

Ball Check Valves

Ball Check Valves prevent reverse flow where bubble tight shut-off is not mandatory. These check valves are designed with a ball cradled floating poppet to assure positive inline seating. This poppet design allows full flow around the ball to minimize pressure drop. Check valves are rated to 660°F (350°C). All check valves are supplied with glands and collars. These check valves are not to be used as a relief device. The opening pressure of the Ball Check Valves is approx. 20 psi (1.5 bar).



» **Materials:** Body, cover, poppet, cover gland: 1.4404 (SST 316L)
Ball: SST 400 series Spring: SST 300 series

Valve Pattern	Catalog Number	Connection Type	Pressure Rating psi (bar)	Orifice in. (mm)	Rated (Cv)	Dimensions in. (mm)	
						A (Hex.)	B
Ball Check Valves							
	21BC4M	4MF	22,500 (1,550)	0.106 (2.7)	0.28	0.88 (22.3)	2.91 (73.9)
	21BC6M	6MF	22,500 (1,550)	0.201 (5.1)	0.84	1.06 (27)	3.31 (84.1)
	21BC9M	9MF	22,500 (1,550)	0.307 (7.8)	2.30	1.44 (36.5)	4.29 (109)
	21BC12M	12MF	22,500 (1,550)	0.438 (11.1)	4.70	2.00 (50.8)	5.46 (138.7)
	21BC16M	16MF	22,500 (1,550)	0.562 (14.3)	7.40	2.00 (50.8)	6.57 (166.9)



» **Materials:** Body, sealing cone: 1.4404 (SST 316L) Seal: PEEK

Cone Check Valves

Especially for hydrogen applications, where best of class sealing ability is required, Maximator developed this cone check valve series design with a highly media compatible soft sealing system and improved spring guide. This series is available for Medium Pressure applications up to 22,500 psi (1.550 bar) with 4M to 16M connection.

Valve Pattern	Catalog Number	Connection Type	Pressure Rating psi (bar)	Orifice in. (mm)	Rated (Cv)	Dimensions in. (mm)	
						A (Hex.)	B
Cone Check Valves							
	21CC4M-H2	4MF	22,500 (1,550)	0.106 (2.7)	0.28	0.88 (22.3)	2.91 (73.9)
	21CC6M-H2	6MF	22,500 (1,550)	0.201 (5.1)	0.84	1.06 (27)	3.31 (84.1)
	21CC9M-H2	9MF	22,500 (1,550)	0.307 (7.8)	2.30	1.44 (36.5)	4.29 (109)
	21CC12M-H2	12MF	22,500 (1,550)	0.438 (11.1)	4.70	2.00 (50.8)	5.35 (136)
	21CC16M-H2	16MF	22,500 (1,550)	0.562 (14.3)	7.40	2.00 (50.8)	6.88 (175)

All dimensions are for reference only and are subject to change.