



Check Valves

V33, VP33, VA33, VH36 and VL36 Series
VCH36 Series for CNG/NGV applications
Fixed and Adjustable cracking pressure
Pressures up to 3000 psig (206 bar) and 6000 psig (413 bar)

Catalog No. V336-7
March 2010

Features

- Fixed and adjustable cracking pressure.
- Reliable DK-LOK Tube Fitting, NPT and ISO pipe end connections.
- Stainless and Brass material construction.

Technical Information

Valve Series	V33 Series		VP33 Series	VA33 Series	VH36 Series	
	V33A, V33B, V33C and V33D	V33E and V33F	VA33A and VP33B	VA33A and VA33B	VH36A and VH36B	VH36C
Maximum Operating Pressure @21°C (70°F)	SS316 & Brass 3000 psi (206 bar)	SS316: 2000 psig (137 bar) Brass: 1500 psig (103 bar)	SS316 & Brass 3000 psi (206 bar)	SS316 & Brass 3000 psi (206 bar)	SS316 6000 psi (413 bar)	SS316 5000 psi (344 bar)
Operating Temperature Ratings	FKM O-ring: - 18°F to 400°F (- 28°C to 204°C) NBR O-ring: - 4°F to 221°F (-20°C to 105°C) FKM is standard for SS316 valves. NBR is standard for Brass valves.			EPDM O-ring: -49 to 275°F (-45 to 135°C) Kalrez O-ring: -22 to 599°F (-20 to 315°C) Kalrez: TM Dupont		
Cracking Pressure	Refer to spring table of each valve Series					

Cracking, Reseal and Back Pressure @ 70°F (21°C)

- **Cracking Pressure** : Valve poppet is actuated when the pressure difference between the inlet and the outlet reaches the range of cracking pressure.
- **Reseal Pressure** : Valves that have higher cracking pressure can be resealed to bubble-tight by the spring force. The reseal pressure is the pressure at the same flow direction, but lower than the cracking pressure.
- **Back Pressure** : Valves that have cracking pressure of 5 psig (0.34 bar) and lower may not be able to return to the bubble-tight seal. This may require back pressure to press the seal to form a bubble-tight contact in addition to the spring force.

Class Ratings

- Ratings are based on FKM O-rings of SS316 valves and NBR O-rings of Brass valves

Valve Series	V33A, V33B, V33C, V33D, VA33A, VA33B, VP33A, and VP33B Series		V33E and V33F Series		SS316 VH36A, VH36B, and VH36C Series	
Temperature	Working Pressure, psig (bar)					
	SS316	Brass	SS316	Brass	VH36A & VH36B	VH36C
-18 to 100°F (-28 to 38°C)	3000 (206)	3000 (206)	2000 (137)	1500 (103)	6000 (413)	5000 (344)
200°F (93°C)	2575 (177)	2600 (179)	1715 (118)	1300 (89)	5160 (355)	4290 (295)
225°F (175°C)	2510 (172)	2500 (172)	1670 (115)	1250 (86)	5030 (346)	4180 (288)
250°F (121°C)	2450 (168)		1630 (112)		4910 (338)	4080 (281)
300°F (148°C)	2325 (160)		1545 (106)		4660 (321)	3875 (267)
350°F (176°C)	2255 (155)		1490 (102)		4470 (308)	3720 (256)
375°F (190°C)	2185 (150)		1450 (99)		4375 (301)	3640 (250)
400°F (204°C)					4280 (294)	3560 (245)

Operation

- When the valve is not actuated for a period of time, it may require a higher cracking pressure than the set cracking pressure.
- D-Pro check valves prevent reverse flow in circuits. Do not use them as relief valves.
- D-Pro check valves are designed to prevent loss of media caused by failed connections and for uni-directional flow control of fluids in chemical processing, power generation, oil and gas industries.

Factory Test, Cleaning and Packaging

Every valve is factory tested for cracking and reseals performance.
Every valve is cleaned, and packaged in accordance with DK-LOK cleaning standard DC-01.
Special cleaning and packaging in accordance with DK-LOK DC-11 ensures compliance with product cleaning of ASTM G93 Level C is available on request.

V33 series

- Working pressure up to 3000 psig (206 bar)



Model Shown:
V33 Series Check Valves
V33C-D-8T-10-S
V33C-F-6N-EP-1/3-S

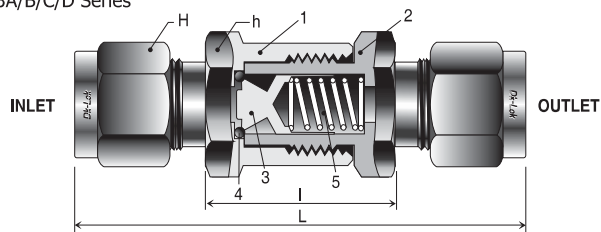
Quality System Approvals			Dk-Lok Tube Fitting Certification Listing			D-Pro Valve Certification Listing			DK Tech Corporation www.dklok.com
ASME N	ASME NPT	API	ISO 9001	ISO 9001	ISO 9001	ASMA	ICHNP	RWTV	

DK-LOK® Check Valves

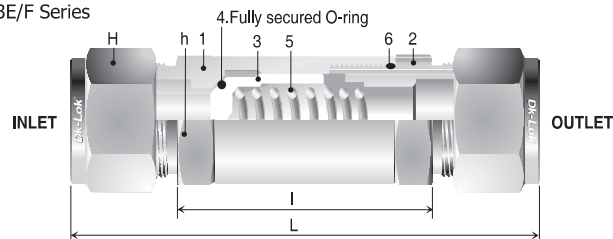
D-Pro V33 Series Poppet Check Valves

- Feature: Working pressure up to 3000 psig (206 bar)

V33A/B/C/D Series



V33E/F Series



Materials of Construction

Component	Valve Body Materials	
	Material Grade/ASTM	
1. Body	SS316 /A276, A479	Brass 360 /B16
2. Connector		
3. Poppet		
4. O-ring*	FKM, optional EPDM, Kalrez.	NBR
5. Spring	SS302/A313	SS302/A313
6. O-ring seal	FKM, optional EPDM, Kalrez.	NBR

■ Wetted parts are listed in **blue**.
 *4. O-ring is fully secured at poppet in V33F Series.

Lubrication:
 • Silicon-based Lubricant for Poppet
 • Molybdenum Dry Film Lubricant for SS316 Body Threads

V33 Series Ordering Information and Dimensions

Basic Ordering Number		End Connections		Orifice mm (in.)	Cv	Dimensions mm (Inch)			
		Inlet	Outlet			h-Hex	H-Hex	L	I
V33A-	D-2T-	1/8 in. Dk-Lok		4.8 (0.19)	0.16	15.88 (5/8)	11.11 (7/16)	55.60 (2.19)	25.00 (0.98)
	M-2N-	1/8 in. Male NPT			0.47		-	44.40 (1.75)	-
	F-2N-	1/8 in. Female NPT					-	46.50 (1.83)	-
	D-4T-	1/4 in. Dk-Lok					14.29 (9/16)	60.00 (2.36)	25.00 (0.98)
	D-6M-	6 mm Dk-Lok					14.00		
	MD-4N4T-	1/4 in. Male NPT	1/4 in. Dk-Lok				14.29 (9/16)	56.40 (2.22)	
	M-4N-	1/4 in. Male NPT					-	53.40 (2.10)	-
F-4N-	1/4 in. Female NPT		-	56.80 (2.24)					
V33B-	D-6T-	3/8 in. Dk-Lok		7.1 (0.28)	1.48	19.05 (3/4)	17.46 (11/16)	65.50 (2.58)	
	D-10M-	10 mm Dk-Lok					19.00		
	M-6N-	3/8 in. Male NPT					-	55.50 (2.19)	
	F-6N-	3/8 in. Female NPT					-	63.80 (2.51)	
V33C-	D-8T-	1/2 in. Dk-Lok		10.0 (0.39)	1.7	22.22 (7/8)	22.22 (7/8)	80.20 (3.16)	36.20 (1.43)
	D-12M-	12 mm Dk-Lok					22.00		
	M-8N-	1/2 in. Male NPT					-	74.40 (2.93)	
	F-8N-	1/2 in. Female NPT					-	84.70 (3.33)	
V33D-	D-10T-	5/8 in. Dk-Lok		13.5 (0.53)	2.6	28.58 (1-1/8)	25.40 (1)	91.80 (3.61)	48.10 (1.89)
	D-12T-	3/4 in. Dk-Lok					28.58(1-1/8)	110.70 (4.35)	67.00 (2.64)
V33E-	M-12N-	3/4 in. Male NPT		16.0 (0.63)	5.2	31.75 (1-1/4)	-	105.30 (4.15)	-
	F-12N-	3/4 in. Female NPT					-	103.00 (4.06)	
	D-16T-	1 in. Dk-Lok					38.1 (1-1/2)	121.10 (4.77)	
V33F-	M-16N-	1 in. Male NPT		18.0 (0.71)	8.0	34.93 (1-3/8)	-	116.20 (4.57)	68.40 (2.69)
	F-16N-	1 in. Female NPT				-	111.40 (4.39)		
						41.28 (1-5/8)			

All dimensions shown are for reference only and subject to change. Dimensions with DK-LOK are in finger-tight position.

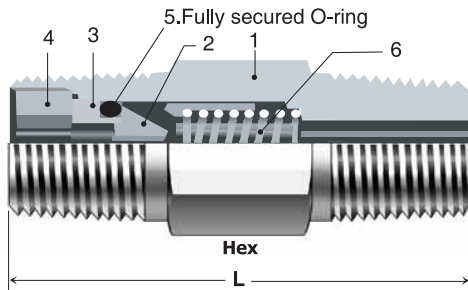
Table 1. Spring Cracking, Reseal and Back Pressure @ 70°F (21°C)

Spring Nominal Cracking Pressure Designator		Cracking Pressure Ranges				Reseal Pressures	
		Min. Pressure		Max. Pressure			
psi	bar	psig	bar	psig	bar	psig	bar
1/3	0.02	0	0	3	0.21	Up to 6	0.41
1	0.07	0	0	4	0.28	Back Pressure	
						Up to 5	0.34
3	0.21	2	0.14	7	0.48	Back Pressure	
						Up to 4	0.28
10	0.69	7	0.48	15	1.03	Back Pressure	
						3	0.21
25	1.72	20	1.38	30	2.07	17	1.17
50	3.45	40	2.76	60	4.14	35	2.41
75	5.17	60	4.14	90	6.20	53	3.65
100	6.89	80	5.51	120	8.27	70	4.82

IDK-LOK® Check Valves

D-Pro VP33 Series 1-Piece Check Valves

- Features:
 - O-ring seal blow-out proof design
 - One piece body construction.
 - Working pressure up to 3000 psig (206 bar)



Materials of Construction

Component	Valve Body Materials	
	Material Grade/ASTM	
1. Body	SS316 /A276, A479	Brass 360 /B16
2. Poppet		
3. O-ring Holder		
4. Locking Screw		
5. O-ring	FKM, optional EPDM, Kalrez	NBR
6. Spring	SS302/A313	SS302/A313

Wetted parts are listed in blue.

Lubrication:

- Silicon-based Lubricant on Poppet
- Molybdenum Dry Film Lubricant on SS316 Locking Screw.

VP33 Series Ordering Information and Dimensions

Basic Ordering Number		End Connections		Cv	Dimensions	mm (inch)
		Inlet	Outlet		L	Hex.
VP33A-	M-4N-	1/4 in. Male NPT		0.35	41 (1.62)	14.28 (9/16)
	M-4R-	1/4 in. ISO Male Tapered			19.05 (3/4)	
	F-4N-	1/4 in. Female NPT				
	F-4R-	1/4 in. ISO Female Tapered				
	MF-4N-	1/4 in. Male NPT	1/4 in. Female NPT			44 (1.75)
	FM-4N-	1/4 in. Female NPT	1/4 in. Male NPT		58 (2.28)	
VP33B-	M-8N-	1/2 in. Male NPT		1.20	58 (2.28)	22.22 (7/8)
	F-8N-	1/2 in. Female NPT			94 (3.71)	26.98 (1-1/16)
	MF-8N-	1/2 in. Male NPT	1/2 in. Male NPT		72 (2.83)	

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

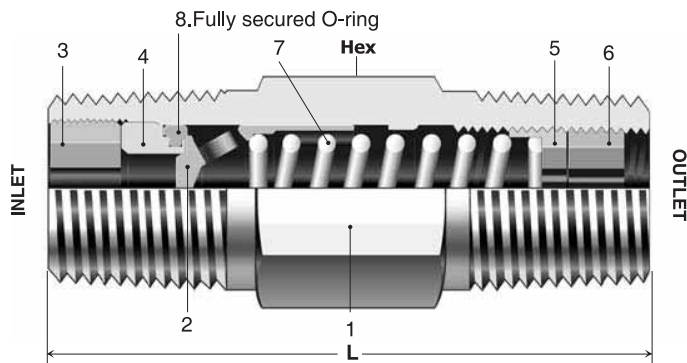


Table 2. Spring Cracking, Reseal and Back Pressure @ 70°F (21°C)

Spring Nominal Cracking Pressure Designator		Cracking Pressure Ranges				Reseal Pressures	
		Min. Pressure		Max. Pressure			
Psi	bar	Psig	bar	Psig	bar	Psig	bar
1/3	0.02	0	0	3	0.21	Up to 6	0.41
						Back Pressure	
1	0.07	0	0	4	0.28	Up to 5	0.34
						Back Pressure	
10	0.69	7	0.48	15	1.03	3	0.21
25	1.72	20	1.38	30	2.07	17	1.17

VA33 Series Adjustable Check Valves

- Features
 - Working pressure up to 3000 psig (206 bar)
 - Cracking pressure adjustable from 3 to 600 psig (0.2 to 41.3 bar)



Materials of Construction

Component	Valve Body Materials	
	Material Grade/ASTM	
1. Body	SS316 /A276, A479	Brass 360 / B16
2. Poppet		
3. Insert locking screw		
4. Insert		
5. Adjustable screw		
6. Locking screw		
7. Spring		
	SS302/A313	
8. O-ring	FKM, optional EPDM. Kalrez	NBR

Wetted parts are listed in blue.

Lubrication:

- Silicon-based Lubricant on Poppet
- Molybdenum Dry Film Lubricant on SS316 Locking Screw and Insert Locking Screw.

DK-LOK® Check Valves

VA33 Series Ordering Information and Dimensions

Basic Ordering Number	End Connections	Cv	L		Hex
			mm	inch	
VA33A-	F-4N-	1/4 in. Female NPT	75.7	2.98	3/4
	M-4N-	1/4 in. Male NPT	41.1	1.62	9/16
	M-4R-	1/4 in. ISO Male Tapped	41.1	1.62	9/16
VA33B-	M-8N-	1/2 in. Male NPT	65.0	2.56	7/8
	M-8R-	1/2 in. ISO Male Tapped	65.0	2.56	7/8

Table 3. Spring Cracking Pressure Range Designtor

Cracking Pressure Range @21°C (70°F)		Designator
psig	Bar	
3 to 50	0.2 to 3.4	3
50 to 150	3.4 to 10.3	50
150 to 350	10.3 to 24.1	150
350 to 600	24.1 to 41.3	350

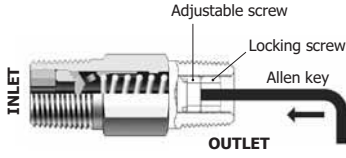
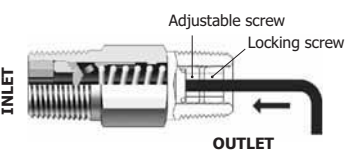
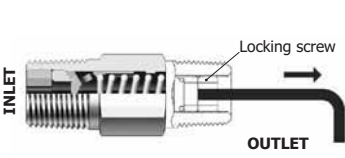
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How to Order

To complete ordering number, add adjustable spring designator to the basic ordering number and then specify valve material designator.

Body material designators: S for SS316, B for Brass. Example: VA33A-F-4N-3-S

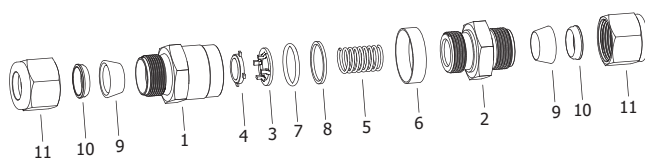
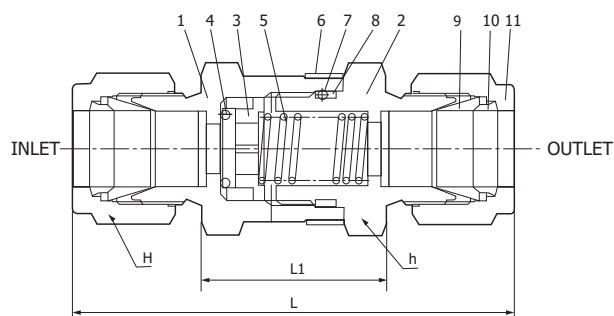
How to adjust cracking pressure

Step 1	Step 2	Step 3
 Slightly unscrew the locking screw counter-clockwise.	 1. Gently slide the allen key up to adjustable screw position. 2. Adjust cracking pressure. ● To increase cracking pressure, turn adjustable screw clockwise. ● To decrease cracking pressure, turn adjustable screw counter-clockwise.	 1. Move out the allen key up to the locking screw position. 2. To lock out the locking screw, turn the allen key clockwise.

VH36 Series High Pressure Check Valves VCH36 Series CNG Check Valves

Features

- High pressure 6000 psig (413 bar)
- Seal blow-out proof design with the bonded seal on poppet.



Materials of Construction

Component	Valve Body Material
	Material Grade/ASTM
1. Body	SS316 /A479, A276
2. Connector	
3. Poppet stop	
4. Poppet with bonded seal	Poppet : SS316 /A479, A276 Bonded Seal : FKM, optional EPDM & Kalrez HNBR standard for VCH36 series.
5. Spring	SS302 /A313
6. Indicator ring*	SS316 /A276
7. O-ring	FKM. HNBR standard for VCH36 Series.
8. Backup ring	PTFE /D1710
9. 10. 11. Dk-Lok Front & Back Ferrule and Nut	SS316 /A479, A276

Wetted parts are listed in blue.

*Indicator ring bears the information of spring designator.

Lubrication:

- Silicon-based Lubricant on Poppet
- Molybdenum Dry Film Lubricant on SS316 Connector threads

CNG Certifications

VCH36 Series check valve with CNG compatible HNBR O-ring are available with CNG certifications.

Certificates	ECE R110	ANSI / AGA NGV 3.1-1995 CGV NGV 12.3-M95	ISO 15500
Certificate No.	110R-000186	2010-REPORT-014 (00)	2010-REPORT-013 (00)
Classification	Class 0	Check valve	Check valve
Temperature	-40 to 120 °C (-40 to 250 °F)	-40 to 121 °C (-40 to 250 °F)	-40 to 121 °C (-40 to 250 °F)
Working Pressure	274 bar @ 120 °C	273 bar @ 121 °C	273 bar @ 121 °C

DK-LOK® Check Valves

VH36 Series Ordering Information and Dimensions

Basic Ordering Number		End Connections	Cv	Dimensions		mm (inch)		Pressure Rating psig (bar)
				L	L1	h	H	
VH36A- VCH36A-	D-2T-	1/8 in. Dk-Lok	0.67	57.7 (2.27)	26.4 (1.04)	7/16	11/16	6000 (413)
	D-4T-	1/4 in. Dk-Lok		61.7 (2.43)	26.4 (1.04)	9/16		
	D-6M-	6 mm Dk-Lok		61.7 (2.43)	26.4 (1.04)	14		
	F-4N-	1/4 in. Female NPT		54.1 (2.13)	-	-		
	M-2N-	1/8 in. Male NPT		45.5 (1.79)	26.4 (1.04)	-		
	M-4N-	1/4 in. Male NPT		55.1 (2.17)	26.4 (1.04)	-		
	F-4R-	1/4 in. ISO Female Tapered		57.9 (2.28)	-	-		
	M-4R-	1/4 in. ISO Male Tapered		55.1 (2.17)	26.4 (1.04)	-		
VH36B- VCH36B-	D-6T-	3/8 in. Dk-Lok	1.8	69.9 (2.75)	31.2 (1.23)	11/16	1	6000 (413)
	D-8T-	1/2 in. Dk-Lok		75.2 (2.96)	31.2 (1.23)	7/8	1	
	D-8M-	8 mm Dk-Lok		68.6 (2.70)	31.2 (1.23)	16	1	
	D-10M-	10 mm Dk-Lok		71.1 (2.80)	31.2 (1.23)	19	1	
	D-12M-	12 mm Dk-Lok		75.2 (2.96)	31.2 (1.23)	22	1	
	F-6N-	3/8 in. Female NPT		64.8 (2.55)	-	-	1	
	F-8N-	1/2 in. Female NPT		77.0 (3.03)	-	-	1-1/16	
	M-6N-	3/8 in. Male NPT		59.9 (2.36)	31.2 (1.23)	-	1	
	M-8N-	1/2 in. Male NPT		69.3 (2.73)	31.2 (1.23)	-	1	
	F-8R-	1/2 in. ISO Female Tapered		83.6 (3.29)	-	-	1-1/16	
	M-8R-	1/2 in. ISO Male Tapered		69.3 (2.73)	1.23 (31.2)	-	1	
	VH36C- VCH36C-	D-12T-		3/4 in. Dk-Lok	4.7	89.4 (3.52)	45.2 (1.78)	
D-16T-		1 in. Dk-Lok	98.6 (3.88)	45.5 (1.79)		1-1/2		
D-22M-		22 mm Dk-Lok	88.4 (3.48)	45.5 (1.79)		32		
D-25M-		25 mm Dk-Lok	98.6 (3.88)	45.5 (1.79)		40		
F-12N-		3/4 in. Female NPT	82.0 (3.23)	82.0 (3.23)		-		
F-16N-		1 in. Female NPT	97.3 (3.83)	97.3 (3.83)		-		
M-12N-		3/4" Male NPT	83.6 (3.29)	45.5 (1.79)		-		
M-16N-		1 in. Male NPT	93.2 (3.67)	45.7 (1.80)		-		
F-12R-		3/4 in. ISO Female Tapered	90.2 (3.55)	90.2 (3.55)		-		
F-16R-		1 in. ISO Female Tapered	97.3 (3.83)	97.3 (3.83)		-		
M-12R-		3/4 in. ISO Male Tapered	85.1 (3.35)	45.5 (1.79)		-		
M-16R-		1 in. ISO Male Tapered	93.2 (3.67)	45.7 (1.80)		-		

All dimensions shown are for reference only and subject to change. Dimensions with DK-LOK are in finger-tight position.

CNG/NGV valve ordering number

The basic ordering numbers listed in blue are not for CNG/NGV applicable valves.

Table 4. Spring Cracking, Reseal and Back Pressure @ 70 °F (21 °C)

Spring Nominal Cracking PressureDesignator		Cracking Pressure Ranges				Reseal Pressures	
		Min. Pressure		Max. Pressure			
psi	bar	psi	bar	psig	bar	psig	Bar
1/3	0.02	0	0	3	0.21	Up to 6	0.41
1	0.07	0	0	4	0.28	Back Pressure	
5	0.34	3	0.21	9	0.62	Up to 5	0.34
10	0.69	7	0.48	15	1.03	Back Pressure	
25	1.72	20	1.38	30	2.07	Up to 2	0.14
						Back Pressure	
						3	0.21
						17	1.17

How to Order

Select valve basic ordering number, applicable seal, spring nominal cracking pressure, and body material.

V33A-D-4T-
VP33B-F-8N-
VH36C-D-16T-

BN-

VT-

EP-

1/3-

1-

3-

S

B

S

Seal Material Designator	Spring Nominal Cracking Pressure Designator	Valve Body Material Designator
- FKM: Nil for SS316 Valve - NBR: Nil for Brass Valve - HNBR: Nil for VCH36 CNG valves - FKM: VT - NBR: BN - EPDM: EP - Kalrez: KZ	1/3: 1/3 psi 1: 1 psi 3: 3 psi 10: 10 psi 25: 25 psi Note: Select the spring designator from Table 1, 2, 3 and 4 of each valve Series.	- S: 316 stainless steel - B: Brass

DK-LOK® Check Valves

Spare Kits for Filed Assembly

Spring Kit

To order spring kit, prefix **"SK"**, select check valve Series and spring nominal cracking pressure designator.

Examples;

SK-V33A-1/3: 1/3 psig spring for V33A series

SK-VP33B-1: 1 psig spring for VP33B series

SK-VH36A-5: 5 psig spring for VH36A series

Seal Kit

To order seal kit, prefix **"SK"**, select valve Series and seal designator.

Examples;

SK-V33A-BN: NBR O-ring for V33A series

SK-VP33B-VT: FKM O-ring for VP33B series.

SK-VH36A-VT: FKM bonded seal for VH36A series

Note: Seal kit for V33F and VH36A/B/C Series are supplied with the poppet.

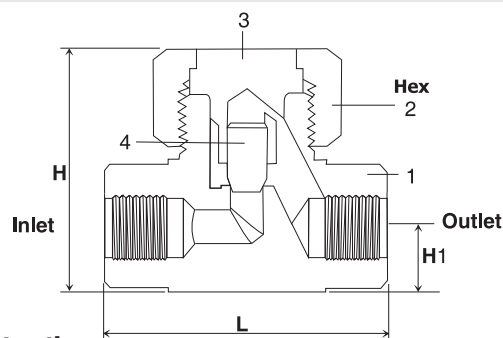
VL36 Series Lift Check Valves

Features

- Working pressure up to 6000 psig (413 bar)
- Temperature up to 900°F (482°C)
- Metal to metal seat

Operation

- Operation of this valve heavily depends on gravity assistance. Thus mounting horizontally with bonnet nut upward to allow poppet to operate vertically.
- Reverse flow closes the valve, keeping poppet in the orifice.
- Forward flow opens the valve, lifting the poppet
- Lift check valve is primarily for use in liquid systems. If a slight amount of leakage can be tolerated it can be used with heavy gases.
- Reverse flow Cv less than 0.1% of forward Cv.



Materials of Construction

Component	Grade/ASTM Specification
1 Body	SS316/A276 or A479
2 Bonnet Nut	SS316/A276 or A479
3 Bonnet	TYPE630/A564
4 Poppet	SS316/A276 or A479

Complete Ordering Number and Dimensions

Complete Ordering Number	End Connection	Orifice		Cv	Dimensions mm (in.)			
		mm	inch		L	H	H1	Hex
VL36A-	D4T-S	1/4 in. DK-LOK			61.0 (2.40)			
	D6M-S	6 mm DK-LOK			50.8 (2.00)	37.3 (1.47)	9.9 (.39)	7/8
	F2N-S	1/8 in. Female NPT	4.0	0.156	0.30			
	F4N-S	1/4 in. Female NPT			46.0 (1.81)			
	SW4T-S	1/4 in. tube socket weld			71.9 (2.83)			
VL36B-	D6T-S	3/8 in. DK-LOK			57.2 (2.25)	47.0 (1.85)	12.7 (.50)	1 1/4
	F4N-S	1/4 in. Female NPT	6.4	0.250	0.64			
	SW6T-S	3/8 in. Tube Socket Weld			99.6 (3.92)	62.0 (2.44)	15.7 (.62)	1 1/2
	SW8T-S	1/2 in. Tube Socket Weld			79.2 (3.12)			
VL36C-	D8T-S	1/2 in. DK-LOK			79.5 (3.13)			
	D12T-S	3/4 in. DK-LOK	11.1	0.437	2.20			
	F6N-S	3/8 in. Female NPT						
	F8N-S	1/2 in. Female NPT						
	SW8T-S	1/2 in. Tube Socket Weld						

All dimensions shown are for reference only and subject to change. Dimensions with DK-LOK are in finger-tight position.

Pressure-Temperature Ratings

ASME Class	2500
Material Group	2.2
Material Name	SS316
Temp. °F (°C)	Working Pressure psig (bar)
-65 to 100 (-53 to 37)	6000 (413)
200 (93)	5160 (355)
300 (148)	4660 (321)
400 (204)	4280 (294)
500 (260)	3980 (274)
600 (315)	3760 (259)
700 (371)	3600 (248)
800 (426)	3460 (238)
900 (482)	3280 (225)

How to order: Select a complete ordering number. i.e., VL36A-D-4T-S.

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 Tech accepts no liability for any improper selection, installation, operation or maintenance.

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