



Kim Diaphragm Valves

Corrosion and Abrasion Resistant Flow Control
www.kdvflow.com

DATA SHEET

KDV's unlined bi directional Weir Type diaphragm valve is simple, robust and very easy to use and maintain. Low manufacturing complexity enables very competitive pricing.

This, coupled with negligible maintenance cost, ensures our unlined Weir Type diaphragm valve is the most cost effective option in a wide range of applications.

UNLINED WEIR TYPE DIAPHRAGM VALVE

MANUAL HANDWHEEL
 15mm - 350mm (1/2" - 14")

FEATURES & BENEFITS

- Bubble-tight shutoff (Class VI)
- Easy/low maintenance
- In-line serviceable
- Clean design
- Self-draining
- Standard position indicator
- Excellent throttling characteristics
- Wide range of accessories

OPERATOR OPTIONS

- Lockable Bonnet (Suitable for locking in open, closed and intermediate positions).
- Sealed Bonnet
- Extension Spindle
- Chain Wheel
- Stainless Steel Bonnet (CF8, CM8M, CF3M).
- Plastic Bonnet

AUTOMATION SYSTEMS

- Pneumatic (Fail open - Fail closed - Double acting)
- Electric
- Hydraulic

SPECIALTY COATINGS

- To suit a variety of environmental requirements



PRESSURE RATING

Elastomer diaphragms	
DN15 - DN50	16 Bar
DN65 - DN150	10 Bar
DN200	7 Bar
DN250 - DN350	5 Bar
PTFE diaphragms	
DN15 - D125	10 Bar
DN150	7 Bar
DN200	6 Bar
DN250 - DN300	4 Bar

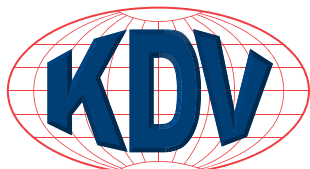
APPLICATIONS

Chemical Processing
 Mining & Mineral Processing
 Power generation
 Water Treatment & Filtration
 Electroplating
 Steel Production
 Food & Beverage
 Paints & Coatings
 Textiles & Leather
 Semiconductors
 Pharmaceuticals
 Sugar
 Pulp & Paper

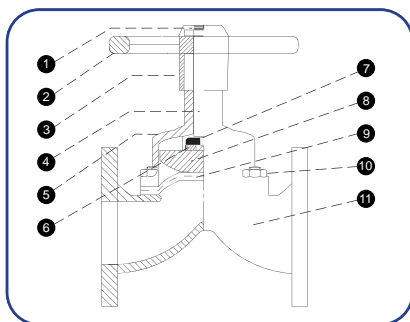
DIAPHRAGM MATERIALS

- | | | |
|-----------------------|--------------------------|----------------------|
| • Natural rubber (NR) | • Nitrile rubber (NBR) | • Silicone elastomer |
| • EPDM/black rubber | • Neoprene rubber (CR) | • PTFE/EPDM rubber |
| • EPDM/food grade | • Hypalon rubber (CSM) | • PTFE /Butyl rubber |
| • Butyl rubber (IIR) | • Viton rubber (FKM/FPM) | • PTFE/Viton rubber |



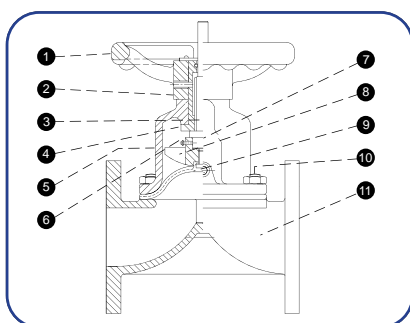


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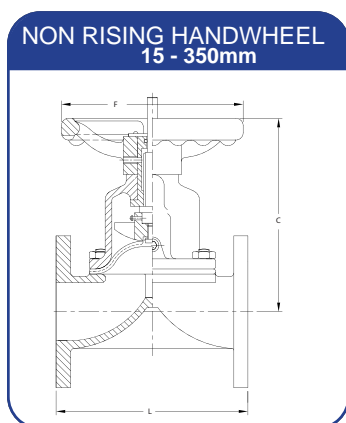
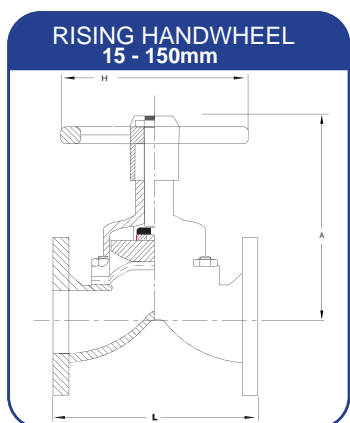
KDV MATERIALS OF CONSTRUCTION - Rising handwheel

PART	MATERIAL	PART	MATERIAL
1 Handwheel Pin	Spring Steel	7 Thrust Disc	Acetal
2 Handwheel	Cast Iron	8 Compressor	Cast Iron, Cast Steel, Stainless Steel
3 Stem	Stainless Steel	9 Diaphragm	See page 1
4 Spindle	Stainless Steel	10 Studs, Bolts and Nuts	8.8, Stainless Steel, B7/2H
5 Bonnet	Cast Iron, Ductile Iron, Stainless Steel, Cast Steel	11 Body	Cast Iron, Ductile Iron, Stainless Steel, Cast Steel, Alloy20, Hastelloy, Bronze, Monel
6 Compressor Pin	Spring Steel		



KDV MATERIALS OF CONSTRUCTION - Non rising handwheel

PART	MATERIAL	PART	MATERIAL
1 Handwheel	Cast Iron / Stainless Steel	7 Thrust Bearing*	Steel
2 Stem	Stainless Steel	8 Compressor	Cast Iron, Cast Steel, Stainless Steel
3 Stem Bush	SG Iron	9 Diaphragm	See page 1
4 Spindle	Stainless Steel	10 Studs, Bolts and Nuts	8.8., Stainless Steel, B7/2H
5 Bonnet	Cast Iron, Ductile Iron, Stainless Steel, Cast Steel	11 Body	Cast Iron, Ductile Iron, Stainless Steel, Cast Steel, Alloy20, Hastelloy, Bronze, Monel
6 Compressor Pin	Spring Steel		*Sizes 80mm and above



Material Specifications – Metal Bodies

- Cast Iron (ASTM A126 Gr CI B)
- Ductile Iron (ASTM A395 Gr 60-40-18)
- Carbon Steel (ASTM A216 Gr WCB, A351 Gr CF8, A351 Gr CF8M, A351 Gr CF3M)
- Alloy 20 (ASTM A351 Gr CN7M)
- Hastelloy C (ASTM A-494 Gr CW-6M)
- Bronze (ASTM A83600 Gr LG2/4)

Testing Standards

- EN12266-2 2002(BS6755 Part 1)

Design Standards

- EN13397-2001 (BS5156:1985)
- MSS SP88-1993-(R-01)

Flange Valve Drilling Standards

- ANSI B16.5 Class 125 & 150
- EN1092 (PN10/16) (BS4504)
- AS2129-2000 Table D/E (BS10 1962)
- JIS B2220

Face to Face Standards

- EN558-1 Series 1(DIN3202-F1)
- EN558-1 Series 7(BS5156)
- MSS SP88-1

Notes:

1. Non Rising Handwheel Bonnet used on 200-350mm valves. Valve flanges can be drilled to suit ANSI, BS, DIN, JIS
2. 350mm face to face per KDV standard

Size mm/Inch	Dimensions - Length (mm)			Dimensions - Height (mm)				Weight (kg)					
	EN558-1 Series 7 (BS5156:1985)	EN558 - 1 Series 1 (DIN3202-F1)	MSS SP88-1	RISING HAND WHEEL		NON RISING HAND WHEEL		EN558-1 Series 7 (BS5156:1985)		EN558 - 1 Series 1 (DIN3202-F1)		MSS SP88-1	
	L	L	L	A	H	C	F	RHW	NRHW	RHW	NRHW	RHW	NRHW
DN15 (½")	108	130	108	107	65	86	70	2.5	2.5	2.8	2.8	2.5	2.5
DN20 (¾")	117	150	149	110	65	94	70	3.0	2.6	3.6	3.2	3.6	3.2
DN25 (1")	127	160	149	118	86	108	100	4.0	3.5	4.7	4.2	4.5	3.9
DN32 (1¼")	146	180	152	143	86	110	100	6.1	4.5	7.1	5.5	6.2	4.7
DN40 (1½")	159	200	176	161	124	147	140	6.5	7.0	7.5	8.0	7.0	7.5
DN50 (2")	190	230	202	178	124	154	140	9.7	10.0	14.7	15.0	10.3	10.6
DN65 (2½")	216	290	222	213	225	174	180	15.0	15.0	19.0	19.0	15.3	15.3
DN80 (3")	254	310	264	243	225	227	225	22.2	22.0	26.2	26.0	22.9	22.7
DN100 (4")	305	350	329	299	265	248	225	31.6	37.0	36.6	42.0	34.2	39.6
DN125 (5")	356	400	-	389	352	298	310	47.0	62.0	53.0	68.0	-	-
DN150 (6")	406	480	416	429	352	360	368	69.5	91.0	84.5	106	71.5	93.0
DN200 (8")	521	600	530	-	-	471	471	-	163	-	185	-	165.5
DN250 (10")	635	730	-	-	-	575	587	-	240	-	275	-	-
DN300 (12")	749	850	-	-	-	679	690	-	418	-	480	-	-
DN350 (14")	749	980	-	-	-	830	690	-	480	-	550	-	-

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