**316 S/S Centrifugal Pumps (2 pole)**

**Model 3LS**

To DIN 24255

**Specifications**
- End suction centrifugal pump with closed impeller
- Maximum working pressure: 10 bar
- Liquid temperature: -10 °C to +110 °C

**Materials**
- Pump casing: 316 Stainless Steel
- Impeller: 316 Stainless Steel
- Casing cover: 316 Stainless Steel
- Shaft: 316 Stainless Steel (wetted part)
- Motor bracket: Cast Iron
- Mechanical seal: SiC/SiC/Viton

**Motor Data**
- IEC standard 2 pole 50 Hz motors
- Normally fitted with WEG motors
- 3 Phase, TEFC, IP55 or above, Class F or above

**Range**
- 32 to 80 mm Ø discharge
- 1.1 to 55 kW - 3 Phase

**Supply**
- Available complete with motor or as a pump end kit without motor

**Options**
- Single phase motors (up to 3.0 kW)
- Other motor brands, types, etc. on request

**Accessories**
- Companion flange kits.

**This series of stainless steel pumps feature a unique one piece volute casing that is produced using an advanced computer controlled Plasma stamping system that ensures total quality control during manufacture. With the smooth surfaces of stamped stainless steel, this results in consistent high standard products, of superior quality and high efficiency.**

(Cast casing on 65-250 & 80 models)

The back pull-out construction permits the disassembly and overhaul of the impeller, mechanical seal and motor without removal of the suction or discharge piping, or pump casing.

The centre line discharge and foot support under the casing ensure maximum resistance to misalignment and distortion from pipe loads.

**Stub shaft design**

*Uses IEC standard motors*

*Standard with high quality Silicon Carbide mechanical seal*

*All the hydraulic and wetted components are manufactured in 316 Stainless Steel*

**Available as pump end kit (without motor)**

**Standard IEC motors used, allowing for single phase, special enclosure, or specific brand motors to be fitted.**

- Over 40 model sizes
- 32 mm to 80 mm discharge
- 1.1 to 55 kW motor power
- Flows to 4000 lpm
- Heads to 90 metres
**Model Code**

3LS 40 - 200 / 7.5 M

- **M** = Single Phase
- **Motor Size kW**
- **Nominal Impeller Diameter mm**
- **Discharge Size Ø mm**

- Model; 3LS with motor; 3LSF without motor (kit)

**Configuration**

3LS pumps use IEC standard motors. 3 phase WEG cast iron motors are generally fitted as standard, but single phase, specific brands, special enclosures, etc. can also be supplied. The requirements for frame size and mounting are in the dimension table. Note that B5 = Flange mount; B35 = Foot & Flange mount.

The style of motor support varies depending on model and motor size, as shown in the figures below and referred to in the dimension table.
### Construction

**Model 3LS**

**Typical with stamped casing**
(i.e. all 32, 40 & 50 mm & 65 - 125/160/200)

**Typical with cast casing**
(i.e. 65-250, & all 80)

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<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Suits models</th>
<th>Materials</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Casing</td>
<td>All 32, 40 &amp; 50; 65-125/160/200</td>
<td>316L Stainless Steel - stamped</td>
</tr>
<tr>
<td></td>
<td></td>
<td>65-250; All 80</td>
<td>316 Stainless Steel - stamped</td>
</tr>
<tr>
<td>7</td>
<td>Impeller</td>
<td>All 32, 40 &amp; 50</td>
<td>316L Stainless Steel - stamped</td>
</tr>
<tr>
<td></td>
<td></td>
<td>All 65 &amp; 80</td>
<td>316 Stainless Steel - stamped</td>
</tr>
<tr>
<td>4</td>
<td>Casing cover</td>
<td>32, 40 &amp; 50; 65-125/160/200; 80-160</td>
<td>316L Stainless Steel - stamped</td>
</tr>
<tr>
<td></td>
<td></td>
<td>65-250; 80-200/250</td>
<td>316 Stainless Steel - precision cast</td>
</tr>
<tr>
<td>26</td>
<td>O-Ring (casing)</td>
<td>All models</td>
<td>Viton</td>
</tr>
<tr>
<td>11</td>
<td>Mechanical seal</td>
<td>All models</td>
<td>SiC/SiC/Viton with anti rotation device for stationary seat.</td>
</tr>
<tr>
<td>6</td>
<td>Stub shaft</td>
<td>All models (Material refers to part in contact with liquid)</td>
<td>316 Stainless Steel (Up to 22 kW)</td>
</tr>
<tr>
<td>3</td>
<td>Motor bracket</td>
<td>All models</td>
<td>Cast Iron</td>
</tr>
</tbody>
</table>

**IEC Standard Motor**

Note: Mounting and support feet varies between models.

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Specifications subject to change without notice.