

Twinflow KVR

The twinflow K range of metering, mixing and dispensing equipment is available in fixed ratio KFR or variable ratio KVR.

Suitable for processing Epoxies, Polyurethanes, Silicones, Acrylics and other 2 part flowable resin systems safely whilst improving cost efficiency, cleanliness and accuracy.

The KVR is fitted with the "Posiload" positive displacement pumps and precision rod pumps, well proven for more than 35 years. These pumps have a metering accuracy of better than +/- 1% repeatability with a unique micro metered minimum shot size of 0.01cc at a 1:1 ratio. The volumetric ratio range is from 1:1, to in excess of 100:1 depending on pump selection.

In its standard basic form the KVR is an all pneumatic machine with air cylinder drive and unique variable ratio adjustment mechanism, ensuring accuracy of ratio control and easy adjustment if required. With additional options the KVR can be PLC controlled for ultimate control and to interface with external automation.

This compact bench mounted machine has a static mixing head machine mounted or can be hand held with trigger operation or remote robot mounted.

The Twinflow KVR is the ultimate machine for micro shot metering, mixing and dispensing of 2 component resins.



Twinflow KVR

Standard Features

Metering Pumps:

- "Posiload" positive displacement pump size range 7.5-25mm
- Precision Rod Displacement pump size range 2mm-8.0mm
- Shot size range 0.01 to 25cc.
- variable ratio mechanism
- ratio range from 1:1 to 100:1
- depending on pump combination
- Viscosity acceptability 100,000cps.
- Drive –pneumatic 63mm air cylinder

Reservoirs:

- 3 or 5 L 304 Stainless Steel
- Sealed lids and silica gel trap
- direct feed to pump

Mixing head:

- Twinmixer
- Machine mounted

Shot size control:

- Adjustable pneumatic trip
- Shot size from 0.01cc to 25cc dependant on pump selection

Machine control:

- Pneumatic on/off
- Pneumatic regulated speed control

Actuation by foot pedal.

Machine finish:

- Epoxy base painted frame and cabinet.
- Mild steel and plated wetted parts

Standard Options

Metering Pumps Options

- Heating and control
- Quick release mounting
- shaft lubrication
- Anti-abrasive components

Drive Options:

- Electric drive.
- Fixed Ratio mechanism

Reservoir Options:

- Other sizes available
- Heating and control
- Feed from external supply
- Vacuum reservoirs
- Level sensor, audible warning
- Pneumatic stirrer or electric stirrer
- Filter 2mm mesh

Mixing Head Options:

- Rotary/Static mixing head.
- 1/8 Twinmixer
- Material re-circulation
- Shut off and snuff back valves
- Remote mounted
- Tungsten carbide anti-abrasion

Pneumatic options:

- Anti-gel timer
- Shot control/repeater
- Extra function

Machine control:

- P.L.C control for all functions with HMI interface.
- I/O for interface with remote control
- Hydraulic speed control
- Pneumatic anti-gel timer
- Pneumatic shot counter/repeater
- Linear Transducer shot size control.

Liquid Control Limited

Stewarts Road, Finedon Road Industrial Estate
 Wellingborough, Northants NN8 4RJ, England
 Tel.: +44 (0) 1933 277571 - Fax: +44 (0) 1933 440273
www.liquidcontrol.co.uk

Products sold by Liquid Control Ltd are subject to ongoing development and improvement. The right is therefore to alter specifications without notice.