

DUAL PUMP PROTECTION VALVE

DUAL's Pump Protection Valve originally designed to protect the pump. Has been designed and manufactured to provide protection against excessive fluid temperature rise, within the pump housing. The low friction 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 and can also be used to control or limit the pressure in a pipeline or vessel on discharge side.



FEATURES

- 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

BODY: Carbon Steel, SG Iron or Stainless Steel body type.

BALL: Urethane or Stainless Steel.

SIZE RANGE: 40mm, 50mm, 80mm & 100mm.

PRESSURE RATING: 0 - 100 Bar.

FLANGE CONNECTION: To suit pump and pump line / Victaulic.

VALVE INTERVALS: 304 Stainless Steel body seat, Carbon Steel or Stainless Steel ball controller, tensioner and flushing port, helical spring coated spring.

TEMPERATURE: 80°C
Higher on request.

MINING APPLICATION



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 past the manufactures designed pressure rating, the ball is pushed upwards allowing the fluid or stream 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.

APPLICATIONS

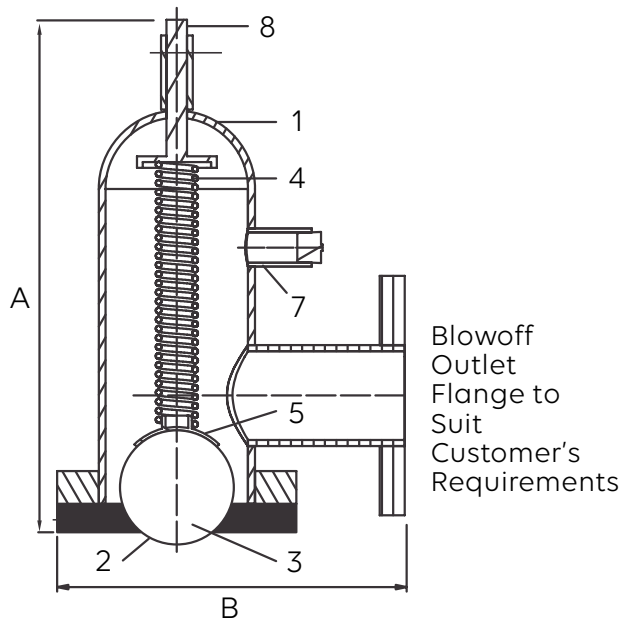
- Mining and mineral processing.
- Power generation.
- Sand and gravel.
- Chemical and soda ash.
- Pulp paper.
- Environmental and effluent.
- Water.

INSTALLATIONS

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



DIMENSIONS AND SPECIFICATIONS



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	B	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.



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