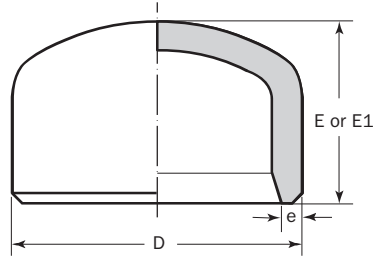


Caps ANSI B 16-9

Note: The shape of these caps shall be ellipsoidal and shall conform to the shape requirements as given in ASME Boiler and Pressure Vessel Code.
Length E applies for thickness not exceeding that given in column "Limiting wall thickness for length E"
(*) Length E1 applies for thickness greater than that given in column "Limiting wall thickness" for sizes 24 in. and smaller.
For sizes 26 in. and larger, length E1 shall be by agreement between manufacturer and purchaser.



"Weights are approximate"

Nominal pipe size (NPS)	1/2"	3/4"	1"	1" 1/4	1" 1/2	2"	2" 1/2	3"	3" 1/2	4"	
Outside diameter D - mm	21	27	33	42	48	60	73	89	102	114	
Length E - mm	25	25	38	38	38	38	38	51	64	64	
Limiting W.T. for length E	3,73	3,91	4,55	4,85	5,08	5,54	7,01	7,62	8,08	8,56	
Length E 1 (*) mm	25	25	38	38	38	44	51	64	76	76	
STD	W.T. in mm Weight in kg	2,76 0,03	2,87 0,06	3,37 0,10	3,55 0,14	3,68 0,20	3,91 0,30	5,15 0,50	5,48 0,70	5,74 1,40	6,01 1,60
X.S.	W.T. in mm Weight in kg	3,73 0,05	3,91 0,10	4,55 0,13	4,85 0,20	5,08 0,23	5,54 0,30	7,01 0,50	7,62 0,90	8,07 1,70	8,56 2,00
X.X.S.	W.T. in mm Weight in kg			9,09 0,20	9,70 0,28	10,16 0,36	11,07 0,59	14,02 1,00	15,24 1,78	16,15 2,63	17,12 3,17
SCH. 10	W.T. in mm Weight in kg										
SCH. 20	W.T. in mm Weight in kg										
SCH. 30	W.T. in mm Weight in kg										
SCH. 40	W.T. in mm Weight in kg					Refer to Standard					
SCH. 60	W.T. in mm Weight in kg										
SCH. 80	W.T. in mm Weight in kg					Refer to Extra-Strong					
SCH. 100	W.T. in mm Weight in kg										
SCH. 120	W.T. in mm Weight in kg										11,09 2,31
SCH. 140	W.T. in mm Weight in kg										
SCH. 160	W.T. in mm Weight in kg			6,35 0,15	6,35 0,23	7,13 0,30	8,71 0,55	9,52 0,90	11,09 1,40		13,50 2,75

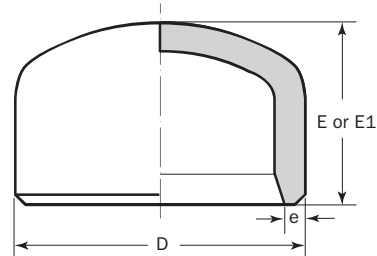
Caps ANSI B 16-9

Note: The shape of these caps shall be ellipsoidal and shall conform to the shape requirements as given in ASME Boiler and Pressure Vessel Code.

Length E applies for thickness not exceeding that given in column "Limiting wall thickness for length E"

(*) Length E1 applies for thickness greater than that given in column "Limiting wall thickness" for size 24 in. and smaller.

For size 26 in. and larger, length E1 shall be by agreement between manufacturer and purchaser.

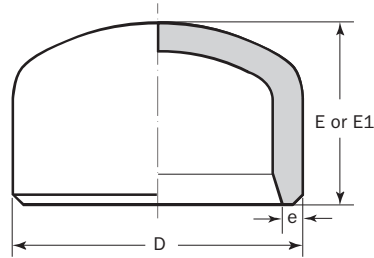


"Weights are approximate"

Nominal pipe size (NPS)		5"	6"	8"	10"	12"	14"	16"	18"	20"	22"
Outside diameter D - mm		141	168	219	273	324	356	406	457	508	559
Length E - mm		76	89	102	127	152	165	178	203	229	254
Limiting W.T. for length E		9,53	10,97	12,70	12,70	12,70	12,70	12,70	12,70	12,70	12,70
Length E 1 (*) mm		89	102	127	152	178	191	203	229	254	254
STD	W.T. in mm	6,55	7,11	8,18	9,27	9,52	9,52	9,52	9,52	9,52	9,52
	Weight in kg	2,30	3,60	5,50	10	15	17	23	29	36	42
X.S.	W.T. in mm	9,52	10,97	12,70	12,70	12,70	12,70	12,70	12,70	12,70	12,70
	Weight in kg	3	4	8,40	13,60	22	27	30	32	49	51
X.X.S.	W.T. in mm	19,05	21,95	22,23							
	Weight in kg	5,50	8,10	19,50							
SCH. 10	W.T. in mm						6,35	6,35	6,35	6,35	6,35
	Weight in kg						14	18	22	31	35,50
SCH. 20	W.T. in mm			6,35	6,35	6,35	7,92	7,92	7,92	Refer to Standard	
	Weight in kg			4,50	7	9	15,50	20	25		
SCH. 30	W.T. in mm			7,03	7,80	8,38	Refer to Standard		11,10	12,70	12,70
	Weight in kg			5	7,63	13			30,30	49	59
SCH. 40	W.T. in mm			Refer to Standard		10,31	11,09	R.X.S.	14,27	15,06	
	Weight in kg					19	23		39	66,70	
SCH. 60	W.T. in mm			10,31	12,70	14,22	15,06	16,74	18,23	20,62	22,22
	Weight in kg			7	13,60	22	32	37	66	94,50	107
SCH. 80	W.T. in mm			Refer to Standard		15,06	17,44	19,05	21,41	23,90	26,18
	Weight in kg					16,20	26,90	34,70	43,50	72,50	98,50
SCH. 100	W.T. in mm			15,06	18,23	21,41	23,80	26,19	29,36	32,54	34,92
	Weight in kg			11	21	32,50	42	54	75	100	135
SCH. 120	W.T. in mm	12,70	14,22	18,23	21,41	25,40	27,76	30,94	34,92	38,10	41,27
	Weight in kg	3,89	6,02	15,50	24	41	47	64	88	105	150
SCH. 140	W.T. in mm			20,62	25,40	28,57	31,75	36,53	39,67	44,45	47,62
	Weight in kg			18,50	27	42	52	73	93	153	198
SCH. 160	W.T. in mm	15,87	18,23	23,02	28,57	33,32	35,71	40,46	45,24	49,99	53,97
	Weight in kg	5	7,50	20	30	44,50	60	79	104	170	220

Caps ANSI B 16-9

Note: The shape of these caps shall be ellipsoidal and shall conform to the shape requirements as given in ASME Boiler and Pressure Vessel Code.
Length E applies for thickness not exceeding that given in column "Limiting wall thickness for length E"
(*) Length E1 applies for thickness greater than that given in column "Limiting wall thickness" for size 24 in. and smaller.
For size 26 in. and larger, length E1 shall be by agreement between manufacturer and purchaser.



"Weights are approximate"

Nominal pipe size (NPS)		24"	26"	28"	30"	32"	34"	36"	40"	42"	48"
Outside diameter D - mm		610	660	711	762	813	864	914	1016	1067	1219
Length E - mm		267	267	267	267	267	267	267	305	305	343
Limiting W.T. for length E		12,70									
Length E 1 (*) mm		305									
STD	W.T. in mm	9,52	9,52	9,52	9,52	9,52	9,52	9,52	9,52	9,52	9,52
	Weight in kg	52	46,50		57		73	79,50	91	104,50	116
X.S.	W.T. in mm	12,70	12,70	12,70	12,70	12,70	12,70	12,70	12,70	12,70	12,70
	Weight in kg	69	66		79,50		95,50	107	122,50	136,50	154,50
X.X.S.	W.T. in mm										
	Weight in kg										
SCH. 10	W.T. in mm	6,35			7,92		7,92	7,92			
	Weight in kg	44			51		58	62			
SCH. 20	W.T. in mm	Refer to Std									
	Weight in kg										
SCH. 30	W.T. in mm	14,27									
	Weight in kg	74,50									
SCH. 40	W.T. in mm	17,48									
	Weight in kg	93									
SCH. 60	W.T. in mm	24,61									
	Weight in kg	120									
SCH. 80	W.T. in mm	30,90									
	Weight in kg	150									
SCH. 100	W.T. in mm	38,89									
	Weight in kg	180									
SCH. 120	W.T. in mm	46,02									
	Weight in kg	200									
SCH. 140	W.T. in mm	52,37									
	Weight in kg	250									
SCH. 160	W.T. in mm	59,51									
	Weight in kg	285									