

Potting of dialysis filters



The manufacture of medical devices always requires a particular level of care and accuracy. The production process for dialysis filters is no different. The filters contain a membrane with thousands of hollow fibers, which must be effectively secured in place to allow blood flow in and out of the membrane. DOPAG has developed a special metering and mixing system for this task: high precision and

reliability make the evomix DF system a perfect solution for potting of components with two-part polyurethane. The system is characterised by an interruption-free, continuous supply of material and can be integrated into a fully automated production line. The mixing head of the evomix DF is certified for use in cleanrooms.

Material discharge	100 ml - 900 ml / min, depending on mixing ratio and viscosity
Mixing ratio	100 : 20 - 100:80, volumetric
Working pressure	100 bar max.
Mixing system	Static-dynamic <ul style="list-style-type: none">▪ 2K valve▪ Plastic mixer tube
Material supply	90 and 120 l material pressure vessels
Viscosity range	50 - 80.000 mPas, with material pressure vessels
Material properties	Unfilled, filled, abrasive
Operating voltage	400/ VAC 3/N/PE / 50/60 Hz
Compressed air supply	6 bar max.
Dimensions, W x H x D	from 1.250 x 2.050 x 2.600 mm
Weight	from 1.500 kg

Equipment

evomix DF

Standard

Welded frame

120 l stainless steel material pressure vessels

Material pressure vessels with:

- Level control
- Automatic refilling
- Automatic degassing

Gear metering pumps with with overpressure protection

Pump drive mechanism: Three-phase asynchronous motors

Control or regulation of mixing ratio and discharge rate with flowmeters

Static-dynamic mixing system

- 2K valve with separate material supply
- static mixer tube, plastic

Automatic cycle

Metering computer with realtime multitasking operating system (64 metering programmes storage capacity)

7" colour touch screen terminal

Optional

Refilling pumps

90 l stainless steel material pressure vessels

Material pressure vessels with:

- Agitation
- Thin film degassing
- Nitrogen flushing

Membrane pump on pressure vessel outlet

Pump drive mechanism: Servomotors

Additional wear protection on gear pumps

Gear pump with magnetic coupling

Mixer element fault monitoring

Heating

Temperature measurement directly in material flow

Stainless steel wetted parts

9" colour touch screen terminal

Profibus/Profinet interface

Twin model with two metering and mixing systems

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