

# FIRE PROTECTION PRESSURE REDUCING VALVE

# Model: UL-BFR (LISTED



LISTED

# **UL Listed for:**

Special system water control valves (VLMT), Pressure Reducing and Pressure Control type for Fire Protection Systems.

### **Pressure Rating**

- UL-Listed 3 8": 300 psi (21 bar)
- Max. for Class#300: 400 psi (28 bar)
- Setting range: 30 100 psi (2 7 bar)

## Advantage

- Piston Type Design
- Accurate Pressure Control
- No Cotroller Conduit
- Compact Size
- Easy to Install

# **Typical Applications**

- House station Feeds
- Sprinkler systems with over pressure
- Deluge system with over pressure
- Foam system
- Fire hydrant water supply

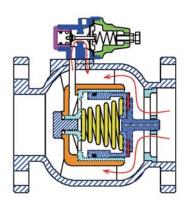
**Z-Tide UL-BFR Pressure Reducing Valves are indispensable in any fire protection system. Our Piston Design is easy to install and maintain.** 

Underwriters Laboratories requires the installation of pressure gauges upstream and downstream of the Pressure Reducing Valve.

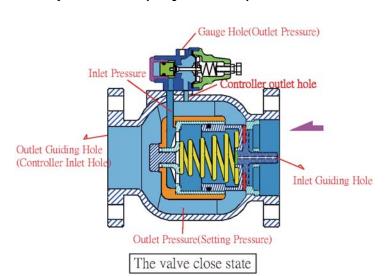
Also, a relief valve of not less than 1/2 inch in size must be installed on the downstream side of the pressure control valve. Adequate drainage for the relief valve discharge must be provided.

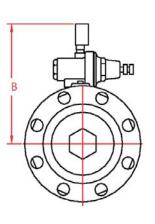
#### **Performance characteristics:**

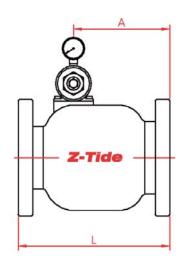
- \* When inlet pressure is lower than 10psi, the main valve cannot be opened and water will go through the flow path to outlet. (Very little flow at outlet)
- \* When inlet pressure is between 10 ~ 30psi, the static outlet pressure will be the same as inlet pressure.
- \* When inlet pressure is higher than 30psi, the static outlet pressure will be the same as set pressure.
- \* When outlet pressure is higher than inlet pressure, water will go back through the flow path to inlet. (Very little flow)



The valve open state







| Item No.   | Size | A(mm) | B(mm) | L(mm) | Weight(kg) | Max. Flow(GPM) |
|------------|------|-------|-------|-------|------------|----------------|
| UL-BFR-80  | 3"   | 152   | 205   | 240   | 24         | 400            |
| UL-BFR-100 | 4"   | 174   | 220   | 270   | 37         | 600            |
| UL-BFR-150 | 6"   | 208   | 255   | 335   | 63         | 2000           |
| UL-BFR-200 | 8"   | 296   | 295   | 450   | 112        | 3200           |