MR-185S, -200S Liquid-Ring Pump

**Application**
MR is a liquid-ring pump specially designed for pumping liquids containing air or gas. The pump is for use in food, chemical, pharmaceutical and similar industries. The pump can be used for CIP-return.

**Standard design**
All product wetted parts, i.e. pump casing, casing cover and impeller are made of acid-resistant steel AISI 316L. Cap nuts, legs, leg brackets and shroud are made of stainless steel AISI 304. Adaptor is in cast iron which is zinc coated and laquered making it highly corrosion resistant. Seals are made of EPDM rubber. The shroud has noise absorbing lining inside.

**Shaft seal**
Mechanical single seal with stationary seal ring of acid-resistant steel AISI 329 and rotating seal ring of carbon.

**Technical data**
Max. inlet pressure: 400 kPa (4 bar).
Temperature range: -10°C to +140°C (EPDM).

**Motor**
Standard foot-flanged motor acc. to IEC metric standard 4 pol = 1500/1800 rpm. at 50/60 Hz.
IP55 (with drain holes with labyrinth plug), insulation class F.

Voltage and frequency
(3~, 50 Hz, 380-420 V Δ/660-690 V Y)
(3~, 60 Hz, 440-480 V Δ)

**Motor sizes**
50Hz:
- 5.5 kW (MR-185S).
- 7.5 kW (MR-200S).
- 11.0 kW (MR-200S).

60Hz:
- 6.3 kW (MR-185S).
- 8.6 kW (MR-200S).
- 12.5 kW (MR-200S).

**Options**

**Equipment**
- A) Other voltage and frequency.
- B) Flame-proof motors.
- C) Pump without shroud and legs.
- D) Pump without shroud.
- E) Adaptor in stainless steel AISI 304.
- F) Noise reduction valve.

**Material grades**
- G) Product wetted seals of Nitrile (NBR) or Fluorinated rubber (FPM).
- H) Stationary seal ring with sealing surface of Silicon Carbide.
- I) Rotating seal ring of Silicon Carbide.

**Ordering**
Please state the following when ordering:
- Pump type.
- Voltage and frequency.
- Connections.
- Flow rate, pressure and temperature.
- Density and viscosity of product.
- Options.

**Volumetric flow**

![Flow chart](image)
Dimensions (mm)

Fig. 3. Dimensions.

Connections (mm)
Inlet and outlet: 76.1 mm (3").

<table>
<thead>
<tr>
<th>Dim.</th>
<th>ISO clamp</th>
<th>ISO male</th>
<th>DIN male</th>
<th>SMS male</th>
<th>BS male</th>
</tr>
</thead>
<tbody>
<tr>
<td>M′</td>
<td>21</td>
<td>21</td>
<td>22</td>
<td>24</td>
<td>22</td>
</tr>
<tr>
<td>M''</td>
<td>12</td>
<td>21</td>
<td>30</td>
<td>24</td>
<td>22</td>
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For higher capacities please see PD 65146, MR-300. See also PD 60066 for MR-166B.

Note! For further information, see also instruction IM 70733.