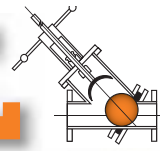


DUAL



Valves Australasia Pty Ltd

DUAL ROTARY DISC VALVE (DRDV)



DUAL's Rotary Disc Valve is a unique rotating gate valve designed specifically for heavy abrasive and corrosive slurries. The patented design allows the valve to cycle in heavy slurries without sticking.

FEATURES

- No blocking or leakage.
- Disc can be replaced in situ.
- No sticking, (due to no guides).
- Long wear life, (due to rotating gate/disc).
- Self clearing gate action.
- Seals in both directions.
- Wedge for positive seal.
- Cut away to clean seating area.
- Fabricated valves can be repaired in line.
- Seal out of flow when in open position.
- **Rising or non-rising spindle.**
- Back Seat to repack gland packing under pressure.

PRODUCT SPECIFICATION

Valve Body: Fabricated Carbon Steel for valves larger than 300mm, Cast SG Iron, High Chrome or Stainless Steel

Material: Gate material can be carbon steel, Abrasion Resistant AR Steel, Cast High Chrome or Stainless Steel.

Thickness: Gate to have a minimum safety factor of 2:1 based on yield strength of material.

Shape: Gate radius to be set for minimum valve height in chest area. Gate is round with metal, rubber or urethane seal.

Thrust Bearings: **To reduce operating torque.**

Certification: All wetted parts have certified chemical and physical test reports.

Materials: All valves are tested per SABS specifications certified.

Testing: 10 bar to 100 bar (150Psi to 1500Psi)

Pressure Rating: 10 bar to 100 bar (150Psi to 1500Psi)

Flanges: Flanges comply with AS, ANSI, DIN, SABS or BS.

Face-to-face: **To suit customer specification.**

Lifting Lugs: Valves have lifting lugs/holes sized and located for safe hoisting of valve assembly.

Body Lining: **Rubber, URETHANE or Ceramic.**

VALVE OPERATION

As the handwheel is opened or closed, the disc rotates. This happens due to the pressure pushing against the disc, causing the disc to touch the valve body and rotate. As the valve is cycled, the disc rotates 100mm, seating in a different position each time. The valve body has a cutaway behind the disc clearing debris away and thus, ensuring the disc closes and seals.

ASH APPLICATION (FABRICATED VALVES)



VALVE FLEXIBILITY

The very nature of fabricating the large valves allows a maximum of flexibility in customizing to meet specific needs, materials, pressure rating configuration. The body is made of carbon steel and can be made out of different materials to suit the customer. The bonnet houses the rotating disc and seals around the spindle.

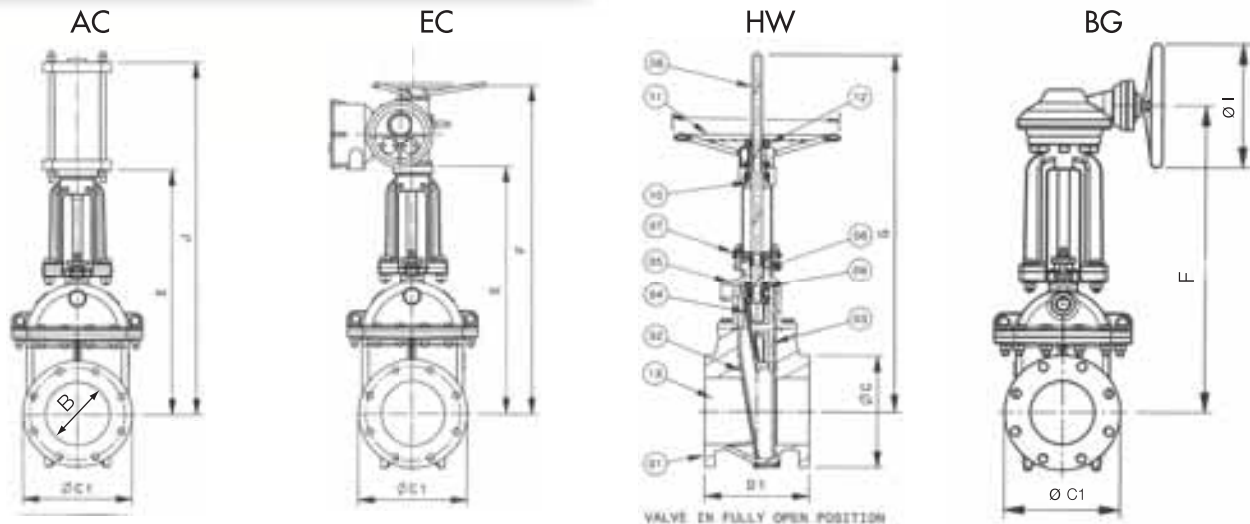
ACTUATORS

All types of actuators can be fitted, electric, gearbox, hydraulic, pneumatic and handwheel.

ACCESSORIES

Dust covers and PVC bellows to protect spindle.
Flushing ports.

DIMENSIONS AND SPECIFICATIONS



Part	Description	Part	Description
1	Body	8	Spindle
2	Body Seat	9	Yoke Assembly
3	Disc	10	Spindle Nut
4	Wedges	11	Handwheel
5	Bonnet	12	Handwheel Nut
6	Packing	13	Body Lining
7	Gland		

Dimensions and weights are for guidance only - detailed dimension drawings available on request. All dimensions are in millimetres, unless stated.

A	Valve Size		50mm	80mm	100mm	150mm	200mm	250mm	300mm	350mm	400mm	450mm	500mm	600mm	
Throat	C ₁		152	191	229	279	343	406	483	538	597	635	711	826	For Larger Sizes Consult Factory
	B	Actual	50	80	100	150	200	250	300	350	400	450	500	590	
	C		137	191	220	279	343	406	483	583	597	635	711	826	
	D		48	51	51	57	70	70	76	76	89	89	114	365	
	D ₁		216	229	254	280	317	356	380	470	470	485	510	600	
	E		300	370	380	610	770	905	1012	1140	1280	1487	1690	1785	
	F		370	440	470	661	845	1014	1120	1230	1355	1600	1706	1885	
	G		550	542	695	900	1104	1360	1560	1840	1940	2180	2350	2800	
	H		300	300	300	500	500	600	600	600	700	700	700	700	
	I		300	300	300	500	500	600	600	600	700	700	700	700	
	J		559	659	710	1003	1224	1411	1615	1745	2016	2300	2579	2751	
	Weight	KG	30	30	45	89	125	157	200	350	450	520	650	900	

Applications:

- Mining and mineral processing
- Power generation
- Sand and gravel
- Chemical and soda ash
- Pulp and paper
- Environmental and Effluent
- Water purification

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