



## 700E Deluge Valve

### Description

BERMAD 700E Deluge Valves are Y Type globe valves with integral unitized double chamber actuator that consists of one single moving assembly, which includes a diaphragm assembly, a flat seal disk and a stainless steel removable seat. These automatic water control valves are designed for high pressure service, in vertical or horizontal installations and are available in diameter sizes from 1½" to 16"; DN40 to DN400.

The BERMAD 700E valves are used for water flow control in Deluge, Pressure Control Deluge, Preaction or Water/Foam systems, and are manufactured from materials suitable for freshwater or alternative for seawater, foam concentrate or other corrosive fluids.

The 700E Deluge Valve 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 700E valve body design includes a single, full bore seat with unobstructed flow path, free of any in-line ribs, supporting cage, or stem guides.

The 700E "Y Type" design provides high flow capabilities with minimum head loss.

The integral unitized double-chambered actuator provides a combination of positive, immediate response with smooth hammer-free, drip-tight closing.

The whole actuator can be easily removed for a quick in-line inspection and servicing.

Valve actuation is accomplished by one moving assembly which includes a replaceable flat diaphragm, harnessed to the diaphragm assembly, a stainless steel stem and a flat seal disk assembly.

The balanced seal-disk assembly with its resilient seal enables controlled actuation, high durability and perfect drip-tight sealing, even under harsh conditions.

### Accessories

The BERMAD 700E Deluge Valve shall be 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

- High Pressure Construction – 400 psi (28 bar) rating available
- Integral unitized double chamber actuator with single moving assembly
- In-line serviceable, field replaceable internals
- Obstacle free, full bore
- Available in corrosion resistant materials
- Designed to be reset without opening the valve
- Compatible with electric/hydraulic/pneumatic release and pressure control trim systems

### Approvals

- UL Listed to UL 260 from 5 to 300 psi; 0.3 to 21 bar WP, 2" through 10"; DN50 through DN250
- ABS Approved for 300 psi; 21 bar WP, 1½" through 12"; DN40 through DN300
- Lloyd's Register Type Approval for 300 psi; 21 bar WP, 1½" through 16"; DN40 through DN400
- Fire Test Certified to ISO 6182 part 5, 1½" through 16"; DN40 through DN400

### Notes:

1. The 700E valve shall be trimmed with specific components & accessories.
2. The 700E valve must be installed and maintained in compliance with the most recent BERMAD publications.