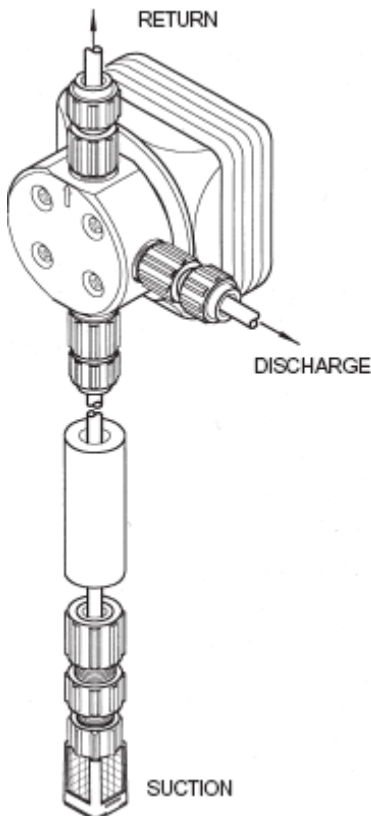


PULSAtron Degassing Head Assembly



The **Degassing Head Assembly** is now a standard option available on the majority of PULSAtron pump ranges. It is an effective solution to the problems often encountered with the dosage of oxidising chemicals such as sodium hypochlorite and chlorine dioxide.

The dosage of such chemicals can be difficult to achieve successfully due to problems associated with “gassing”.

Gassing arises when oxygen is liberated from the oxidising chemical. The oxygen usually collects in the wet end area of the dosage pump causing air locks, loss of prime and subsequently failure to dose the chemicals.

As the purpose of oxidising chemicals is very often to combat bacteriological contamination in potable and/or process waters such as cooling towers, the lack of such dosage can lead to serious consequences and – in extreme cases – contravention of legal requirements.

Certain precautions should always be taken to minimise gassing by protecting oxidising chemicals from sunlight as ultra violet light can cause degradation of the chemical and gassing in the pump head and lines. **Always use black suction and delivery tubing.**

Also consider the use of a **black dosing tank** as an option to the opaque carboy the chemical may be supplied in. The product should not be mixed with other chemicals.

Even with a black dosing tank and lines, gassing can still occur, especially in a hot environment such as a boiler house.

Method of Operation

The **Degassing Head Assembly** is designed to overcome problems caused by gassing.

The unique **Degas Valve System** is designed to allow air to be vented from the pump head whilst minimising the return fluid volume.

Instead of the discharge valve being at 180° to the suction valve, as is normal with most dosage pump configurations, the **Degassing Head Assembly** discharge valve is at 90° to the suction valve and there is an additional valve at 180° to the suction valve which returns a small proportion of the dosage output to the chemical storage. This return proportion will normally contain all the liberated oxygen which causes the gassing.

This allows the pump to be totally self-priming which eliminates the need for a bleed valve. The **Degassing Head Assembly** also prevents the pump from losing its prime due to gas build up, especially in applications where the pump is run intermittently with extended idle periods.

It is good practice to oversize the pump as the degas head will bleed some chemical back to the dosage tank during operation.

Also, if gassing is likely, a small output aggravates the problem. It is better, therefore, to use a larger stroke length with a reduced stroke rate.

Specification

Materials of Construction

Pump head and fittings: PVC
Valve seats & O rings: Viton
Check balls: ceramic

Connections

Discharge: 3/8" OD tubing
Suction: 5/16" OD tubing

Ordering

Simply specify position N°10 (connections) to "9" (e.g., LPB4SA-VVC9-XXX).

Compatibility

The degassing head will be available on all PULSAtron pumps with volumes < 7.0 litres/hour and pressures < 10 bar.

This feature is only available with the wet-end codes VVC9 and VHC9.

Conversion Kits

Degassing Head Conversion Kits are also available for existing pumps.

These kits include all the components necessary to facilitate a a rapid and straightforward conversion

Each kit contains:

- 1 x Degassing Head Assembly,
- 1 x foot valve/strainer
- 1 x strainer weight
- 1.2 metre length of suction tubing
- 1.2 metre length of return tubing

Please refer to the chart below to determine the correct part number for the conversion kit for your specific model.

Part N°	Materials	Pump Model Usage
L9906901-000	PVC/VTN/C	LB02, LC02, LD02, LF02, LS02, LE02, LPA2, LMA2, LW02, LL02, LQ02, LTA2
L9907001-000	PVC/VTN/C	LB03, LC03, LD03, LE03, LE13, LEK3, LPA3, LPB3, LPK3, LMA3, LMB3, LMK3
L9907101-000	PVC/VTN/C	LB04, LB64, LC04, LC54, LD04, LD54, LE14, LE34, LEG4, LE44, LPB4, LPD4, LPG4, LMG4, LMB4, LMD4
L9906902-000	PVC/HYP/C	LB02, LC02, LD02, LF02, LS02, LE02, LPA2, LMA2, LW02, LL02, LQ02, LTA2
L9907002-000	PVC/HYP/C	LB03, LC03, LD03, LE03, LE13, LEK3, LPA3, LPB3, LPK3, LMA3, LMB3, LMK3
L9907102-000	PVC/HYP/C	LB04, LB64, LC04, LC54, LD04, LD54, LE14, LE34, LEG4, LE44, LPB4, LPD4, LPG4, LMB4, LMD4, LMG4