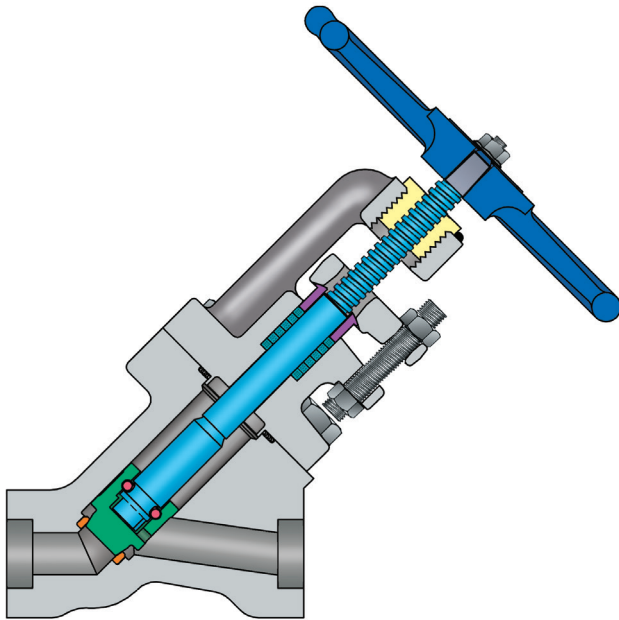


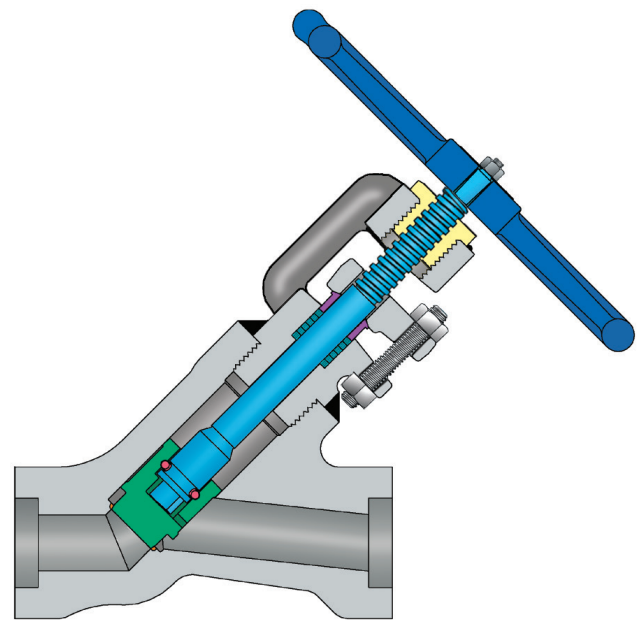
Conventional port opening, threaded, socket weld, or butt weld

NPS ½–2 (DN 15–50), ASME Classes 800, 1690, 2680

Complies to ASME B16.34 standards



Bolted bonnet



Welded bonnet

Figure numbers⁽¹⁾

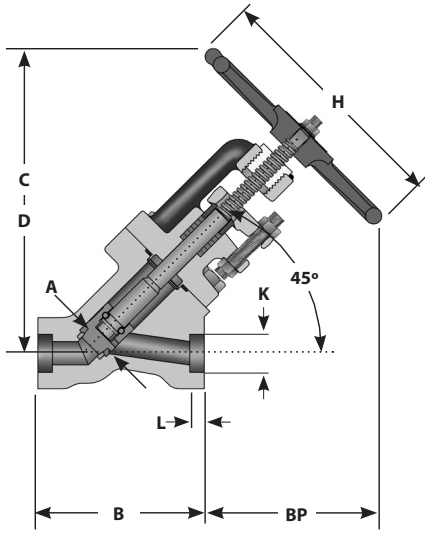
ASME Class	45° Bolted bonnet	45° Welded bonnet
800	2076B	—
1690	8076B	8076W
2680	—	9076W

(1) Threaded, socket weld or butt weld connections

Standard materials

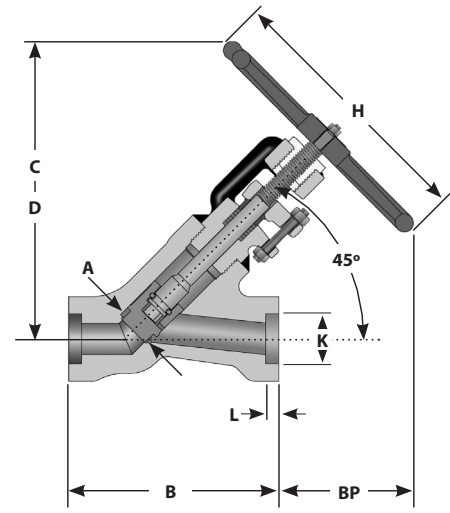
Part	Materials
Body	A105
Bonnet	A105
Seat (integral)	CoCr alloy
Disc	CoCr alloy
Stem	Gr. 410 (stainless)
Stem nut	CS CD plated
Gland bushing	Gr. 416 (stainless)
Yoke bushing	AL Brz C64200
Cap Screw	Gr. B7
Gasket	Gr. 304 & Graphite
Packing	Graphite
Packing flange	CS
Gland stud	Gr. B6
Gland nut	Gr. 2H
Handwheel	Malleable iron
Name plate	Aluminum

Note: Other materials available



Bolted bonnet

- A = Port
- B = End-to-end
- C = Center-to-top, closed
- D = Center-to-top, open
- H = Handwheel
- K = Socket weld bore
- L = Socket weld depth
- BP = Clearance open



Welded bonnet

45° Bolted bonnet dimensions, weights, and Cvs

Size NPS DN	ASME Class 800									
	A	B	C	D	H	K	L	BP	lb / kg	Cv
1/2	0.559	4	6.76	7.2	4	0.855	0.38	4.22	14	3.4
15	14.2	102	1.72	183	102	21.7	9.5	107	6	
3/4	0.559	4	6.76	7.2	4	1.065	0.5	4.22	14	5.8
20	14.2	102	1.72	183	102	27.1	12.7	107	6	
1	0.833	4.88	7.16	7.78	4	1.33	0.5	4.17	15	15
25	21.2	124	182	198	102	33.8	12.7	106	7	
1 1/4	1.125	5.75	9.05	9.85	6	1.675	0.5	5.4	33	26.5
32	28.6	146	230	250	152	42.5	12.7	137	15	
1 1/2	1.125	5.75	9.05	9.85	6	1.915	0.5	5.4	33	27
40	28.6	146	230	250	152	48.6	12.7	137	15	
2	1.5	7.25	11.72	12.78	8	2.406	0.63	7	67	50
50	38.1	184	298	325	203	61.1	15.9	172	30	

Size NPS DN	ASME Class 1690									
	A	B	C	D	H	K	L	BP	lb / kg	Cv
1/2	0.559	4.88	8.81	9.25	6	0.855	0.38	5.5	15	3.4
15	14.2	124	224	235	152	21.7	9.5	140	7	
3/4	0.559	4.88	8.81	9.25	6	1.065	0.5	5.5	15	5.8
20	14.2	124	224	235	152	27.1	12.7	140	7	
1	0.833	5.75	10.6	11.22	8	1.33	0.5	6.75	22	15
25	21.2	146	269	285	203	33.8	12.7	172	10	
1 1/4	1.125	7.75	11.72	12.51	8	1.675	0.5	6.73	36	26.5
32	28.6	197	298	318	203	42.5	12.7	171	16	
1 1/2	1.125	7.75	11.72	12.51	8	1.915	0.5	6.73	36	27
40	28.6	197	298	318	203	48.6	12.7	171	16	
2	1.5	10.13	14.32	15.38	12	2.406	0.63	7.58	72	50
50	38.1	275	364	391	305	61.1	15.9	193	37	

45° Welded bonnet dimensions, weights, and Cvs

Size NPS DN	ASME Class 1690									
	A	B	C	D	H	K	L	BP	lb / kg	Cv
1/2	0.559	4.88	7.75	8.19	6	0.855	0.38	4	9.5	3.4
15	14.2	124	197	208	152	21.7	9.5	102	4	
3/4	0.559	4.88	7.75	8.19	6	1.065	0.5	4	9.5	5.8
20	14.2	124	197	208	152	27.1	12.7	102	4	
1	0.833	5.75	9.73	10.38	8	1.33	0.5	5.19	18	15
25	21.2	146	247	264	203	33.8	12.7	132	8	
1 1/4	1.125	7.75	11.37	12.22	8	1.675	0.5	6.38	40	26.5
32	28.6	197	28	310	203	42.5	12.7	162	18	
1 1/2	1.125	7.75	11.37	12.22	8	1.915	0.5	6.38	40	27
40	28.6	197	28	310	203	48.6	12.7	162	18	
2	1.5	10.13	14.19	15.26	12	2.406	0.63	7.45	55	50
50	38.1	275	360	388	305	61.1	15.9	189	25	

Size NPS DN	ASME Class 2680									
	A	B	C	D	H	K	L	BP	lb / kg	Cv
1/2	0.559	4.88	7.75	8.19	6	0.855	0.38	4	9.5	3.4
15	14.2	124	197	208	152	21.7	9.5	102	4	
3/4	0.559	4.88	7.75	8.19	6	1.065	0.5	4	9.5	5.8
20	14.2	124	197	208	152	27.1	12.7	102	4	
1	0.833	5.75	9.73	10.38	8	1.33	0.5	5.19	18	15
25	21.2	146	247	264	203	33.8	12.7	132	8	
1 1/4	1.125	7.75	11.37	12.22	8	1.675	0.5	6.38	40	26.5
32	28.6	197	28	310	203	42.5	12.7	162	18	
1 1/2	1.125	7.75	11.37	12.22	8	1.915	0.5	6.38	40	27
40	28.6	197	28	310	203	48.6	12.7	162	18	
2	1.5	10.13	14.19	15.26	12	2.406	0.63	7.45	55	50
50	38.1	275	360	388	305	61.1	15.9	189	25	

Note: Cv refers to low coefficients. Kv is the metric equivalent of Cv. Kv = Cv x 0.85.