

V81 Series Ball Valve

Pressures rating of 68.9 bar (1000 psig) and 137bar (2000 psig)

Catalog No. V81-5 Sept. 2008



Valve with lever handle

Working pressure

PTFE seats: 68.9 bar (1000 psig)

TFM seats: 137 bar (2000 psig)

Design Features

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- Compact barstock construction for high integrity
- Blow-out proof design with internally loaded stem
- Floating Ball design providing seat wear compensation
- Micro-finished ball ensures a leak-tight shut-off on pressure

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Standard lever handle, optional butterfly handle.



Valve with butterfly handle

- Working pressure

 PTFE seats: 68.9 bar (1000 psig)
- TFM seats not applicable

Applications

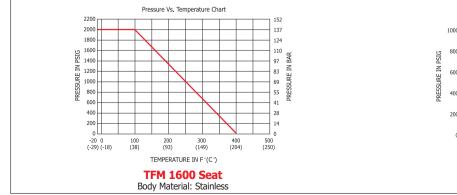
V81 series ball valve offers a safe and reliable performance for a wide range of onshore and offshore applications: water, oil, gas, petrochemical and general duty applications.

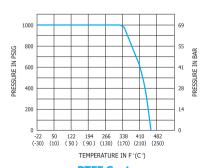
Materials of Construction

Commonant	Valve Body Materials						
Component	Stainless Steel	Brass					
1. Body	SS316/ASTM A276 or A479	ASTM B16 or JIS H3250					
2. Ball	SS316 / ASTM A276						
3. Seat (2)	PTFE / D1710 for pressure 68.9 bar (1000 psig) TFM 1600 for pressure 137 bar (2000 psig)*						
4. O-Ring (2)	FKM	NBR					
5. End Connector (2)	CC24.6/ ACTM A276 - A470	ACTM D4C . TIC UDDEO					
5-1. Insert	SS316/ ASTM A276 or A479	ASTM B16 or JIS H3250					
6. Ball Valve Stem	SS316/ ASTM A276 or A479						
7. Lower Packing	PTFE / D1710						
8. Upper Packing	PTFE / D1710						
9. Grand Washer	SS304 /ASTM A276 or A479						
10. Spring Washer	Stainless Steel						
11. Handle	SS304 Lever handle with vinyl sleeve ZINC/ ASTM B240 Butterfly handle, Nickel-plated						
12. Lock Nut	SS304	SS304					

- 5. End Connector is for DK-LOK end connection
- 5-1. Insert is for Pipe Thread end connection
- TFM 1600 seat is applicable only to body in stainless

Pressure - Temperature Curves





PTFE Seat Body Material: Stainless and Brass



















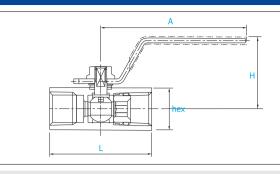


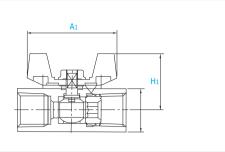




D-Pro® Ball Valves

V81 Series





Ordering Information and Table of Dimensions

Basic Ordering Number		End Connection Inlet / Outlet	Cv	Orifice mm (in.)	Dimensions, mm (in.)					
					L	Н	hex	Α	A 1	H1
V81A-	D-6M	6mm DK-LOK	1.25	5 (0.20)	79 (3.11)	31 (1.22)	17 (11/16)	59.5 (2.34)	30.50 (1.20)	23.50 (0.93)
	D-4T	1/4 in. DK-LOK	1.25		79 (3.11)					
	F-4N	1/4 in. Female NPT	1.35		41.9 (1.65)					
V81B-	D-10M	10mm DK-LOK	2.6	7.50 (0.30)	90 (3.54)	40 (1.57)	20.64 (13/16)	81 (3.19)	42.00 (1.65)	30.00 (1.18)
	D-6T	3/8 in. DK-LOK	2.5		90 (3.54)					
	F-6N	3/8 in. Female NPT	2.6		45 (1.77)					
V81C-	D-12M	12mm DK-LOK	9.25	9.00 (0.35)	98 (3.86)					
	D-8T	1/2 in. DK-LOK	9.25		98 (3.86)	42 (1.65)	27 (1-1/16)	81 (3.19)	46.00 (1.81)	35.70 (1.41)
	F-8N	1/2 in. Female NPT	9.25		56.15 (2.21)					
V81D-	D-16M	16mm DK-LOK	10.6		108 (4.25)	51 (2.00)	32 (1-1/4)	102.5 (4.04)	49.50 (1.95)	38.10 (1.50)
	D-10T	5/8 in. DK-LOK	10.6	12.50	108 (4.25)					
	F-12N	3/4 in. Female NPT	12.65	(0.49)	60 (2.36)					
	D-12T	3/4 in. DK-LOK	12.65		109 (4.29)					
V81E-	D-16T	1 in. DK-LOK	17.35	16.00 (0.63)	133 (5.23)	55	38	102.5	68.00	45.00
	F-16N	1 in. Female NPT	17.35		78.1 (3.07)	(2.16)	(1-1/2)	(4.04)	(2.68)	(1.77)

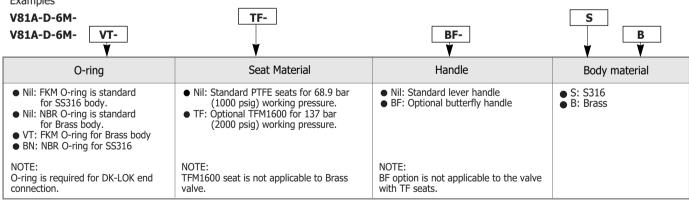
Dimensions shown are for reference only, subject to change. Dimensions with DK-LOK nuts are in finger-tight position

Factory Test

Every valve is factory tested with nitrogen gas @41 bar (600 psig) for leakage at the seat to a maximum allowable leak rate of 0.1 SCCM. The packing is tested with nitrogen for no detectable leakage.

How to order

Select valve ordering number, applicable option(s) from designator tables listed below. Examples



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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