

VALVE AND FLOW CONTROL SPECIALISTS SERVICE AND RELIABILITY

V81 Series Ball Valve

No.V81-7

IDK-LOK[®]

Valves

Valve with lever handle

- Working pressure
- PTFE seats : 68.9 bar (1000 psig) • TFM seats : 137 bar (2000 psig)

Design Features

- 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
- Standard lever handle, optional butterfly and dielectric handle.



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

Valve with butterfly handle

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



Valve with dielectric handle Working pressure • PTFE seats : 68.9 bar (1000 psig) • TFM seats : 137 bar (2000 psig)

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

Valve Body Materials				
Stainless Steel	Brass			
ASTM A276 / A479 TYPE316 ASTM B16 or JIS H				
ASTM A276 TYPE316				
PTFE / D1710 for pressure 68.9 bar (1000 psig)				
TFM 1600 for pressure 137 bar (2000 psig)				
FKM	NBR			
	ASTM B16 or JIS H3250			
A31W1A270/A47911FE310				
ASTM A276/A479 TYPE316				
PTFE / D1710				
PTFE / D1710				
ASTM A276/A479 TYPE316				
Stainless Steel				
Stainless Steel Lever handle with vinyle sleeve				
ZINC / ASTM B240 Butterfly handle, Nickel-plated				
Dielectric Handle with Nylon(Black, Red, Blue)				
Stainless Steel	Stainless Steel			
ASTM A276/A479 TYPE316	ASTM B16 or JIS H3250			
ASTM A276/A479 TYPE316	ASTM B16 or JIS H3250			
ASTM A276/A479 TYPE316	ASTM A276/A479 TYPE316 ASTM B16 or JIS H3250			
	Stainless Steel ASTM A276 / A479 TYPE316 ASTM A276 TY PTFE / D1710 for pressure 6 TFM 1600 for pressure 13 FKM ASTM A276/A479 TYPE316 ASTM A276/A479 TYPE316 ASTM A276/A479 Stainless Steel Lever handle ZINC / ASTM B240 Butterfly h Dielectric Handle with Nylo Stainless Steel ASTM A276/A479 TYPE316 ASTM A276/A479 TYPE316			

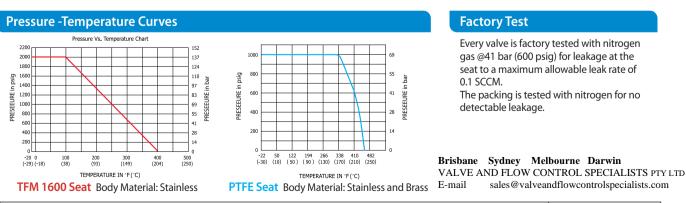
1. V81D, V81E Locking device lever handle Type : Body Material is ASTM A351 CF8M 4. O-Ring is applicable to end connector type.

5. End Connector is for DK-Lok end connection standard, male pipe thread available.

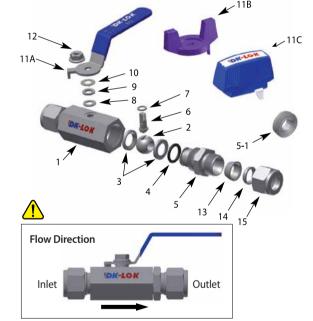
5-1. Insert is for female pipe thread end connection.

TFM 1600 seat is usable only with body in stainless steel.

* Wetted parts are listed in Blue.



ABS



Epic TIN NORD

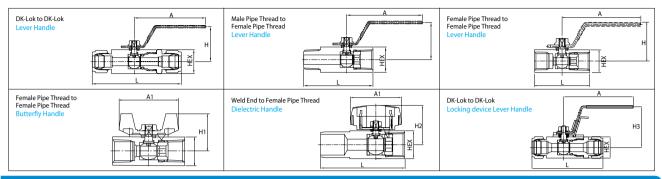
(N) (Pt) (NS)



DK-LOK Corporation www.dklok.com

IDK-LOK[®] Ball Valves

V81 Series



Ordering Information and Table of Dimensions

Basic Ordering Number		End Connections Inlet / Outlet	Orifice mm (in.)	-	Dimensions, mm (in.)								
				Cv	L	н	HEX	А	A1	A2	H1	H2	H3
V81A-	D-6M-	6mm DK-Lok	5 (0.2)	1.25	79 (<mark>3.11</mark>)	27.6 (1.09)	17 (11/16)	59.5 (2.34)	30.5 (1.20)	41.8 (1.65)	23.5 (0.93)	33.8 (1.33)	35.6 (1.4)
	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)								
	MF-4N-	1/4 in. M/F NPT		1.35	52.4 (2.06)								
	D-10M-	10mm DK-Lok	7.5 (0.3)	2.6	91.7 (3.61)		20.64 (13/16)			44.5 (1.75)	30 (1.18)	38.3 (1.5)	39.5 (1.56)
V81B-	D-6T-	3/8 in. DK-Lok		2.5	91.3 (3.59)	36.5 (1.44)		81	42 (1.65)				
	F-6N-	3/8 in. Female NPT		2.6	47 (1.85)			(3.19)					
	MF-6N-	3/8 in. M/F NPT		2.6	53.5 (2.1)								
V81C-	D-12M-	12mm DK-Lok	9 (0.35)	9.25	99.2 (<mark>3.9</mark>)	39.7 (1.56)					35.7 (1.41)	43.5 (1.71)	44.7 (1.76)
	D-8T-	1/2 in. DK-Lok		9.25	101 (3.98)								
	F-8N-	1/2 in. Female NPT		9.25	56.15 (2.21)		27 (1-1/16)	81 (3.19)	46 (1.81)	46.5 (1.83)			
	MF-8N-	1/2 in. M/F-NPT		9.25	66.6 (<mark>2.62</mark>)								
	WF-15A8N-	1/2 in. Welding/F-NPT		9.25	95.0 (3.74)								
	D-16M-	16mm DK-Lok	12.5 (0.49)	10.6	107 (4.24)		32 (1-1/4)				38.1 (1.50)	47.2 (1.86)	-
	D-10T-	5/8 in. DK-Lok		10.6	108 (4.25)	1							
V81D-	F-12N-	3/4 in. Female NPT		12.65	63 (2.48)	44.85		102.5		56			
	D-12T-	3/4 in. DK-Lok		12.65	107 (4.22)	(1.76)		(4.04)		(2.2)			
	MF-12N-	3/4 in. M/F-NPT		12.65	75.9 (2.99)								
	WF-20A12N-	3/4 in. Welding/F-NPT		12.65	100 (3.93)								
	D-16T-	1 in. DK-Lok	16 (0.63)	17.35	133 (5.23)	10.75	38 (1-1/2)	400.5		70.4	45 (1.77)	53.7 (2.11)	-
V81E-	F-16N-	1 in. Female NPT		17.35	78.1 (3.07)	49.75 (1.95)		102.5 (4.04)	68 (2.68)	70.1 (2.76)			
	WF-25A16N-	1 in. Welding/F-NPT		17.35	115 (4.53)	(1.95)		(4.04)	(2.08)				
V81F-	F-20N-	1 1/4 in. Female NPT	21 (<mark>0.83</mark>)	-	89 (<mark>3.50</mark>)	65 (2.56)	50 (2)	141 (5.55)					
V81G-	F-24N-	1 1/2 in. Female NPT	24 (0.94)	-	95 (<mark>3.74</mark>)	68 (2.68)	55 (2-3/16)	148 (5.83)					
V81H-	F-32N-	2 in. Female NPT	32 (1.26)	-	110 (4.33)	80 (3.15)	69.8 (2-3/4)	154 (6.06)	-	-	-	-	-

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

How to Order

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

V81A-D-6M- VT-	TF-	BF-	BK	S 🔮
O-ring	Seat Material	Handle	Handle Color	Body material
 Nil : FKM O-ring is standard for SS316 body. Nil : NBR O-ring is standard for Brass body. VT : FKM O-ring for Brass body BN : NBR O-ring for Stainless Steel NOTE : O-ring is required for DK-Lok end connection. 	 Nil : Standard PTFE seats for 68.9 bar (1000 psig) working pressure. TF : Optional TFM1600 for 137 bar (2000 psig) working pressure. NOTE : TFM1600 seat is not applicable to Brass valve. 	Nil : Standard lever handle BF : Optional butterfly handle DH : Dielectric handle LD : Locking device lever handle NOTE : BF option is not applicable to the valve with TF seat	BK : Black BL : Blue RD : Red	S : SS316 B : Brass M : Monel L20 : Alloy 20 HC : Hastelloy C276

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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