Valves

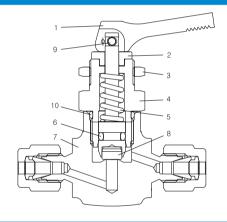
Pressure Rating up to 300 psig (20.6 bar)

Design & Features



- Valves are designed for use in gas sampling, analysis systems and tset equipment.
- In-line and angle flow pattern.
- O-ring seal below stem spring protects the spring from contamination.
- Quick open and close.
- Soft seat for repetitive shut-off
- Standard panel mounting.

Materials of Construction



	Valve Body Material					
Component	SS316	Brass				
	Grade/ASTM Specification					
1. Handle	Nylon					
2. Washer	Nylon					
3. Panel Nut	SS316/A276	Brass B16				
4. Packing nut	33310/A270	DIASS DIO				
5. Spring	Stainless Steel 302					
6. Stem O-ring	FKM	NBR				
7. Body	SS316/A182	Brass B283				
8. Stem tip	PTFE/D1710					
9. Handle Pin	Stainless Steel					
10. Body O-Ring	FKM NBR					

Wetted component listed in blue and silicon based lubricdant.

Operation

- To open the valve, lift the handle.
- Spring forces the valve to close.
- Soft seat provides leak-tight sealing under positive pressure and vacuum conditions.
- Stem O-ring seal eliminates packing adjustment.

Technical Data

Pressure and Temperature Ratings

	•	_					
Valve Series		Ori	fice	Pressure Rating @ 100 °F (38 °C)	Temperature Rating		
	vaive series	inch	mm	for SS316, Brass body	remperature nating		
	V103A	0.080	2.00	200 psig	FKM O-ring		
	V103B	0.125	3.20	300 psig	-20 to 200 °F		
	V103C	0.250	6.40	200 psig	(-28 to 93 °C)		

Optional O-Ring Material

FKM O-rings are standard and other materials are Buna C, EPDM and Kalrez.

Low Temperature Service

O-ring	Temperature Range, °F(°C)
Buna C	-65 to 200 (-53 to 93)

Factory test

Every valve is factory tested at 200psig (13 bar) with nitrogen gas at the seat and seal.

















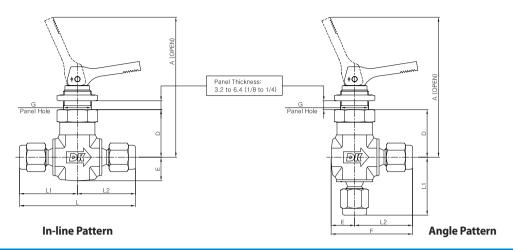












Ordering Information and Dimensions

Basic		End Connection		Orifice		Cv	Dimensions mm (in.)							
Orderin	ng Number	Inlet	Outlet	in.	mm	CV	L	L1	L2	D	E	F	G	Α
	M-2N-	1/8 in.	Male NPT				38.1 (1.5)	19.05 (0.75)	19.05 (0.75)			27.0 (1.06)		
V/102 A	D-2T-	1/8 in.	DK-Lok	0.08 2	0.11	49.8 (1.96)	24.0 (0.09)	24.0 (0.00)	23.4	10.6		13.5	72.9	
V103A-	D-3M-	3 mm DK-Lok		0.08		2	49.0 (1.90)	24.9 (0.98) 24.9 (0.98	24.9 (0.98)	(0.92)	(0.42)	32.8 (1.29)	(0.53)	(2.87)
	MD-2N2T-	1/8 in. Male NPT	1/8 in. DK-Lok	1			43.9 (1.73)	19.05 (0.75)	24.9 (0.98)					
	F-2N-	1/8 in.	Female NPT				41.4 (1.63)	20.6 (0.81)	20.6 (0.81)			30.2 (1.19)		
	M-2N-	1/8 in.	Male NPT				43.7 (1.72)	21.8 (0.86)	21.8 (0.86)			31.2 (1.23)		
	M-4N-	1/4 in.	Male NPT	0.125	5 3.2		49.8 (1.96)	24.9 (0.98)	24.9 (0.98)			34.5 (1.36)		
V/102D	D-4T-	1/4 in.	DK-Lok			0.3	57.4 (2.26)	28.7 (1.13)	28.7 (1.13)	21.8	9.5	38.1 (1.5)	13.5	71.4
V103B	D-6M-	6 mm	DK-Lok			0.2	57.4 (2.26)	28.7 (1.13)	28.7 (1.13)	(0.86)	(0.38)	38.1 (1.5)	(0.53)	(2.81)
	D-8M-	8 mm	DK-Lok				56.4 (2.22)	28.2 (1.11)	28.2 (1.11)			37.6 (1.48)	⊣	
	MF-2N-	1/8 in. Male NPT	1/8 in. Female NPT				41.4 (1.63)	20.6 (0.81)	20.6 (0.81)			30.2 (1.19)		
	MD-4N4T-	1/4 in. Male NPT	1/4 in. DK-Lok				53.6 (2.11)	24.9 (0.98)	28.7 (1.13)			38.1 (1.5)		
	F-4N-	1/4 in.	Female NPT	0.25	0.25 6.4		53.8 (2.12)	26.9 (1.06)	26.9 (1.06)			39.6 (1.56)		
V103C-	M-6N-	3/8 in.	Male NPT				57.2 (2.25)	28.4 (1.12)	28.4 (1.12)			41.1 (1.62)	1	
	D-6T-	3/8 in.	DK-Lok			0.7	65.5 (2.58)	32.8 (1.29)	32.8 (1.29)	26.9 12	12.7	45.5 (1.79)	16.8	90.4
	D-8T-	1/2 in.	DK-Lok			0.7	71.1 (2.8)	35.6 (1.4)	35.6 (1.4)	(1.06)	(0.5)	48.3 (1.9)	(0.66)	(3.56)
	D-10M-	10 mm	DK-Lok				69.1 (2.72)	34.5 (1.36)	34.5 (1.36)			47.2 (1.86)	1	
	D-12M-	12 mm	DK-Lok				74.2 (2.92)	37.1 (1.46)	37.1 (1.46)			49.8 (1.96)		

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

How to Order

Select basic ordering number, applicable valve pattern, O-ring and body material designators listed below.

V103B-D-4T -A	-BC	-S				
\downarrow	↓	\downarrow				
Valve Pattern	O-ring Designator	Body Material				
• Nil: Inline pattern • A : Angle pattern	Nil : FKMKZ : KalrezBC : Buna-CEP : EPDM	• S : SS316 • B : Brass				

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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