

SENTINEL™

DEGASSING VALVES



Automatically Vent Gasses and Vapors in Pumping Systems.

- ✓ Unvented gasses can alter pump flowrate or cause the pump to vapor lock.
- ✓ Hazardous vapors can escape, endangering personnel and damaging equipment.
- ✓ Excess gas or vapors can result in inaccurate instrument readings.
- ✓ Unvented gas in the pump and discharge line can make pump priming difficult.

SENTINEL™ Degassing Valves automatically expel excess gasses and vapors to keep pumping systems running safely and efficiently.

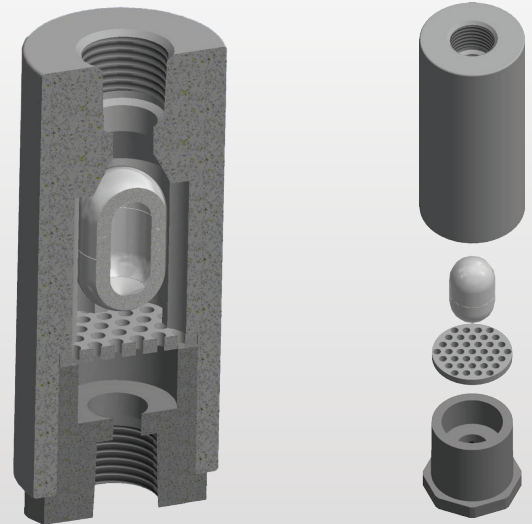
Certain chemicals commonly used in metering and dosing applications are prone to outgassing. Other chemicals produce hazardous vapors that can escape the system at pump startup. A metering pump that has been off for a period of time can lose its prime and won't pump fluid due to gas in the pump and discharge line. In all of these situations, gasses and vapors in a pumping system must be properly vented.

BLACOH™
INDUSTRIES

How it Works.

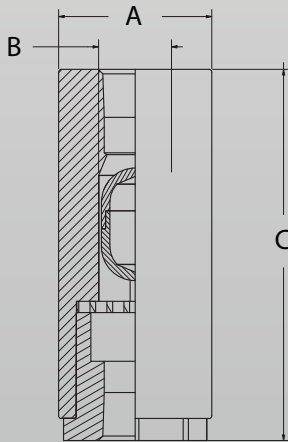
Degassing valves are typically installed on a T-connection at the highest point in the piping system with the discharge port piped back to the supply tank or other safe location. In applications using chemicals that typically outgas, degassing valves can be installed on both the inlet and discharge side of the pump for maximum venting.

When the system is operational, process fluid fills the valve chamber which raises an internal float to seal the discharge port (closed valve). As the fluid outgasses and excess gas accumulates in the chamber, the float drops to open the valve. Fluid pressure then pushes the gas out through the open discharge port and back to the supply tank. Once accumulated gas is vented, the float rises again to close the valve. This process repeats automatically to safely and efficiently vent excess gas or vapor from the system.



Valve Dimensions

A	B	C
Ø1.70" (Ø43.2mm)	0.81" (20.5mm)	4.12" (104.6mm)



Features

- All components used, including the internal float, are constructed of a single material for maximum chemical and thermal compatibility.
- PVC, CPVC and PVDF models with 1/2" NPT, BSP, socket weld, and union connection options.
- Unique internal mesh secures the float in place and filters out larger particles.
- Maximum 150 psi (10.3 bar) pressure rating.

SENTINEL™

Diaphragm Seals & Gauge Guards
Back Pressure & Pressure Relief Valves
Hybrid Combination Dampener & Back Pressure Valve
Calibration Columns
Injection Quills
Degassing Valves