

The Watermark

The Newsletter From

Automated Water & Effluent Ltd

Winter 2015/16

New Conductivity Cell.

After modifying our PSE-01 insertion Conductivity Cell (as featured in the Autumn 2015 Watermark) due to popular demand we have reverted to a redesign of the original conductivity cell with the shorter insertion length.

The Model PSE-01 Conductivity Cell is a small and compact stainless steel electrolytic conductivity cell, ideal for monitoring solutions with very low conductivities; directly in to tanks, vessels, or large bore pipework.

The Model PSE-01 Conductivity measuring cell has a cell constant of $K=0.1$ allowing measuring ranges with AWE Instruments of $0 - 20\mu\text{S}$ and $0 - 20.0\mu\text{S}$ to be achieved.

The cells can be fitted with optional automatic temperature compensation.

Typical applications include anion, cation and mixed bed demin water monitoring. These demin plants are used to produce high quality demin water as used in the semi conductor and power generation industries.



If you need a data sheet on our

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insertion, stainless steel conductivity cell or any of our other wide range of conductivity cells such as our dip cells, insertion cell or flow through cells as well as our surface or panel mounting conductivity or solution strength conductivity controllers then please contact the sales hotline on **01785 254597** or e-mail sales@awe-ltd.co.uk.

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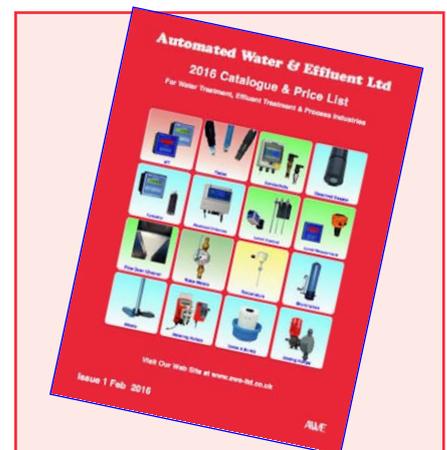
New degassing launched for the AT1, AT2 and AT3 red dosing pumps. The problem when sucking the chemical reagent from the drum up to the dosing pump due to the low vapour as the gas is drawn out of the liquid in the suction tubing causing air (gas) locks in the dosing tubing.

By using the degassing head, liquid is taken from the head at a lower level and the vapour at a higher level being returned to the chemical drum below the liquid level so it can re-dissolved into the chemical. Please note when using any degassing head the pump

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output is reduced to 80% of the pumps rated output due to the liquid being taken off at a lower level in the pump head.



If you haven't already had a copy of our new catalogue, or would like a colleague to receive one, then please call our sales hotline telephone: **01785 254597**. or e-mail sales@awe-ltd.co.uk.

Technical Tips

Suction Lances

Many of our dosing pumps are supplied as simple dosing stations with a bunded area of 110% of the chemical container to stand the chemical drum in. These dosing stations are ready assembled at our Stafford facility for easy site installation. If using our pumps, models HY-BL, ATx-BL, ATx-AM or ATx-MT have a low level float switch input which stops the pump running dry on a low chemical level in the drum.

To complement this feature we are able to supply a suction lance assembly comprising of a rigid riser tube and a tapered rubber plug designed to fit into the top of a chemical container with a 50 mm dia filling port. This provides a seal to help prevent the ingress of dirt into the chemical and stop chemical fumes being released into the atmosphere.



The bottom of the riser tube is fitted with a foot valve to help stop the pump losing its prime while not in use and a

low level float switch to stop the pump when the drum is empty.

THE GRAPEVINE

We are delighted to say our Red Dosing Pumps are proving as popular as ever with many pumps supplied since the launch of the brand in 1995.

As pumping hazardous chemicals under pressure is dangerous, to protect personnel in the event of a chemical leak our red dosing pumps; either electronic or motor driven dosing pumps, are now available in polypropylene housings.

The polypropylene housings help to make the chemical dosing system safer being a double confinement system. The custom made polypropylene housings have a clear PVC viewing window. The dosing line runs inside a second braided reinforced hose so any leak of the primary tubing is contained. The polypropylene housing can be fitted with a sensor to alarm if liquid is detected inside the polypropylene housing.

The photograph shows a system for dosing the same chemical from two dosing tanks. There are 3 duty pumps dosing chemical to tanks with industrial



mixers from the primary chemical container and 3 assist pumps delivering to the same chemical tank, but from the secondary chemical container. This system provides an independent duty and assist dosing system. Each pump is fitted with an isolation valve and its own dosing line and injection fitting so it can be maintained without shutting the whole system down.

For dosing from chemical carboys a

simple stand with a bunded area to hold the chemical drums and an enclosure for the pump with a clear corrosion resistant front is used. The chemical dosing line which is run inside a second pipe of braided PVC to provide mechanical protection with the injection fitting located inside a housing ready for installation at the dosing point.

Remember, you heard it on the AWE grapevine.

Automated Water & Effluent Ltd

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