



HIGH PRESSURE CHECK VALVES CH SERIES

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CH SERIES

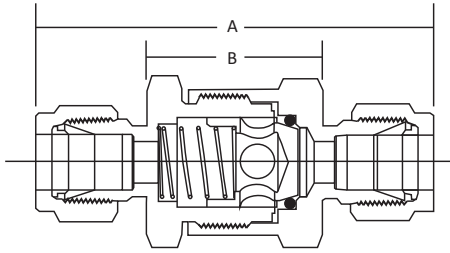
Poppet-style check valves for up to 6000 psi (413 bar) service • Compression tube fitting, NPT and ISO pipe end connections from 1/8" through 1" and 6, 8, 10 and 12mm sizes • 100% factory tested with nitrogen • Standard material: 316ss with Viton™ o-ring • Cracking pressures of 1/3, 1, 5, 10 and 25 psi (0.2 to 1.7 bar)

CRACKING AND RESEAL PRESSURES

NOMINAL CRACKING PRESSURE PSI (BAR)	CRACKING PRESSURE RANGE PSIG (BAR)	RESEAL PRESSURE PSIG (BAR)
1/3 (0.03)	UP TO 3 (0.21)	UP TO 6 (0.42) BACK PRESSURE
1 (0.07)	UP TO 4 (0.28)	UP TO 5 (0.35) BACK PRESSURE
5 (0.35)	3 TO 9 (0.21 TO 0.63)	UP TO 2 (0.14) BACK PRESSURE
10 (0.69)	7 TO 15 (0.49 TO 1.1)	3 (0.21) OR MORE UPSTREAM PRESSURE
25 (1.8)	20 TO 30 (1.4 TO 2.1)	17 (1.2) OR MORE UPSTREAM PRESSURE

PRESSURES / TEMPERATURES & FLOW

SERIES	MAXIMUM FLOW COEFFICIENT (C_v)	NOMINAL CRACKING PRESSURE PSI (BAR)	DOWNSTREAM PRESSURE AT 70°F (20°C) PSIG (BAR)
CH4	0.67	1/3, 1, 5, 10 and 25 (0.03, 0.07, 0.69 and 1.8)	6000 (413)
CH8	1.8		



CH SERIES CHECK VALVES

END CONNECTION TYPE	FITTING SIZE	BASIC ORDERING NUMBER	SERIES	DIMENSIONS		
				A In. (mm)	B In. (mm)	HEX SIZE In.
FRACTIONAL TUBE FITTING	1/8	CH4-D2	CH4	2.27 (57.7)	1.07 (26.9)	11/16
	1/4	CH4-D4	CH4	2.44 (62.0)	1.04 (26.1)	11/16
	3/8	CH8-D6	CH8	2.75 (69.9)	1.2 (30.2)	1
	1/2	CH8-D8	CH8	2.96 (75.2)	1.24 (31.2)	1
METRIC TUBE FITTING	6	CH4-DM6	CH4	2.44 (62.0)	1.04 (26.1)	11/16
	8	CH8-DM8	CH8	2.70 (68.6)	1.24 (31.5)	1
	10	CH8-DM10	CH8	2.75 (69.9)	1.2 (30.2)	1
	12	CH8-DM12	CH8	2.96 (75.2)	1.24 (31.2)	1
FEMALE NPT	1/4	CH4-4PF	CH4	2.26 (57.4)		11/16
	3/8	CH8-6PF	CH8	2.55 (67.8)		1
	1/2	CH8-8PF	CH8	3.03 (77.0)		1-1/16
FEMALE ISO TAPERED	1/4	CH4-4FRT	CH4	2.38 (60.5)		11/16
	3/8	CH8-6FRT	CH8	2.86 (72.6)		1
	1/2	CH8-8FRT	CH8	3.29 (83.6)		1-1/16
MALE NPT	1/8	CH4-2PM	CH4	1.9 (48.3)	1.12 (28.2)	11/16
	1/4	CH4-4PM	CH4	2.17 (55.1)	1.03 (25.9)	11/16
	3/8	CH8-6PM	CH8	2.36 (59.9)	1.22 (30.7)	1
	1/2	CH8-8PM	CH8	2.73 (69.3)	1.21 (30.4)	1
MALE ISO TAPERED	1/4	CH4-4MRT	CH4	2.17 (55.1)	1.03 (25.9)	11/16
	1/2	CH8-8MRT	CH8	2.73 (69.3)	1.21 (30.4)	1
MALE/FEMALE NPT	1/4	CH4-4PM4PF	CH4	2.26 (57.4)		11/16
	1/2	CH8-8PM8PF	CH8	2.89 (73.4)		1-1/16
FRACTIONAL TUBE FITTING/ MALE NPT	3/8	CH8-D6PM6	CH8	2.56 (65.0)	1.234 (31.0)	1
	1/2	CH8-D8PM8	CH8	2.74 (69.6)	1.224 (30.8)	1

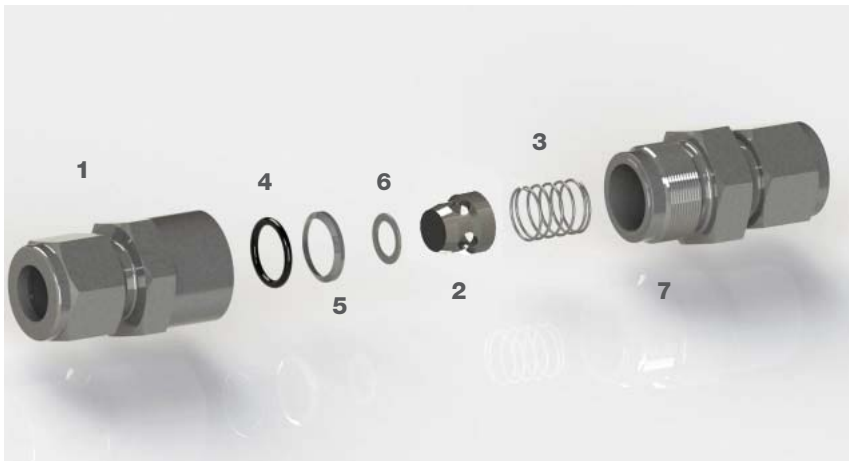
PART NUMBER CONFIGURATION



CRACKING PRESSURE DESIGNATOR	
Cracking Pressure psig	Designator
1/3	1/3
1	1
5	5
10	10
25	25

MATERIAL DESIGNATOR: Stainless Steel - 316

Example: CH4-D4-1-316



MATERIALS OF CONSTRUCTION		
COMPONENT		316 SS
1	INLET BODY	316 SS
2	POPPET	316 SS
3	SPRING	302/316 SS
4	O-RING	VITON
5	O-RING RETAINER	316 SS
6	CONNECTOR GASKET	316 SS
7	OUTLET BODY	316 SS

PRODUCTION TESTING

Check valves are 100% factory tested with nitrogen after assembly to confirm spring cracking pressure, and for seat leakage at 1000 psi.

O-RINGS

Viton o-ring is the standard seal material on CH check valves. No modification to the base part number is required to receive valves with a Viton o-ring. Other o-rings are available. To order, insert the desired o-ring designator into the valve ordering number.

Example: CH4-D4-316-BU

MATERIAL	DESIGNATOR	TEMPERATURE RATING °F (°C)
BUNA N	-BU	-40 TO 250 (-40 TO 121)
BUNA N756	-CNG	-65 TO 275 (-53 TO 135)
ETHYLENE PROPYLENE	-EP	-50 TO 300 (-45 TO 148)
KALREZ	-KZ	-10 TO 400 (-23 TO 204)

Please consider total system design considerations when selecting products to ensure safe, trouble-free performance. Function, material compatibility, adequate ratings, proper installation, operation, and maintenance are the responsibilities of the system designer and user.



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