

Model RP6L

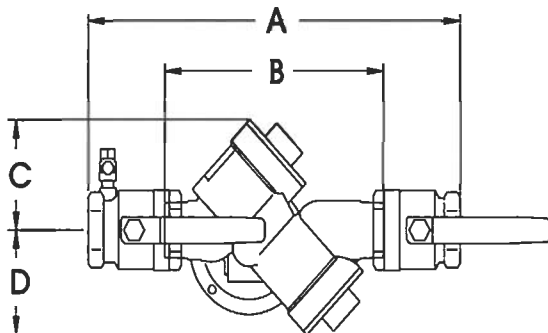
Reduced Pressure Principle 3/4" to 2"

FEATURES

- Modular relief valve for ease of maintenance.
- Simple Service procedures. All internal parts serviceable in line.
- **Low head loss.**
- Spring loaded "Y" type check valves.
- Internal relief valve pressure sensing passages.
- Replaceable relief valve seat ring on all sizes.

SPECIFICATIONS

The reduced pressure backflow preventer shall consist of two independently operating, spring loaded, "Y" pattern check valves and one hydraulically dependent differential relief valve. The assembly shall automatically reduce the pressure in the "zone" between the check valves to at least 5 PSI lower than inlet pressure. Should the differential between the upstream and the zone of the unit drop to 2 PSI, the differential relief valve shall open and maintain the proper differential.

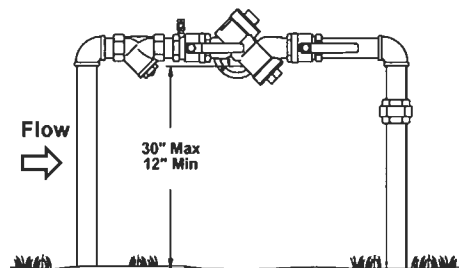


| SIZE | A | A | B* | C&D | E | LBS. |
|-------|--------|--------|--------|-------|-------|------|
| 3/4 | 12 1/4 | 11 1/4 | 7 3/4 | 3 1/4 | 4 1/8 | 11.5 |
| 1 | 13 5/8 | 11 5/8 | 7 3/4 | 3 1/4 | 4 1/8 | 12.5 |
| 1 1/2 | 18 1/4 | 15 1/4 | 10 1/2 | 4 1/2 | 5 | 26.5 |
| 2 | 19 | 15 1/2 | 10 1/2 | 4 1/2 | 5 | 29.0 |

B* = dimensions less shut-offs.

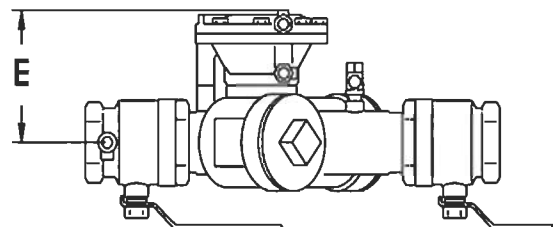
APPLICATIONS

Reduced Pressure assemblies are used to protect against high hazard (toxic) fluids in water services to industrial plants, hospitals, morgues, mortuaries, and chemical plants. They are also used in irrigation systems, boiler feed, water lines and other installations requiring maximum protection.



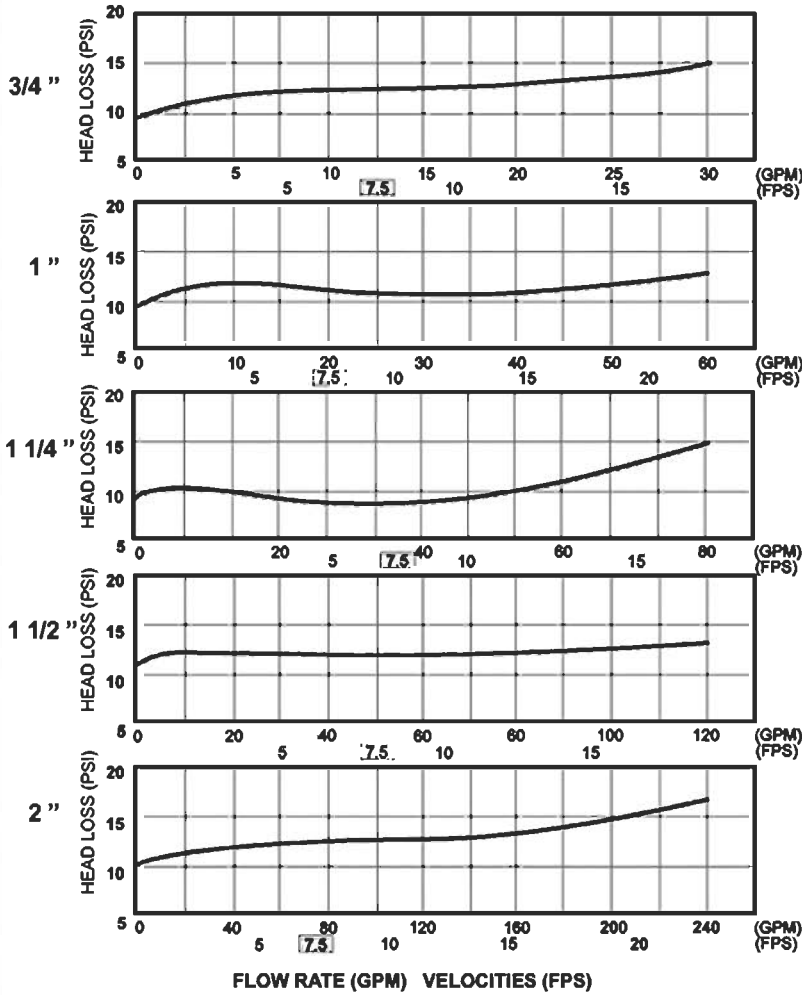
INSTALLATION

Reduced Pressure Backflow preventers should be installed with minimum clearance of 12" between relief valve discharge port and floor or grade. They must be installed where discharge will not be objectionable and can be positively drained away. They should be installed where easily accessible for testing and maintenance and must be protected from freezing. Thermal water expansion and/or water hammer downstream of the backflow preventer can cause excessive pressure. Excessive pressure situations should be eliminated to avoid possible damage to the system and assembly.



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FLOW CURVES



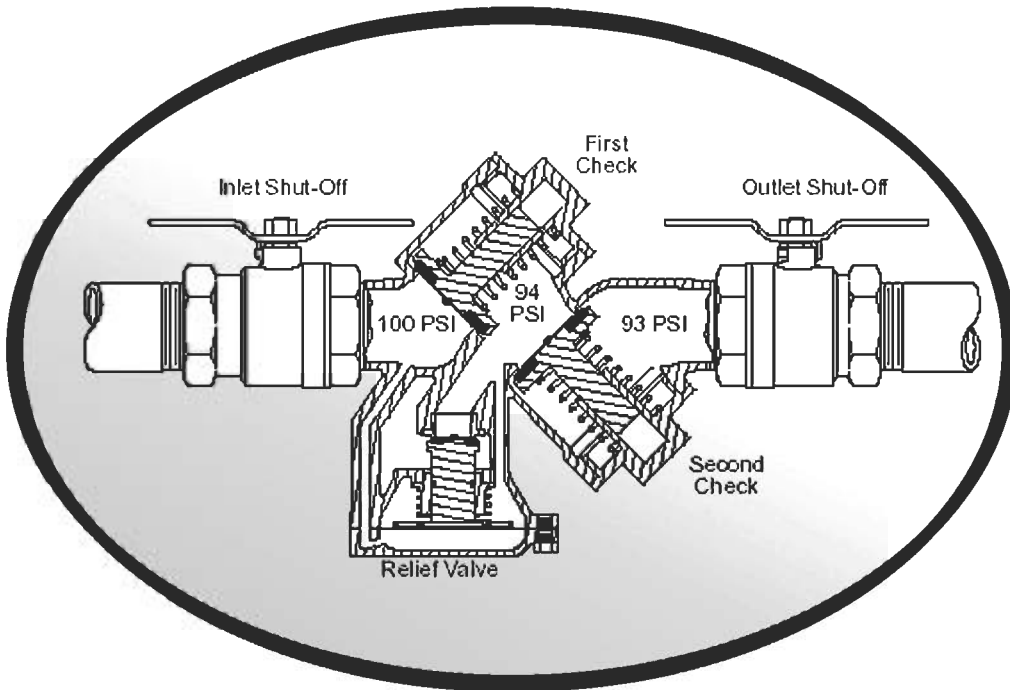
CHARACTERISTICS

Maximum pressure 175 PSI
 Hydrostatic test pressure 350 PSI
 Temperature range 32°F to 140°F
 Fluid Water

MATERIALS

| | |
|-------------------|---|
| End detail | Threaded ANSI B2.1 |
| Main valve body | Bronze |
| Relief valve body | Bronze |
| Elastomers | Nitrile Seat Discs† |
| | Diaphragms: Nitrile, fabric reinforced |
| Springs | Stainless Steel |

† Can be supplied with optional silicone seat disc.



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