

For horizontal and vertical lines
Threaded, socket weld or butt weld
NPS ¼–4 (DN 8–100), ASME Classes 1690, 2680, 4500

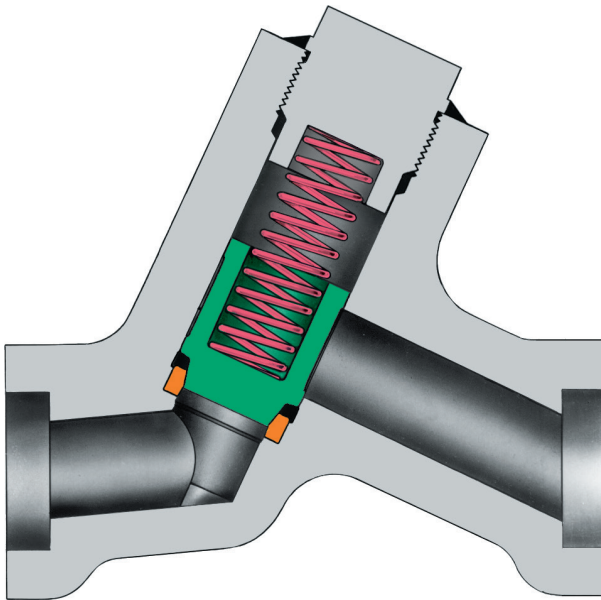


Figure numbers⁽¹⁾

ASME Class	Piston check valves
1690	8036W
2680	9036W
4500	5036W

(1) Threaded, socket weld or butt weld connections

Design features

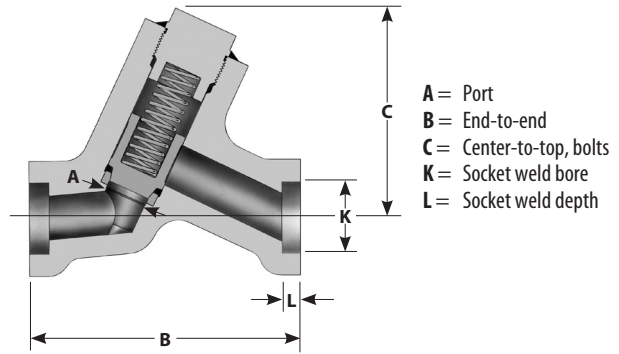
- Complies to ASME B16.34 standards.
- Solid CoCr alloy disc, fully guided for fast and full seating, even without spring
- High Cv
- Self-draining waterways

Standard materials

Part	Materials			
Body	A105	A182 Gr. F22	A182 Gr. F316	A 182 Gr. F91
Cover	A105	A182 Gr. F22	A182 Gr. F316	A 182 Gr. F91
Disc	CoCr alloy	CoCr alloy	CoCr alloy	CoCr alloy
Seat, integral	CoCr alloy	CoCr alloy	CoCr alloy	CoCr alloy
Spring(1)	Gr. 302 (stainless)	Inconel X750	Gr. 302 (stainless)	Inconel X750

Note: Other materials available

Quick sheet: ASME B16.34 forged steel piston check valves



Size NPS DN	ASME Class 1690						
	A	B	C	K	L	lb / kg	C _v
¼	0.559	4.88	3.61	0.555	0.38	6.5	1
8	14.2	124	9.5	14.1	9.5	3	
¾	0.559	4.88	3.61	0.69	0.38	6.3	
10	14.2	124	92	17.5	9.5	2.9	1.8
½	0.559	4.88	3.61	0.855	0.38	6.1	
15	14.2	124	92	21.7	9.5	2.8	2.1
¾	0.559	4.88	3.61	1.065	0.5	5.7	
20	14.2	124	92	27.1	12.7	2.6	4.3
1	0.833	5.75	4.88	1.33	0.5	10.5	
25	21.2	146	124	33.8	12.7	4.8	8.4
1¼	1.125	7.25	5.88	1.675	0.5	18.5	
32	28.6	150	12.7	42.5	12.7	8.4	17
1½	1.125	7.25	5.88	1.915	0.5	18.5	
40	28.6	184	150	48.6	12.7	8.4	19
2	1.688	10.13	7.19	2.406	0.63	37	
50	42.9	257	183	61.1	15.9	16.8	45
2½ ⁽¹⁾	1.688	12	8.06	2.906	0.63	94	
65	42.9	305	205	73.8	15.9	43	45
3 ⁽¹⁾	1.688	12	8.06	(2)	(2)	94	
80	42.9	305	205	(2)	(2)	43	45
4	1.688	12	8.06	(2)	(2)	94	
100	42.9	305	205	(2)	(2)	43	45

Size NPS DN	ASME Class 2680						
	A	B	C	K	L	lb / kg	C _v
¼	0.559	4.88	3.61	0.555	0.38	6.5	1
8	14.2	124	9.5	14.1	9.5	3	
¾	0.559	4.88	3.61	0.69	0.38	6.3	
10	14.2	124	92	17.5	9.5	2.9	1.8
½	0.559	4.88	3.61	0.855	0.38	6.1	
15	14.2	124	92	21.7	9.5	2.8	2.1
¾	0.559	4.88	3.61	1.065	0.5	5.7	
20	14.2	124	92	27.1	12.7	2.6	4.3
1	0.833	5.75	4.88	1.33	0.5	10.5	
25	21.2	146	124	33.8	12.7	4.8	8.4
1¼	1.125	7.25	5.88	1.675	0.5	18.5	
32	28.6	150	12.7	42.5	12.7	8.4	17
1½	1.125	7.25	5.88	1.915	0.5	18.5	
40	28.6	184	150	48.6	12.7	8.4	19
2	1.688	10.13	7.19	2.406	0.63	37	
50	42.9	257	183	61.1	15.9	16.8	45
2½ ⁽¹⁾	1.688	12	8.06	2.906	0.63	94	
65	42.9	305	205	73.8	15.9	43	45
3 ⁽¹⁾	1.688	12	8.06	(2)	(2)	94	
80	42.9	305	205	(2)	(2)	43	45
4	1.688	12	8.06	(2)	(2)	94	
100	42.9	305	205	(2)	(2)	43	45

Size NPS DN	ASME Class 4500						
	A	B	C	K	L	lb / kg	C _v
¾	0.375	5.75	4.26	0.69	0.38	5	
10	9.5	146	108	17.5	9.5	2.3	1.5
½	0.559	7	5.5	0.855	0.38	25	
15	14.2	178	140	21.7	9.5	11	2.1
¾	0.559	7	5.5	1.065	0.5	25	
20	14.2	178	140	27.1	12.7	11	4.3
1	0.559	7	5.5	1.33	0.5	25	
25	14.2	178	140	33.8	12.7	11	4.3
1½	1.125	10.13	6.88	1.915	0.5	42	
40	28.6	257	175	48.6	12.7	19	18
2	1.5	12	8.44	2.406	0.63	87	
50	38.1	305	214	61.1	15.9	40	36
2½ ⁽¹⁾	1.5	12	8.44	2.906	0.63	87	
65	38.1	305	214	73.8	15.9	40	36
3 ⁽¹⁾	1.5	12	8.44	(2)	(2)	110 ⁽³⁾	
80	38.1	305	214	(2)	(2)	50	36
4	1.5	12	8.44	(2)	(2)	110 ⁽³⁾	
100	38.1	305	214	(2)	(2)	50	36

(1) For Classes 1690 and 2680, dimensions are as shown, or same as for NPS 2 (DN 50) valve, depending on end connection.

(2) Butt weld or flanged connection only in these sizes.

(3) For butt weld weight is 87 lbs. (40 kg).

Note: C_v refers to low coefficients. K_v is the metric equivalent of C_v. K_v = C_v x 0.85.