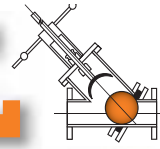


DUAL



Valves Australasia Pty Ltd

DUAL PUMP PROTECTION VALVE (DPPV)



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

APPLICATIONS

- Direct drive centrifugal pumps
- Slurry Pumps
- Horizontal / Vertical Pumps

PRESSURE RATING

0 to 100 Bar.

MINING APPLICATION

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 DPPV valve is fitted to the suction side of the pump.

OPERATION

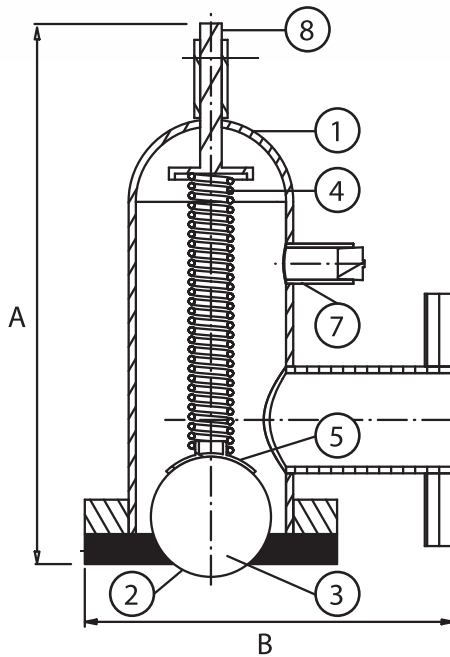
The Pump Protection Valve uses the simplest design; a Urethane ball and a compressed helical spring to seal the valve. As the pressure in the pump builds up passed the manufactures designed pressure rating. The ball is pushed upwards allowing fluid or steam to discharge through the bypass line of the 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.



PRODUCT SPECIFICATIONS

- Valve housing constructed of high quality carbon steel, SG iron or Stainless Steel.
- Ball is made of Urethane, Spring made of spring steel.
- Flange connection to suit pump.
- Operating temperature 80°C.
- Seat 304 Stainless Steel.

DIMENSIONS



Blowoff outlet
flange to suit
customer's
requirements

Flange drilling
to suit customer's requirements

Size in mm	A	B	KGS
40	430	270	20
50	430	270	20
80	430	270	30
100	430	270	40

Different sizes available on request

	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 custom spec.
7	Flushing Port	Carbon Steel/ Stainless Steel
8	Tensioner	Carbon Steel/ Stainless Steel

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

Applications:

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

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PPV 01/2009

INSTALLATION

- Fitted to suction side of the pump.



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