POWHATAN

DATA SHEET
#PHF150

POW-R-MATIC Pressure Reducing Valve with Grooved Connections

Models

- **18-459: Double Female.** Inlet and outlet, groove x groove, with hand wheel. Finish: Cast, polished trim, cast chrome, polished trim chrome. **Note: Types 85, 90 and 95 require 7½" Handwheel**

Description

Pow-R-Matic™ is a true combination shut-off and pressure reducing valve, available in 2½" size.

The 2½" P.R.V. is designed to reduce inlet pressures of 400 psi (2758 kPa) or less to desired working pressures from 20 through 175 psi (138-1207 kPa) under discharge or static conditions.

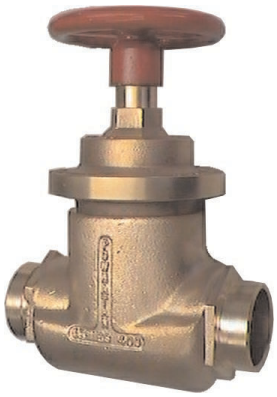
The Model no. 1845900024-32 are unique in having groove by groove connection for easier installation.

The overall benefits of the new 2½" P.R.V. with grooved connections are:

- grooved connections are easier to install.
- Kidde Fire Fighting is the only manufacturer of this type of product.
- brass construction, thus eliminating the need for corrosion resistant coating.
- UL Listed.

Pow-R-Matic™ 18-459 2½" valves are furnished with open/closed indicators for rapid conformation of the valves status in the system.

The Pow-R-Matic™ Valves are available with a tamper proof switch as an accessory device to hasten valve operation while monitoring its open condition. The complete switch, with bracket and housing, is available for field mounting.



18-459
DOUBLE FEMALE

Approvals

Pow-R-Matic™ Valves are Listed by Underwriters Laboratories for:

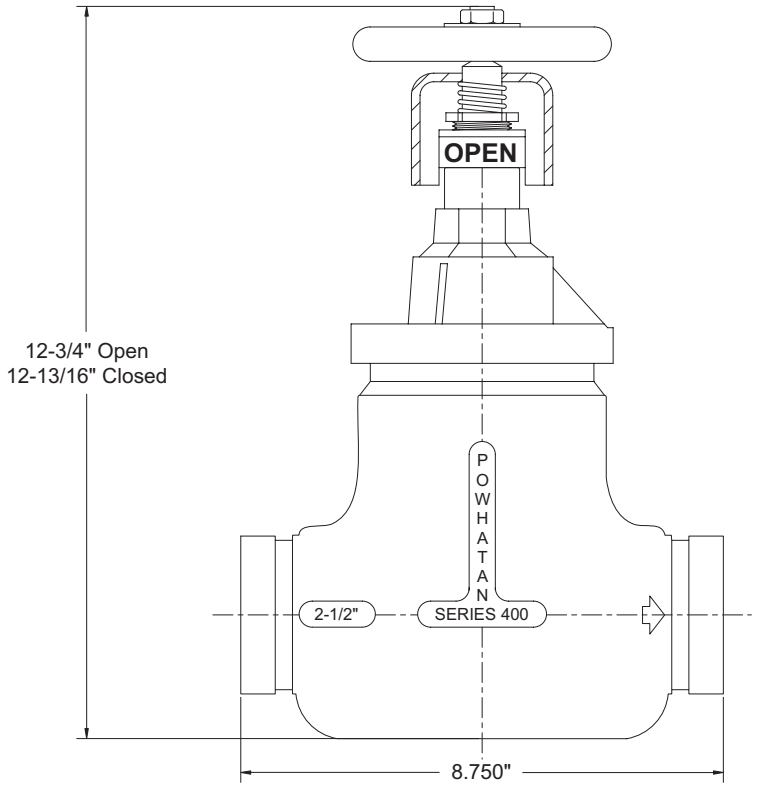
- Automatic Sprinkler Systems as floor or zone control valves.
- Standpipe Systems, Class I, II and III
- Automatic Check Valve for Dual Riser Systems, Approved by the New York City Board of Standards & Appeals 97-74-SM, the City of Los Angeles and the City of San Francisco (ULC 2½").

Maximum Rated Inlet Pressure

Pressure		Valve Type
Psi	KPa	
200	(1379)	55,60
225	(1551)	15,65
250	(1724)	70
275	(1896)	75
300	(2069)	30 through 50, 80
350	(2413)	85
400	(2758)	90,95

Maximum rated inlet pressure for each valve type; to assure a maximum outlet pressure of 175 psi. Can still be safely hydrostatically leak tested to 400 psi.

POW-R-MATIC
Pressure Reducing Valves
Submittal Sheet



Specification Chart

	Location			Inlet			Outlet Desired		Actual			
Qty	Tag	Style	Size (in.)	Static (psi)	Residual (psi)	@ Flow of (gpm)	Static (psi)	Residual Min-Max (psi)	Static (psi)	Residual (psi)	@ Flow (gpm)	Type

GUIDELINES:

1. Customer is requested to furnish as much information as possible to insure delivery of the appropriate valve. Flow values for inlet static and residual pressure readings are needed for all types of valves (standpipe or sprinkler). Please provide a Desired Residual Outlet pressure range.
2. Style available: 18-459.
3. Size: 2½" (18-459, 2½" only).
4. "Actual" columns to be filled out by Factory. Actual values given above have an accuracy of ± 10% .
5. Valves are permanently tagged for correct floor placement.

1/02 Printed in USA PHF150.QXD

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