



ADJUSTABLE DIRECT-ACTING LOW-FLOW PRESSURE REDUCING

Model 0.75-PRV-05

The BERMAD Adjustable Direct Acting Pressure Reducer is actuated by a pressure responsive diaphragm, which seeks to reach equilibrium between hydraulic and set spring force. It reduces higher upstream pressure to lower constant downstream pressure. The low flow version model IR-3/4" PRV-05 provide superior solution under conditions of near zero demand.



- [1] BERMAD Model 3/4"-PRV-05 protects laterals and compensates for line friction, ensuring dripper flow per design.
- [2] Solenoid Controlled Valve Model IR-21T
- [3] Vacuum Breaker Model IR-ARV
- [4] Combination Air Valve IR-C10

Features & Benefits

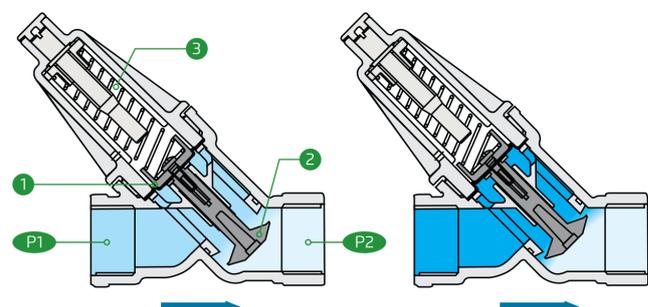
- Advanced Construction Materials
 - High mechanical strength
 - Proven pressure, flow and weather resistance
- Adjustable Direct Acting Pressure Reducer
 - Constant downstream pressure
 - Immediate response
 - Adjustable according to season and stage
- Composite Body and Trim
 - Highly durable, chemical and cavitation resistant
 - Minimizes friction
- Unitized Rolling Diaphragm and Guided Plug
 - Accurate and stable regulation
 - Prevents diaphragm distortion
- User-Friendly Design
 - Can be installed at any orientation
 - Simple in-line inspection and service

Typical Applications

- Distribution Line Lateral Risers
- Non-Compensating Drip-Line Flow Fixation
- Lateral Final Burst Protection
- Pressure Reduction for Marginal Plots

Operation:

The Upstream Pressure [P1] applies balanced opening and closing hydraulic forces under the Diaphragm [1] and above the Plug [2]. The Downstream Pressure [P2] applies hydraulic closing force under the plug, which seeks to reach equilibrium with the Set Spring [3] force. Should [P2] rise above setting, the hydraulic closing forces rise above the mechanical force of the spring, pushing the plug to modulate closed, and reducing [P2] back to setting.





0.75-PRV-05

Technical Data

Pressure Rating:
145 psi

Operating Pressure Range:
10-130 psi

Temperature:
Water up to 140°F

Flow Range:
0.04-13 gpm (¾"-PRV-05)

Materials

Body & Cover:
Polyamide 6 & 30% GF

Diaphragm:
NR, Nylon fabric reinforced & NBR

Spring:
Stainless Steel

Setting Springs Selection Table:

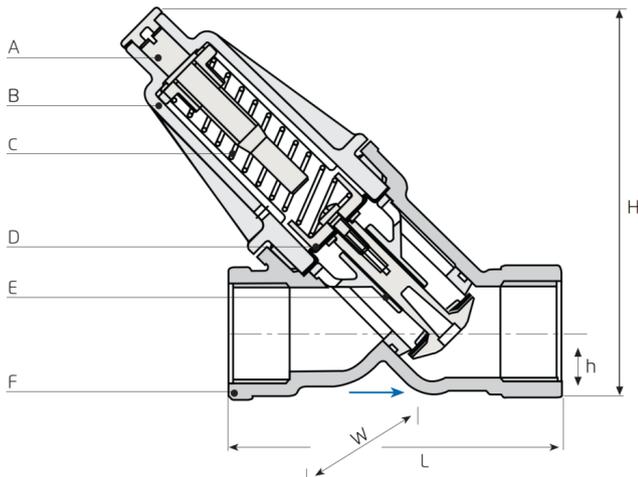
Spring	Spring Color	Setting range
B	White	12-36 psi
C	Red	29-58 psi

Technical Specifications

For other patterns and end connection types,
Please refer to [BERMAD](#) full engineering page.

Size (DN)	Model	End Connection	Weight (Lb)	L (In)	H (In)	h (In)	W	CV
¾" ; 20	¾"-PRV-05 (Low Flow)	Threaded	0.29	3½	3¾	¾	1¾	4.2

• **Inlet Threaded:** Female BSP; NPT • **Outlet Theaded:** Female BSP; NPT or Male BSPT; NPT



0.75-PRV-05 Cross Section

Part	Description
A	Setting Screw
B	Cover
C	Setting Spring
D	Rolling Diaphragm
E	Actuator Assembly
F	Body