



AUTOMATIC DEGASSING VALVE

IOM

Prepared By



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Application

Chemicals that “gas off” are particularly difficult for metering pumps as these chemicals can lead to a loss of prime in the pump, meaning that the pump ceases to move the chemical.

It is important to keep the suction pipework of the pump free of gas bubbles so that they are not carried into the pump.

With good layout and piping design this can usually be avoided, however in some cases areas of gas accumulation are unavoidable. In these circumstances, an automatic degassing valve can assist to make the metering pump more reliable.

An automatic degassing valve will NOT work in a suction lift application.

Installation

The automatic degassing valve should be installed in a high point of the suction piping. A flanged or double union isolation valve under will assist to maintain the valve. The chemical side connection is DN 20 SWJ Socket. Pay attention to the orientation of the valve. It is clearly labelled with an up arrow.

It is recommended that the vent side of the valve is piped back to the head space of the storage tank. The vent side connection is 15 BSPF.

Maintenance

There are no user serviceable parts in the automatic degassing valve. Should it become blocked it must be removed and soaked in an appropriate solution to dissolve and dislodge any foreign matter.

Precautions should be taken to ensure that piping is depressurised, flushed and isolated before removing the automatic degassing valve.

PPE appropriate for the chemicals involved should be used.

Limits and Suitability

Materials of construction are uPVC, Polypropylene and ABS. It is the users responsibility to determine if the chemical compatibility is suitable.

The maximum rated pressure is 1000 kPa. Temperature de-ratings per the chart below apply.

Maximum service temperature (°C)	20	25	30	35	40	45	50
Multiplication factor for pressure re-rating	1.00	0.94	0.87	0.78	0.7	0.64	0.58