**General**

The MONOFLO "DIN-Master" fully conforms to the pump standards DIN 24255 and covers all sizes nominated for most sizes, the hydraulic performance exceeds the requirements of B 1, N, F 2, 2.5 and 5.

All pumps are mounted on standardised bearing assemblies: Modules 25, 35 and 45, giving high parts interchangeability.

The DIN-Master range has been extended to include four models with 200mm & 250mm discharges, catering for flows up to 300 liters/sec. These sizes are mounted on 4th standardised bearing assembly, Module 55.

**Design Features**

- **Volute Casing**: Manufactured in high grade cast iron in standard with integral cast foot and vertical centred discharge for automatic self-venting.
- **Ductile Iron and cast-iron steel castings**: available as an option.

**Impellers**: impellers are of the double volute type for higher head availability balanced by rear balance vanes for impeller eccentricity. Those in sizes above the 300mm, are achieved with double stage impeller vanes.

**Robust Bearing Housing**: incorporated with lifting ring to simplify removal of the casting element during maintenance.

**Soft gaskets** are installed to prevent sealing fault from human reach while in operation.

**Angular Contact Bearing Design**: incorporated "sunny" angular contact bearing design with re-usable bearing, to avoid excessive finger to prevent ingress of dust and moisture. This significantly improves bearing life.

**Replaceable Wear Ring**: wear rings are fitted to the impellers to prevent wear. The rings are made of high grade cast iron, double face wearing ring, an additional wear ring is fitted to the bottom.

**Back Pullout** Feature: Facilitates the entire rotating element to be removed for maintenance, without disturbing pipelines.

**Applications**

- **Building Services**: General water transfer: pressure boosting systems; chiller & condenser water circulations in air conditioning systems; fire fighting applications; landscaping & water feature applications; and wineries.

- **Industrial**: Water circulating & machine cooling; cooling tower cooling; waste water circulation handling; non-aggressive liquid; heat exchanger and other manufacturing processes.

- **Agricultural**: Structural irrigation & sprinkler systems.

**Components**

- **Centrifugal Pump**: Foot mount, Shaft end

**Dimensions**

<table>
<thead>
<tr>
<th>Performance Range</th>
<th>50Hz</th>
<th>2000 rpm</th>
<th>2-pole</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Notes**

- Refer to MONOFLO individual pump performance curves for accurate selections.

**DIN-Master**

**DIN 24255**

**Single Stage Horizontal End Suction Back Pull-out Centrifugal Pump**

**Performance tested to ISO 9906 Class II | Performance tested to ISO 9906 Class II | Performance tested to ISO 9906 Class II | Performance tested to ISO 9906 Class II | Performance tested to ISO 9906 Class II | Test water temperature of 20ºC
Engineering Flow in our Life

Remarks: For more comprehensive pump construction material, and equivalent material specification, refer to MONOFLO Pumps technical data sheets.

Ramie fiber impregnated with PTFE
Carbon/Silicon Carbide, Nitrile o-ring

Shaft seals
Mechanical seal
AS 1830/T260
DIN-Master direct-coupled to
AS 2074/H6B | BS1504Gr316
AS 1565/836 | BS1400LG2
BS 970Gr.316 S16

Back pull-out' Feature
If spacer coupling is installed, pump can be separated from the driver without having to dismantle the driver or pump from the common shaft.

Maximum discharge pressure up to 150 metres 150 metres 150 metres 150 metres 150 metres (15 bar 15 bar 15 bar 15 bar 15 bar or 150kPa 150kPa 150kPa 150kPa 150kPa).

Operating temperature
The ambient temperature shall not exceed 4040404040oooooCCCCC.

Pump | Operating limits & data
--- | ---
Model Designation | Liquid handled, Working pressure, Friction coefficient

Material of construction

<table>
<thead>
<tr>
<th>Type</th>
<th>Standard</th>
<th>Optional</th>
</tr>
</thead>
<tbody>
<tr>
<td>Impeller</td>
<td>Cast iron GG25</td>
<td>Stainless steel 316, Duplex stainless steel</td>
</tr>
<tr>
<td>Shaft</td>
<td>Stainless steel 316</td>
<td>Stainless steel 420, Stainless steel 316</td>
</tr>
<tr>
<td>Shaft seals</td>
<td>Stainless steel 316</td>
<td>Stainless steel 420, Stainless steel 316</td>
</tr>
</tbody>
</table>

Processing speed
Nominal operating speed up to 2 900 r.p.m. 2 900 r.p.m. 2 900 r.p.m. 2 900 r.p.m. 3 600 r.p.m. at 50Hz50Hz50Hz50Hz50Hz, and 3 600 r.p.m. 3 600 r.p.m. 3 600 r.p.m. 3 600 r.p.m. 3 600 r.p.m. at 60Hz60Hz60Hz60Hz60Hz.

Working pressure
Maximum working pressure up to 16 bar 16 bar 16 bar 16 bar 16 bar, with exceptions of some models at 15 bars, Pressure rating up to 16 bar 16 bar 16 bar 16 bar 16 bar.

Working temperature

Liquid handled
Chlorinated slightly aggressive liquid compatible to pump material of construction.

For more comprehensive pump construction material, and equivalent material specification, refer to MONOFLO Pumps technical data sheets.