

Metering Technology



economix



Hilger u. Kern / Dopag Group

economix

for low to medium viscosity media

The economix is a solvent free piston pump type metering and mixing system, used to handle low to medium viscosity multi component media such as epoxy resins, polyurethanes or silicones with a volumetric mixing ratio of between 100:100 and 100:16.

They can be unfilled, filled as well as slightly abrasive.

Typical Applications

- Coating
- Gluing
- Rapid Prototyping
- Encapsulating

Features and benefits

- Compact design
- Economic solution
- Variable mixing ratio
- Variable output rate
- Continuous flow rate
- Particularly suitable when small quantities are required
- Solvent free



Equipment

Standard

- Portable chassis
- Pressure vessels
- Double acting piston pumps
- Air motor with lever system
- Static mixing system
 - 2K valve
 - Disposable static mixer
- Pneumatic-mechanical control

Optional

- Static-dynamic mixing systems
- Mixing block with static steel mixer
- Pressure vessels in variable sizes with
 - level control
 - agitator
- Heating
- Flushing
- Pot life control
- Material filter
- Material pressure regulator
- Start/Stop signal with foot switch
- Manual handle and trigger start/stop fixed to 2K valve

Function

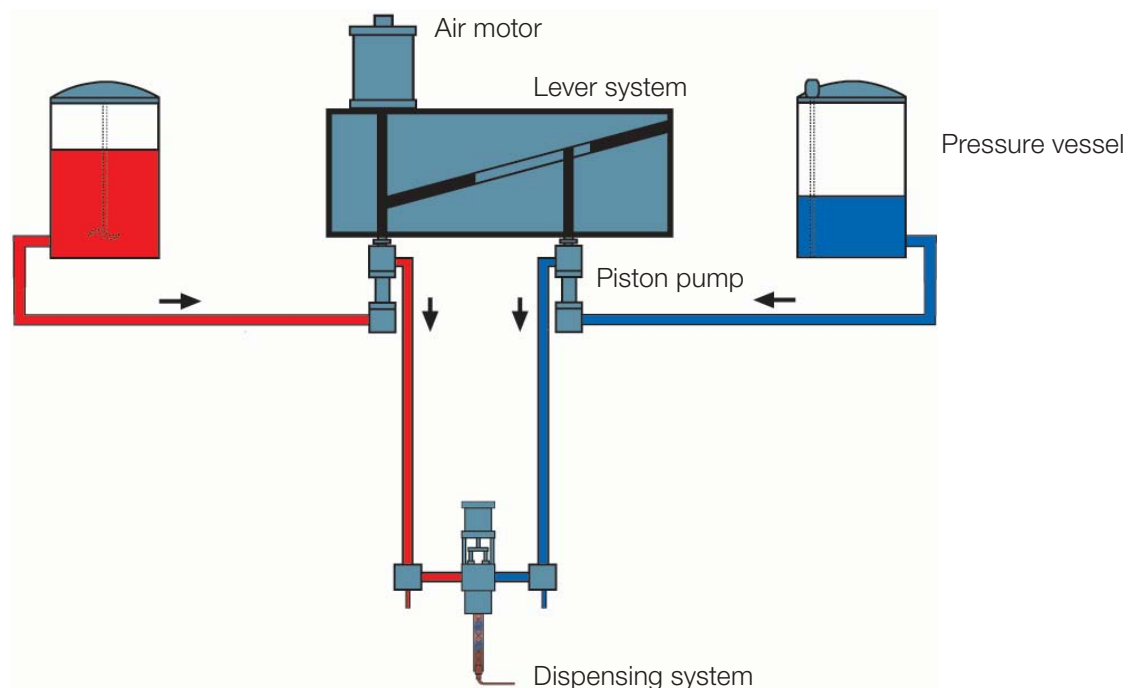
Pressure vessels mounted onto a portable chassis, are used to supply the material into the piston type metering pumps. The pumps are driven by a single air motor. A lever system connects pumps and drive.

The pump for the A component is fixed to the lever system and shares the same stroke length as the drive motor, whereas the pump for the B component is movable along the lever system and thus has a variable stroke length which is used for the fine adjustment of the mixing ratio.

The economix is fitted with a static mixing system that includes a 2K valve combined with a disposable static mixer.

The valve contains an infinitely adjustable “snuffer” effect to avoid dripping after metering has finished.

Should mixed material be allowed to cure in the mixer, it can be replaced simply and inexpensively, thus avoiding a time consuming, expensive and environmentally damaging flushing cycle.



Technical data

Flow rate	up to 4 l/min, depending on mixing ratio and viscosity
Mixing ratio	100:100 to 100:16, by volume
Maximum working pressure	160 bar
Mixing system	Static mixing system - 2K valve - Disposable static mixer
Material supply	Pressure vessels, 6 to 45 l
Viscosity range	100 to 80,000 mPa s
Material characteristics	Unfilled, filled, slightly abrasive
Maximum air inlet pressure	6 bar
Dimensions, L x W x H	600 x 600 x 1,200 mm
Weight	approx. 130 kg

Hilger u. Kern / Dopag Group



The Hilger u. Kern / Dopag Group, with more than 250 employees, 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.

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