

# **Check Valves**

V33, VP33, VA33, VDA33, VH36 and VL36 Series VCH36 Series for CNG/NGV applications Pressures up to 3000 psig (206 bar) and 6000 psig (413 bar)

Catalog No. V336-7 December 2011

#### **Features**

• Fixed cracking pressure valves: V33, VP33, VH36, VCH36 Series

Adjustable cracking pressure valves: VA33, VDA33 Series

Lift Check valves: VL36 Series

### **Technical Information**

	V33	V33 Series		VP33 Series	VA33 & VDA33 Series	VH36	Series
Valve Series	V33A, V33B, V33C, V33D	V33E	, V33F	VP33A, VP33B	VA33A, VA33B, VDA33	VH36A, VH36B	VH36C
Materials	SS316 & Brass	SS316	Brass	SS316 & Brass	SS316 & Brass	SS316	SS316
Working Pressure @70°F (21°C) Unit: psi (bar)	3000 (206)	2000 (137)	1500 (103)	3000 (206)	3000 (206)	6000 (413)	5000 (344)
	Seal Material	Desig	gnator	Rating	Seal Material	Designator	Rating
	FKM O-ring	V	ſΤ	-10 to 375 (-23 to 190) (a)	EPDM O-ring	EP	-50 to 300 (-45 to 148)
Temperature Ratings °F (°C)	NBR O-ring	В	BN	-10 to 250 (-23 to 121)	FFKM O-ring	KZ	-22 to 410 (-30 to 210)
. (3)	(a)VH36 Series v • FKM is standa • NBR is standa	rd for SS316	s valves.	400°F (-23 to 204°C)			
Cracking Pressure	Refer to spring tal	Refer to spring table of each valve series					

 Poppet Check Valves, V33 Series : 2 page · High Pressure Check Valves, VH36 Series: 6, 7 page • One-Piece Check Valves, VP33 Series CNG/NGV Check Valves, VCH36 Series : 3 page : 6, 7 page • One-Piece Adjustable Check Valves, VA33 Series: 4, 5 page • Lift Check Valves, VL36 Series : 8 page

• In-Line Adjustable Check Valves, VDA33 Series : 4, 5 page

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

Cracking Pressure: Valve poppet is actuated when the pressure difference between the inlet (upstream) and the outlet (downstream) 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**

		V33	Series		VP33, VA33,	VDA33 Series	VH36	Series
Valve Series	/alve Series		V33E,	V33F	VP33A, VP33B, VA33A, VA33B, VDA33		VH36A, VH36B	VH36C
Tompovatura °F (°C)				Working	Pressure, psig (bar)			
Temperature, °F (°C)	SS316	Brass	SS316	Brass	SS316	Brass	SS316	Brass
-18 to 100 (-28 to 38)	3000 (206)	3000 (206)	2000 (137)	1500 ( <del>103</del> )	3000 (206)	3000 (206)	6000 (413)	5000 (344)
200 (93)	2575 (177)	2600 (179)	1715 (118)	1300 (89)	2575 (177)	2600 (179)	5160 (355)	4290 (295)
225 (175)	2510 (172)	2500 (172)	1670 (115)	1250 (86)	2510 (172)	2500 (172)	5030 (346)	4180 (288)
250 (121)	2450 (168)	2405 (165)	1630 (112)	1200 (82)	2450 (168)	2405 (165)	4910 (338)	4080 (281)
300 (148)	2325 (160)	-	1545 ( <del>106</del> )	-	2325 (160)	-	4660 (321)	3875 (267)
350 (176)	2255 (155)	-	1490 (102)	-	2255 (155)	-	4470 (308)	3720 (256)
375 (190)	2185 (150)	-	1450 (99)	-	2185 (150)	-	4375 (301)	3640 (250)
400 (204)	-	-	-	-	-	-	4280 (294)	3560 (245)

Quality Assurance System Certificate

Nuclear Quality Assurance System Certificate











DK Tech Fittings Type Approval Certificate







Canadian Certificate



### Operation

- · Valves that have not been actuated for a period of time may require a higher cracking pressure than the set cracking pressure.
- DK-LOK check valves prevent reverse flow in circuits. Do not use them as relief valves.
- DK-LOK 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 of DC-01.
- Special cleaning and packaging in accordance with DK-LOK DC-11 in compliance with ASTM G93 Level C is available on request.

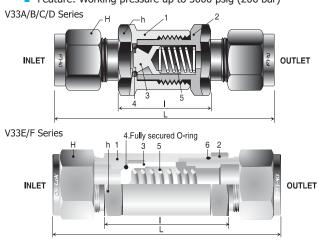
### V33 series

• Working pressure up to 3000 psig (206 bar)



### **V33 Series Poppet Check Valves**

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



### **Material of Construction**

	Valve Bod	y Materials		
Component	Stainless Steel	Brass		
	Material Grade/ASTM			
1. Body	SS316	Brass 360		
2. Connector	/A276, A479	/B16		
3. Poppet	JA270, A173	7510		
4. O-ring*	FKM	NBR		
5. Spring	SS302	2/A313		
6. O-ring seal	FKM	NBR		

- Wetted parts are listed in blue.
- 4. O-ring\* on V33E & V33F Series is secured in poppet groove.

#### Lubrication:

- Silicon-based Lubricant for Poppet.
  Molybdenum Dry Film Lubricant for SS316 Body Threads.

### **V33 Series Ordering Information and Dimensions**

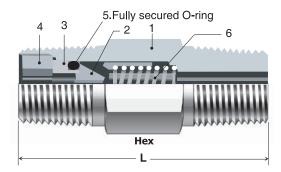
Basic	Ordering	End Cor	nections	Orifice			Dimensions	mm (inch)	
N	umber	Inlet	Outlet	mm (in.)	Cv	h-Hex	H-Hex	L	I
	D-2T-	1/8 in. [	k-Lok		0.16		11.11 (7/16)	55.60 (2.19)	25.00 (0.98)
	M-2N-	1/8 in. N	1ale NPT				-	44.40 (1.75)	-
	F-2N-	1/8 in. F	emale NPT	4.8			-	46.50 (1.83)	
V33A-	D-4T-	1/4 in. [	k-Lok	(0.19)	0.47	15.88 (5/8)	14.29 (9/16)	60.00 (2.36)	
	D-6M-	6 mm D	k-Lok	()	0.47		14.00	00.00 (2.30)	25.00 (0.98
	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. N	1ale NPT				-	53.40 (2.10)	
	F-4N-	1/4 in. F	emale NPT				-	56.80 (2.24)	-
V33B-	D-6T-	3/8 in. [	k-Lok	7.1	1.48	19.05 (3/4)	17.46 (11/16)	65.50 (2.58)	
VOOD-	D-10M-	10 mm Dk-Lok		(0.28)	1.40	19.03 (3/4)	19.00	03.30 (2.36)	27.10 (1.07
	M-6N-	3/8 in. N	1ale NPT				-	55.50 (2.19)	
	F-6N-	3/8 in. F	emale NPT				-	63.80 (2.51)	-
1/226	D-8T-	1/2 in. [	k-Lok	10.0	1.7	22.22 (7/8)	22.22 (7/8)	80.20 (3.16)	
V33C-	D-12M-	12 mm I	Ok-Lok	(0.39)	1./	22.22 (7/6)	22.00	00.20 (3.10)	36.20 (1.43
	M-8N-	1/2 in. N	1ale NPT				-	74.40 (2.93)	
V22D	F-8N-	1/2 in. F	emale NPT	13.5		20 50 (4 4 (0)	-	84.70 (3.33)	-
V33D-	D-10T-	5/8 in. [	k-Lok	(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. [	k-Lok	16.0			28.58(1-1/8)	110.70 (4.35)	67.00 (2.6)
V33E-	M-12N-	3/4 in. N	1ale NPT	16.0	5.2	31.75 (1-1/4)	-	105.30 (4.15)	67.00 (2.64
	F-12N-	3/4 in. F	emale NPT	(0.63)			-	103.00 (4.06)	-
	D-16T-	1 in. Dk	Lok	10.0		34.93 (1-3/8)	38.1 (1-1/2)	121.10 (4.77)	
V33F-	M-16N-	1 in. Ma	le NPT	18.0	8.0	34.33 (1-3/8 <del>)</del>	-	116.20 (4.57)	68.40 (2.69
	F-16N-	1 in. Fer	nale NPT	(0.71)		41.28 (1-5/8)	-	111.40 (4.39)	

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

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

### **VP33 Series One-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**

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



### Lubrication:

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



### **VP33 Series Ordering Information and Dimensions**

Basic (	Ordering	End Connections		Cv	Dimensions	mm (inch)	
Nu	mber	Inlet	Inlet Outlet		L	Hex.	
	M-4N-	1/4 in. M	ale NPT		41 (1.62)	14.28 (9/16)	
	M-4R-	1/4 in. ISO M	ale Tapered		41 (1.02)	14.20 (9/10)	
VP33A-	F-4N-	1/4 in. Fen	1/4 in. Female NPT				
VP33A-	F-4R-	1/4 in. ISO Fer	1/4 in. ISO Female Tapered		64 (2.54)	19.05 (3/4)	
	MF-4N-	1/4 in. Male NPT	1/4 in. Female NPT		44 (1.75)	19.03 (3/4)	
	FM-4N-	1/4 in. Female NPT	1/4 in. Male NPT		58 (2.28)		
	M-8N-	1/2 in. M	1/2 in. Male NPT		58 (2.28)	22.22 (7/8)	
VP33B-	F-8N-	1/2 in. Female NPT		1.20	94 (3.71)	26.98 (1-1/16)	
	MF-8N-	1/2 in. Male NPT	1/2 in. Male NPT 1/2 in. Male NPT		72 (2.83)	20.30 (1-1/10)	

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

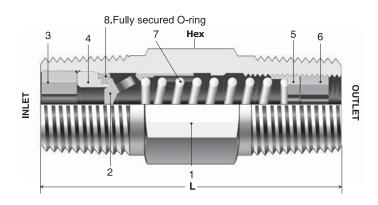
Table 2. Sprin	able 2. Spring Cracking, Resear and Dack Fressure @ 70 (21 0)					
Spring	Spring Nominal		Cracking Pressure Ranges			
Cracking Pre	ssure Designator	Min. P	ressure	Max. P	ressure	Reseal Pressures
psi	bar	psig	bar	psig	bar	psi (bar)
1/3	0.02	0	0	3	0.21	6 to 20 (0.41 to 1.38) back pressure
1	0.07	0	0	4	0.28	5 to 20 (0.34 to 1.38) back pressure
10	0.69	7	0.48	13	0.90	3 to 10 (0.21 to 0.69) back pressure
25	1.72	21	1.45	29	2.00	Minimum 5 (0.34) Reseal pressure

# **VA33 Series One-Piece Adjustable Check Valves VDA33 Series In-Line Adjustable Check Valves**

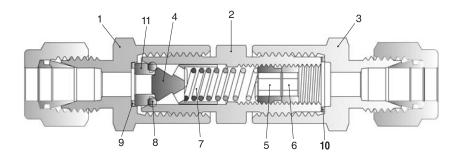
### **VA33 & VDA33 Series Features**

- Cracking pressure adjustable from 3 to 600 psig (0.2 to 41.3 bar)
- Working pressure up to 3000 psig (206 bar)
- Temperature up to 190 °C (375 °F) with FKM O-ring
- Standard materials : 316 stainless steel and brass.

### **VA33 Series**



#### **VDA33 Series**



### **Materials of Construction**

		Valve Body	Materials	
	Component	Stainless Steel	Brass	
		Material Gra	ade/ASTM	
VA33 Series	VDA33 Series			
	1. Inlet body			
1. Body	2. Center body			
	3. Outlet body	SS316	Brass	
2. Poppet	4. Poppet	/A276, A479	360 / B16	
3. Insert locking screw	-	71.27 57 117 5	300 / 210	
4. Insert	11. Insert			
5. Adjustable screw	5. Adjustable screw			
6. Locking screw	6. Locking screw			
7. Spring	7. Spring	SS302/	/A313	
8. O-ring	8. O-ring	FKM, Optional FFKM	NBR	
	9. Inlet gasket	TEE	1.0021.0	
	10. Outlet gasket		ed SS316	

Wetted parts are listed in blue.

### **Lubrication:**

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

### **VA33 Series Ordering Information and Dimensions**

Pacis Orda	Basic Ordering Number End Connections			l	_	Llavi
Dasic Orue	ing Number	End Connections	Cv	mm	inch	Hex
	F-4N-	1/4 in. Female NPT		75.7	2.98	3/4
VA33A-	M-4N-	1/4 in. Male NPT	0.35	41.1	1.62	9/16
	M-4R-	1/4 in. ISO Male Tappered		41.1	1.62	9/16
VA33B-	M-8N-	1/2 in. Male NPT	1.2	65.0	2.56	7/8
VA33D-	M-8R-	1/2 in. ISO Male Tappered	1.2	65.0	2.56	7/8



### **VDA33 Series Ordering Information and Dimensions**

Pagia Orda	sic Ordering Number End Connections Inlet Outlet		End Connections		ections	Cv	Dimensions mm(inch)		
Dasic Orue			Inlet Outlet		L	Н	h		
	D-4T-S	1/4 in.	1/4 in. DK-LOK		82.0(3.23)	9/16 in.			
1/5.400	D-6M-S	6mm D	K-LOK	0.07	82.0(3.23)	14mm	F (0.1)		
VDA33	D-8M-S	8mm DK-LOK		0.37	84.3(3.32)	16mm	5/8 in.		
	MD-4N4T-S	1/4 in. Male NPT	1/4 in. Male NPT 1/4 in. DK-LOK		79.2(3.12)	9/16 in.			

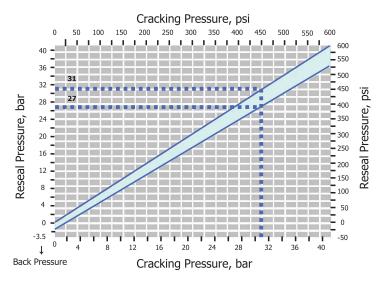


Table 3. VA33 & VDA33 Series
Spring Cracking Pressure Range Designator

	essure Range 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

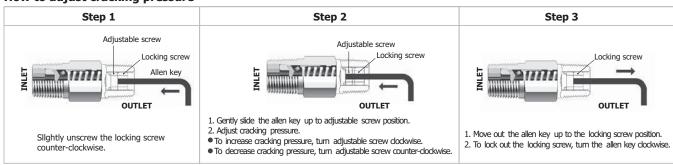
### Cracking Pressure vs. Reseal pressure

VA33 and VDA33 Series valves set to crack at 20 psig(1.3 bar) or lower may require back pressure(downstream pressure) to reseal the valve bubble tight.



Example shown : For a valve set to crack at 31 bar (450 psig), the minimum reseal pressure would be 27 bar (390psig).

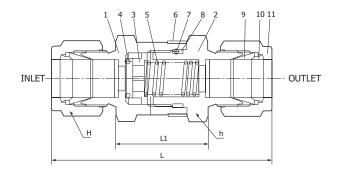
### How to adjust cracking pressure

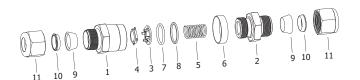


## **VH36 Series High Pressure Check Valves VCH36 Series CNG/NGV Check Valves**

### **Features**

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







### **Materials of Construction**

	Valve Body Material				
Component	Stainless Steel				
	Material Grade/ASTM				
1. Body					
2. Connector	SS316 /A479, A276				
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

### **VH36 Series Ordering Information and Dimensions**

Note: The basic ordering numbers indicated in blus are not for CNG/NGV applicable VCH36 Series vavlves.

Basic Ordering		ing End Connections	Cv	Dimensions mm (inch)				Pressure
Number	CV		L	L1	Н	h	Rating psig (bar)	
	D-2T-	1/8 in. Dk-Lok		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		
VH36A-	D-6M-	6 mm Dk-Lok		61.7 (2.43)	26.4 (1.04)	14		
VCH36A-	F-4N-	1/4 in. Female NPT	0.67	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)	-		
	D-6T-	3/8 in. Dk-Lok		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 1 1 1 1 1-1/16	
	D-8M-	8 mm Dk-Lok		68.6 (2.70)	31.2 (1.23)	16		
	D-10M-	10 mm Dk-Lok		71.1 (2.80)	31.2 (1.23)	19		
VH36B-	D-12M-	12 mm Dk-Lok	1.8	75.2 (2.96)	31.2 (1.23)	22		
VCH36B-	F-6N-	3/8 in. Female NPT		64.8 (2.55)	-	-		
	F-8N-	1/2 in. Female NPT		77.0 (3.03)	-	-		
	M-6N-	3/8 in. Male NPT		59.9 (2.36)	31.2 (1.23)	-		
	M-8N-	1/2 in. Male NPT		69.3 (2.73)	31.2 (1.23)	-		
	D-12T-	3/4 in. Dk-Lok		89.4 (3.52)	45.2 (1.78)	1-1/8	1-5/8	5000 (344)
	D-16T-	1 in. Dk-Lok		98.6 (3.88)	45.5 (1.79)	1-1/2		
VH36C- VCH36C-	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	4.7	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)	-		

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

Spring Nominal Cracking Pressure Designator		Cracking Pressure Ranges Min. Pressure Max. Pressure				Reseal Pressures	
psi	bar	psi	bar	psi	bar	psi (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 (0.35) back pressure	
5	0.34	3	0.21	9	0.62	Up to 2 (0.14) back pressure	
10	0.69	7	0.48	15	1.03	Minimum 3 (0.21) Reseal pressure	
25	1.72	20	1.38	30	2.07	Minimum 17 (1.2) Reseal pressur	

### Sour Gas Service

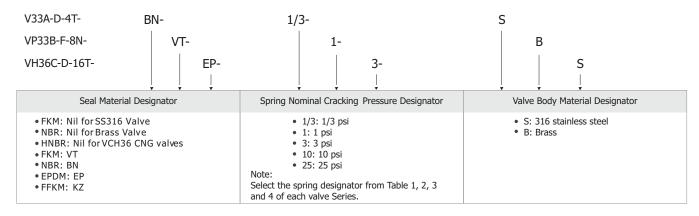
Materials of VH36 series valves for sour gas service are selected in accordance with the requirements of NACE MR0175

- Spring: alloy X-750/AMS5699
- Nominal Cracking Pressure: 1/3, 1, and 5 psi (0.03, 0.07 and 0.035 bar)
- Seal: ethylene propylene.

To order, insert-SG in the ordering number. i.e., VH36B-D-8T-SG-S

### **How to Order**

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



### **Spare Kits for Field Assembly**

#### **Spring**

Prefix "9SPR" and select an applicable valve series and the designator of the spring nominal cracking pressure.

9SPR-(Valve series)-(spring designator)-2

Example: 9SPR-V33A-1/3-2

### How to order VH36 Series spring kit.

VH36 spring kit contains a spring and an indicator ring.

Select an applicable valve series and the designator of the spring nominal cracking pressure.

(Valve series)-RINGSPR-(spring designator)-SA Example:VH36A-RINGSPR-5-SA

#### **O-ring**

Prefix "9ORG", select an applicable valve series and seal material designator.

Example: 9ORG-V33A-BN

#### How to order VH36 Series seal kit.

VH36 seal kit contains (Refer to VH36 Materials of Construction) #4. Poppet with bonded seal, #7. O-ring and #8. Backup ring.

Select an applicable valve series and seal material designator

SK-(valve series)-(seal material designator) Examples: SK-VH36A-VT, SK-VH36B-BN.

### **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 is limited to less than 0.1% of forward Cv.

# Hex 2 Inlet Hex Outlet

### **Materials of Construction**

	Valve Body Material		
Component	Stainless Steel		
	Material Grade/ASTM		
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	Oı	Orifice		Dimensions mm (in.)			
		Connection	mm	inch	Cv	L	Н	H1	Hex
	D4T-S	1/4 in. DK-LOK				61.0 (2.40)	27.2	0.0	7/0
	D6M-S	6 mm DK-LOK							
VL36A-	F2N-S	1/8 in. Female NPT 4.0	0.156	0.30	50.8 (2.00)	37.3	9.9	7/8	
	F4N-S	1/4 in. Female NPT				46.0 (4.04)	(1.47)	(.39)	
	SW4T-S	1/4 in. tube socket weld			46.0 (1.81)				
	D6T-S	3/8 in. DK-LOK		6.4 0.250	0.64	71.9(2.83)	47.0 (1.85)	12.7 (.50)	1 1/4
VL36B-	F4N-S	1/4 in. Female NPT	6.4			57.2 (2.25)			
VL30D-	SW6T-S	3/8 in. Tube Socket Weld	0.4						
	SW8T-S	1/2 in. Tube Socket Weld							
	D8T-S	1/2 in. DK-LOK		11.1 0.437 2.2		99.6 (3.92)	62.0	15.7	
	D12T-S	3/4 in. DK-LOK	11.1						1 1/2
VL36C-	F6N-S	3/8 in. Female NPT			2.20	79.2(3.12)			
	F8N-S	1/2 in. Female NPT					(2.44)	(.62)	
	SW8T-S	1/2 in. Tube Socket Weld				79.5 (3.13)			

#### **Pressure-Temperature Ratings**

	oracar o reactingo
ASME Class	2500
Material Group	2.2
Material Name	SS316
Tem p.	Working Pressure
°F (°C)	psig (bar)
-65 to 100	(000 (412)
(-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.

All dimensions shown are for reference only and subject to change. Dimensions with DK-LOK are in finger-tight position. We reserve the right to change specification stated in this catalog for our continuing program of product improvemenr.

### **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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