



Meter/Mix
Dispense Systems



**Two-component metering system
MICRO-MIX E**

The MICRO-MIX E is a pneumatically operated, variable ratio processing system for a variety of two-component materials i. e. epoxies, polyurethanes, silicones etc.

mixing gun make the MICRO-MIX E a cost effective development of the tried and tested MICRO-MIX series, in particular for small shots applications and difficult to handle materials.

The incorporation of DOPAG standard parts together with controlled material inlet valves and the latest disposable static

The MICRO-MIX E will handle, meter and mix the two-component materials and dispense them in preset shots.

Features

Compact size for ease of installation. No solvent flushing, cleaner and less hazardous than conventional systems. Simplified fullproof operation.

The main system components are:
Requires minimum servicing.

Pressure Vessels

Standard 2 litre material pressure vessels for each component mounted on the machine chassis.

Metering Pumps

The MICRO-MIX E is equipped with the same metering piston pumps as the MICRO-MIX series. The decisive advantage of rod displacement piston pumps is their high degree of wear resistance to abrasive and filled materials when compared to gear pumps.

The pistons are hard chromed and sealed with fibre-glass reinforced TEFLON V-Packings.

Depending on the material ratio different pump combinations are available, this gives a metering ratio range from 1:1 to 25:1.

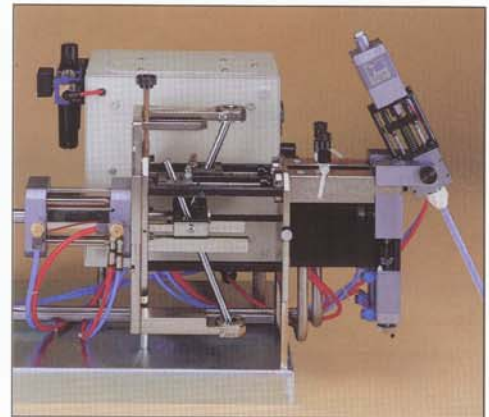
Lever System

A novel system of levers will alter the stroke length of the pistons reciprocally. As a result the metering ratio will remain accurate when altering shot size.

The design feature allows a wide range of ratio adjustment.

Lever System ►

The shot adjustment of the mixed material is via a mechanical stroke limit.



Snuff Back Valve

The snuff back valve has a dual function. It is the mixer block where the two materials are separately channelled to the disposable plastic mixer tube, thereby only mixing the materials at the outlet.

In addition it is the dispensing valve with adjustable snuff back action to prevent drips, run-on and stringing between shots.

The angle of the valve is adjustable, from vertical through 75 degrees, to suit production requirements.

The valve stems are sealed using the latest stepseal packings.

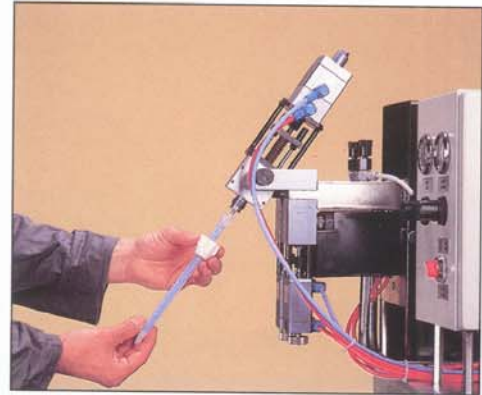
Cleaning

No solvent will be required, simply leave the inexpensive disposable plastic mixer to cure and replace it on restarting.

Alternatively cleaning can be achieved with one component when using suitable materials.

Potting of electro components ▶

Mixing tube change ▶▶



Technical Data

Cycle rate	Up to 30 shots/minute depending on shot size, viscosity etc.
Ratio range	1:1 to 25:1 i. e. 0.8:1 to 2:1 or 10:1 bis 25:1 infinitely variable within the range of the pump combination.
Shot size	0.5 to 10 ml, depending pump combination.
Viscosity range	Up to 500.000 mPa s.
Reservoir capacity	2 litre standard, other sizes on request.
Compressed air-supply	5 to 8 bar.
Dimensions	Length: 750 mm, Width: 400 mm, Height: 500 mm.
Weight	Approx. 60 kg.