



High Pressure Check Valves Standard Type



Features

- Minimal contributions of moisture, Oxygen and Hydrocarbon,
Minimal particle generation.
- DK-LOK's own electropolished.
- D.I water cleaned, assembled, tested & packaged
in a certified clean room.

Specification

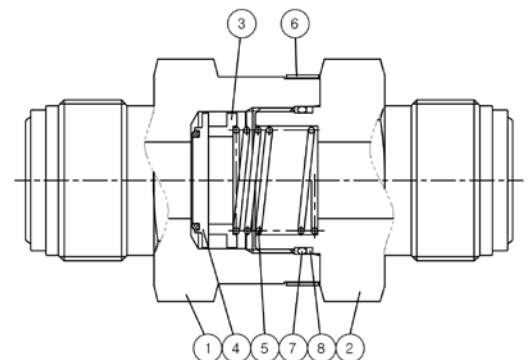
Size	1/4"	1/2"	3/4"	1"	
Cv Value	0.67	1.8	4.7	4.7	
Max. Working Pressure	413 bar (6000 psig)	296, 413 bar (4300, 6000 psig)	254, 344 bar (3700, 5000 psig)	323 bar (4700 psig)	
Max. Working Temperature	-10° ~ 204°C (-23~400°F)				
Nominal Cracking Pressure	0.03 bar (1/3 psig)	0.07 bar (1 psig)	0.35 bar (5 psig)	0.69 bar (10 psig)	1.8 bar (25 psig)
Cracking Pressure Range	Up to 0.21 bar (3 psig)	Up to 0.28 bar (4 psig)	0.21 to 0.63 bar (3 to 9 psig)	0.49 to 1.1 bar (7 to 15 psig)	1.4 to 2.1 bar (20 to 30 psig)
Reseal Pressure(Back Pressure)	Up to 0.42 (6 psig)	Up to 0.35 (5 psig)	Up to 0.14 (2 psig)	Up to 0.21 (3 psig)	Up to 1.2 (17 psig)
External Leakage Allowance – He Holding Time ≥ 1 min	≤ 1x10 ⁻⁹ atm.cc/s				
Particle Inspection (EP Only) Pressure : 60~80psi N2 Gas Sample Volume : 1CFM 0.1 μm and Larger	No count				

Product Grade

Level	AP	BA	EP
Inner Surface Roughness	Ry ≤ 25 μm	Ry ≤ 3.0 μm / Ra 10μin	Ry ≤ 0.7 μm / Ra 5μin
	Cut off Length : 2.5mm	Cut off Length : 0.8mm	Cut off Length : 0.25mm
	Measuring Length : 12.5mm	Measuring Length : 4mm	Measuring Length : 1.25mm
Polishing	Machining Finish	Machining Finish	Electro Polishing Finish

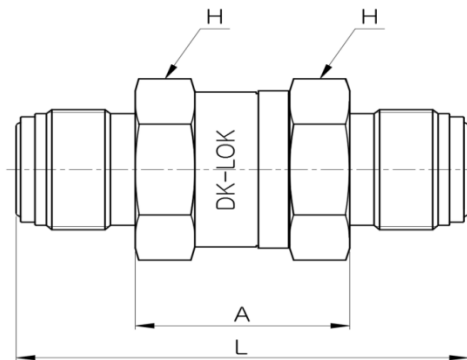
Material of Construction

NO	Description	Materials
1	Body	316L Stainless Steel VAR, 316L Stainless Steel, Hastelloy C-276 Bonded Seal : FKM, EPDM, FFKM
2	Connector	
3	Poppet Stop	
4	Poppet With bonded seal	
5	Spring	SS302, Inconel X750
6	Indicator ring	SS316
7	O-ring	FKM / HNBR
8	Backup ring	PTFE



- Wetted Components are listed in blue

Ordering Information



Basic Ordering Number	Size	End Connections	Dimensions (mm)			Pressure Rating bar (psig)
			L	A	H (in)	
U-VC4-DM	1/4"	DCR Male	57.9	26.4	11/16	413 (6000)
U-VC8-DM	1/2"		69.3	31.2	1	296 (4300)
U-VC12-DM	3/4"		96.0	45.5	1-5/8	254 (3700)
U-VC4-DK	1/4"	DK-LOK	61.7	26.4	11/16	413 (6000)
U-VC6-DK	3/8"		69.9	31.2	1	413 (6000)
U-VC8-DK	1/2"		75.2	31.2	1	413 (6000)
U-VC12-DK	3/4"		89.4	45.2	1-5/8	344 (5000)
U-VC16-DK	1"		98.6	45.5	1-5/8	323 (4700)
U-VC4-TW	1/4"	Tube Butt Weld	150	26.4	11/16	413 (6000)
U-VC6-TW	3/8"		150	31.2	1	413 (6000)
U-VC8-TW	1/2"		150	31.2	1	413 (6000)
U-VC12-TW	3/4"		150	45.2	1-5/8	344 (5000)
U-VC16-TW	1"		150	45.5	1-5/8	323 (4700)

How to order

U	-	VC	-	4	-	DM	-	F	-	A	-	SL	-	B
DK-LOK UHP Product		Valve Type		Size		End Connector Type		Seal Material		Cracking Pressure		Material		Inner Surface Level

Product	Size	End Connector Type	Seal Material	Cracking Pressure	Material	Surface Level
VC	4 : 1/4"	DM : DCR Male	F : FKM	A : 1/3 psig	SL : 316L Stainless Steel	B : BA Grade
	6 : 3/8"	DK : Dk-Lok	E : EPDM	B : 1 psig	DL : 316L Stainless Steel VAR	P : EP Grade
	8 : 1/2"	TW : Tube Butt Weld	K : FFKM	C : 3 psig	HC : Hastelloy C-276	
	12 : 3/4"			D : 10 psig		
	16 : 1"			E : 25 psig		

Note) DCR : DK-Metal Face Seal

Safe Valve Selection

The selection of a valve for any application or system design must be considered to ensure safe performance. Valve function, valve rating, material compatibility, proper installation, operation and maintenance remain the sole responsibility of the system designer and the user. DK-Lok accepts no liability for any improper selection, installation, operation or maintenance.

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DK-LOK[®]
Fittings & Valves
www.dklok.com

DK-LOK Corporation
Mailing Address
7, Golden root-ro 129beon-gil, Juchon-myeon,
Gimhae-si, Gyeongsangnam-do, South Korea 621-842

DK-Lok contact information
Tel. (82) 55-338-0114
Fax. (82) 55-901-0143
E-mail : sales@dklok.com

For International customers
Tel. (82) 55-338-0031/2
Fax. (82) 55-901-0142
E-mail : dklok@dklok.com