High Pressure Multi Stage Turbine Pumps

**Applications**
- Boiler feed
- Processing water
- General industry
- City water and high pressure water

**Feature**
- High efficiency over a wide range
- Highly reliable components
- Suitable for low NPSH operation
- Compact and inexpensive
- Short-term delivery

** RATINGS**

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Up to 2.5 m³/min (860 US GPM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Head</td>
<td>Up to 50 m (164 FT)</td>
</tr>
<tr>
<td>Discharge Pressure</td>
<td>Up to 80 kg/cm² (1163 PSIG)</td>
</tr>
<tr>
<td>Allowable Suction Pressure</td>
<td>Up to 25 kg/cm² (355 PSIG)</td>
</tr>
<tr>
<td>Revolution 60Hz (50Hz)</td>
<td>1750 or 3550 min⁻¹ (1450 or 2950 min⁻¹)</td>
</tr>
<tr>
<td>Rotation</td>
<td>Clockwise viewed from inboard side</td>
</tr>
<tr>
<td>Temperature</td>
<td>-180°C (356°F)</td>
</tr>
<tr>
<td>Nozzle-Rating</td>
<td>Suction: 10 kg/cm², Discharge: 540 kg/cm²</td>
</tr>
<tr>
<td>Nozzle-Facing</td>
<td>Raised Face</td>
</tr>
<tr>
<td>Nozzle-Location</td>
<td>Side Suction - Top Discharge</td>
</tr>
<tr>
<td>Seals</td>
<td>Conventional Packing or Mechanical Seal</td>
</tr>
</tbody>
</table>

**Selection Charts**

- 4Poles
- 2Poles
Model. HT

Parts List and Materials

**Name of Parts** | **Materials**
--- | ---
1C Suction Casing | SCPH2, SCPH2, A216 WCB
1D Discharge Casing | SCPH2, SCPH2, A216 WCB
1E Stage Casing | SCPH2, SCPH2, A105 CA15
2 Impeller | SSC1, SSC1, A105 CA15
5 Diffuser | SSC1, SSC1, A105 CA15
6 Pump Shaft | SCM440, SCM440, A322 4140
7 Casing Ring | STS420U2, SUS420U2, A276 420
13 Packing or Seal | TEFALON, TEFALON, TEFALON
14 Shaft sleeve | STS420U2, SUS420U2, A276 420
16 Bearing | STEEL, STEEL, STEEL
17 Packing Gland | SSC13, SSC13, A743 CF8
17A Seal Gland | SSC13, SSC13, A743 CF8
18 Thrust Bearing | STEEL, STEEL, STEEL
31 Bearing Housing | GC200, FC200, A48 CL30
56 Balance Drum Bushing | STS420U2, SUS420U2, A276 420
56 Balance Disk Seat | -
65 Mechanical Seal | -
71 Drip Pocket | GC200, FC200, A48 CL30
83 Stuffing Box | SCPH2, SCPH2, A216 WCB
115 Balance Drum/ Balance Disk | STS420U2, SUS420U2, A276 420

Optional Material Code
- API Material class code;
- Other materials are available on request (316L, 12% Cr., 304S5, 310S5, 316LSS, etc.)

Installation Dimension

<table>
<thead>
<tr>
<th>Model</th>
<th>a</th>
<th>c</th>
<th>f</th>
<th>n1</th>
<th>n2</th>
<th>h1</th>
<th>h2</th>
<th>h3</th>
</tr>
</thead>
<tbody>
<tr>
<td>50X40</td>
<td>338 (17.22)</td>
<td>20+(5X50) (0.78+(5X1.97))</td>
<td>350 (13.78)</td>
<td>265 (10.43)</td>
<td>200 (7.87)</td>
<td>180 (7.09)</td>
<td>180 (7.09)</td>
<td>350 (13.78)</td>
</tr>
<tr>
<td>65X50</td>
<td>343 (13.50)</td>
<td>28+(5X54) (1.10+(5X2.13))</td>
<td>360 (14.17)</td>
<td>265 (10.43)</td>
<td>200 (7.87)</td>
<td>180 (7.09)</td>
<td>180 (7.09)</td>
<td>350 (13.78)</td>
</tr>
<tr>
<td>80X65</td>
<td>386 (15.20)</td>
<td>35+(5X70) (1.38+(5X2.76))</td>
<td>428 (16.85)</td>
<td>300 (11.81)</td>
<td>236 (9.29)</td>
<td>210 (8.27)</td>
<td>224 (8.62)</td>
<td>350 (13.78)</td>
</tr>
<tr>
<td>100X80</td>
<td>403 (15.87)</td>
<td>50+(5X80) (1.97+(5X2.99))</td>
<td>453 (17.83)</td>
<td>400 (15.75)</td>
<td>320 (12.60)</td>
<td>250 (9.84)</td>
<td>280 (11.02)</td>
<td>350 (13.78)</td>
</tr>
</tbody>
</table>

No cooling jacket type (HP model ) is available. Subject to modification without notice to incorporate technical improvements. * S : Stage Number