

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

# BLACOH HYBRID VALVE™



Patent Pending



## THE ALL IN ONE SMART CHOICE:

The new patent-pending 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

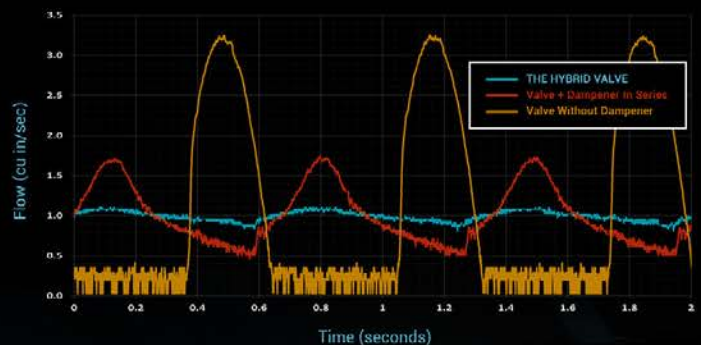


MORE EFFICIENCY  
MORE FUNCTIONALITY  
MORE PROTECTION

## 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).



**BLACOH™**  
FLUID CONTROL

Celebrating Over 40 Years. Don't Pump Without Us.  
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**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 dampener can negate the dampening effect if the valve is opening and closing before the dampener 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 dampener 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 SPECIFICS**



**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  
1/2" (13 mm) Socket Weld  
1/2" (13 mm) Socket Weld Flange



**Standard Dimensions:**  
Height: 9.4" (239 mm)  
Diameter: 3.5" (89 mm)

**MODEL NUMBERS**

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

SERIES:		INLET SIZE:		EXTERNAL HOUSING:		INTERNAL MATERIALS:		SPRING PRESSURE RANGE		INLET TYPE	
HYBRID VALVE		10 CU IN		WETTED NON-WETTED		BLADDER DIAPHRAGM		10-150 PSI / 10-50 PSI		FNPT / BSP / SOCKET WELD / UNION	
		0.25"	-025	PVC	-V	BUNA-N	-B				
		0.375"	-038	PVC	V	EPDM	-E				
		0.50"	-049	CPVC	-C	HYPALON	-H				
						NEOPRENE	-N				
						PTFE	-T				
						SANTOPRENE	-W				
						SILICONE (FG)	-S				
						VITON	-V				

**CONTACT US**



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BLACOH.COM/HYBRIDVALVE



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