

VX36 Series Excess Flow Valves

Pressures up to 6,000 psig (413 bar)



DK-LOH



Bleed Vent integrated on Poppet

- Pressure equalization
- Reset the poppet to re-open the valve

Metal Seat • Durable and repeatable Minimal maintenance





IDK-LOK^{*} Excess Flow Valves

Operation

The spring loaded poppet keeps the valve open position in the normal operation. When an excess flow occurs downstream, the poppet immediately moves to the tripped position to stop rapid release of system fluid.

The valve returns to open position when pressure equalizes through the bleed vent constructed on poppet. The spring in the poppet resets the valve to open position. The least volume of flow goes through the bleed vent that is less than 1% of the valve flow rate while the valve in the tripped position.

Spring-loaded poppet design allows valve for use in vertical, horizontal or in any orientation.

Factory Test, Cleaning and Packaging

- Every valve is factory tested for performance in the tripped and open position.
- Valves are cleaned and packaged as per the requirements of DK Tech's product cleaning standard of DC-01.
- Oil free special cleaning and packaging in compliance with ASTM G93 Level C is available on request.

1 7 DK-LOK R 5 2 6

Materials of Construction

Component	Material			
* 1. Body				
* 2. Connector	SS316/ASTM A276 or ASTM A479			
* 3. Poppet				
* 4. Spring	SS302/ASTM A313			
* 5. O-ring	Standard FKM O-ring Optional NBR, EPDM, and FFKM			
6. Backup ring	Standard PTFE / ASTM D1710 Optional PEEK			
7. Indicator ring	Red-color anodized Aluminium			

* Wetted parts and lubricants listed in blue.



© Copyright 2001-2013. All Rights Reserved.

IDK-LOK[®] Excess Flow Valves

VX36 Series Flow Rate @ 70 °F (20 °C)

The valve stops rapid release of system fluid if a line rupture or similar thing occurs on the downstream by poppet's tripping into the metal seat position when flow volume through the valve increases to a set value.





VX36C Series Air



Pressure-Temperature Ratings

• Rating based on valve with standard FKM O-Ring.

ASME Class / Material Group	2500 / 2.2
Material	Stainless Steel 316
Temp. °F(°C)	Working Pressure psig (bar)
-10 (-23)~100 (37)	6,000 (413)
200 (93)	5,160 (355)
250 (121)	4,910 (338)
300 (148)	4,660 (321)
400 (204)	4,280 (294)

VX36A, B,C Series Water

Series	Cv	Trip Range U.S. gal/min (L/min)
VX36A	0.5	3.9 to 5.8 (14.7 to 21.9)
VX36B	1.1	8.2 to 10.0 (31.0 to 37.8)
VX36C		11.2 to 14.9 (42.3 to 56.3)

Optional O-ring Materials

• FKM O-Rings are standard. Add the designator to the ordering number for valve with optional O-ring material.

O-ring Materials	Designator	Temperature Rating °F(°C)
FKM	Nil	-10 ~ 400 (-23 ~204)
NBR	BN	-4 ~ 221 (-20 ~ 105)
EPDM	EP	-50 ~ 300 (-45 ~ 148)
FFKM	KZ	-10 ~ 400 (-23 ~ 204)

IDK-LOK^{*} Excess Flow Valves

VX36 Series



Ordering Information and Dimensions

Basic Ordering Number In		End Con	End Connections		Dimensions, mm (in)			
		Inlet	Outlet	Cv	L	L1	H	h1 h2
	D-4T-	1/4 in.	DK-Lok		61.7 (2.43)	26.4 (1.04)	9/16 in.	11/16 in.
	D-6M	6 mm DK-Lok			61.7 (2.43)	26.4 (1.04)	14 mm	11/16 in.
	M-2N-	1/8 in. Male NPT			45.5 (1.79)	26.4 (1.04)	-	11/16 in.
	F-2N	1/8 in. Female NPT			47.5 (1.87)	-	-	11/16 in.
VX36A-	M-4N	1/4 in. Male NPT		0.5	55.1 (2.17)	26.4 (1.04)	-	11/16 in.
	M-4R	1/4 in. Male PT			55.1 (2.17)	26.4 (1.04)	-	11/16 in.
	F-4N	1/4 in. Fe	male NPT		54.1 (2.13)	-	-	11/16 in.
	MD-4N4T-	1/4 in. Male NPT	1/4 in. DK-Lok		58.4 (2.3)	26.4 (1.04)	9/16 in.	11/16 in.
	MF-4N	1/4 in. Male NPT	1/4 in. Female NPT		54.6 (2.15)	-	-	11/16 in.
	D-6T-	3/8 in. DK-Lok			69.9 (2.75)	31.2 (1.23)	11/16 in.	1 in.
	D-8M	8 mm DK-Lok			68.6 (2.70)	31.2 (1.23)	16 mm	1 in.
1/V26P	M-6N-	3/8 in. Male NPT		11	59.9 (2.36)	31.2 (1.23)	-	1 in.
VV20D-	F-6N-	3/8 in. Female NPT		1.1	64.8 (2.55)	-	-	1 in.
	MD-6N6T-	3/8 in. Male NPT	3/8 in. DK-Lok		64.9 (2.56)	31.2 (1.23	11/16 in.	1 in.
	MF-6N6T-	3/8 in. Male NPT	3/8 in. Female NPT		62.4 (2.45)	-	-	1 in.
	D-8T-	1/2 in.	DK-Lok		75.2 (2.96)	31.2 (1.23)	7/8 in.	1 in.
VX36C-	D-12M-	12 mm	DK-Lok		75.2 (2.96)	31.2 (1.23)	22 mm	1 in.
	M-8N-	1/2 in. Male NPT			69.3 (2.73)	31.2 (1.23)	-	1 in.
	M-8R-	1/2 in. Male PT		11	69.6 (2.74)	31.2 (1.23)	-	1 in.
	F-8N-	1/2 in. Female NPT		1.1	77.0 (3.03)	-	-	1-1/16 in.
	F-8R-	1/2 in. Female PT			83.6 (3.29)	-	-	1-1/16 in.
	MD-8N8T-	1/2 in. Male NPT	1/2 in. DK-Lok		72.6 (2.86)	31.2 (1.23)	7/8 in.	1 in.
	MF-8N8T-	1/2 in. Male NPT	1/2 in. Female NPT		69.7 (2.53)	-	-	1 in. 1-1/16 in.

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

How to order

Select valve basic ordering number, applicable options, and body material.

VX36A-D-4T-	BN-					S
VX36A-D-4T-		EP-				
VX36C-D-8T-	V	•	KZ-	PK- ↓		•
O-ring M	Material Des	signator			Backup Ring	Valve Body Material Designator
Nil : FKM				Nil : PTFE		S: 316 stainless steel
BN : NBR				PK : PEEK		
EP : EPDM						
KZ : FFKM (Kalrez	:)					

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.





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