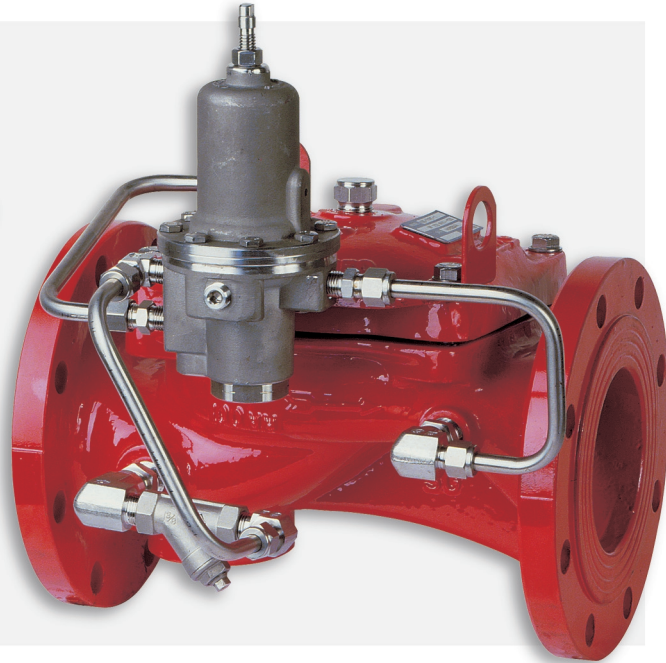




Pressure-Relief Valve

FP430-UL/FM

FP430- UL/FM



Features and Benefits

- Simple design – **cost effective**
- Quick cover removal – **easy in-line service**
- One piece diaphragm – **reliability**
- Line-pressure driven
- Unrestricted flow path

Optional Features

- Large control filter
- Seawater service

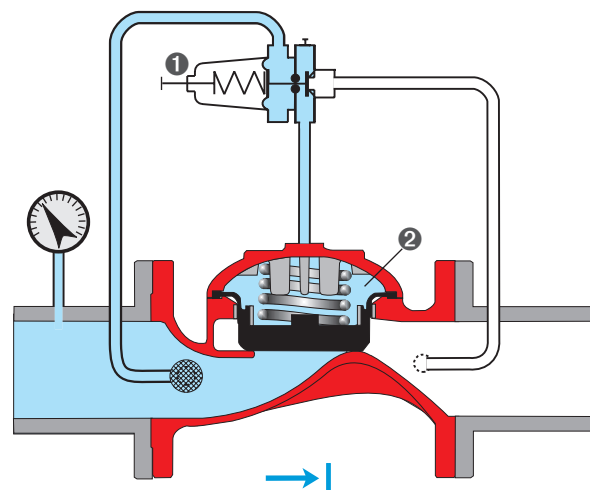
Consult your local BERMAD representative for full details

Tender Specifications

The valve shall be a UL-listed, FM-approved, line-pressure driven, direct-diaphragm actuated, angle (up to 4") or globe pattern valve. Valve actuation shall be accomplished by a one piece diaphragm assembly. The valve cover shall be removable for in-line service. The valve shall have an unobstructed flow path, with no stem-guide or supporting ribs. The pilot system shall consist of relief pilot valve and control strainer.

Operation

The BERMAD Model 430-UL/FM remains closed as long as the inlet pressure is lower than the setpoint. When it senses inlet pressure that is higher than the pilot **1** setting, it acts upon the control chamber **2** causing the main valve to open, relieving excess pressure to either the reservoir or sump.



Valve Closed



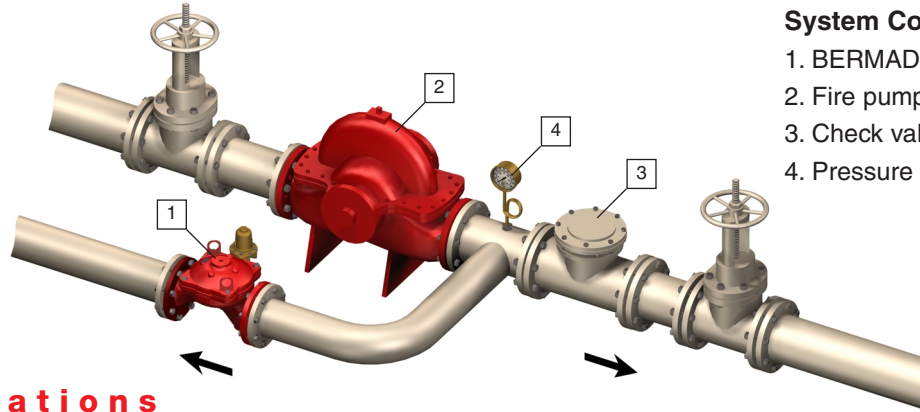
EX4294



FP430-UL/FM

Pressure-Relief Valve

Typical Installations

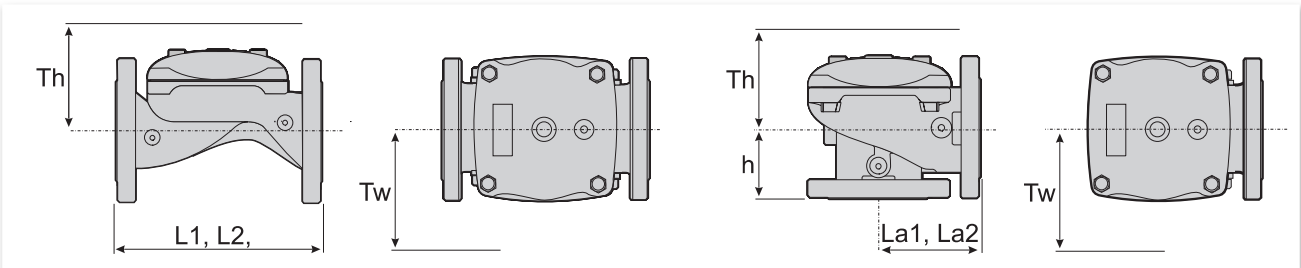


System Components

1. BERMAD Model 430-UL
2. Fire pump
3. Check valve
4. Pressure gauge

Specifications

Pilot System Dimensions



Valve Size	2"		2 1/2"		3"		4"		6"		
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
Dimensions	(1)L1	205	8 1/2	205	8 1/2	250	9 13/16	320	12 9/16	415	16 5/16
	(2)L2	180	7 1/16	210	8 1/4	255	10 1/16	N/A	N/A	N/A	N/A
	(1)La1	121	3 3/4	N/A	N/A	153	6	160	6 5/16	N/A	N/A
	(2)La2	284	11 3/16	N/A	N/A	300	11 3/16	313	12 5/16	341	13 7/16
	Tw	284	11 3/16	284	11 3/16	300	11 3/16	313	12 5/16	341	13 7/16
	Th	210	8 1/4	210	8 1/4	215	8 7/16	243	9 9/16	315	12 3/8
	h	83	3 1/4	N/A	N/A	101	4	112	4 7/16	N/A	N/A

Notes:

1. L1 & La1 are for flanged ANSI #125 / #150 and ISO PN16.
2. L2 & La2 are for threaded NPT or BSP.
3. Tw & Th are max for pilot system.
4. Data is for maximum envelope dimensions, component positioning may vary.
5. Provide adequate space around valve for maintenance.

Connection Standard

- Flanged: ANSI B16.42 (Ductile Iron), B16.5 (Steel & Stainless), B16.24 (Bronze), B16.1 (Cast iron), ISO PN16
- Threaded: NPT or BSP for 2, 2 1/2 & 3"

Water Temperature

- 0.5 – 50°C (33 – 122°F)

Available Sizes

- Globe: 2, 2 1/2, 3, 4, 6, 8, 10 & 12"
- Angle: 2, 3 & 4"

Working Pressure

- Max working pressure: 235 psi (16 bar)

Sizing

- Size the valve not less than according to NFPA-20.

Materials

Manufacturers Standard Materials

- Main valve body and cover: Cast iron ASTM A126 class B⁽¹⁾
- Valve wetted parts: Stainless steel and Natural Rubber
- Control System: Brass with copper tubing

Optional Materials

- Main valve body and accessories: Carbon steel ASTM A216-WCB⁽¹⁾
- Stainless steel 316
- Marine bronze⁽²⁾
- Control System: Stainless steel 316

Approvals

Main valve body and accessories

- UL-listed: 2-6"
- FM-approved: 2-6"

Notes:

1. Epoxy coated, fusion bonded - standard. Other coatings available on request.
2. For seawater service see BERMAD publication "Seawater and Corrosive Media".