

Back Pressure/Anti-Siphon Valve for E-Class Metering Pumps

General Information

The Walchem back pressure / anti-siphon valves are designed to be used with the E-Class metering pumps. They are available as a separate accessory for any of the metering pumps and can also be ordered as part of the EHE or EH-High Viscosity pumps simply by adding the "V" designation after the liquid end code. The back pressure / anti-siphon valve has two primary uses in a metering pump system:

- 1) Electronic metering pumps require back pressure to prevent over pumping and control dispense outputs in both low pressure or open discharge applications.
- 2) Siphoning of chemical can occur when the discharge point is downhill or operating at negative system pressures. Anti-siphon protection allows accurate pump operation in these conditions.



The advantage of using a diaphragm valve rather than a spring loaded ball check is that negative pressures on the outlet side of the valve will tend to close the valve, preventing siphoning.

The valve is available in PVC/Teflon® or Polypropylene/ Teflon® construction, depending on the liquid end of the pump.

* Note: Valves all have 1/2" NPTF connections with tubing connectors included.

P/N	Back Pressure/Anti-Syphon Valve Material	Connector* Tubing Size O.D.
E90068	PVC	1/2" O.D. Tube*
E90069	Polypropylene	1/2" O.D. Tube*
E90198	Polypropylene	3/8" O.D. Tube*
E90199	PVC	3/8" O.D. Tube*
E90340	PVC	1/2" NPT

Operation

The valve is pre-set to open at approximately 30 PSIG and no further adjustment should be necessary. Maximum operating pressure is 150 PSI.

Installation

Locate the valve close to the pump head or at the highest point in the tubing run. The valve can be mounted in any position. Be sure to follow flow direction indicated on the nameplate. Connect a short length of tubing from the pump discharge to the valve inlet. Connect the valve outlet to tubing running to the injection point.

