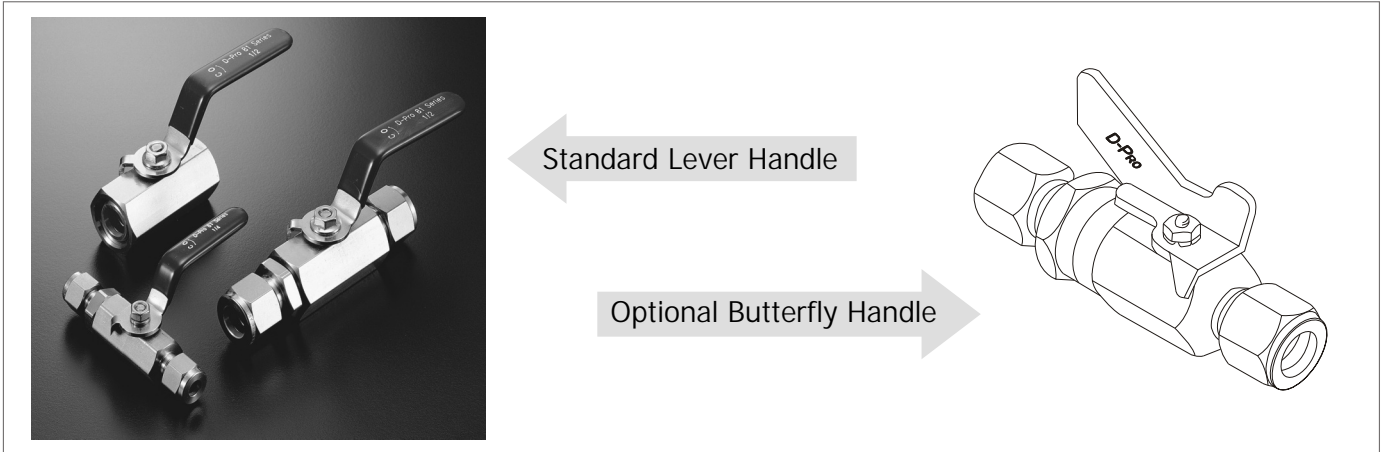


D-Pro

V81 Series Ball Valve

For working pressure up to 1000 psig (69 bar)

Catalog No. V81-2
Nov. 2003



Design Features

- Compact S316 bar-stock 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 and vacuum.
- Low torque quarter turn actuation with a stainless steel lever handle
- Broad choices of end connections; reliable Dk-Lok®, NPT & ISO male & Female

Applications

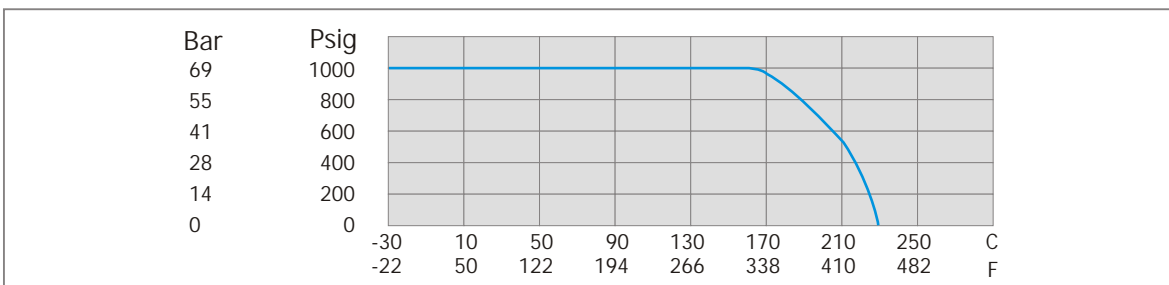
- V81 series ball valve offers a safe and reliable performance for a wide range of onshore and offshore applications: Water, oil, gas, petrochemical and general duty applications.

Factory Test

- Every valve is factory tested with nitrogen @1000 psig (68 bar) for leakage at the seat to a maximum allowable leak rate of 0.1 scc/min. The packing is tested with nitrogen for no detectable leakage.

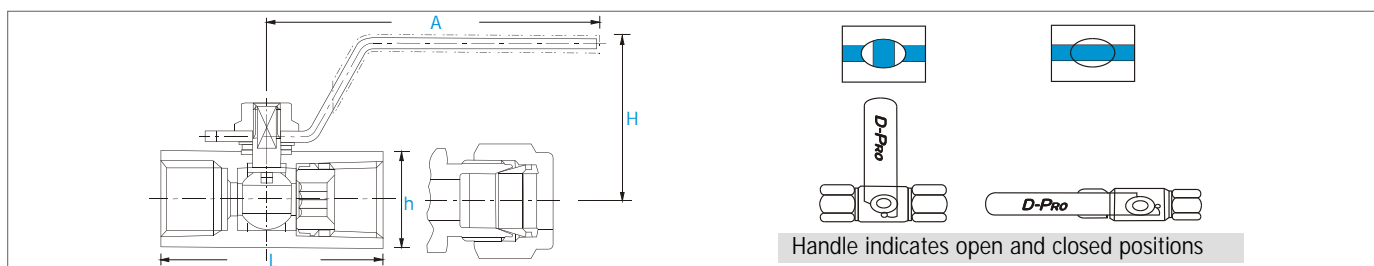
Pressure/Temperature Curve

Curve is with standard PTFE seats and packing



Materials of Construction

Component	Material / ASTM Specification	
	S316 Body	Brass Body Chrome Plated
	Grade/ASTM Specification	
Body	S316 / A479, A276	Brass / B16
Handle	S304	
Stem	S316 / A564	
Stem Packing	PTFE / D1710	
Ball	Micro-finished S316 Ball	Micro-finished Brass Ball
Seat	Standard PTFE / D1710	
End Connector	S316 / A276	Brass / B16
End seal	Standard Buna-N, Optional Fluorocarbon FKM O-ring	



Ordering information and Table of dimensions

Valve Ordering Number	End Connections Inlet /Outlet	Cv	Orifice mm (in.)	Dimensions, mm (in.)			
				L	H	h	A
V81A-	D-6M	6mm Dk-Lok	5.0 (0.20)	79 (3.11)	31 (1.22)	17 (11/16)	61 (2.40)
	D-4T	1/4" Dk-Lok		79 (3.11)			
	F-4N	1/4" Female NPT		40 (1.57)			
V81B-	D-10M	10mm Dk-Lok	7.5 (0.30)	90 (3.54)	40 (1.57)	20.6 (13/16)	81 (3.19)
	D-6T	3/8" Dk-Lok		90 (3.54)			
	F-6N	3/8" Female NPT		45 (1.77)			
V81C-	D-12M	12mm Dk-Lok	9.0 (0.35)	98 (3.86)	42 (1.65)	27 (1-1/16)	81 (3.19)
	D-8T	1/2" Dk-Lok		98 (3.86)			
	F-8N	1/2" Female NPT		54 (2.12)			
V81D-	D-16M	16mm Dk-Lok	12.5 (0.49)	108 (4.25)	51 (2.00)	32 (1-1/4)	101 (3.98)
	D-10T	5/8" Dk-Lok		108 (4.25)			
	F-12N	3/4" Female NPT		60 (2.36)			
	D-12T	3/4" Dk-Lok		109 (4.29)			
V81E-	D-16T	1" Dk-Lok	16.0 (0.63)	133 (5.23)	55 (2.16)	38 (1-1/2)	101 (3.98)
	F-16N	1" Female NPT		74 (2.91)			

Dimensions shown are for reference only, subject to change.

How to order

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

Example : V81A-D-6M- VT - BF - S

End seal designator	Handle designator	Body material designator
Nil: standard Buna-N VT: Optional Fluorocarbon FKM O-ring	Nil: standard lever handle BF: optional butterfly handle	S: S316 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 Tech accepts no liability for any improper selection, installation, operation or maintenance.

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