



# 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 MATERIALS:** All wetted parts have certified chemical and physical test reports.
- TESTING:** All valves are tested per SABS specifications certified.
- 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)**

## **APPLICATIONS**

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

## **ACCESSORIES**

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

## **VALVE FLEXIBILITY**

The very nature of fabricating the la

## **DIMENSIONS AND SPECIFICATIONS**

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