The future of high-performance metering pump systems. Introducing the world’s first combination pulsation dampener & back pressure valve:

**HYBRID VALVE**

**THE ALL IN ONE SMART CHOICE:**

The new patented Hybrid Valve™ from Blacoh combines the steady flow control of a pulsation dampener and the regulation of a back pressure valve to deliver the performance and functionality of both. Why install and maintain two pieces of equipment when the Hybrid Valve™ does the same, only better.

**LESS SPACE**

**LESS LEAK POINTS**

**LESS MAINTENANCE**

**MORE EFFICIENCY**

**MORE FUNCTIONALITY**

**MORE PROTECTION**

**THE PERFORMANCE IS IN THE NUMBERS:**

The state-of-the-art Hybrid Valve™ was engineered with proven principles for optimum performance and maximum efficiency, saving you costs in the long run.

In a metering pump system, using a back pressure valve alone does nothing to improve fluid flow (orange). The flow improves significantly when put in series with a pulsation dampener (red). But neither result can match the excellent laminar performance of the single construction Hybrid Valve™ as the two functions work in unison (blue).

Celebrating Over 40 Years. Don’t Pump Without Us.

951.342.3100 | WWW.BLACOH.COM | SALES@BLACOH.COM
TRUST THE FLUID CONTROL EXPERTS:
NO CHATTER & SMOOTHER FLOW

Location and proximity are key when installing pulsation dampeners and back pressure valves in any pumping system. A back pressure valve installed in series with a damper can negate the dampening effect if the valve is opening and closing before the damper is able to get a full pulse. This quick-opening effect can also create too much gain within the back pressure valve resulting in inefficiency and chatter.

By combining the damper and back pressure valve into a single engineered unit, we’ve eliminated the most common issues with installation for a more efficient, simplified system.

TECH SPECIFICATIONS

- **Air Control Type:** Chargeable
- **Dampener Volume:** 10 cu in (0.16L)
- **Wetted Housing:** PVC or CPVC
- **Non-Wetted Housing:** PVC or CPVC
- **Bladder/Bellows Material:** Buna-N, EPDM, Hypalon, Neoprene, PTFE, Santoprene, Silicone Food Grade, Viton
- **Valve Diaphragm Material:** PTFE
- **Spring:** Zinc Plated Carbon Steel
- **Spring Housing (Non-Wetted Side):** PVC
- **Spring Adjustment Screw:** PVC
- **Spring Seat:** PVC
- **Inlet Connection Options:**
  - 1/4" (6.4mm) NPT or BSP
  - 3/8" (10 mm) NPT or BSP
  - 1/2" (13 mm) NPT or BSP
  - 1/2" (13 mm) Union Connection
  - 1" (25 mm) Socket Weld
  - 1.25" (32 mm) Socket Weld Flange
- **Standard Dimensions:**
  - Height: 9.0" (229 mm)
  - Diameter: 3.5" (89 mm)

MODEL NUMBERS

Contact our sales team or enter the model number into our online SpeedQuote:

<table>
<thead>
<tr>
<th>SERIES: HYBRID VALVE 10 CU IN</th>
<th>INLET SIZE: 0.35&quot; - 0.50&quot;</th>
<th>EXTERNAL HOUSING: PVC - CPVC</th>
<th>INLET MATERIALS: Buna-N, EPDM, Hypalon, Neoprene, PTFE, Santoprene, Silicone Food Grade, Viton</th>
<th>INTERNAL MATERIALS: PTFE</th>
<th>INLET TYPE: BSP - UNION</th>
<th>SPRING PRESSURE RANGE: 10-180 PSI</th>
</tr>
</thead>
</table>

CONTACT US

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BLACOH.COM/HYBRIDVALVE
SALES@BLACOH.COM

Made in the USA. Offices Worldwide.