

**NEW**

# **BERMAD**

## **FIRE PROTECTION CONTROL VALVES**

FP 400Y TORRENT<sup>®</sup> DELUGE VALVES



# FP 400Y TORRENT<sup>®</sup> DELUGE VALVES

**BERMAD IS PROUD TO INTRODUCE THE NEWEST ADDITION TO OUR SUCCESSFUL FP 400 SERIES - THE FP 400Y TORRENT<sup>®</sup> DELUGE VALVE.**

**FOR YEARS, BERMAD'S FIRE PROTECTION VALVES HAVE BEEN PROTECTING NUMEROUS HIGH HAZARD ONSHORE AND OFFSHORE FACILITIES WORLDWIDE.**

The FP 400 elastomeric globe valves are known for their reliable, long-lasting performance, their ease of installation, operation, service and their advanced features. Consequently the FP 400 Valve is the default choice at many of the High Hazard sites in the industry.

The newcomer to the FP 400 family – the FP 400Y Torrent<sup>®</sup> Deluge Valve enhances the operation envelope of the family and takes the solutions provided by these valves a major step forward toward meeting the ever evolving technological market challenges and new international standards including ISO 6182, CEN among others.

While maintaining the FP 400's technological advantages and features, the Torrent<sup>®</sup> Deluge Valve has an improved flow coefficient (kV), supports higher pressure classes and allows for even easier and quicker in-line service. The Torrent<sup>®</sup> has improved the FP 400's unique position indicator by adapting it to the industrial quarter-turn standard, allowing the valve to interface with any monitoring system while preserving its visual position indication. The Torrent<sup>®</sup> is also equipped with a wide range of limit switches and state of the art accessories.

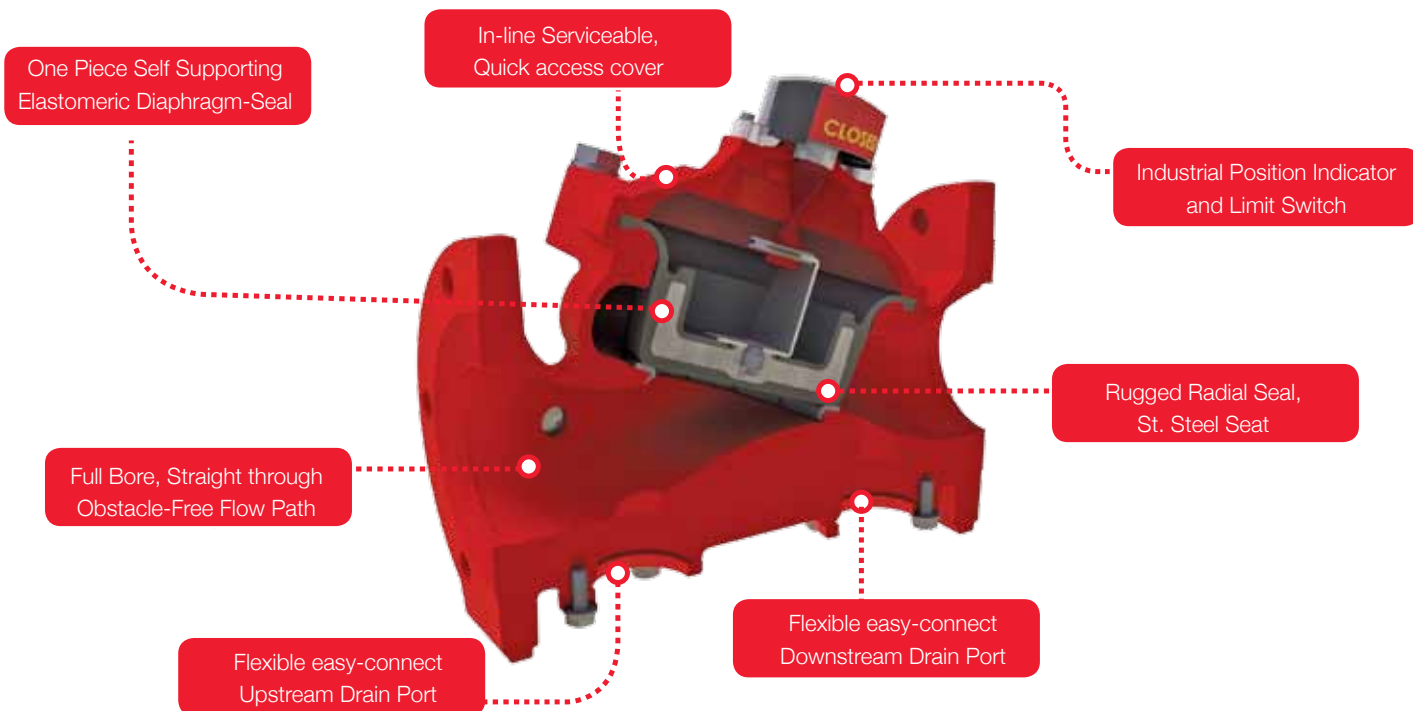
As a leading and ever improving fire protection applications manufacturer, we are successfully protecting the most precious assets and resources of the High Hazard industry. In the past few decades our FP 400 deluge valves excelled in protecting facilities in the Oil & Gas, Power and Petrochemical industries all over the world.

Our 9 worldwide subsidiaries, selling products in over 80 countries and on 6 continents, play a key role in the high satisfaction rate of Bermad's customers.

Adding to years of experience, market presence, reliability and high service orientation, the success of the 400E valves contributes to the trust and confidence of our customers.

For further information please check out [www.bermad.com](http://www.bermad.com) web site or contact your local dealer or Bermad representative.





## Features & Benefits

- Simple, time proven - Fail Safe open FP 400 design
- No mechanical moving parts - High Reliability and Increased Safety
- One Piece Molded Elastomeric Diaphragm Seal - No maintenance required
- Full Bore, Linear Flow, Un-interrupted Flow path - High Capacity Flow and higher kV
- Quick cover release, No trim dismantling needed – Minimal down time
- In-Line serviceable - Allows easy periodical inspections per NFPA regulations
- Lay standardized according to ISO 5752/EN 558-1
- Complies with latest international standards including ISO 6182 CEN and others
- Suitable for Sea Water Service and Foam Concentrate

## Optional Accessories

- Industrial modular Visual position Indicator
- Valve Position Single/Double Limit Switch (True Valve Position Indication) For Hazardous Locations
- Alarm pressure switch for Hazardous locations
- Flexible easy-connect Upstream & Downstream Drain valves (for easy system drainage)

## Optional Materials

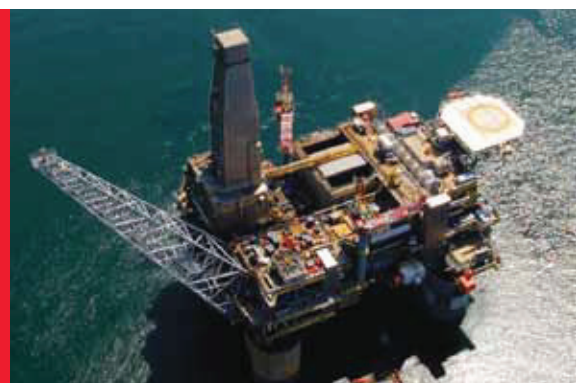
- Ductile Iron to ASTM A536 65-45-12 (coated)
- Cast Steel ASTM A216 Grade WCB (coated)
- Nickel Aluminum Bronze ASTM B148 C95800
- Stainless Steel 316 ASTM A351 Grade CF8M
- Hastelloy® C-276, Nickel Alloys, Titanium
- Control Trim: Stainless Steel 316, Hastelloy® C-276, Monel®, Ni-Al-Bronze & other Nickel Alloys

Valve End Connections	Standard	Class	Max Working Pressure
			bar (psi)
Standard Pressure	Flanged ASME/ANSI B16.5 / 16.42 / PN16	#150	16 (235)
High Pressure	Flanged ASME/ANSI B16.5 / 16.42 / PN25	#300	25 (365)

Size	2"	3"	4"	6"	8"	10"	12"
kV (cV)	80 (92)	190 (219)	345 (398)	790 (912)	1165 (1346)	1490 (1721)	1950 (2252)

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