The Value Engineered Little Master (LM) Series of Dynamatic® Gear Pumps, have been designed to specifically meet the demanding needs of modern high performance hydraulic systems. The 1DX series has optimized twelve teeth gears. They offer high-pressure rating, combined with low pressure-ripples and low-noise characteristics. The extensive range of displacements available provides close matching for a wide variety of applications.

The Salient features of the 1DX Series of pumps are detailed below.

- Eleven-teeth gear design.
- Low pressure-ripple / system noise.
- Rear Cover mounted & Front Flange mounted ports configuration available.

**Pump Sizes:** The LM Series of Pumps are available in sizes ranging from 0.8 to 3.2 cc per rev.

**Pressure Capability:** The LM Series of pumps have capability to withstand a maximum continuous operating pressure of 170 bar, to meet exacting requirements.

**Application:** This pump is primarily intended for Pump-Mptor application wherein the application demands low oil flow to be capable of withstanding moderate pressure.

**Options:** The LM Series includes various shaft types viz. parallel, tung drive, etc. Also, various types of mounting flanges are available which provide optimum flexibility in connecting to the power source of the equipment. Various pump port options are available to facilitate pump fitment requirement.

**Salient Features:**

a) Compact
b) Light Weight
c) Low Noise due to higher no. of gear teeth
# Installation Dimensions

![Diagram of a pump with dimensions](image)

**FLANGE CODE - S1**

**SHAFT CODE - P**

## Performance Data

<table>
<thead>
<tr>
<th>PUMP TYPE</th>
<th>DISPLACEMENT (cc/rev)</th>
<th>DIM-A</th>
<th>DIM-B</th>
<th>MAX. WORKING PRESSURE (bar)</th>
<th>MAX. PEAK PRESSURE (bar)</th>
<th>Min. Speed @ Max. Working Pressure (rev/min)</th>
<th>Max. Speed @ Max. Working Pressure (rev/min)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LM 008</td>
<td>0.8</td>
<td>37.5</td>
<td>71.5</td>
<td>140</td>
<td>170</td>
<td>700</td>
<td>2200</td>
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<td>LM 012</td>
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<td>38.4</td>
<td>73.2</td>
<td>140</td>
<td>170</td>
<td>700</td>
<td>2200</td>
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<tr>
<td>LM 016</td>
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<tr>
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<td>700</td>
<td>2200</td>
</tr>
</tbody>
</table>

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ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED
BODY PORT CODE - K
(USE ONLY FLANGE CODE-K)

BODY PORT CODE - T
(USE FLANGE CODE-S & S1)

ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED
DRIVE SHAFT CODE - P
FLANGE CODE - S & S1

ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED

DRIVE SHAFT CODE - E (TUNG)
FLANGE CODE - K
MOUNTING FLANGE CODE – K
2 BOLT MOUNTING

MOUNTING FLANGE CODE – S
SAE 2 BOLT MOUNTING

ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED
MOUNTING FLANGE CODE—S1

ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED