

High Pressure Welding Check Valves

Standard Type

Features



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

Specification

Size	1/4"	1/2"	3/4"	1"
Cv Value	DK : 0.55 / DCR : 0.7	0.7	2.5	2.5
Max. Working Pressure	FKM : 206bar (3000psig) / FFKM : 68bar (1000psig)			
Max. Working Temperature	-10 ~ 80°C			
Nominal Cracking Pressure	≤ 0.14bar (2psig)			
Nominal Reseal Pressure	≤ 0.28bar (4psig)			
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

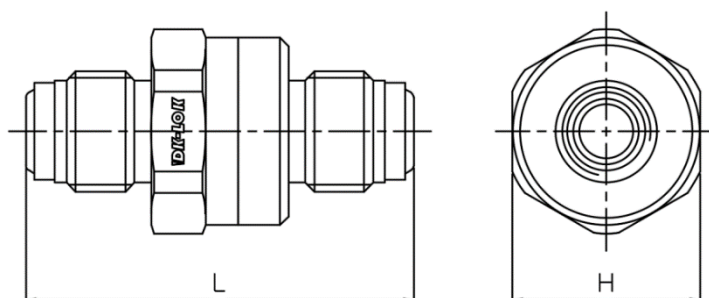
Level	AP	BA	EP
Inner Surface Roughness	Ry ≤ 25 μm	Ry ≤ 3.0 μm / Ra 10μin	Ry ≤ 0.7 μm / Ra 5μin
	Cut off Length : 2.5mm	Cut off Length : 0.8mm	Cut off Length : 0.25mm
	Measuring Length : 12.5mm	Measuring Length : 4mm	Measuring Length : 1.25mm
Polishing	Machining Finish	Machining Finish	Electro Polishing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

Material of Construction

No.	Description	Material
1	Body	Stainless Steel 316L Stainless Steel 316L VAR Ni Alloy C276
2	Poppet	Stainless Steel 316L Ni Alloy C276
3	Plate Spring	Ni Alloy C22
4	O-Ring	FKM / FFKM

* Wetted Components are listed in blue.

Ordering Information and Dimensions



Basic Ordering Number	Size	End Connections	Dimensions (mm)	
			L	H
U-VCW4-DM-	1/4"	DCR Male	45.7	22.1
U-VCW8-DM-	1/2"		52.3	25.4
U-VCW12-DM-	3/4"		67.2	38.1
U-VCW16-DM-	1"		70.2	41.28
U-VCW4-DF-	1/4"	DCR Female	61.7	22.1
U-VCW8-DF-	1/2"		61.7	25.4
U-VCW12-DF-	3/4"		123	38.1
U-VCW16-DF-	1"		131.1	41.28
U-VCW4-DK-	1/4"	DK-Lok	51.3	22.1
U-VCW6-DK-	3/8"		54.4	25.4
U-VCW8-DK-	1/2"		62.1	25.4
U-VCW12-DK-	3/4"		65.7	38.1
U-VCW16-DK-	1"		79.2	41.28

DK type dimensions are shown with DK-LOK nuts finger-tight.

How to order

U	-	VCW	-	4	-	DM	-	K	-	SL	-	B	-	X
DK-LOK UHP Product		Valve Type		Size		End Connector Type		Seal Material		Material		Inner Surface Level		User Option

Valve Type	Size	End Connector Type	Seal Material	Material	Surface Level	User Option
VCW	4 : 1/4"	DM : DCR Male	Blank : FKM	SL : 316L Stainless Steel	B : BA Grade	Blank : Standard
	6 : 3/8"	DF : DCR Female	K : FFKM	DL : 316L Stainless Steel VAR	P : EP Grade	X : Customization No.
	8 : 1/2"	DK : DK-Lok		HC : Ni Alloy C276		
	12 : 3/4"					
	16 : 1"					

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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