

DIAPHRAGM TYPE, DIRECT ACTING PRESSURE RELIEF VALVE

Model FP-3PBL-0

The BERMAD model FP-3PBL-0 is a direct acting, spring loaded, diaphragm type relief valve. The single port is held closed by the force of the adjustable spring located above the pressure sensing diaphragm. When the force of the pressure sensed under the diaphragm exceeds the force of the spring the valve will open to relieve pressure and will close tight when pressure falls below the pre-set value. This UL Listed and FM Approved valve is well suited for use in protecting wet pipe Systems, pilot lines and Fusible sprinkler lines from overpressure occurring from temperature fluctuations, pump start up spikes and other.

Features

- Fast immediate response to pressure rise
- Easy in-field pressure setting adjustment
- UL/FM Approved
- Available in corrosion resistant materials
- Sealable tamperproof cap

Typical Applications

- Thermal release for wet piping systems
- Pressurized sprinkler systems
- Pressure relief for pressure control valves
- Jockey pump overpressure

Technical Data

Pressure Rating: 365 psi

Water Temperature Range: 180 °F

Flow Factor: Cv 1.1

Weight: 3 Lbs

Standard Materials:

Body: Bronze

Cover: Brass

Elastomers: NBR

Internal Parts: Stainless Steel & Brass

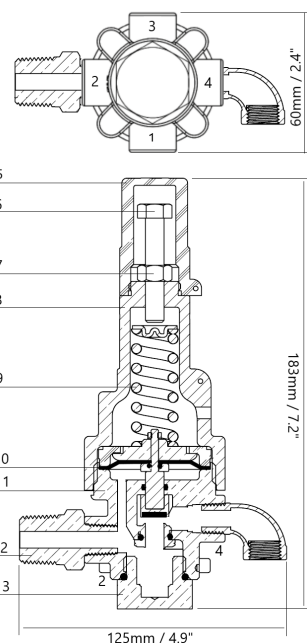
Spring: St. St. 302

Optional Materials:

Body: Stainless Steel, Nickel Aluminum Bronze, Super Duplex

Cover: Stainless Steel, Nickel Aluminum Bronze, Super Duplex

Internal Parts: Stainless Steel, Nickel Aluminum Bronze, Hastelloy, Super Duplex



Part	Description
5	Tamperproof cover
6	Adjusting screw
7	Locking nut
8	Cover
9	Spring
10	Diaphragm
11	Body
12	Inlet
13	Bottom plug

Port	Size	Connections
4	1/4" NPT	Outlet
2	1/2" ISO-7-Rp	Inlet
1 & 3	1/4" NPT	Pressure Gauge Port

Typical Installations

The BERMAD FP-3PBL-0 direct pressure relief valve will accurately relieve pressure above a pre-set value and will seal drip tight when pressure falls below the set pressure.

Typical installations of the BERMAD FP-3PBL-0 include pressure build up prevention in pilot lines and wet pipe sprinkler systems caused by thermal expansion or pressure peaks during pump start ups.



*FP-3PBL-0 - Overpressure protection
in a Fusible Plug pilot line*



*FP-3PBL-0 Protection against pressure build-up
in Automatic Sprinkler piping*

Installation

The valve can be installed in any orientation, vertical or horizontal and at any point of shared pressure of the line to be protected. Be sure not to install the valve at any low point or at the bottom of the piping, where accumulated debris might enter the valve and hamper correct functioning. The valve may occasionally open to release over pressure from the system piping, expelling small amounts of water into the atmosphere. Where relevant install piping to direct any expelled water to a preferred point. Use the below table for an approximate in-field adjustment of the relief pressure setting.

Model	Material			Setting Range	
	Body	Cover	Spring	barg	psi
FP-3PBL-0-P-0-B	Bronze	Brass	S.S 302	4.1 - 16	60 - 235
FP-3PBL-0-P-0-N	AISI 316	AISI 316	S.S 302		
FP-3PBL-0-P-0-U	Ni.Al.Bronze	AISI 316	S.S 302		
FP-3PBL-0-P30-0-B	Bronze	AISI 316	S.S 302	10 - 25	145 - 365
FP-3PBL-0-P30-0-N	AISI 316	AISI 316	S.S 302		
FP-3PBL-0-P30-0-U	Ni.Al.Bronze	AISI 316	S.S 302		

Engineer Specifications

The relief valve shall be UL listed and FM approved.

The valve shall be of a diaphragm assisted direct acting type, constructed with corrosion resistant materials throughout.

The setting assembly shall be protected from unintended adjustment by a tamperproof wire sealable cover.

Pressure gauge ports shall be available at either side of the valve.

Each valve shall be assembled and hydraulically tested at a factory certified to ISO 9000 and 9001 standards.