



Check Valves

VUCL SERIES



Fujikin Corp. Group

Features

Fixed Cracking Pressures

■ From 1/3 to 25 psi (0.03 to 1.8 bar) ■ Standard : 1psig

Temperature and Pressure Rating

Seal Material	FKM
Temperature, °F (°C)	Working Pressure psig (bar)
-10 (-23) to 100 (37)	6000 (413)
200 (93)	5160 (355)
250 (121)	4910 (338)
300 (148)	4660 (321)
375 (204)	4280 (294)

① Pressure ratings may be limited by the and connection, See Dimensions, page3.

Cracking and Reseal Pressures at 70°F (20°C)

Nominal Cracking Pressure psi (bar)	Cracking Pressure Range psi (bar)	Reseal Pressure psi (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 (1.80)	20 to 30 (1.4 to 2.1)	17 (1.2) or more upstream pressure

Caution :

For valves not actuated for a period of time, initial cracking pressure may be higher than the set cracking pressure.

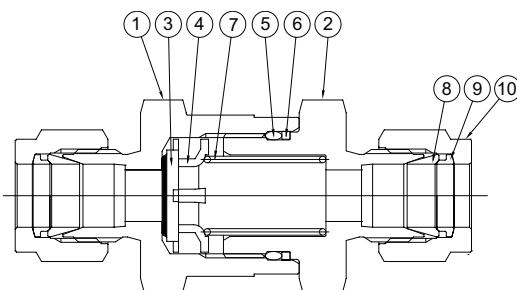
Cracking Pressure :

The upstream pressure at which the first indication of flow occurs.

Reseal Pressure :

The pressure at which there is no indication of flow.

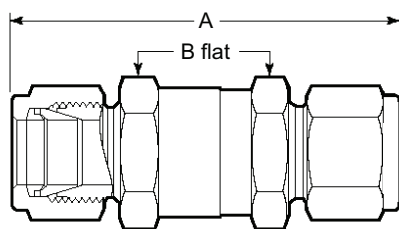
Materials of Construction



No.	Material Grade / ASTM Specification	
	Description	Material
1	BODY1	ASTM A479 316
2	BODY2	ASTM A479 316
3	POPPET	SUS 316L + FKM
4	POPPET STOP	ASTM A276 316
5	O-RING	FKM
6	BACKUP RING	PTFE
7	SPRING	SUS316
8	FRONT RING	ASTM A276 316
9	BACK RING	ASTM A276 316
10	NUT	ASTM A276 316

Dimensions

■ Dimensions, shown with V-Lok tube fitting nuts finger-tight, are for reference only and are subject to change.



Check valves are designed for directional flow control only.
Check valves should never be used as code safety relief devices.

End Connections	Size	Working Pressure psig(bar)	Dimensions,in.(mm)		Orifice,in. (mm)	Cracking Pressure psig(bar)	Ordering Number
Inlet/ Outlet			A	B			
V-Lok	1/4in.	6000(413)	2.43(61.7)	11/16	0.19(4.8)	1(0.07)	VUCL-941-6.35-0.07
	3/8in.		2.75(69.9)	1	0.3(7.9)		VUCL-941-9.52-0.07
	1/2in.		2.96(75.2)				VUCL-941-12.7-0.07
	6mm		2.43(61.7)	11/16	0.19(4.8)		VUCL-941-6-0.07
	8mm		2.70(68.6)	1	0.3(7.9)		VUCL-941-8-0.07
	10mm		2.80(71.1)				VUCL-941-10-0.07
	12mm		2.96(75.2)				VUCL-941-12-0.07
Female Rc	1/4in.	5100(351)	2.28(57.9)	11/16	0.19(4.8)	VUCL-141B-0.07	
	1/2in.		3.29(83.6)	1-1/16	0.3(7.9)	VUCL-141D-0.07	

Ordering Information

V U C L — 9 4 1 — 6.35 — 0.07
 ① ② ③ ④ ⑤ ⑥ ⑦

① Valve Series

② Body Material
ASTMA479 316

③ Valve Type
Check Valves

④ Connection Type
1 : Screwed Type
9 : V-Lok Type

⑤ Working Pressure
6000psig(413bar)

⑥ Connection Size
6.35 : V-Lok 1/4in.
9.52 : V-Lok 3/8in.
12.7 : V-Lok 1/2in.
6 : V-Lok 6mm
8 : V-Lok 8mm
10 : V-Lok 10mm
12 : V-Lok 12mm
B : Rc1/4
D : Rc1/2

⑦ Cracking Pressure
0.07 : 1psig(0.07bar)
0.03 : 1/3psig(0.03bar)
0.35 : 5psig(0.35bar)
0.69 : 10psig(0.69bar)
1.8 : 25psig(1.8bar)



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The Year 2005
The 1st Monozukuri (manufacturing)
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: Excellence Prize