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HILGER&KERN GROUP

LiquidFlow

LiquidFlow 40

Mid-range gear pump
technology for medium
flow applications



The LiquidFlow 40 metering and mixing machine is a floor mounted system with larger tanks for potting and encapsulation applications with continuous material flow. The mid-range gear pump technology is very suitable for medium flow rate and shot size applications. The machine provides a beneficial “easy to handle” operation, which is in a class of its own in the middle to upper world of metering, mixing and

dispensing systems. Its proven gear pump technology provides precise and consistently reliable dosing. The LiquidFlow 40 can process low to medium viscosity two-component materials:

- Polyurethane
- Epoxy
- Silicone

TECHNICAL DATA

Ratio range capability	1:1 to 100:1 (depending upon model and pumps selected)
Viscosity acceptance	Typically up to 15,000 mPas (Or higher when fitted with optional heating system) Up to 500,000 mPas (Depending upon material thixotropy)
Shot size	Available from approx. 1 ml upwards
Flow rate	Up to approx. 2.1 lt/min (Depending upon viscosity and size of pumps)
Mixing	Disposable Static or Rotary/Static
Reservoir capacity	18 lt (4.74 gal)
Electric supply	230 V / 50 Hz or 110 V / 60 Hz AC
Compressed air	80 p.s.i.

TYPICAL APPLICATIONS

- Electronic potting
- Casting
- Moulding
- Component bonding and sealing
- LED lighting

YOUR BENEFITS

- Compact and portable floor mounted framework
- Can be used for a variety of different applications
- Continuous flow
- Pulsation-free dispensing
- Variable mixing ratio
- Quiet operation
- Accurate flow-rate control

STANDARD FEATURES

- Metering Pumps: Electric inverter driven gear pumps
- "Metered" or "Operator Controlled" shot size selection
- Service indicator LED
 - Controls:
 - Integrated PLC control with HMI touchscreen and variable ratio adjustment
 - Adjustable flow rate
 - Anti-gel automatic purge timer
 - Either foot pedal, hand held trigger or remote start options available

OPTIONS

- Reservoir sizes up to 30 lt possible
- Digitally controlled heating to reservoirs, pumps and hoses
- Electric agitation to material reservoirs
- Electronic low-level sensing to material reservoirs with visual and audible alarms
- Stainless steel wetted parts to protect against corrosion
- Hardened parts to protect against abrasion
- Ultra-high precision gear metering pumps for low viscosity or small shot applications
- Nitrogen purge facility to material reservoirs
- Vacuum degassing to material reservoirs
- Bulk feed transfer pump/accumulator facility directly from suppliers containers
- Air nucleation system for foam applications
- Rotary/Static disposable mixing option (electrically driven)
- Automatic material recirculation system to help keep fillers in suspension
- "Recipe Function" to allow up to 50 pre-set shot sizes, flow rates, and ratios

CONTACT US:

meter-mix.com/contacts