

DUAL PUMP PROTECTION VALVE (DPV)

ielebrain

DUAL 's Pump Protection Valve has been designed and manufactured to provide protection against excessive fluid temperature rise, within the pump housing. Low flow conditions can cause flashing, cavitation, vibration, bearing failure and damage to mechanical seals and pump housing.

The DPV valve is fitted to the suction side of the pump. The valve can also be used to control or limit the pressure in a pipeline or vessel.



Cost effective

Uses no external power

Installation simplicity

· Light weight body

Flushing port

Flanged connection

· Long ball life due to ball rotation

Full port opening

No sticking

PRODUCT SPECIFICATION

Carbon Steel; SG Iron or Stainless **BODY**:

Steel body type

BALL: Urethane or Stainless Steel

40mm; 50mm; 80mm & 100mm **SIZE RANGE:**

PRESSURE RATING:

0 - 100 Bar

FLANGE CONNECTION: To suit Pump and Pipe line

VALVE INTERNALS: 304 Stainless Steel Body Seat; Carbon Steel or Stainless Steel Ball Controller,

Tensioner and Flushing Port, Helical

Spring Coated Spring

OPERATING TEMPERATURE: 80°C

MINING APPLICATION



Built to Last www.dualvalves.com

OPERATION

The Pump Protection Valve uses the simplest design; a Urethane ball and a compressed helical spring to seal the valve. As the pressure in the pump builds up passed the manufactures designed pressure rating, the ball is pushed upwards allowing fluid or steam to discharge through the bypass line of the valve. As pressure decreases back to normal levels, the ball will reseal, hence protecting the pump against damage and an explosion causing bodily harm and even death.

INSTALLATIONS

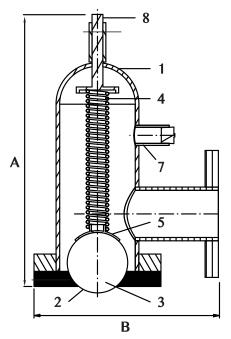
- Direct drive centrifuagl pumps
- Slurry pumps
- Horizontal or vertical pumps
- Fitted to suction side of the pump
- Pipe lines

APPLICATIONS

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



DIMENSIONS AND SPECIFICATIONS



Blowoff Outlet Flange to Suit Customer's Requirements

Flange drilling to suit Customer's requirements

	PART	DESCRIPTION	
1	Body	Carbon Steel / SG Iron/ Stainless Steel	
2	Body Seat	304 Stainless Steel	
3	Ball	Urethane/ Stainless Steel	
4	Spring	Helical Spring Coated	
5	Ball Controller	Carbon Steel / Stainless Steel	
6	Paint	Epoxy Powder coated/ Rilsan Lined or painted to customer specification	
7	Flushing Port	Carbon Steel / Stainless Steel	
8	Tensioner	Carbon Steel / Stainless Steel	

VALVE SIZE (mm)	A	В	WEIGHT (kg)
40	430	270	20
50	430	270	20
80	430	270	300
100	430	270	400

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



CORPORATE HEADQUARTERS: 166 ROTTERDAM ROAD (CNR ROTTERDAM ROAD & ANTWERP STREET) APEX, BENONI, GAUTENG, SOUTH AFRICÁ



PO BOX 12520, BENORYN 1504 TEL: +27 11 422 4326/7 FAX: +27 11 421 7842 email:sales@dualvalves.com

