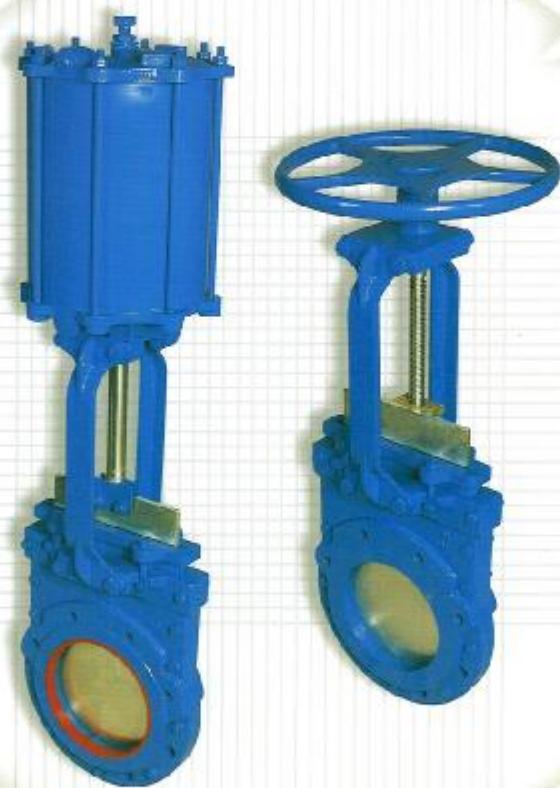


VAAS™



Series 700 **Bi-D** SLURRY VALVE



Vaas Series 700 Bi-D Slurry Valves

Series 700 is a range of valves designed to offer bi-directional shut-off with the capacity to handle difficult media such as abrasive slurries, sludges and dry powders.

Unlike uni-directional knife gate valves which employ face sealing on a raised seat, the Series 700 uses an elastomer seal around the periphery of the gate to effect fluid sealing. As the peripheral seal is symmetrical, the sealing remains identical from either direction of the valve, thus offering fully bi-directional shut-off. The valve uses a special elastomer quad-seal in the gland packing for effective sealing to atmosphere.

Series 700, with no raised seat in the flow path as in the case of conventional knife gate valves, offers a straight, unrestricted flow path to the media being handled. The flow bore of the valve is equal to schedule 40 pipe diameter, and combined with the minimum face to face dimension of the wafer design offers the minimum feasible pressure drop across the valve.

Standard range is designed for 10 bar CWP; other versions available for 16 bar, 20 bar; special designs for higher pressures are also available.

Superstructure is designed for easy interchangeability between manual and VAAS pneumatic actuation as for other knife gate valves from the VAAS range.

Design Highlights



Two piece bolt-on body

- Easy to dismantle for seal replacement; unique design with identical body halves
- Version with 10bar CWP rating comes with face-to-face dimension complying with MSS SP-81 for easy interchangeability with conventional knife gate valves
- Wide choice of international flange drilling option such as ANSI, BS, DIN, AS, JS etc.
- Full port design minimizes turbulence, abrasive wear and premature failure of valve
- Optional body insert (polyurethane as standard material) to handle extremely abrasive media

Reinforced peripheral seal

- Offers bi-directional zero leakage shut-off
- Steel reinforcement of the elastomer seal increases strength of seal and provides long lasting resilience in tough slurry applications
- Peripheral seal also doubles as body gasket; no additional gasket is used between body halves
- Wide material options to suit media being handled – nitrile rubber, polyurethane, viton and others

Gate

- Stainless steel gate with ground finish reduces packing stress and operating force thereby increasing packing life
- Thick gate, well supported by body halves resists distortion or deflection



Packing

- Multi-layered square braided packing provides efficient gland sealing at full rated pressure of valve
- Valve provides with a central layer of elastomer "quad" seal for perfect gland sealing
- Wiper seal options available to increase packing life for tough slurry services





Non-rising stem option

- Available for tight spaces and to provide increased operator safety

Typical Applications

- Isolation of interconnected slurry pumping lines
- Dry powder hopper isolation & pneumatic conveying applications
- Vacuum applications such as for use as vacuum dryer discharge valves
- Air/gas tight applications involving powders
- High pressure slurry handling
- General bi-directional isolation duties for wide range of media

Specifications & Ordercodes

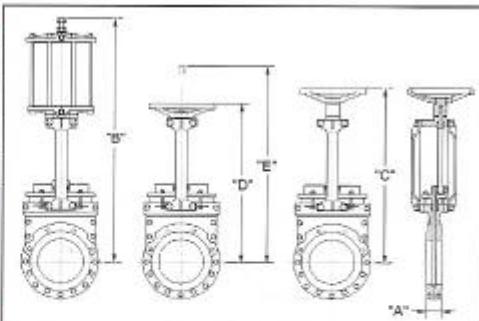
Description	Example	Options	
Size	0600	0200	50mm (2 inch)
		0300	80mm (3 inch)
		0400	100mm (4 inch)
		0500	125mm (5 inch)
		0600	150mm (6 inch)
		0800	200mm (8 inch)
		1000	250mm (10 inch)
		1200	300mm (12 inch)
		1400	350mm (14 inch)
		1600	400mm (16 inch)
		1800	450mm (18 inch)
		2000	500mm (20 inch)
		2400	600mm (24 inch)
Model	FIG 752	FIG 752	Bi-directional valve, wafer style, mid-flange two piece split body design
Endstyle	WTM	WT	Blind holes in chest area and others as through holes
		WTM	Metric blind holes in chest area and others as through holes
Drilling	F	F	Suitable for mounting between ANSI 150lb flanges
		G1	Suitable for mounting between DIN PN10 flanges
		G2	Suitable for mounting between DIN PN16 flanges
		HD	Suitable for mounting between BS4504 Table D flanges
		HE	Suitable for mounting between BS4504 Table E flanges
		F8	Suitable for mounting between JIS 10K flanges
		F10	Suitable for mounting between AS 2129 Table D flanges
		F11	Suitable for mounting between AS 2129 Table E flanges
		Fx	Special drilling
Body	CI	CI	Cast iron
		DI	Ductile iron
		S1	SS 304
		S2	SS 316
		Bx	Special
Gate	S1	S1	SS 304
		S2	SS 316
		Gx	Special
		Options - HC	Hard chrome plating

Seal	RS80	RS 80 RS 85 RSx	NITRILE seal with steel reinforcement; max temp 90 deg C VITON seal with steel reinforcement; max temp 200 deg C Special
Packing	CQ	CQ C Mx Option -S	PTFE impregnated syntax fibre with a middle layer of nitrile quad seal; max temp. 90 deg C PTEE impregnated syntax; max. temp. 232 deg. C Special Scrapper layer of polyurethane; max temp 80 deg C
Rating	CWP-10	CWP-10 CWP-16 CWP-20 CWPx	10 bar CWP(Hydrostatic test for body at 15 bar and seat at 11 bar with no visible leakage permitted) 16 bar CWP – On Application 20 bar CWP – On Application Special
Specials	BI1	BI1 BP1 PI SPC	Polyurethane body insert; max temp 80 deg C Body purges, 1/2" NPT, 2 nos. per side; available on 200mm (8") and above Mechanical gate position indicator Stem protection cover; steel, epoxy painted
Actuator	CHG	CHG CRG RCGCx MAx PAx	Rising stem direct mounted handwheel Non-rising stem direct mounted handwheel Pneumatic double acting cylinder actuator; "x" inch diameter FRP cylinder Special manual actuator Special pneumatic actuator Hydraulic and electric actuators – On Application
Painting	PS	PS Px	Standard painting; two pack blue epoxy on all non stainless steel parts Special painting
Testing	TS	TS TC	STANDARD tests as per VAAS QC norms after final assembly Customer inspection
Special construction	SPx	Other special constructions	

Dimensions mm (inch) & pneumatic actuator selection table

Valve size	A	B	C	D	E	Actuator
50 (2")						RGCG4
80 (3")	51 (2.00")	559 (22.30")	448 (17.55")	304 (15.01")	448 (17.51")	RGCG4
100 (4")	51 (2.00")	700 (27.35")	622 (20.98")	476 (18.85")	554 (21.81")	RGCG8
125(5")						RGCG8
150(6")	57 (2.27")	860 (33.50")	661 (26.02")	597 (23.99")	717 (28.32")	RGCG8
200(8")	70 (2.75")	1070 (42.12")	787 (30.98")	716 (28.18")	807 (34.92")	RGCG10
250(10")	70 (2.75")	1290 (49.21")	854 (33.62")	715 (28.11")	1040 (40.94")	RGCG12
300(12")	76 (3.00")	1392 (54.00")	948 (37.32")	868 (34.17")	1180 (46.49")	RGCG12
350(14")	76 (3.00")	1510 (59.44")	1096 (40.78")	964 (37.95")	1313 (51.89")	RGCG12
400(16")	89 (3.50")	1765 (69.48")	1173 (46.18")	1120 (43.34")	1488 (58.97")	RGCG16
450(18")	89 (3.50")	1942 (76.45")	1301 (57.22")	1229 (48.38")	1674 (65.90")	RGCG16
500(20")						RGCG20
600(24")						RGCG20

Note : Dimension "A" complies with MSS 57-81 for the 10 bar CWP version
Pneumatic actuator selection for 10 bar CWP version at 5 bar air supply



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