

VALVE AND FLOW CONTROL SPECIALISTS

SERVICE AND RELIABILITY

No.VD3-2 May 2016

VD3 Series Diaphragm Valves

Valves

VD3 Series Pressure Rating up to 241bar (3,500 psig)



Features

- It is featured that the diaphragm valve serves economical, high performance and high cycle life time.
- The diaphragm valve is used for shut-off, isolation in gas control systems, and analyzer sampling systems.
- The valve ensures positive and consistent shut-off with manual and offers a metal to metal seal to atmosphere for leak integrity with thin plate diaphragm.

Technical Data

Body Material	Seat Material	Temperature Rating °F (°C)	Pressure Rating @ -40 ~ 160 °F (-40 ~ 70°C)	Control Volume
SS316L/A276	PCTFE	-40 ~ 150 (-40 ~ 66)	0 ~ 3,500 psig (241 barg)	1 cc
BRASS/B16 PCTFE		-40 ~ 150 (-40 ~ 66)	0 ~ 3,500 psig (241 barg)	1 cc

Metarial of Construction



Components	Valve Body Materials			
Components	Stainless Steel	Brass		
	Material Grade/AS	TM Specification		
1. BODY	SS316L / A276	Brass / B16		
2. SEAT	PCT	FE		
3. DIAPHRAGM	UNS R3000	3 (Elgiloy)		
4. STEM	SS316L	/ A276		
5. BONNET	SS316L	/ A276		
6. KNOB NUT	Stainles	s Steel		
7. KNOB	AB	S		
8. WASHERS	Stainles	s Steel		
9. LOCK NUT	Stainles	s Steel		
10. KNOB CAP	AB	S		

Factory Test

Every valve is factory tested with nitrogen gas @1,000 psig (68.9 barg) for leakage to a maximum allowable leak rate of 0.1 SCCM at seat. Hydraulic shell test is optionally performed at 1.5 times the working pressure to a requirement of no detectable leakage with a liquid leak detector.

Cleaning and Packaging

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 for valves with PCTFE and PTFE seats.



























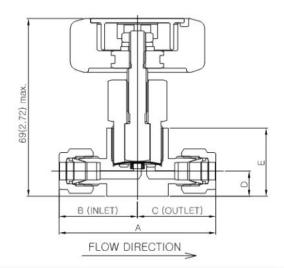


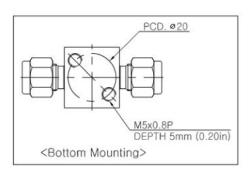
<u>VALVE AND FLOW CONTROL SPECIALISTS</u> SERVICE AND RELIABILITY

IDK-LOK Diaphragm Valves

VD3 Series

Dimensions and Port Layout

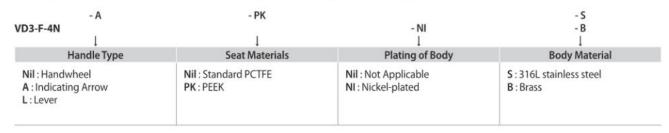




Basic Ordering Number		End Connections		Orifice	6.	Dimensions, mm (in.)				
		Inlet (B)	Outlet (C)	mm (in.)	Cv	A	В	С	D	Е
VD3-	D-4T-	1/4 in.	DK-Lok		0.17	58.6 (2.31)	29.3 (1.15)	29.3 (1.15)	9.4 (0.37)	25.4 (1.00)
	M-4N-	1/4 in.	Male NPT			48.4 (1.91)	24.2 (0.95)	24.2 (0.95)		
	F-4N-	1/4 in.	Female NPT			50.8 (2.00)	25.4 (1.00)	25.4 (1.00)		
	DF-4T4N-	1/4 in. DK-Lok	1/4 in. Female NPT	2.8 (0.11)		54.7 (2.15)	29.3 (1.15)	25.4 (1.00)		
	FD-4N4T-	1/4 in. Female NPT	1/4 in. DK-Lok				25.4 (1.00)	29.3 (1.15)		
	DM-4T4N-	1/4 in. DK-Lok	1/4 in. Male NPT			53.5 (2.11)	29.3 (1.15)	24.2 (0.95)		
	MD-4N4T-	1/4 in. Male NPT	1/4 in. DK-Lok				24.2 (0.95)	29.3 (1.15)		
	MF-4N4N-	1/4 in. Male NPT	1/4 in. Female NPT			49.6 (1.95)	24.2 (0.95)	25.4 (1.00)		
	FM-4N4N-	1/4 in. Female NPT	1/4 in. Male NPT				25.4 (1.00)	24.2 (0.95)		

How to Order

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



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.

AUSTRALIA - Brisbane Sydney Melbourne Victoria Darwin

© Copyright 2012-2016. All Rights Reserved. VALVE AND FLOW CONTROL SPECIALISTS PTY LTD E-mail sales@valveandflowcontrolspecialists.com

IDK-LOK° USA

■ 3350 SpringHill Ave., Mobile, AL 36607 ■ T: (251) 472-9580 ■ F: (251) 450-0962 ■ Toll Free: (800) 328-5803 www.dklokusa.com