SIHI multi - Modular Multistage Pumps

SIHI Pumps
www.sterlingamericas.com
Backed by its 70 years of application and manufacturing knowledge in the field of ring-section multistage pumps, SIHI Pumps has developed its new SIHI\textsuperscript{multi} in order to address today’s needs of industrial and process applications, namely increased performances and reliability combined with reduced life-cycle costs.

The result is an innovative pump design integrating an advanced modular concept for high flexibility and interchangeability of parts. Several unique design features ensure enhanced performance and reliability, while closely matching duty conditions.

**Applications**

- Boiler feed
- Condensate systems
- Waterworks and Water supply
- High pressure cleaning
- Process and Chemical
- Heating
- Irrigation
- Pressure boosting
- Reverse osmosis
- And many more...

**Please visit us @**

www.sterlingamericas.com
The SIHImulti range of horizontal, ring-section multistage pumps are for high-pressure applications and meet the technical requirements of ISO 5199 / EN 25199. By adopting an advanced modular design, the number of parts is reduced while maximizing interchangeability. Optimal selection of impeller diameter and diffuser size ensures that the pump closely matches the required duty conditions. Axial thrust is balanced by a newly designed and patented drum system that does not need tight, wear-sensitive running clearances to efficiently control recirculation flow in the balance line. This design benefit ensures that recirculation flow rate is greatly reduced.
SIHImulti - MODULAR MULTISTAGE PUMPS

Suction Impeller
First stage impeller ensures reliable operation with low NPSH conditions.

Suction Position
Adaptable design allows for three radial or an axial suction

Discharge Position
Adaptable design allows three different radial positions to be selected.

Product Lubricated Sleeve Bearing
Self-aligning bearing for higher reliability.

Modular Design
Modular geometry of impellers/diffusers permits optimal hydraulic design matching all duty conditions.
New Design of Balance Drum System
This new, patented design combines a balance drum with a self-adjusting throttling device.

The benefits include:
• greatly reduced re-circulation flow in the balance line (higher efficiency)
• same balanced drum system for different number of stages
• high efficiency, lower power consumption
• reduced wear rate as this system does not rely on tight, wear-sensitive clearances to control the re-circulation flow

Bearings
Generously sized angular contact bearings absorb all residual thrust

Shaft Sealing
• uncooled and cooled mechanical seal
• uncooled or cooled packed gland

More...for less... - please contact us!
SIHI<sub>multi</sub> - OPTIONS

**Nozzle Position** *(viewed from drive end)*

**Discharge Casing**
- radial horizontal left
- radial top
- radial horizontal right

*every combination of suction and discharge casing is available*

**Suction Casing**
- axial
- radial horizontal left
- radial top
- radial horizontal right

**Shaft Sealing** *(mechanical seal arrangement)*
- cooled, unbalanced
- uncooled, unbalanced
Shaft Sealing *(packed gland arrangement)*

**Performance Range**

- **Capacity**: max. 1100 GPM (250m³/h)
- **Head**: max. 2100 Feet (630m)
- **Speed**: max. 3600 RPM
- **Temperature**: -14°F to + 356°F (-10°C to +180°C) optional 392°F (200°C)
- **Pressure Rating**: max. 63 bar

**Materials**

<table>
<thead>
<tr>
<th>Component</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suction Casing</td>
<td>Cast Iron, Ductile Iron, Stainless Steel</td>
</tr>
<tr>
<td>Stage Casing</td>
<td>Ductile Iron, Stainless Steel</td>
</tr>
<tr>
<td>Discharge Casing</td>
<td>Ductile Iron, Stainless Steel</td>
</tr>
<tr>
<td>Impeller, Diffuser</td>
<td>Cast Iron, Bronze, Stainless Steel</td>
</tr>
<tr>
<td>Shaft</td>
<td>Stainless Steel</td>
</tr>
</tbody>
</table>

*Special materials are available on request.*

**more... for less...**

- **Reduced life-cycle costs**
  - Enhanced efficiency with the balance drum system
  - Only one shaft seal
  - Lower power consumption
  - High reliability

- **Minimized wear**
  - Reduced spare parts costs

- **Global service network**
  - Established Service Centers around the world

- **Ease of maintenance**
  - Simple assembly/disassembly