4 Deluge Valves for a Fire Protection System

Deluge systems consist of at least three main components: a deluge control valve, a nozzle, and ancillary distribution pipework. Deluge control valve is the most important

Choosing the Right Deluge Valve

1 Weir Diaphragm Valve

DESCRIPTION

Flexible elastomeric diaphragm, which aligns with a seat situated within the body of the valve to create an effective seal.

PRO

- Reduced Risk of corrosion
- Inline serviceable

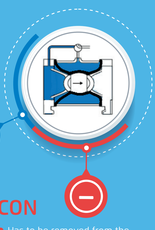
CON

- No valve position indication
- High maintenance unsupported diaphragm

2 Sleeve/Tubular Diaphragm Valve

DESCRIPTION

A tubular diaphragm forms a sleeve enclosed by a control chamber forming a tight seal. The seat is held in place centrally and the diaphragm is supported by metallic ribs.

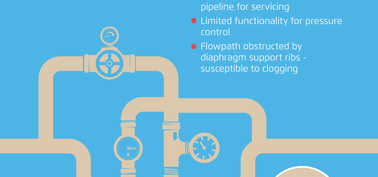


PRO

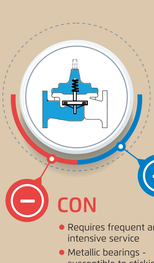
- No moving parts
- Compact

CON

- Has to be removed from the pipeline for servicing
- Limited functionality for pressure control
- Flowpath obstructed by diaphragm support ribs - susceptible to clogging



Globe Valve 3



DESCRIPTION

A single chambered diaphragm actuator, connected by a shaft to a closure disk which opens or closes the valve on a seat ring. The shaft is usually guided by bearings top and bottom.

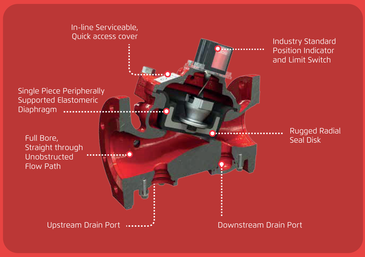
PRO

- Serviceable inline
- True position indication
- Suited to intensive and continuous use

CON

- Requires frequent and intensive service
- Metallic bearings - susceptible to sticking if not in continuous use
- Flowpath obstructed by shaft and bearing supports

4 BERMAD FP 400Y Torrent® Deluge Valve



FEATURES AND BENEFITS

- No mechanical moving parts, making the valve safer and more reliable
- Exceptionally low maintenance design.
- In-line serviceable
- Cover removal without detaching the control trim means minimal downtime for inspection or maintenance.
- Industry leading flow capability
- Suitable for service with sea water and foam concentrate

400Y Torrent® Deluge Valves

Download the Brochure Now

BERMAD Water Control Solutions | Fire Protection