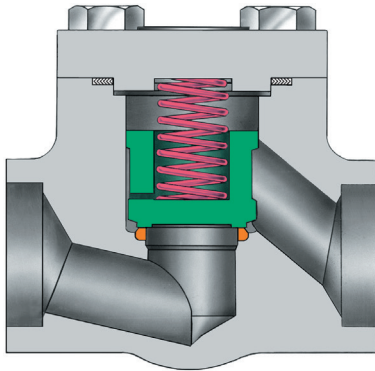


Conventional port opening, piston, ball, or swing check

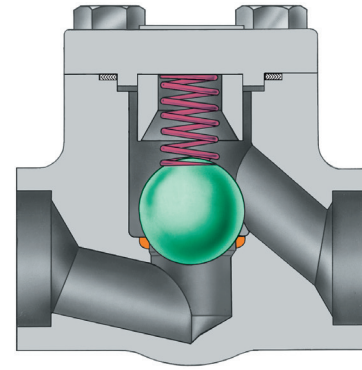
NPS ¼ – 2 (DN 8 – 50), ASME Classes 800 (1975 psi @ 100°F), 1500 (3705 psi @ 100°F)

Threaded or socket weld flanged ASME Classes 150, 300, 600, 1500

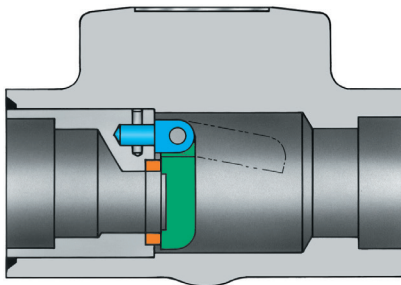
Complies to API 602 and ASME B16.34 standards



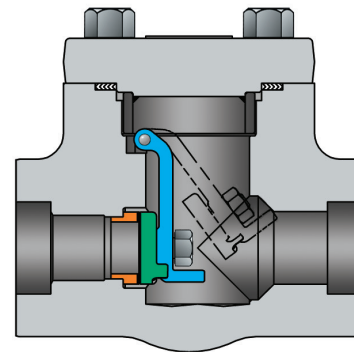
Piston bolted cover



Ball type bolted cover



Coverless swing check



Bolted cover swing check

Standard materials

Part	Materials
Body	A105
Cover	A105
Seat, integral	CoCr alloy
Disc ⁽¹⁾	CA15HT or CoCr alloy ⁽²⁾
Ball ⁽³⁾	Gr. 440C
Spring ⁽⁴⁾	Gr. 302
Cap screw ⁽⁵⁾	Gr. B7
Gasket ⁽⁵⁾	Gr. 304 (stainless and graphite)
Swing holder ⁽⁶⁾	CA15HT
Swing pin ⁽⁶⁾	Gr. 410
Name plate	Aluminium

(1) Piston or swing type only (2) Bolted bonnet swing check disc CoCr alloy Gr. 6 only.

(3) Ball type only (4) Piston or ball type only (5) Bolted bonnet only (6) Swing type only

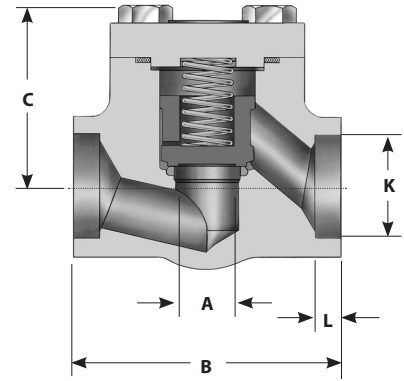
Figure numbers

Bolted cover			Coverless		
Piston check	Ball check	Swing check	Piston check	Ball check	Swing check
034B	024B	114B	–	–	114W

For other materials, trims,
and engineering data contact
Engineering

Bolted cover piston and ball dimensions, weights, and Cv

Size NPS DN	ASME 800							ASME 1500						
	A	B	C	K	L	lb / kg	Cv	A	B	C	K	L	lb / kg	Cv
¼ ⁽¹⁾ 8	0.36 9.2	3.13 80	1.9 48	0.555 14.1	0.38 9.5	2.5 1.2	1.8	0.5 12.7	4 102	2.7 68	0.555 14.1	0.38 9.5	6.6 3	2
¾ ⁽¹⁾ 10	0.36 9.2	3.13 80	1.9 48	0.69 17.5	0.38 9.5	2.5 1.2	1.8	0.5 12.7	4 102	2.7 68	0.69 17.5	0.38 9.5	6.6 3	2
½ ⁽¹⁾ 15	0.36 9.2	3.13 80	1.9 48	0.855 21.7	0.38 9.5	2.5 1.2	2	0.5 12.7	4 102	2.7 68	0.855 21.7	0.38 9.5	6.6 3	3
¾ 20	0.5 12.7	3.25 83	2.3 58	1.065 27.1	0.5 12.7	3.9 1.8	3	0.5 12.7	5 127	2.9 74	1.065 27.1	0.5 12.7	6.6 3	4
1 25	0.75 19.1	3.5 89	2.6 66	1.33 33.8	0.5 12.7	4.8 2.2	6	0.75 19.1	6 152	3.8 97	1.33 33.8	0.5 12.7	17 8	6
1¼ 32	1.25 31.8	5 127	3.7 94	1.675 42.5	0.5 12.7	12 5.4	14	1.25 31.8	7 178	4.5 114	1.675 42.5	0.5 12.7	26 12	14
1½ 40	1.25 31.8	5 127	3.7 94	1.915 48.6	0.5 12.7	12 5.4	14	1.25 31.8	7 178	4.5 114	1.915 48.6	0.5 12.7	26 12	14
2 50	1.5 38.1	8 203	4.8 122	2.406 61.1	0.63 15.9	22 10	25	1.5 38.1	9 229	5.4 137	2.406 61.1	0.63 15.9	41 19	25



A = Port
 B = End-to-end
 C = Center-to-top, bolts
 K = Socket weld bore
 L = Socket weld depth

Bolted cover swing check⁽²⁾ dimensions, weights, and Cv

Size NPS DN	ASME 800							ASME 1500						
	A	B	C	K	L	lb / kg	Cv	A	B	C	K	L	lb / kg	Cv
½ ⁽¹⁾ 15	0.5 12.7	3.5 89	2.5 64	0.855 21.7	0.38 9.5	5 2.3	4	0.5 12.7	6 152	3.7 94	0.855 21.7	0.38 9.5	17 7.7	4
¾ 20	0.5 12.7	3.5 89	2.5 64	1.065 27.1	0.5 12.7	5 2.3	4	0.5 12.7	6 152	3.7 94	1.065 27.1	0.5 12.7	17 7.7	4
1 25	0.75 19.1	5 127	3.5 89	1.33 33.8	0.5 12.7	12 5.4	11	0.75 19.1	6 152	3.7 94	1.33 33.8	0.5 12.7	17 7.7	11
1¼ 32	1.25 31.8	5.25 133	3.4 86	1.675 42.5	0.5 12.7	15 7	32	1.25 31.8	7 178	3.7 94	1.675 42.5	0.5 12.7	21 10	32
1½ 40	1.25 31.8	5.25 133	3.4 86	1.915 48.6	0.5 12.7	15 7	32	1.25 31.8	7 178	4.2 107	1.915 48.6	0.5 12.7	21 10	32
2 50	1.5 38.1	6 152	4.3 109	2.406 61.1	0.63 15.9	21 10	46	1.5 38.1	9 229	5.2 132	2.406 61.1	0.63 15.9	40 18	46

Note:

Cv refers to low coefficients.
 Kv is the metric equivalent of Cv.
 Kv = Cv x 0.85.
 For swing check valves Classes 300, 600 and 1500 face-to-face dimensions are the same as for piston and ball check valves.
 For Class 150 swing check valves contact the factory.

Coverless swing check dimensions, weights, and Cv

Size NPS DN	ASME 800						
	A	B	C	K	L	lb / kg	Cv
¼ ⁽¹⁾ 8	0.5 13	3.25 83	1.65 42	0.555 14.1	0.38 9.5	3.5 1.6	2
¾ ⁽¹⁾ 10	0.5 13	3.25 83	1.65 42	0.69 17.5	0.38 9.5	3.5 1.6	2
½ ⁽¹⁾ 15	0.5 13	3.25 83	1.65 42	0.855 21.7	0.38 9.5	3.5 1.6	5
¾ 20	0.5 13	3.25 83	1.65 42	1.065 27.1	0.5 12.7	3.5 1.6	5
1 25	0.75 19	3.5 89	1.7 43	1.33 33.8	0.5 12.7	3 1.4	11
1¼ 32	1.25 32	5 127	2.56 65	1.675 42.5	0.5 12.7	11 5	32
1½ 40	1.25 32	5 127	2.56 65	1.915 48.6	0.5 12.7	11 5	32
2 50	1.5 38	5.25 133	2.56 65	2.406 61.1	0.63 15.9	11 5	46

Flanged piston, ball, and swing check face-to-face dimensions

Size NPS DN	ASME 150 ⁽³⁾	ASME 300	ASME 600	ASME 1500
¼ ⁽¹⁾ 8	4 102	—	—	—
¾ ⁽¹⁾ 10	4 102	—	—	—
½ ⁽¹⁾ 15	4.25 108	6 152	6.5 165	8.5 216
¾ 20	4.62 117	7 178	7.5 191	9 229
1 25	5 127	8 203	8.5 216	10 254
1¼ 32	5.5 140	8.5 216	9 229	11 279
1½ 40	6.5 165	9 229	9.5 241	12 305
2 50	8 203	10.5 267	11.5 292	14.5 368

(1) Only for A105 (carbon) and A182 (stainless F316/F316L) body material in socket weld, threaded, butt weld or combination weld ends and 800 pressure class. All other materials in 800 pressure class, refer to the NPS ¾ (DN 20) design.

(2) Welded cover also available.

(3) Standard face-to-face for welded flange only.