



## FP 400E Valve

### Description

The BERMAD FP 400E valve is an elastomeric, rolling diaphragm globe valve, with a solid radial seal disc. These automatic water control valves are designed for vertical or horizontal installation and are available in diameter sizes from 1½" to 14" (DN40 to DN350).

The BERMAD FP 400E valves are used for water flow control in Deluge, Combination Pressure Control Deluge, Preaction or Water/Foam systems. They are available in a wide range of construction materials, making them suitable for a variety of industrial specifications.

The FP 400E Deluge Valve is line pressure driven and is held closed by system water pressure trapped in the control chamber. When the releasing system operates, pressure is released from the control chamber, and the seal disc opens to allow water to flow into the system.

The design of the FP 400E valve body includes a single, full bore seat with an unobstructed flow path, free of any in-line ribs, supporting cage, or shafts.

The unique hydro-dynamic globe design provides high flow capabilities with minimum head loss. The cover is removable via four fastening bolts (6 bolts for 12" and 14" valves) for quick in-line inspection and servicing.

The internal design of the FP 400E valve is based on innovative VRSD (vulcanized radial seal disk) technology. This technology uses advanced rubber-based materials to achieve a solid, one-piece, elastomeric assembly including a flexible fiber reinforced diaphragm, vulcanized with a rugged radial seal disk, and together providing resilient, long term, drip tight sealing. The elastomeric assembly is carefully balanced and peripherally supported to avoid tension and protect the elastomer, resulting in long life and a smooth controlled actuation, even under harsh conditions.

The elastomeric assembly can be easily removed from the valve body with no need for disassembling the valve from the line.

### Accessories

The BERMAD FP 400E Deluge Valve are trimmed with the original components and accessories per specification and in accordance with valve functions and applications.

Where additional specifications and/or signaling devices are required for a specific application, refer to system data for the system used, and to the BERMAD data sheet and Installation, Operation & Maintenance for specific model required.



### Main Features

- Single piece molded elastomeric moving part – No maintenance required
- In-line serviceable, field replaceable internal parts
- Full bore and obstacle free flowpath
- Available in corrosion resistant materials
- Quick resetting without opening the valve
- Compatible with electric/hydraulic/pneumatic release and pressure control trim systems

### Approvals

- UL Listed to UL 260 from 5 to 250 psi (0.3 to 17.2 bar) Working Pressure, 1-½" through 10" (DN40 through DN250)
- ABS Approved for 300 psi (21 bar) maximum working pressure, 1-½" through 14" (DN40 through DN350)
- Lloyd's Register Type Approval for 300 psi (21 bar) maximum working pressure, 1-½" through 14" (DN40 through DN350)
- Fire Test Certified to ISO 6182 part 5, 1-½" through 12" (DN40 through DN300)

#### Notes:

1. The FP 400E valve shall be trimmed with specific components & accessories.
2. The FP 400E valve must be installed and maintained in compliance with the most recent BERMAD publications.