



**WATER MANAGEMENT
PRODUCTS**

MACKVALVES

LETTING GOOD IDEAS FLOW



WATER MANAGEMENT - MUNICIPAL

PRESSURE REDUCING

Keep downstream pressure constant using a pilot control valve that sense the downstream pressure and activates the ACV to allow flow to occur when downstream pressure is lower than the spring pressure setting on the pilot valve.

PRESSURE REDUCING & CHECK

Prevent back-flow should the downstream pressure exceed the upstream pressure. The valve closes slowly to prevent water hammer and protect the system from damage.

PRESSURE SUSTAINING & CHECK

Maintain constant upstream pressure to close system tolerances by relieving excess pressure downstream. The valve closes and positively prevents return flow, over-pumping and pump cavitation due to excessive downstream demands.

PRESSURE SUSTAINING & PRESSURE RELIEF

Eliminate problems with sustaining backpressure, pressure relief and uploading functions in bypass systems; rapid opening to maintain steady line pressure, while slow closing to prevent surges, and easily set to maximum flow rate.

RATE OF FLOW

Maintain maximum allowable flow rate, preventing lowering of supply pressure and limiting primary water supply to a pre-set flow. Actuated by differential pressure.

ALTITUDE

Control high water level in reservoirs. The valve is non-throttling, and allows the reservoir to fill and close when it reaches its set top water level. Can add special features such as back pressure sustaining, rate of flow, solenoid shut-off, pressure reducing, closing/opening speed control, position indicator, and delayed opening.





WATER MANAGEMENT - MUNICIPAL

FLOAT LEVEL CONTROL

Adjust the level of a reservoir to any desired point from 0.1m below top water level to 4m below top water level.

MODULATING FLOAT CONTROL

Equalises variations in supply and demand to maintain a constant level in a reservoir. Can be arranged to balance either the in-flow or the out-flow rates. With the addition of a pressure sustaining pilot valve, a minimum pressure can be sustained.

PUMP CONTROL

Prevent reverse flow, regardless of solenoid or diaphragm assembly position, using line pressure for its operation. The pump starts against a closed valve and regulates both the opening and closing rates. The rate of opening and closing can be adjusted and controlled separately.

PUMP CONTROL AND CHECK

Control surges in a pipeline on the discharge side of a booster pump. It starts and stops against a closed valve, prevent reverse flow, regardless of solenoid or diaphragm assembly position and regulating both the opening and closing rates to protect the system

FLOW COMPENSATING PRESSURE CONTROL

Reduce pressure supplied by the water supplier to the customer automatically, depending on flow.

DUAL STAGE PRESSURE

Automatic control with dual pressures, with the application of a pilot system with two independent reducing pilots, with either a calibrated orifice plate or 3-way solenoid. As the flow increases, the flow across the orifice plate increases until it reaches the set point of the 2nd pilot, causing the valve to switch over and control at higher pressure.



WATER MANAGEMENT - MINES

DUST SUPPRESSION

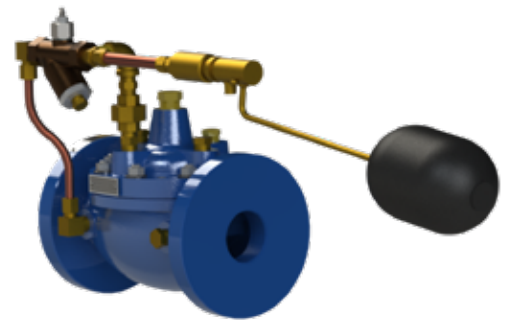
Solenoid or Air Pilot configurations are used in the dust suppression sprinkler system to dampen dust and prevent wind-blown dust contamination, fire, or dust explosion.

PRESSURE REDUCING

Reduce head pressure below ground of from the pump outlet, to a maintained fixed set point.

FIRE PROTECTION

Varying configurations can be used to achieve a purpose built fire control system for plant and asset protection



SELECTION & APPLICATION

The new 33 Series range comes standard in ductile iron, FBE coated, and is available in sizes from 50mm to 250mm. It can be used for a whole range of liquid mediums including potable water, seawater, aviation fuel, diesel and many others, and has been certified to AS4020 for products in contact with drinking water. Specialist application pilot systems allow the valve to be used in all applications from water level management, to pump and flow control.

All build options are available from Mack on special order, thus enabling clients to create their own specifications for their own specific needs, but our stock is based around common material specifications favoured by the water, mining and infrastructure industries.

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