



## CHEMICAL METERING PUMPS

# The IDEAL Metering Pumps for Today's Foam Manufacturers

MHR Incorporated has introduced three new chemical metering pumps for use in the polyurethane foam manufacturing industry. These chemical pumps are suitable for use on all types of polyol blends and all types of isocyanates.

No more converted hydraulic pumps. Only top-notch chemical pumps that are designed for a specific use – polyurethane foam.

MHR pumps are widely used for chemical metering on foam machines. They have been applied with the isocyanates, TDI, MDI, and TDI/MDI mixes, as well as with polyether and polyester resins and methylene chloride.

In order to better meet today's environmental standards and improve productivity, MHR has significantly improved our range of high pressure chemical metering pumps. These improvements overcome the process problems associated with the environmentally-friendly blowing agents that are increasingly being introduced.

For example, the environmental hazards associated with vaporized isocyanate has resulted in the development of a special double shaft seal arrangement to provide an effective, reliable and serviceable seal.

The new MHR pumps, MH04, MH07 and MH20, were specifically designed for the future when CFC's are banned and other blowing agents will be used.

Although the main internal components remain the same, the bodies have been redesigned to make them more useful for the foam industry. These changes will handle the elevated pressure and limited temperatures that the new blowing agents must demand.

The MH04 pump can be adjusted accurately from 0 to 6.0 cm<sup>3</sup>/rev, the MH07 from 0 to 11.5 cm<sup>3</sup>/rev, and the MH20 from 0 to 33 cm<sup>3</sup>/rev. The handwheel control incorporates a dial indicator which shows the pump's setting at a glance.



For additional information on these products or any other product contact:

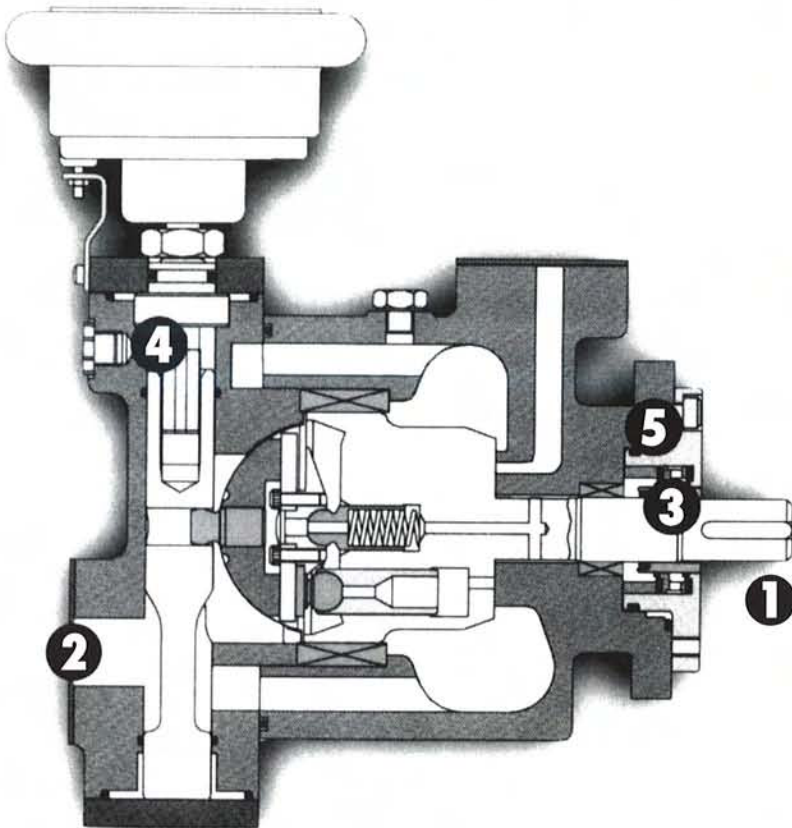
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## Featured Highlights



- 1** MHR rigid alignment system integrates pump and motor together as one single unit. Alignment problems are eliminated using either MHR standard Bell housing system or MHR magnetic drive coupler system.
- 2** Relocation of the inlet port to ensure fresh, cool fluid passes over all the internal components being discharged and to maintain a low temperature throughout the pump.
- 3** A 20 bar/290 PSI shaft seal, so that the pump can function with a much higher internal pressure. To achieve this, twin Teflon seals are used running on a new ceramic bush.
- 4** Pressure balanced control arrangements have been installed to ensure a high metering accuracy, irrespective of the internal pressure.
- 5** Leakage indicator systems and twin shaft seals are included as standard to provide maximum operator protection. The complete arrangement is now produced in cartridge form for easy servicing.

### Affordable Cost.

Besides reliability and efficiency, the cost of these metering pumps is far less than other competitors. Price, long life expectancy and ease of servicing, all make these new pumps the ideal choice for polyurethane foam manufacturers.

A full technical advice and after-sales service is available, as standard from MHR Incorporated.

### After-sales Service & Technical Advice.



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