

DOPAG Metering and Mixing System for low to high viscosity media VARIO-MIX S



Hilger u. Kern / Dopag Group

VARIO-MIX S

for low to high viscosity media

The VARIO-MIX A is a piston pump type metering and mixing system, used especially to dispense metered shots of 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, S1 or S2 and is used in different types of applications. Therefore, the system is built in different configurations.

Typical Applications

- Gluing
- Encapsulating



Features and benefits

- Variable mixing ratio
- Variable output rate
- Flow rate shot size
- Solvent free

Equipment

Standard

- Pressure vessel
- Twin acting piston pumps
- Air motor with lever system
- Static mixing system
 - Twin snuffer valve
 - Disposable static mixer
- Metering computer or SPS

Optional

- Static-dynamic mixing system
 - with mixer element monitoring
- Dynamic mixing system
- Material pressure regulator
- Material filter
- Mixing ratio control
- Adjustable output rate
- Start/Stop signal with foot switch
- Manual handle and trigger start/stop fixed to twin snuffer valve

- Volume counter
- Heating
- Pressure vessel with
 - level control
 - agitator
 - automatic refill
- Material supply through drum pumps for high viscosity media
- Bypass



System concept DOPAG Metering Technology

Function

Pressure vessels, mounted onto a portable chassis, are used to supply the material into the piston shot pumps where they are proportioned at the pre-selected ratio. The pumps are driven by an air motor.

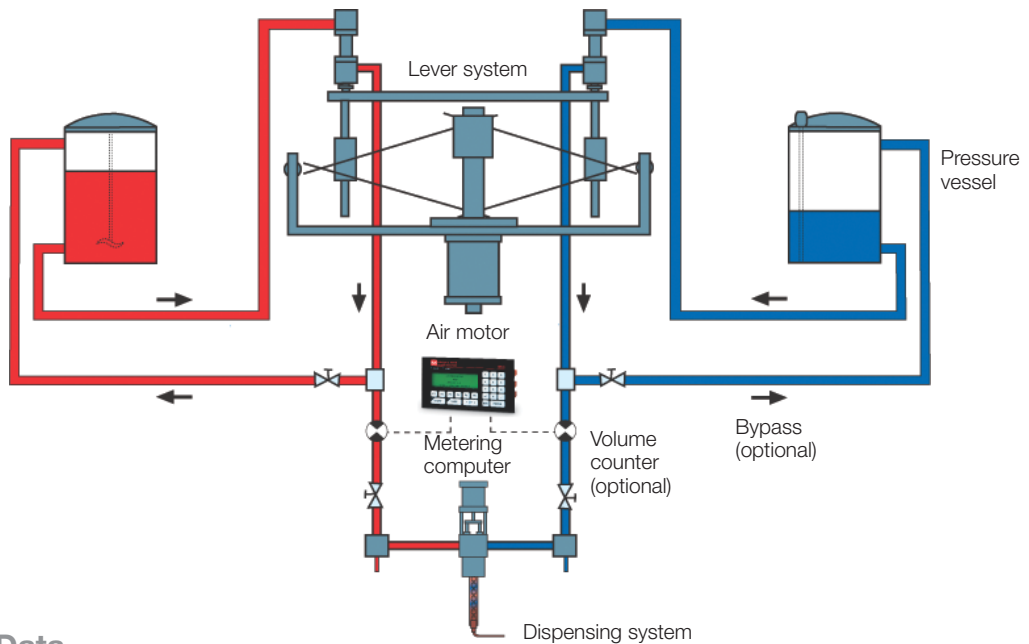
The stroke of the air motor is transferred to the pumps via a lever system. The mixing ratio can be infinitely adjusted between its limits by means of the lever system.

The system is either controlled by a metering computer or PLC. This enables integration into semi or fully automated production processes.

The VARIO-MIX S is fitted with a static mixing system that includes a twin snuffer valve combined with a disposable static mixer.

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

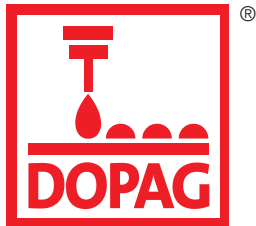
Should mixed material be allowed to cure in the mixer, it can be replaced simply and inexpensively, thus avoiding a time consuming, expensive and environmentally damaging flushing cycle.



Technical Data

Shot size	1 to 90 ml with S1 20 to 200 ml with S2
Mixing ratio	100:100 to 100:10, by volume
Maximum working pressure	300 bar
Mixing system	Static mixing system - Twin snuffer 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	400/230 V / 50 Hz / 16 A
Maximum air inlet pressure	6 bar
Dimensions L x W x H	approx. 1.500 x 1.100 x 1.900 mm, depending on configuration
Weight	approx. 400 kg

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The Hilger u. Kern / Dopag group, with more than 300 employees and 7 subsidiaries, is one of the leading manufacturers of machines for 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 machines, systems and components to suit your individual needs.