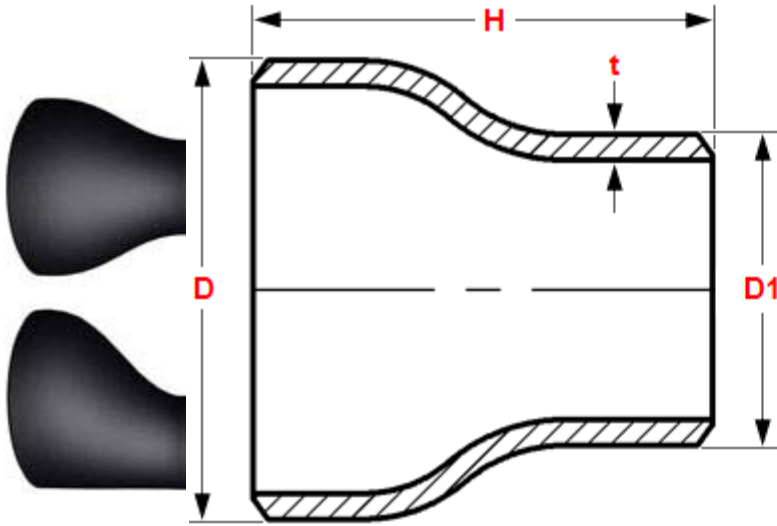


Reducer concentric

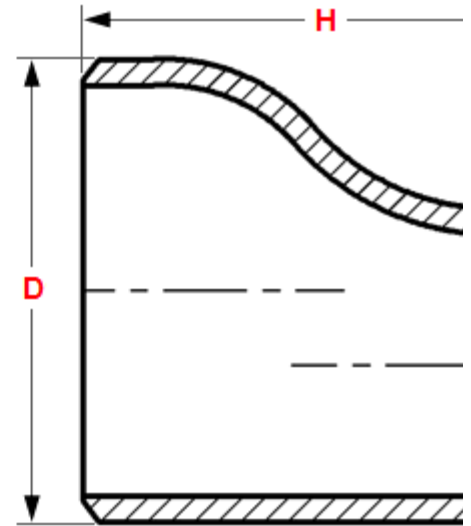


Reducer eccentric

NPS	O.D. D	O.D. D1	Length H
8 x 3 1/2	219.1	101.6	152
8 x 4	219.1	114.3	152
8 x 5	219.1	141.3	152
8 x 6	219.1	168.3	152
10 x 4	273	114.3	178
10 x 5	273	141.3	178
10 x 6	273	168.3	178
10 x 8	273	219.1	178
12 x 5	323.9	141.3	203
12 x 6	323.9	168.3	203
12 x 8	323.9	219.1	203
12 x 10	323.9	273	203
14 x 6	355.6	168.3	330
14 x 8	355.6	219.1	330
14 x 10	355.6	273	330
14 x 12	355.6	323.9	330
NPS	O.D. D	O.D. D1	Length H
16 x 8	406.4	219	356
16 x 10	406.4	273	356
16 x 12	406.4	323.9	356
16 x 14	406.4	355.6	356
18 x 10	457	273	381
18 x 12	457	323.9	381
18 x 14	457	355.6	381
18 x 16	457	406.4	381
20 x 12	508	323.9	508
20 x 14	508	355.6	508
20 x 16	508	406.4	508
20 x 18	508	457	508
22 x 14	559	355.6	508
22 x 16	559	406.4	508
22 x 18	559	457	508
22 x 20	559	508	508

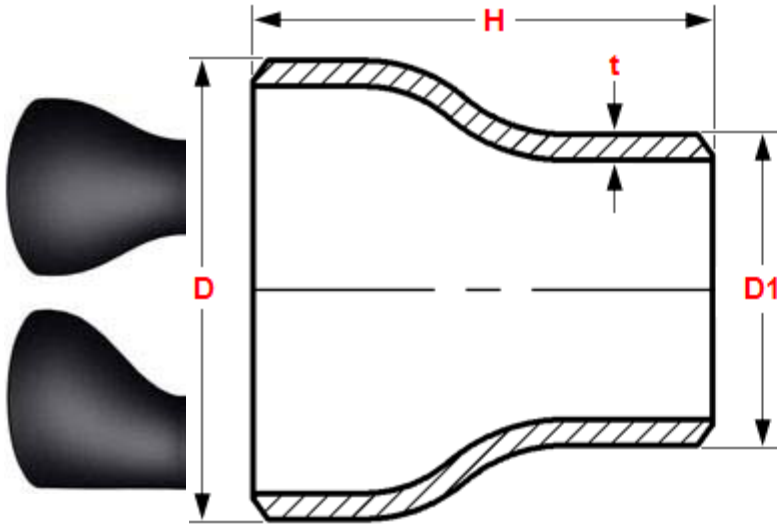


Reducer concentric

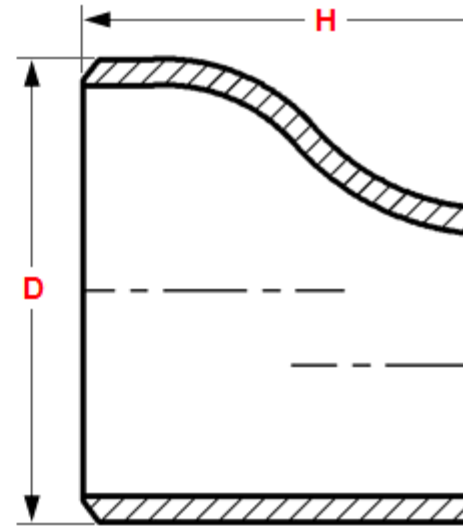


Reducer eccentric

NPS	O.D. D	O.D. D1	Length H
24 x 16	610	406.4	508
24 x 18	610	457	508
24 x 20	610	508	508
24 x 22	610	559	508
26 x 18	660	457	610
26 x 20	660	508	610
26 x 22	660	559	610
26 x 24	660	610	610
28 x 18	711	457	610
28 x 20	711	508	610
28 x 24	711	610	610
28 x 26	711	660	610
30 x 20	762	508	610
30 x 24	762	610	610
30 x 26	762	660	610
30 x 28	762	711	610
32 x 24	813	610	610
32 x 26	813	660	610
32 x 28	813	711	610
32 x 30	813	762	610
NPS	O.D. D	O.D. D1	Length H
34 x 24	864	610	610
34 x 26	864	660	610
34 x 30	864	762	610
34 x 32	864	813	610
36 x 24	914	610	610
36 x 26	914	660	610
36 x 30	914	762	610
36 x 32	914	813	610
36 x 34	914	864	610
38 x 26	965	660	610
38 x 28	965	711	610
38 x 30	965	762	610
38 x 32	965	813	610
38 x 34	965	864	610
38 x 36	965	914	610
40 x 30	1016	762	610
40 x 32	1016	813	610
40 x 34	1016	864	610
40 x 36	1016	914	610
40 x 38	1016	965	610



Reducer concentric



Reducer eccentric

NPS	O.D. D	O.D. D1	Length H
42 x 30	1067	762	610
42 x 32	1067	813	610
42 x 34	1067	864	610
42 x 36	1067	914	610
42 x 38	1067	965	610
42 x 40	1067	1016	610
44 x 36	1118	914	610
44 x 38	1118	965	610
44 x 40	1118	1016	610
44 x 42	1118	1067	610
46 x 38	1168	965	711
46 x 40	1168	1016	711
46 x 42	1168	1067	711
46 x 44	1168	1118	711
48 x 40	1219	1016	711
48 x 42	1219	1067	711
48 x 44	1219	1118	711
48 x 46	1219	1168	711

Dimensions are in millimeters unless otherwise indicated. Wall thickness (t) must be specified by customer.

DIMENSIONAL TOLERANCES OF CONCENTRIC AND ECCENTRIC REDUCERS ASME B16.9

Nominal Pipe Size	1/2 to 2½	3 to 3½	4	5 to 8	10 to 18	20 to 24	26 to 30	32 to 48
Outside Diameter at Bevel (D)	+ 1.6 - 0.8	1.6	1.6	+ 2.4 - 1.6	+ 4 - 3.2	+ 6.4 - 4.8	+ 6.4 - 4.8	+ 6.4 - 4.8
Inside Diameter at End	0.8	1.6	1.6	1.6	3.2	4.8	+ 6.4 - 4.8	+ 6.4 - 4.8
Overall Length (H)	2	2	2	2	2	2	5	5
Wall Thickness (t)	Not less than 87.5% of Nominal Wall Thickness							

Dimensional tolerances are in millimeters unless otherwise indicated and are equal ± except as noted.

Note:

MSS SP-43 only covers stainless steel buttweld fittings made for use with Schedule 5S and 10S pipe and Stub Ends suitable for use with Schedule 40S pipe, as defined in ASME B36.19M. The dimensions and dimensional tolerances defined in MSS SP-43 are substantially the same as those in ASME B16.9 specifications from NPS 1/2 up to NPS 24. Except with regard to the outside diameter at the bevel.