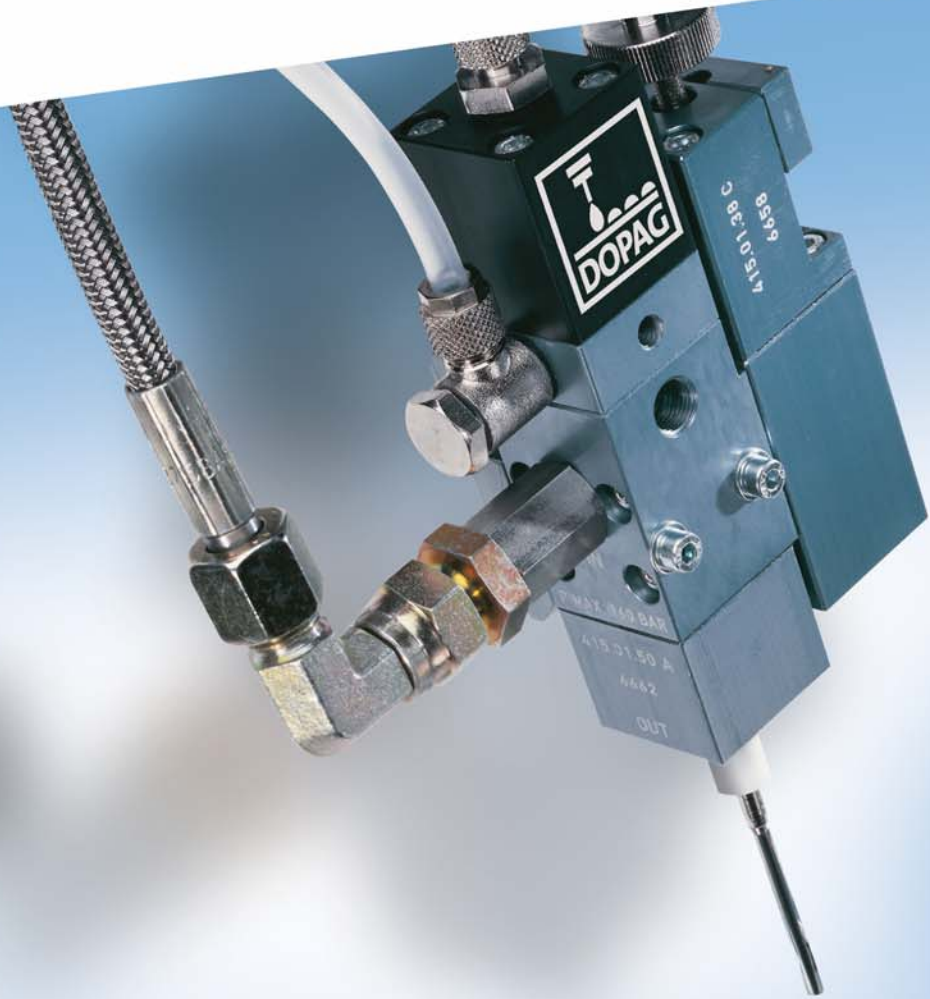


Metering Technology



DOPAG
Single component metering systems



Hilger u. Kern / Dopag Group

Feeding and metering single component media with maximum precision

The Hilger u. Kern / Dopag Group designs and manufactures single and multi component systems for feeding, metering and mixing media from low to high viscosity throughout the world.

From standard designs to individually tailored solutions. For more than 30 years we have been implementing innovative technical designs in a cost effective way.

Single component metering systems from the Hilger u. Kern / Dopag Group are

- User friendly
- Economical
- High quality
- Modular system design
- Balanced price/performance ratio

Single component metering systems can accomplish these applications

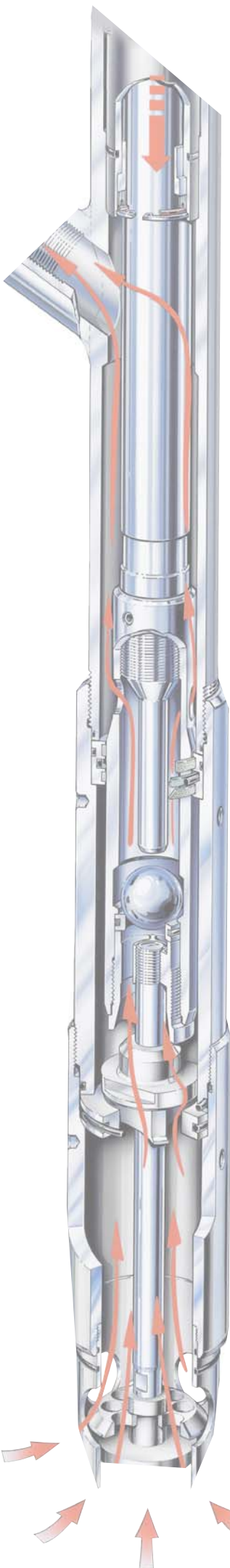
- Bead laying
- Applying drops
- Filling
- Spraying
- Laminating

Single component metering systems can process

- Sealants
- Silicones
- Colourants
- Greases
- Oils
- Pastes
- Adhesives

The strength of the DOPAG single component metering systems

- Short down time
- Components integrate perfectly with each other



Pump P80



Pump P30



Pump P10



Drum pumps

for example, the P200 drum pump for feeding high viscosity media direct from original drums.

- Robust, pneumatically driven, double acting, reciprocating (chop check) pump
- Generates an operating pressure of up to 300 bar
- 2-hand safety control
- Level monitoring with automatic cut-out if the drum is empty
- Hard-chromed piston
- Wetted parts made from stainless steel

Material pressure regulator

ensures constant material pressure at the application point.

- Reduces high pump pressure
- For low to high viscosity media
- Compensates for pressure fluctuations reliably
- No wear, even with abrasive media
- Progressively adjustable pressure range
- Two versions available (with membrane or pressure spring)



Metering computer

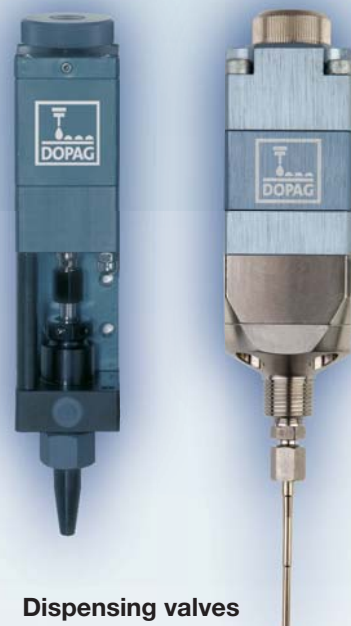
solves difficult metering tasks.

- ensures maximum metering accuracy
- detects and monitors the material quantity
- menu-guided by LCD display
- production program storage
- interface with higher-ranking system control

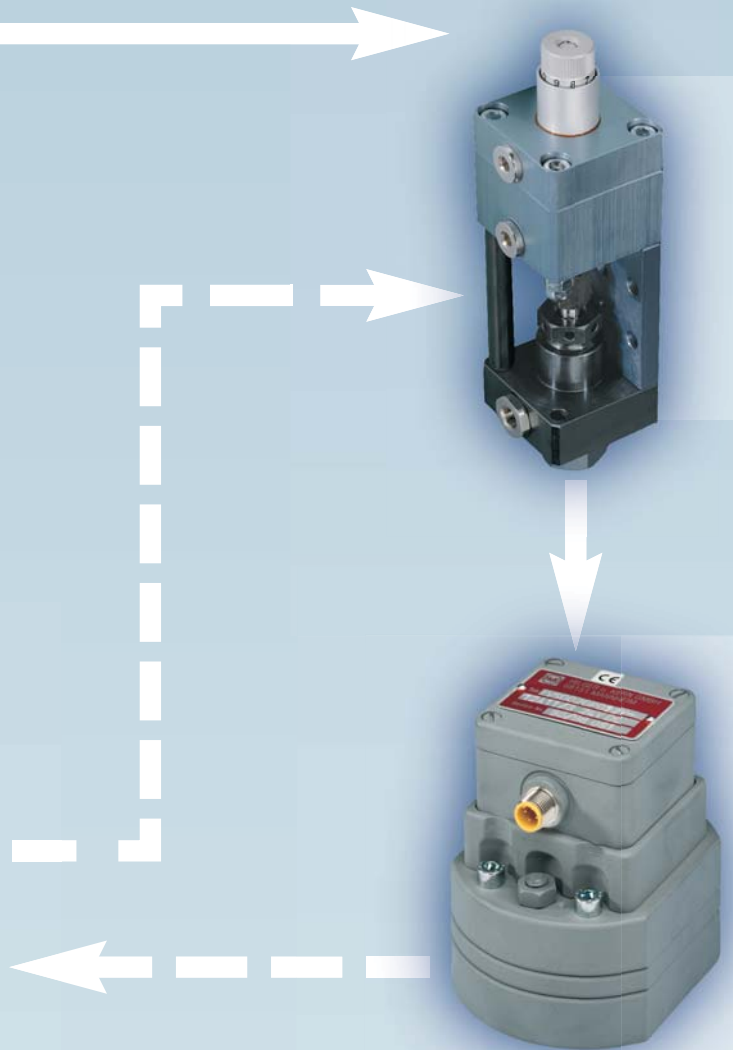
Metering and dispensing valves

for applying the media.

- viscosity range from 100 to 1,000,000 mPa s
- pressure resistant up to 150 or 250 bar
- extremely accurate repeatability
- progressively adjustable
- divorced design
- electric or pneumatic control
- metering valves from 1 mm³ to 180 mm³ per shot



Dispensing valves



Flow regulator valve

to achieve close metering tolerances.

- reduces the flow rate of material at the end of the metering cycle
- protects from overdosing

Electronic volume counter

measures the volume of material passing through.

- working pressure up to 250 bar
- recognises the direction of flow of the media
- suitable for abrasive media
- highly accurate



Metering valves

Dispensing valve



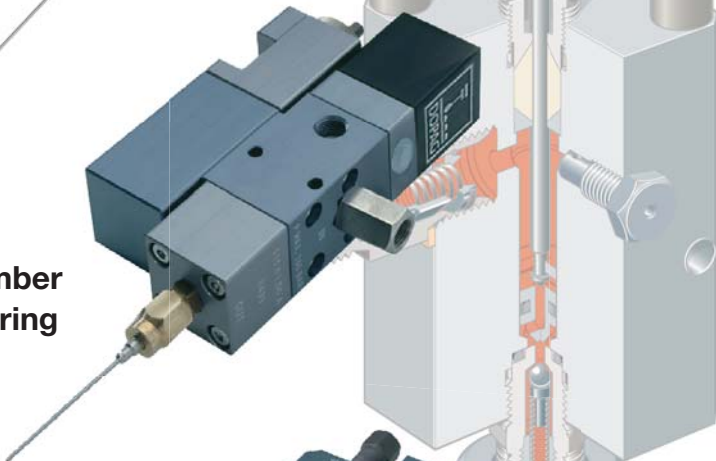
Membrane dispensing valve



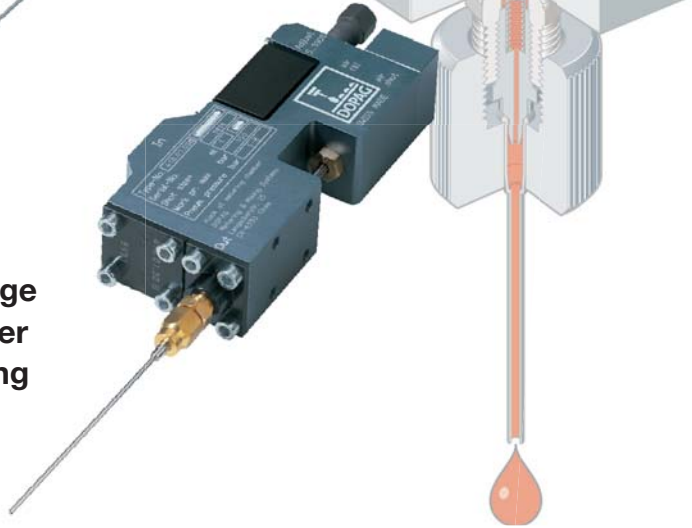
Needle metering valve



Chamber metering valve



Cartridge chamber metering valve



Surrounding your application: Perfect design, advice and service – and sometimes even a little bit more.

Controlling the precise metering and supply of liquid media of every consistency are essential pre-conditions to finding the best solutions. But sometimes something special is required and for these cases we operate with special adapters.

Each adaptor is unique and as individual and unmistakable as a fingerprint.

We can apply all types of media, whether by contact, spray or impulse application.

Special adapters from the Hilger u. Kern / Dopag Group are able to solve the most difficult application problems.

Special adapters and elements



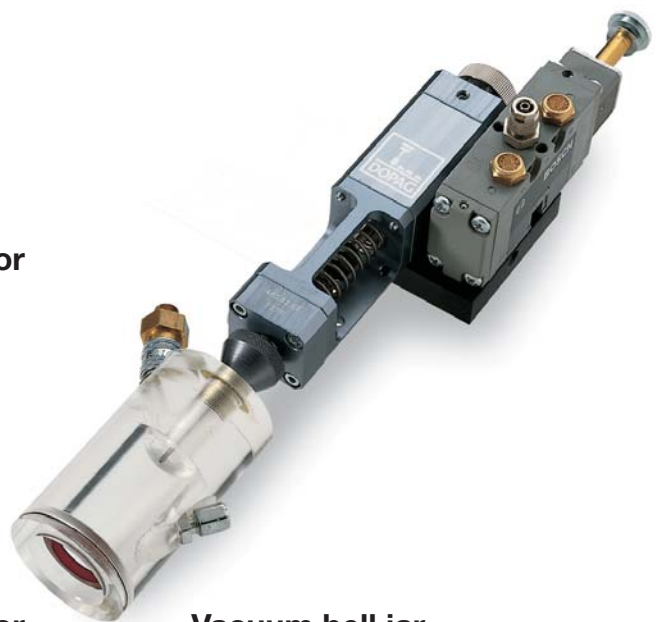
Spray applicator



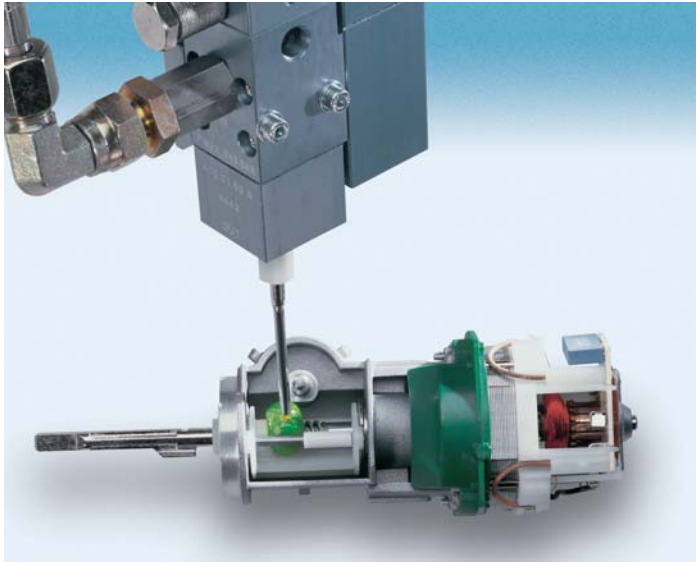
Contact applicator



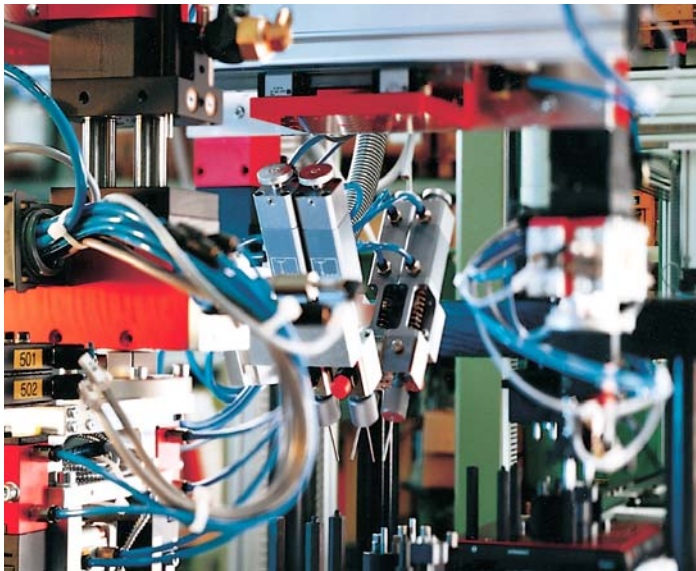
Contact applicator



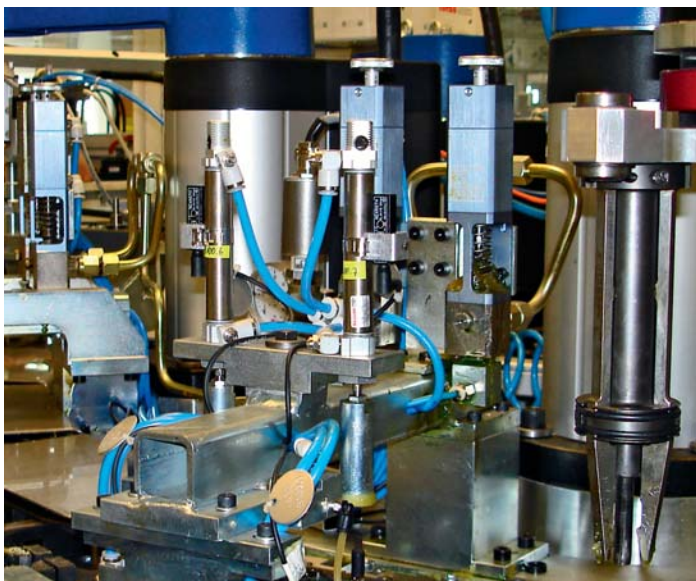
Vacuum bell jar



Lifetime lubrication for the drive motor of a vacuum cleaner. The Hilger u. Kern / Dopag Group supplied the know-how and the technique.



An automatic assembly line for car seats. The Hilger u. Kern / Dopag Group supplied the complete grease metering system.



Rotating table to grease piston rods with needle metering valves from the Hilger u. Kern / Dopag Group.

For all tasks and every medium

Hilger u. Kern / Dopag Group



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The Hilger u. Kern / Dopag Group, with more than 300 employees, 8 subsidiaries and 24 distributors, is one of the leading manufacturers of metering and mixing systems in the world for plural component polymers and single component media such as greases, oils and pastes. For more than 30 years the group has developed systems and components to suit your individual needs.