Vertical Double-Suction Pump with Canister

**Applications**
- The DGVN vertical split-case double-suction pumps are designed for the suction or discharge in isolated applications.
- Typical applications are water circulation pumps in the miscellaneous and industrial services for process industries.

**Operating Data**
- Temperature: +30°C to +100°C
- Flow rate: up to +20,000 m³/hr
- Pressure: up to 100 bar
- Speed: 2950 to 1450 rpm

**Features**
- Double suction, single entry, single stage, and single discharging canister
- Construction of double suction, single stage, and single discharging canister
- Easily accessible to the user
- Easy to maintain

**Installation**
- The pump is arranged in a position for the installation area,
- The pump is connected to the structure by means of a flange,
- The pump is mounted by vertical shaft's ball valve,
- The motor is mounted on a motor foundation.

**Materials**

<table>
<thead>
<tr>
<th>Part of Pump</th>
<th>Material</th>
<th>Carbon Elevation</th>
<th>Chemoresistant</th>
</tr>
</thead>
<tbody>
<tr>
<td>Body</td>
<td>Stainless Steel 316</td>
<td>AISI 316, AISI 316L, Stainless Steel</td>
<td>80% Cr, Carbon Steel</td>
</tr>
<tr>
<td>Cover</td>
<td>Stainless Steel 316</td>
<td>AISI 304, Stainless Steel</td>
<td>80% Cr, Carbon Steel</td>
</tr>
<tr>
<td>Impeller</td>
<td>Stainless Steel 316</td>
<td>AISI 304, Stainless Steel</td>
<td>80% Cr, Carbon Steel</td>
</tr>
<tr>
<td>Discharge Valve</td>
<td>Stainless Steel 316</td>
<td>AISI 304, Stainless Steel</td>
<td>80% Cr, Carbon Steel</td>
</tr>
<tr>
<td>Packing</td>
<td>Graphite, PTFE</td>
<td>AISI 304, Stainless Steel</td>
<td>80% Cr, Carbon Steel</td>
</tr>
</tbody>
</table>

**Design Features**

**Separate Fabricated Driver Block**
- The driver is mounted on a separate motor.

**Shaft Sealing**
- Shaft is available with various shaft seal options.
- Stainless steel shaft with the outer diameter and the inner diameter of the shaft

**Fabricated Discharge Nozzle Flanges**
- Connection flanges according to customer’s specification
- Stainless steel flanges
- Optional: with or without flanges

**Design**
- Designed for all shaft diameters.
- Designed for all shaft diameters.
- Designed for all shaft diameters.
- Designed for all shaft diameters.

**Relief Bearings**
- Product is available for all shaft diameters and bearings
- Product is available for all shaft diameters and bearings
- Product is available for all shaft diameters and bearings
- Product is available for all shaft diameters and bearings

**First Stage Double-Suction Impeller**
- Double suction, single entry, single stage, and single discharging canister
- Designed for all shaft diameters
- Designed for all shaft diameters
- Designed for all shaft diameters
- Designed for all shaft diameters
Vertical Double-Suction Pump with Canister

Applications
- The DENV vertical multi-stage double-suction pumps are designed for low suction head high medium and heavy duty. Typical applications are water INSTALLATION in the industrial and commercial industries, such as petrochemical plants.

Operating Data
- Temperature: Max. 50°C
- Flow rate: Max. 250 m³/hr
- Head: Max. 350 m
- Speed: 1450 rpm

Higher pump heads and flow rates available on request.

Design
- Vertical non-clog centri-pump
- Double suction impeller and single stage or multistage combination

Features
- Compact design due to high-speed impellers
- Allows for lower vibration and noise
- Anti-vibration feet are supplied to minimize the vibration and noise
- The double impeller design of the pump ensures a stable operation even with part load ranges.

Installation
- The pump is mounted on a plate for the installation base.
- The pump is connected to the structure by means of a flexible coupling.

Materials

<table>
<thead>
<tr>
<th>Material</th>
<th>Impeller</th>
<th>Impeller Design</th>
<th>Gaskets/Seals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bronze</td>
<td>Multistage, Close-Coupled</td>
<td>Carbon Bronze, 15% Chr</td>
<td>Carbon Bronze, 15% Chr</td>
</tr>
<tr>
<td>Val-Cast</td>
<td>Multistage, Close-Coupled</td>
<td>Carbon Bronze, 15% Chr</td>
<td>Carbon Bronze, 15% Chr</td>
</tr>
<tr>
<td>Impeller</td>
<td>Multistage, Close-Coupled</td>
<td>Carbon Bronze, 15% Chr</td>
<td>Carbon Bronze, 15% Chr</td>
</tr>
<tr>
<td>Water Ring</td>
<td>Multistage, Close-Coupled</td>
<td>Carbon Bronze, 15% Chr</td>
<td>Carbon Bronze, 15% Chr</td>
</tr>
<tr>
<td>Stand &amp; Shaft Coupling</td>
<td>Multistage, Close-Coupled</td>
<td>Carbon Bronze, 15% Chr</td>
<td>Carbon Bronze, 15% Chr</td>
</tr>
<tr>
<td>Joint Ring</td>
<td>Multistage, Close-Coupled</td>
<td>Carbon Bronze, 15% Chr</td>
<td>Carbon Bronze, 15% Chr</td>
</tr>
<tr>
<td>Discharge Flange</td>
<td>Multistage, Close-Coupled</td>
<td>Carbon Bronze, 15% Chr</td>
<td>Carbon Bronze, 15% Chr</td>
</tr>
</tbody>
</table>

Design Features

Separate Fabricated Driver Block
- The driver block is made of stainless steel.
- Designed with integral bearing to handle the pump axis.

Shaft Sealing
- Shaft is sealed with a mechanical seal.
- Mechanical seal is designed to minimize the leakage and noise.

Fabricated Discharge Hose Flanges
- Discharge hose flange is made of carbon steel.
- Simple and easy installation.

Screw Intermediate Shaft Coupling
- Designed for dual flow applications.

Radial Bearings
- Radial bearings are made of stainless steel.
- Provides a long life expectancy.

Dust Wearing Surface
- The dust wearing surface is made of stainless steel.
- Provides a long life expectancy.

Vertical Solid Shaft Motor
- Direct drive by variable speed motor.
- Designed for high speed and efficiency.

Right Coupling
- Designed for right angle drive.
- Designed to handle high torque.

Flanged Fabricated Column Pipes
- Designed for easy installation and removal.
- Provides a high level of efficiency.

Fabricated Basket
- Designed to handle high flow and high pressure.
- Provides a high level of efficiency.

First Stage Double-Suction Impeller
- The first stage of the double suction pump is designed with a high pressure resistance.
- Designed for high flow and high pressure applications.