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variomix

FOR THE PROCESSING OF LOW
TO HIGH VISCOSITY MATERIALS



Function

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Pressure vessels, mounted onto a portable chassis, are used to supply the material into the piston type metering pumps where they are proportioned at the pre-selected ratio. The pumps are driven by an air motor. The stroke of the air motor is transferred to the pumps via a lever system. The mixing ratio can be infinitely adjusted between its limits by means of the lever system. The system is controlled by a metering computer.

The variomix 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.

Industries

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These modern metering systems can be used in any industry where materials need to be applied in a high precision and repeatable way.

- Automotive
- Electrical and electronic
- Renewable energy
- Aerospace
- White goods
- and many more



variomix



The variomix is a pneumatic driven piston pump type metering and mixing system, used to handle low to high viscosity multi component media such as epoxy resins, polyurethanes or silicones. They can be unfilled, filled as well as abrasive. The

system is available in two categories, A1 or A2 and is used in different types of applications. Therefore, the system is built in different configurations.

Features and benefits

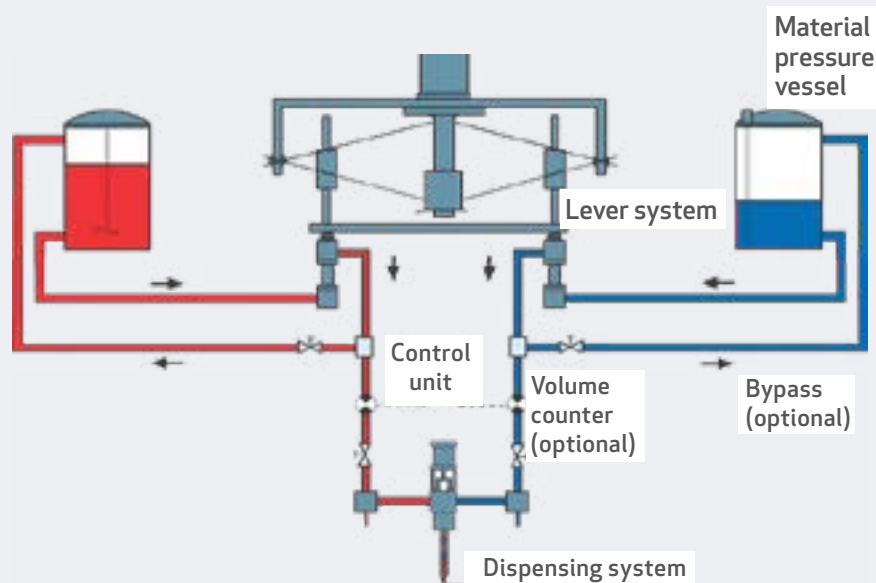


- Simple operation
- Variable mixing ratio
- Variable output rate
- Continuous flow rate
- Solvent free

Application areas



- Coating
- Sealing
- Gluing
- Laminating
- Encapsulating



Flow rate	up to 2 l / min with A1, depending on mixing ratio and viscosity up to 8 l / min with A2, depending on mixing ratio and viscosity
Mixing ratio	100 : 100 to 100 : 10, by volume with A1 100 : 100 to 100 : 6, by volume with A2
Maximum working pressure	200 bar
Mixing system	Static mixing system <ul style="list-style-type: none"> ▪ 2K valve ▪ Disposable static mixer
Material supply	Pressure vessels, 6 to 120 l
Viscosity range	50 to 80,000 mPa s, with pressure vessel up to 1,000,000 mPa s, with drum pumps
Material characteristics	Unfilled, filled, abrasive
Power supply	110-480 VAC 3/PE / 50/60Hz 230 VAC L/N/PE / 50/60Hz
Maximum air inlet pressure	6 bar
Dimensions, L x W x H	from 1,500 x 1,100 x 1,900 mm
Weight	from 400 kg

Equipment



Standard

Pressure vessel

Double acting piston pumps

Air motor with lever system

Static mixing system

- Twin snuffer valve
- Disposable static mixer

Metering computer with realtime Multitasking Operating System (64 programs be stored as standard, including 32 programs via external selection)

7" colour touch screen terminal

Optional

Static-dynamic mixing system

- with mixer element monitoring

Material pressure regulator

Material filter

Mixing ratio control and output rate through volume counters

Adjustable output rate

Start/stop trigger via handle grip or foot switch

Pressure vessel with

- level control
- agitator
- automatic refill
- connection for vacuum pump

Material supply through drum pumps for high viscosity materials

Bypass

Heating



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We are one of the world's most experienced manufacturers of high-quality metering technology. Wherever adhesives, resins, silicones or lubricants are metered and applied in industrial production, we offer reliable, precise solutions. We provide systems and components for highly automated production processes, including for the automotive, wind, household appliances and electrical industries, as well as for aviation.

DOPAG is part of the HILGER & KERN GROUP, a reliable supplier and a development and service partner to industrial companies in a variety of market segments for almost 100 years. The group employs around 350 people and has subsidiaries and distributors in more than 40 countries.



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