

V103 Series Toggle Valves

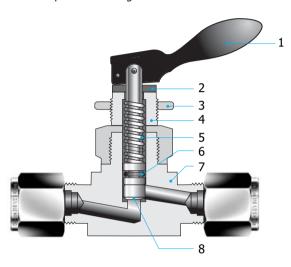
Pressure Rating up to 300 psig (20.6 bar)

Catalog No. V103-3 May 2008

Toggle Valves for Quick Shut-Off

Features

- Quick open and close
- . Soft seat for repetitive shut-off
- Study Aluminum handle
- Standard panel mounting



Materials of Construction

	Valve Body Material				
Component	SS316	Brass			
	Grade/ASTM Specification				
1. Handle	Aluminium black anodized				
2. Washer	Nylon				
3. Panel Nut	SS316/A276	Dunes 200/D10			
4. Packing nut	33310/A270	Brass 360/B16			
5. Spring	Stainless/A313				
6. Stem	SS316/A276				
O-ring	FKM				
7. Body	SS316/A182	C377/B283			
8. Stem tip	PTFE/D1710				
Lubricant	Silicon based				

Wetted component listed in blue.

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.
- O-ring stem seal eliminates packing adjustment.

Design

- Valves are designed for use in gas sampling, analysis systems and test equipment.
- In-line and angle flow pattern.
- O-ring seal below stem spring protects the spring from contamination.

Technical Data

Pressure and Temperature Ratings

Valve Series	Or	ifice	Pressure Rating @ 100 °F (37 °C)	Temperature	
vaive series	inch	mm	for SS316, Brass body	Rating	
V103A	0.080	2.00	300 psig	FKM O-ring	
V103B	0.125	3.20	500 psig	-20 to 200 °F	
V103C	0.250	6.40	200 psig	(-28 to 93 °C)	

Optional O-ring

O ring	Tempera	ture range	Application	Designator	
O-ring	°F	°C	Application		
Buna-C	-65 to 200	-53 to 93	Low temperature service	BC	
Kalrez	-30 to 600	-30 to 316	High temperature service	KZ	

Factory test

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











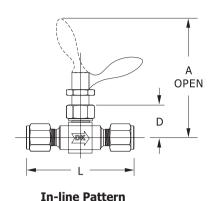


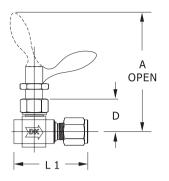












Angle Pattern



Ordering Information and Dimensions

Basic Ordering Number		End Connection		Orifice		0.	Dimensions in.(mm)			
		Inlet	Outlet	in.	mm	Cv	L	L1	D	Α
V103A- M-2N D-2T D-3M	M-2N	1/8 in. N	Male NPT		2.0	0.11	1.5 (38.1)	1.06 (27.0)		
	D-2T	1/8 in.	Dk-Lok	0.080			1.96 (49.8)	1.29 (32.8)	.92	2.87 (72.9)
	D-3M	3mm	Dk-Lok	0.000					.92 (23.4)	(72.9)
	MD-2N2T	1/8 in. Male NPT	1/8 in. Dk-Lok				1.73 (43.9)			
	F-2N	1/8 in. Fe	emale NPT				1.63 (41.4)	1.19 (30.2)		
	M-2N	1/8 in. N	1/8 in. Male NPT				1.72 (43.7)	1.23 (31.2)		
	M-4N	1/4 in. N	Male NPT				1.96 (49.8)	1.36 (34.5)		2.81 (71.4)
V103B-	D-4T	1/4 in.	Dk-Lok	0.125	3.2	0.20	2.26 (57.4)	1.50 (38.1)	.86 (21.8)	
V103D-	D-6M	6mm I	Ok-Lok		J.2	0.20				
	D-8M	8mm I	Ok-Lok			-	2.22 (56.4)	1.48 (37.6)		
	MF-2N	1/8 in. Male NPT	1/8 in. Female NPT				1.63 (41.4)	1.19 (30.2)		
	MD-4N4T	1/4 in. Male NPT	1/4 in. Dk-Lok				2.11 (53.6)	1.50 (38.1)		
	F-4N	1/4 in. Fe	emale NPT				2.12 (53.8)	1.56 (39.6)		
	M-6N	3/8 in. Male NPT					2.25 (57.2)	1.62 (41.1)		
V103C-	D-6T	3/8 in.	Dk-Lok	0.250		0.70	2.58 (65.5)	1.79 (45.5)	1.06 (26.9)	3.56 (90.4)
	D-8T	1/2 in.	L/2 in. Dk-Lok	0.250	6.4	0.70	2.80 (71.1)	1.90 (48.3)		
	D-10M	10mm	Dk-Lok				2.72 (69.1)	1.86 (47.2)		
	D-12M	12mm	Dk-Lok				2.92 (74.2)	1.96 (49.8)		

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-41	-A ▼	-BC	- 5 ▼
Valve	Pattern	O-ring Designator	Body Material
Nil: Inline pattern A : Angle pattern		Nil: FKM KZ: Kalrez BC: Buna-C	• S : S316 • B : Brass

We reserve the right to change specifications stated in this catalog for our continuing program of improvement.

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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