Rometec srl - www.rometec.it - Rometec srl - www.rometec.it - Rometec.srl - www.rometec.it

# **Back Pressure & Pressure Relief Valves**

Designed to Enhance the ACCURACY and SAFETY of Metering Pumps



- Built-in air release and optional gauge port
- Available in PVC, CPVC, PVDF, polypropylene, PTFE, stainless steel, Alloy 20 and Hastelloy C
- 7 sizes (1/4" 2" threaded, flanged or socket)
- Color coded handles indicate size at a glance
- High temperature valves available to (300°F/149°C)
- High pressure metallic valves available to 350 psig
- High pressure thermoplastic valves available to 230 psig



# Back Pressure/Anti-Siphon and Pressure Relief Valves

# Standard Valve Series: (threaded, socket and flanged)

#### This series incorporates:

- CPVC (Corzan) molded top on most models
- available in 7 sizes 1/4" to 2" NPT or BSPT
- 8 materials including PVC, CPVC, polypropylene, PVDF, PTFE, stainless steel, Alloy 20 & Hastelloy C
- back pressure (anti-syphon) valve is a two port flow through design, factory set at 50 PSIG (field adjustable 15-150 PSIG)
- pressure relief valve is a three port flow through design factory set at 50 PSIG (field adjustable 15-150 PSIG)
- pressure relief valve is also available in a two port, off line style (model P2)
- standard diaphragm is PTFE laminated and EPDM backed (3 year warranty); optional materials available
- optional higher pressure rated (232 PSIG/16 BAR) PVC, CPVC (Corzan) and PVDF valves available
- · locking pressure adjustable handle standard
- · gauge port option
- other optional materials available for CPVC molded top

Note: CRN available on a variety of valves. Please contact us for price and availability.

## Flanged Valve Series: (Plastic)



This series incorporates 150# socket-welded flanges on PVC and CPVC valves and threaded 150# companion flanges on polypropylene, PVDF and PTFE valves.

Flange sizes from 1/4" to 2" available.

# Flanged Valve Series: (Metallic valve bodies)



This series incorporates 150# weld neck flanges on all metallic valve bodies. Valve top material available in PVC, CPVC (Corzan).

These flanged valves are also available in the High Temperature and High Pressure Series.

# Flanged Valve Series: (All Metallic)



This series incorporates either an aluminum or 316 stainless steel top on a metallic body constructed of 316L, Alloy 20, Hastelloy C or titanium.

These flanged valves are also available in the High Temperature and High Pressure Series.

Rometec srl - www.rometec.it - Rometec srl - www.rometec.it - Rometec srl - www.rometec.it

# Back Pressure/Anti-Siphon and Pressure Relief Valves

## High Pressure Series (only available with metallic body)



- pressure range 50 to 350 PSIG
- this series incorporates a standard aluminum metallic top, viton diaphragm, high pressure spring with three standard choices of metallic wetted bottom
- standard body materials available are 316L stainless steel, Alloy 20 or Hastelloy C; other metallic bodies available on request
- standard metallic top is aluminum with optional 316L stainless material available
- valve is available in three styles: BH back pressure 2 port design;
  PH pressure relief 3 port in-line design;
  P2H pressure relief off-line design
- valves available in various configurations that include threaded, socket and flanged

### Mid-Range Series (only available with thermoplastic body)

20 - 230 psig range
 Available in PVC, CPVC, PP, and PVDF

#### **High Temperature Series** (for applications above 140°F/ 60°C)

- temperature limit of this valve is dependent on body material selection to a maximum of 300°F (149°C)
- this series incorporates a standard aluminum metallic top, viton diaphragm, high pressure spring with three standard choices of metallic wetted bottom
- standard body materials available are 316L stainless steel, Alloy 20 or Hastelloy C, all rated to the maximum temperature; other metallic bodies available on request
- optional body mateirals available are CPVC (Corzan) and PVDF; these have limited pressure versus temperature ratings and the factory should be consulted to ensure proper selection
- standard diaphragm material is Viton with optional materials available
- standard metallic top is aluminum with optonal 316L stainless steel available
- valve is available in three styles: BH back pressure 2 port design; PH pressure relief 3 port in-line design;
  P2H pressure relief off-line design
- valves available in various configurations that include threaded, socket and flanged



## Top Valve Optional Extras (applies to all valves)

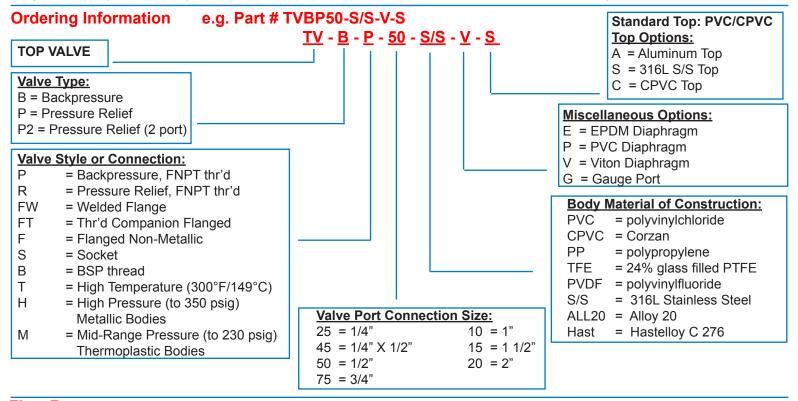
- gauge port
- various types of dry or liquid filled gauges
- gauge guards in various materials
- contact factory for pricing on options (sales@primaryfluid.com)

NOTE: CRN available on a variety of valves. Please contact us for price and availability.

# Back Pressure/Anti-Siphon and Pressure Relief Valves

#### **Description**

This line of diaphragm style, back pressure/anti-siphon and pressure relief valves features a completely adjustable pressure range to 350 PSIG and a built-in air release to reduce priming difficulties. The valves are available in sizes from 1/4" through 2", eight materials of construction, offer a three year warranty and are available with socket weld, flanged or special threaded connections. High temperature to (300°F/149°C) valves are available. *CRN certification available. Please contact factory.* 



#### **Flow Rates**

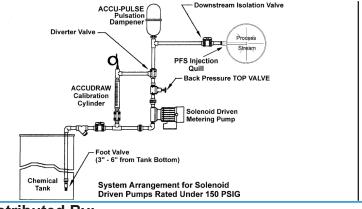
Flow capacity through TOP VALVE back pressure/anti-siphon and pressure relief valves under continuous flow conditions @ <u>50 PSIG</u> with ambient temperature water.

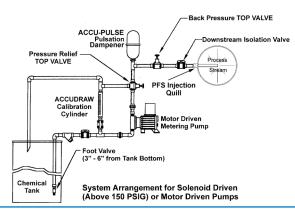
Size	1/4"	1/4" / 1/2"	1/2"	3/4"	1"	1 1/2"	2"
Flow rate USGPM	4	4	6	8	14	25	40

**Note:** Capacities will increase with pressure. If pressure is doubled, flow rate wll approximately double. For capacities of valves with pulsating flow, use approximately 1/3 of the given flow rates.

#### **Typical Installations**

The installations below are typical installation examples only. Consult your engineering department for the appropriate installation of your application or call Primary Fluid Systems Inc. for advice.





**Distributed By:** 

#### Rometec srl

Via Alessandro Minuziano, 87 - 89 00128 - Roma Tel 06-5061635 Fax 065061542 P.Iva 0412062100

www.rometec.it