

The Watermark

The Newsletter From

Automated Water & Effluent Ltd

Spring 2010

“H” BECOMES “K”

NEW DOSING PUMP WITH PVDF HEAD

Offers Greater Chemical Resistance

Many of our regular customers will have noticed our small foot mounting pumps have changed the model code from “H” to “K” series over the last few months. The pump housing and mounting points remain the same. The good news is the “K” series is a direct retrofit replacement for the outgoing “H” series; even the hose connections are identical.

As well as internal improvements resulting in an increase in output, the main advantage is the new “K” series pumps have as moulded PVDF head as standard, providing increased chemical resistance especially useful when dosing concentrated acids or sodium hypochlorite.

“K” series pumps can be supplied with degassing heads for use when dosing chemicals with a low vapour pressure such as sodium hypochlorite or

hydrogen peroxide. Stainless steel heads are available which are ideal for high pressure, dosing of boiler feed water treatment chemicals, where the entire dosing system pipe work can be in stainless steel there is an additional charge for either option.

Note with Stainless Steel head you do not get the foot valve and strainer or injection fitting as its assumed these pumps will be installed on a flooded suction. We can supply stainless steel non-return valves and injection quills

NEW K Series HV

For dosing of viscous product the “K” series pumps have a high viscosity head fitted which has big balls in stainless steel for the inlet and discharge valves. The suction pipework is increased to 16mm ID by 22mm OD

and the delivery hose to 8mm ID by 12mm OD to improve the flow. The “K” series HV pump are for flooded suction installations only and suitable for solutions with a viscosity of up to 8000 CPS. The flow rate may change with viscosity.

We are able to offer the “K” series pumps as KCO series pumps with manual control of both frequency (speed) and stroke length and as KPVM series with manual control of the stroke and automatic control of the frequency via external pacing from either a water meter or pH controller the KPVM has a low level float switch to stop the pump on low chemical level.

Other models are available to order including a full microprocessor based version menu driven, please contact the Sales Office for details.

Any of our dosing pumps can be supplied as a pump tank and mixer set to suit your requirements.

We are Exhibiting Again At the IWEX Exhibition 2010 The National Exhibition Centre Birmingham

We are pleased to announce Automated Water & Effluent Limited will be exhibiting at the IWEX Exhibition at the National Exhibition Centre, Birmingham from Tuesday April 20th through to Thursday April 22nd. If you need tickets please contact Mrs. Vera Young by telephone or e-mail vyoung@awe-ltd.co.uk.

We will be exhibiting items from our range of instrumentation, dosing pumps, high speed and geared mixers.

New on the stand will be the Optical Dissolved Oxygen system with jet cleaner. Mtower cooling water controller come and try the new system for programming the controller by the wheel, just turn to the required menu items and press to select.

See them at the IWEX Exhibition Tuesday April 20th through to Thursday April 22nd.

K Series Red Dosing Pumps



Technical Tips

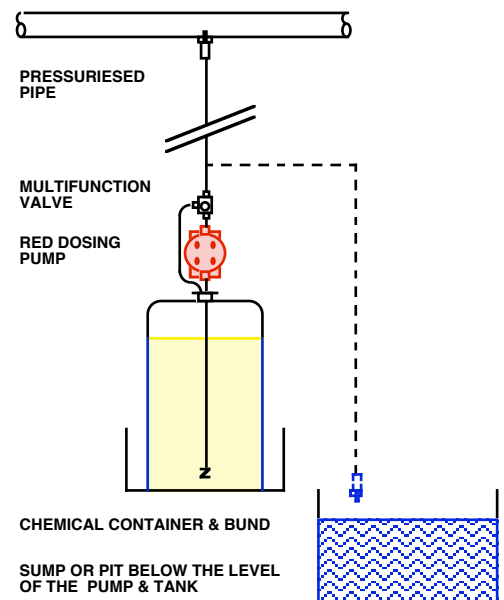
Dosing Up Hill & Down Hill

Our Red Electronic dosing pumps are ideally suited for dosing precise volumes of chemical additions into many varied industrial process. One enquiry we had recently was from a regular Water Treater customer who had taken on a new building services account. Where the site stored the chemical treatment containers in the basement and dosed the cooling tower located on the roof some 40 meters above.

No problem we recommended the dosing hose be double confined and the dosing pump be fitted with a VMF multifunction valve. This clever little device screws on to the outlet valve of the Red Dosing pump with a special connector provided and an outlet hose to go back into the chemical container. The valve is fitted with two dials to set the pressure at which the pressure relief or safety function operates and the loading valve pressure.

The functions of the VMF are as a safety valve to relieve the pressure back to the chemical container in the event of the discharge becoming blocked (or someone fitting an isolating valve which is not recommended). As a loading valve to give the pump some pressure to work against, as an anti syphon valve to prevent siphoning when dosing down hill. As a priming valve to allow the pump to pump back into the chemical container until the head is full and the valves are wetted and as a drain valve to allow the 40 meters of dosing hose to be drained before disconnecting the pump for maintenance. Multifunction valves are available in both polypropylene and PVDF with either viton or EPDM seals. If you require more information on the VMF multifunction valves please e-mail vyoung@awe-ltd.co.uk for additional data. We will be pleased to help you with any dosing enquiries.

Typical Application



VMF Multifunction valve



THE GRAPEVINE

We helped a major chemical company on Teesside to measure and record their wastewater discharge. The wastewater was pumped from the sites treated effluent discharge sump to the local water authorities treatment works about half a mile away.

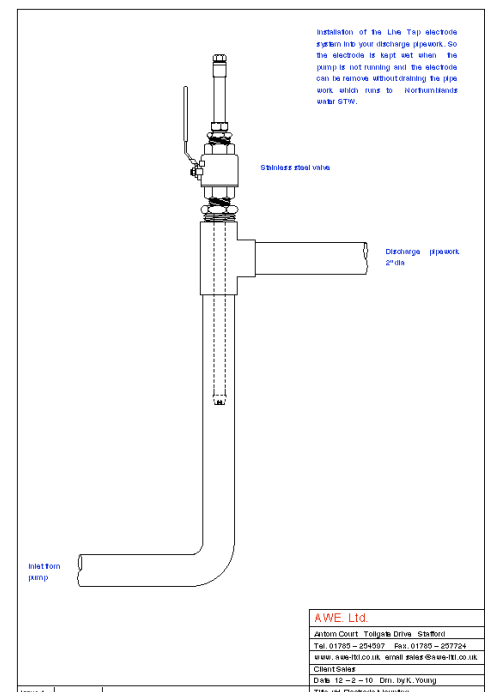
The problem was fitting a pH electrode into the discharge line, which was over half a mile long and always full of wastewater. This makes removing the electrode system from the full line difficult for maintenance and calibration. No problem for Automated Water & Effluent Ltd we supplied our live tap retractable electrode system in 316 stainless steel, for installation into the discharge pipework. The electrode is easy to removable by the maintenance staff or our mobile service engineers during our routine service visits without getting their feet wet or having

to drain down the pipework.

The system measures records and data logs pH flow and temperature and take composite flow proportional samples.

Remember, you heard it on the AWE grapevine.

Live Tap Electrode System



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