

Pulsafeeder Technical Bulletin

Topic – Degassing Heads and 5 Function Degas Valves

Dosing of gassing chemicals can be a source of frustration. Two of the most common chemicals that are known for off-gassing are Sodium Hypochlorite (chlorine) and Hydrogen Peroxide. As gasses escape the fluid, they create pockets of gas that can cause a pump to lose prime. A degassing head or valve provides a way for gasses that have escaped to be purged automatically, eliminating the need to manually re-prime the pump.

Pulsafeeder offers two solutions to the challenge of dosing outgassing chemicals in diaphragm pumps. The degas pump head and the 5 function degas valve.

It is important to note that degas devices should only be used in a suction lift application. The degas device needs to vent to atmosphere for the gasses to escape. Flooded suction will flood the degas device thus not allowing the gasses to effectively escape. For proper set-up and installation, please reference the manual supplied with the product.

Option 1: Degassing head: Preferred method

The degassing head has a suction, discharge and degassing or “shuttle” valve (return).

A standard pump will have only a suction and discharge valve with the discharge valve located at the top of the pump head. A degas head will have the shuttle valve (degas vent) on the top and the discharge valve on the side.

Degas heads are available on select Chem-Tech Prime Performance pumps and Pulsatron pumps up to a #4 head size (1.88 gph). The A+ series LBS4 (2.42 gph) pump also has the optional degas head available. Degas heads are only available in PVC and pumps with pressures up to 150psi. The degassing pump head can be ordered as an option when ordering a pump by selecting the appropriate connection code in the wet-end part of a model string. Example: LB04SA-VVC9-XXX. The 9 is the connection code for Pulsatron pumps. An existing pump can be converted by ordering a KOPkit in the degas configuration. Example: Pulsatron LB04SA-PTC1-XXX can be converted by ordering KOPkit # K4VVC9.

Example: Chem-Tech X030-XA-AAAAXX can be converted by ordering KOPkit # KX100-BBA9.

Option 2: 5 Function Degas Valve: Alternate method

The 5 Function degas valve is available for all diaphragm pumps with the exception of the #8 head size, Example: LPH8SA-WTCB-XXX and industrial mechanical pumps like the Black Line series.

The 5 Function Degas Valve replaces the standard bleed valve on the discharge valve in a standard head configuration.

