## Technical Data Sheet

### M189-2 (L) » Oil and Water service

### Technical Data:

<table>
<thead>
<tr>
<th>Description</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air drive pressure</td>
<td>1-10 bar / 14.5—145 psi</td>
</tr>
<tr>
<td>Calculated Outlet Pressure at an air drive of 10 bar</td>
<td>4,000 bar / 58,000 psi</td>
</tr>
<tr>
<td>Pressure ratio</td>
<td>1:440</td>
</tr>
<tr>
<td>Displacement volume/double stroke</td>
<td>0.6 cm³ / 0.04 cu.inch</td>
</tr>
<tr>
<td>Connections</td>
<td></td>
</tr>
<tr>
<td>Inlet</td>
<td>Standard: Bottom Inlet 1/4 BSP</td>
</tr>
<tr>
<td>Outlet</td>
<td>9/16-18UNF</td>
</tr>
<tr>
<td>Air drive</td>
<td>3/8 BSP</td>
</tr>
<tr>
<td>Maximum operating temperature</td>
<td>60°C</td>
</tr>
<tr>
<td>Net weight</td>
<td>3.9 kg</td>
</tr>
</tbody>
</table>

Pressure and flow performances, please see enclosed graph.

### Wetted materials of construction:

- **Seal package:** M189-2(L): Polyurethan, NBR
- **Pump Body:** 1.4305
- **Piston:** 1.4112 (hardened)
- **Fittings:** 1.4104

### Approximate Dimensions:

- **Height:** 255 mm
- **Depth:** 100 mm
- **Width:** 112 mm

### Available Options:

- **Side inlet** M189-2(L)S
- **Special inlet ports, i.e. NPT** M189-2(L)-NPT

Special seal material to handle special fluids on request.

### Available Accessories:

- **Air control units for M series with filter pressure regulator, control pressure gauge and shut off valve:** M189-2(L) with C1

To protect the pump against excessive outlet pressures or to limit the outlet pressure, a safety valve can be fitted to the air control unit in the air drive line:

M189-2(L) with C1/SVair (The required outlet pressure has to be indicated.)

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**Please consult factory for more information.** All technical and dimensional information subject to change. All General Terms and Conditions of sale, including limitations of our liability, apply to all products and services sold.
Leistungsdiagramm/Performance Graph M 189-2L

Prüfflüssigkeit/Test Liquid: Wasser-Oil-Emulsion/Water Oil Emulsion ca. 1 - 10 cst

Betriebsdruck bei/Outlet Pressure at
- 4 bar
- 6 bar
- 8 bar

Luftverbrauch bei/Air consumption at
- 4 bar
- 6 bar
- 8 bar

Förderleistung/Flow (l/min)

Betriebsdruck bei/Outlet Pressure
- P₀ max./Max. outlet pressure 4000 bar
- 8 bar
- 6 bar
- 4 bar