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.

### Technical Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material discharge</td>
<td>100 ml - 900 ml/min, depending on mixing ratio and viscosity</td>
</tr>
<tr>
<td>Mixing ratio</td>
<td>100 : 20 - 100:80, volumetric</td>
</tr>
<tr>
<td>Working pressure</td>
<td>100 bar max.</td>
</tr>
<tr>
<td>Mixing system</td>
<td>Static-dynamic</td>
</tr>
<tr>
<td></td>
<td>▪ 2K valve</td>
</tr>
<tr>
<td></td>
<td>▪ Plastic mixer tube</td>
</tr>
<tr>
<td>Material supply</td>
<td>90 and 120 l material pressure vessels</td>
</tr>
<tr>
<td>Viscosity range</td>
<td>50 - 80.000 mPas, with material pressure vessels</td>
</tr>
<tr>
<td>Material properties</td>
<td>Unfilled, filled, abrasive</td>
</tr>
<tr>
<td>Operating voltage</td>
<td>400 VAC 3/N/PE / 50/60 Hz</td>
</tr>
<tr>
<td>Compressed air supply</td>
<td>6 bar max.</td>
</tr>
<tr>
<td>Dimensions, W x H x D</td>
<td>from 1.250 x 2.050 x 2.600 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>from 1.500 kg</td>
</tr>
</tbody>
</table>
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 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

Scan code to quickly find your nearest contact partner

[www.dopag.com/contacts](http://www.dopag.com/contacts)