

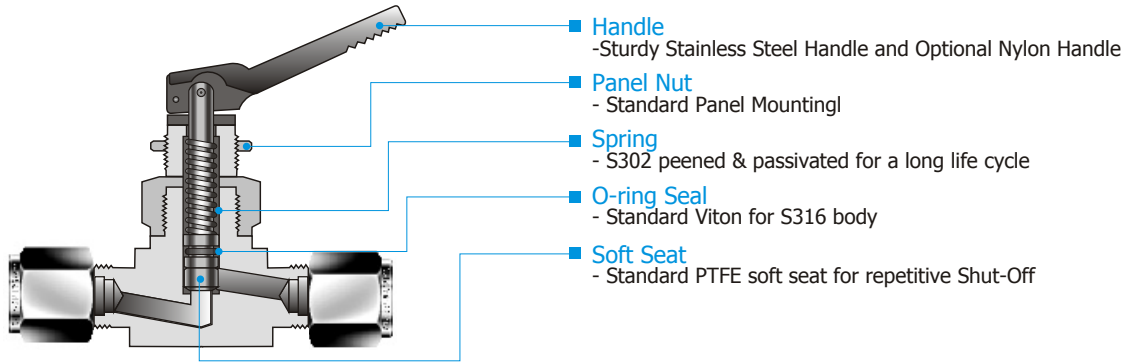


V103 Series Toggle Valves

Forged body, Pressure Ratings up to 300 psig

Catalog No. V103-2
May. 2004

Toggle Valves for Quick Shut-Off



Design

D-Pro Toggle Valves are designed to instantaneously open and close the flow of fluids, Gases or vacuum applications
 D-Pro Toggle Valves are ideally suited for use in gas sampling and analysis systems as well as test equipment
 Standard S316 and Brass construction and Standard Forged Body with Inline and Angle pattern Panel mounting is standard
 This valve is O-ring sealed to eliminate leakage and maintenance. The O-ring is positioned between the operating mechanism and the seat, and the seals protect the mechanism from contamination.

Factory test

Every Valve is factory tested at 200 psig (13 bar) with nitrogen for leakage at the seat and seal.

Technical Data

Pressure and Temperature Ratings

Valve Body	Orifice Size	Pressure rating @37 C (100)	Temperature Rating
V103A	2.0mm	300psig	-28 C to 93 C (-20 F to 200 F)
V103B	3.2mm		
V103C	6.4mm	200psig	

These Temperature and Pressure Ratings are for valves with standard Stem Seal and Stem tip. Optional O-Seal shall affect the temperature Ratings.

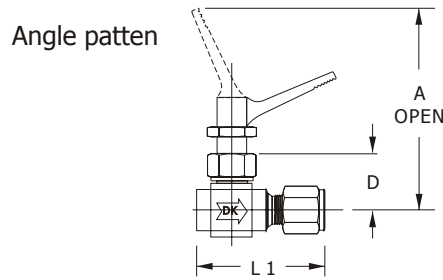
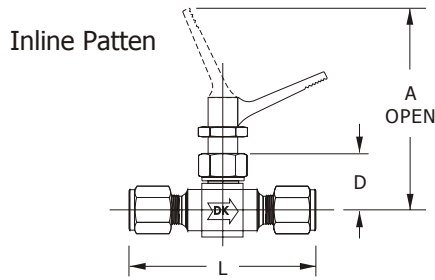
For Materials of Construction
 Wetted parts are listed in bold letters
 Viton - TM Dupont

Materials of Construction

Parts	Materials	
	S316	Brass
Body	S316	Brass
packing nut	S316	brass
spring	Stainless steel	Stainless steel
stem seal	Viton	Buna-n
stem	S316	
stem washer	Stainless Steel	
handle	Standard Stainless Optinal Nylon	
stem tip	PTFE	
panel nut	S316	Brass

Optional Stem O-ring Seals

Viton O-ring is standard for S316 body and Buna-N is standard for Brass body. Optional O-ring materials for low and high temperature service are available. Valves for low temperature service -53 C to 93 C (-65 F to 200 F), Buna-C O-ring ,and Valves for high temperature -30 C to 316 C (-30 F to 600 F), Kalrez O-ring is recommended. Copyright 2002, Dk-Tech Co, Ltd. All Right Reserved.



Ordering information and table of dimensions

valve ordering Number	End Connection		Oriifice		Cv	Dimensions (mm)				
	inlet	outlet	mm	In		L	L1	A	D	
V103A	M-2N	1/8" Male NEPT	2.0	0.080	0.11	38	27	73	23	
	D-2T	1/8" Dk-Lok	2.0	0.080	0.11	50	33	73	23	
	D-3M	3mm DK-Lok	2.0	0.080	0.11	50	33	73	23	
	MD-2N2T	1/8" Male NPT	2.0	0.080	0.11	44	33	73	23	
V103B	F-2N	1/8" Female NPT	1/8" Dk-Lok	3.2	0.125	0.20	41	30	71	22
	M-2N	1/8" Male NPT		3.2	0.125	0.20	44	32	71	22
	M-4N	1/4" Male NPT		3.2	0.125	0.20	50	35	71	22
	D-4T	1/4 Dk-Lok		3.2	0.125	0.20	57	38	71	22
	D-6M	6mm Dk-Lok		3.2	0.125	0.20	57	38	71	22
	D-8M	8mm Dk-Lok		3.2	0.125	0.20	56	37	71	22
	MF-2N	1/8" Male NPT	1/8" Female NPT	3.2	0.125	0.20	41	30	71	22
	MD-4N4T	1/4" Male NPT	1/4" Dk-Lok	3.2	0.125	0.20	54	38	71	22
V103C	F-4N	1/4" Female NPT		6.4	0.250	0.70	54	40	90	27
	M-6N	3/8" Male NPT		6.4	0.250	0.70	57	41	90	27
	D-6T	3/8" Dk-Lok		6.4	0.250	0.70	66	45	90	27
	D-8T	1/2" Dk-Lok		6.4	0.250	0.70	71	49	90	27
	D-10M	10mm Dk-Lok		6.4	0.700	0.70	69	48	90	27
	D-12M	12mm Dk-Lok		6.4	0.700	0.70	74	50	90	27

All dimensions shown are for reference only and are subject to change. Dimensions with Dk-Lok nuts are in finger-tight position. Patterns: To order angle pattern, use -A as a suffix to the valve ordering number. Example: V103A-M-2N-A

How To Order

Select applicable Valve pattern, O-ring and body material designators listed below.

Valve Pattern	O-ring Designator	Body Mataterial
<ul style="list-style-type: none"> • Nil : Inline pattern • A : Angle pattern 	<ul style="list-style-type: none"> • Nil : Viton o-ring for S316 body Buna-N for Brass body • Kz : Kalrez • Bc : Buna-C 	<ul style="list-style-type: none"> • S : S316 • B : Brass

Example : V103A-M-2N-S for Inline pattern, Standard Viton O-ring and S316 body
V103A-M-2N-A-KZ-S for angle pattern, Kalrez O-ring and S316 body

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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