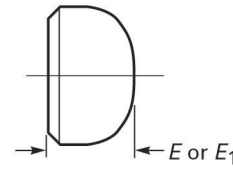


Dimensions of Caps



Nominal Pipe Size (NPS)	Outside Diameter at Bevel	Length, E [Note (1)]	Limiting Wall Thickness for Length, E	Length, E ₁ [Note (2)]
1/2	21.3	25	4.57	25
3/4	26.7	25	3.81	25
1	33.4	38	4.57	38
1 1/4	42.2	38	4.83	38
1 1/2	48.3	38	5.08	38
2	60.3	38	5.59	44
2 1/2	73.0	38	7.11	51
3	88.9	51	7.62	64
3 1/2	101.6	64	8.13	76
4	114.3	64	8.64	76
5	141.3	76	9.65	89
6	168.3	89	10.92	102
8	219.1	102	12.70	127
10	273.0	127	12.70	152
12	323.8	152	12.70	178
14	355.6	165	12.70	191
16	406.4	178	12.70	203
18	457.0	203	12.70	229
20	508.0	229	12.70	254
22	559.0	254	12.70	254
24	610.0	267	12.70	305
26	660.0	267	...	...
28	711.0	267	...	...
30	762.0	267	...	...
32	813.0	267	...	...
34	864.0	267	...	...
36	914.0	267	...	...
38	965.0	305	...	...
40	1 016.0	305	...	...
42	1 067.0	305	...	...
44	1 118.0	343	...	...
46	1 168.0	343	...	...
48	1 219.0	343	...	...

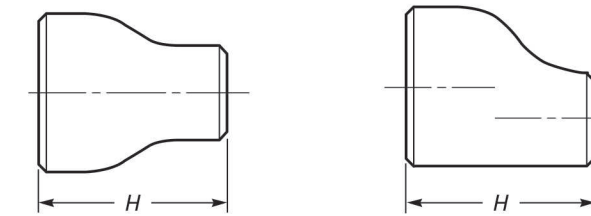
GENERAL NOTES:

- (a) All dimensions are in millimeters.
- (b) The shape of these caps shall be ellipsoidal and shall conform to the requirements given in the ASME Boiler and Pressure Vessel Code.

NOTES:

- (1) Length E applies for thickness not exceeding that given in column "Limiting Wall Thickness for Length, E."
- (2) Length E₁ applies for thickness greater than that given in column "Limiting Wall Thickness" for NPS 24 and smaller. For NPS 26 and larger, length E₁ shall be by agreement between the manufacturer and purchaser.

Dimensions of Reducers



Nominal Pipe Size (NPS)	Outside Diameter at Bevel		End-to-End, H	Nominal Pipe Size (NPS)	Outside Diameter at Bevel		End-to-End, H
	Large End	Small End			Large End	Small End	
3/4 x 1/2	26.7	21.3	38	5 x 4	141.3	114.3	127
3/4 x 3/8	26.7	17.3	38	5 x 3 1/2	141.3	101.6	127
1 x 3/4	33.4	26.7	51	5 x 3	141.3	88.9	127
1 x 1/2	33.4	21.3	51	5 x 2 1/2	141.3	73.0	127
				5 x 2	141.3	60.3	127
1 1/4 x 1	42.2	33.4	51	6 x 5	168.3	141.3	140
1 1/4 x 3/4	42.2	26.7	51	6 x 4	168.3	114.3	140
1 1/4 x 1/2	42.2	21.3	51	6 x 3 1/2	168.3	101.6	140
				6 x 3	168.3	88.9	140
1 1/2 x 1 1/4	48.3	42.2	64	6 x 2 1/2	168.3	73.0	140
1 1/2 x 1	48.3	33.4	64				
1 1/2 x 3/4	48.3	26.7	64	8 x 6	219.1	168.3	152
1 1/2 x 1/2	48.3	21.3	64	8 x 5	219.1	141.3	152
				8 x 4	219.1	114.3	152
2 x 1 1/2	60.3	48.3	76	8 x 3 1/2	219.1	101.6	152
2 x 1 1/4	60.3	42.2	76				
2 x 1	60.3	33.4	76	10 x 8	273.0	219.1	178
2 x 3/4	60.3	26.7	76	10 x 6	273.0	168.3	178
				10 x 5	273.0	141.3	178
2 1/2 x 2	73.0	60.3	89	10 x 4	273.0	114.3	178
2 1/2 x 1 1/2	73.0	48.3	89				
2 1/2 x 1 1/4	73.0	42.2	89	12 x 10	323.8	273.0	203
2 1/2 x 1	73.0	33.4	89	12 x 8	323.8	219.1	203
				12 x 6	323.8	168.3	203
3 x 2 1/2	88.9	73.0	89	12 x 5	323.8	141.3	203
3 x 2	88.9	60.3	89				
3 x 1 1/2	88.9	48.3	89	14 x 12	355.6	323.8	330
3 x 1 1/4	88.9	42.2	89	14 x 10	355.6	273.0	330
				14 x 8	355.6	219.1	330
3 1/2 x 3	101.6	88.9	102	14 x 6	355.6	168.3	330
3 1/2 x 2 1/2	101.6	73.0	102				
3 1/2 x 2	101.6	60.3	102	16 x 14	406.4	355.6	356
3 1/2 x 1 1/2	101.6	48.3	102	16 x 12	406.4	323.8	356
3 1/2 x 1 1/4	101.6	42.2	102	16 x 10	406.4	273.0	356
				16 x 8	406.4	219.1	356
4 x 3 1/2	114.3	101.6	102				
4 x 3	114.3	88.9	102	18 x 16	457	406.4	381
4 x 2 1/2	114.3	73.0	102	18 x 14	457	355.6	381
4 x 2	114.3	60.3	102	18 x 12	457	323.8	381
4 x 1 1/2	114.3	48.3	102	18 x 10	457	273.0	381