

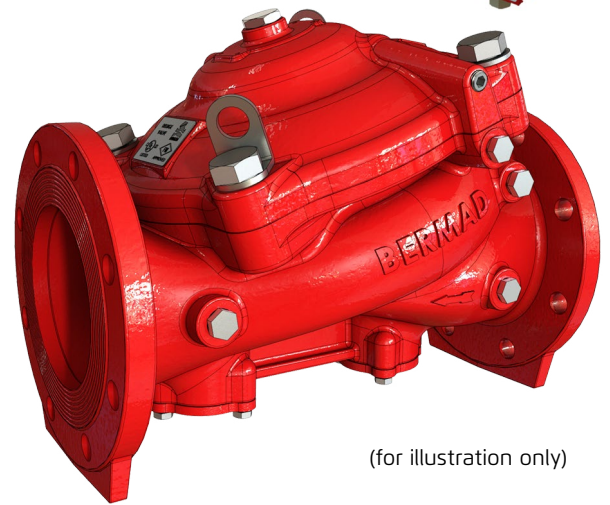
FP/FS 400Y Torrent Valve

The BERMAD FP/FS-400Y Torrent valve has been designed specifically for the fire protection industry, with an emphasis on rugged reliability and high performance to comply with the most demanding standards. The BERMAD 400Y is a straight-through, hydraulic, line pressure driven, elastomeric, rolling diaphragm globe valve approved for 25 bar/365 psi with an industry-leading flow capability. It is equally suited for vertical or horizontal installation and is available in pipe diameter sizes from 1½" to 16" (DN40 to DN400). The BERMAD 400Y is designed for flow control in deluge, pressure control deluge, remote on-off, monitor remote control, pre-action systems, pressure reducing and pressure relief. It is excellent for all fluids used in fire protection systems, from fire-water supplies to foam solution, seawater, foam concentrate and other corrosive liquids. It can be manufactured from various materials and coatings to suit a wide range of specifications and hazardous locations. It is certified and approved to the latest fire protection standards.

The 400Y's unique hydrodynamic straight through Y shaped design, with an unobstructed flow path, free from any supporting cage, in-line ribs, or shafts provides very high flow capabilities with minimal head/pressure loss.

Providing resilient, drip-tight sealing, the internal design of the valve is based on innovative Vulcanized Radial Seal Disk technology (VRSD) that uses advanced rubber-based materials to achieve a solid, single-piece, elastomeric unit. This is composed of a flexible, fiber-reinforced diaphragm vulcanized with a rugged, radial seal disk. It is hydraulically balanced and peripherally supported to avoid tension and protect the elastomers, resulting in long life and dependable actuation, even under harsh conditions.

Quick in-line inspection and servicing is enabled by a detachable valve cover. The elastomeric assembly can easily be removed without taking the valve out of the line or removing the valve control trim.



(for illustration only)



* Refer to specific model data sheets for applicable standards

Approvals

The BERMAD 400Y Torrent Deluge Valve is UL Listed and FM Approved when installed with specific components & accessories.

Refer to the current UL and/or FM fire protection equipment directory or consult BERMAD for any component approval recently to appear in any equipment directory.

Factory Fitted Options

- **Local valve position indicator beacon:**
The valve can be equipped with a protective-covered, dual-color, quarter turn position indicator, readable from a distance of 50 meters.
- **Valve Limit Switches and position monitoring device:**
A limit switch unit with dual SPDT limit switches enclosed in a protective switch box that can interface for monitoring any Fire & Gas control system. The switch box incorporates a dual-color visual position indicator.
- **Swivel Drain Valve unit:**
Installation in confined spaces is facilitated by the 360 degree swivel ability of the drain valve connections.

- **Seat Insert:**
The seat insert option is designed for applications where there is a high potential for cavitation damage. Specify this option for pressure control applications having high pressure differentials.
- **Seawater Resistance:**
The valve body and cover can be cast in various alloys to provide the required resistance to a corrosive internal fluid, such as seawater, or to a corrosive external environment, as with offshore applications or coastal environments. Corrosion resistance can also be provided by coating ductile iron or steel valves with highbuild fusion bonded epoxy with UV protection.

