SPX Hose Pumps
Improve your process performance

FEATURES
✓ Can run dry indefinitely without damage (no product in line)
✓ Highly suitable for handling abrasive, shear sensitive, viscous, high density products and corrosive liquids
✓ Smooth liquid passage without valves, dead corners or glands
✓ 100% positive flow (no slip)
✓ Accurate (+/- 1%) dosing (metering) capabilities
✓ Product pumped does not contact mechanical parts or seals
✓ Only wearing part is the hose
✓ Easy maintenance low cost, short downtime. Replacement of hose without dismantling pump
✓ Heavy duty bearings, greased for life
✓ Easily and completely cleanable
✓ Reversible rotation
✓ Suitable for high viscosities and densities
✓ No metal to metal contact
✓ 100% positive flow (no slip)
✓ Low noise level
✓ Safe use for explosive environments
✓ Designed to pump liquids containing particles (abrasion is no restriction)
✓ Permanent lubrication and cooling of pump element with specially compounded food grade lubricant
✓ Self priming to 95% vacuum (5 kPa.a)
✓ Two year comprehensive warranty
✓ Patented direct coupled design with rotor supporting integrated into the pump head and unique buffer zone to provide protective barrier between pump head and drive arrangement
✓ Ultra compact footprint with flanged helical gearing; no coupling or drive alignment required

The perfect pump for the perfect application
SPX32 DuCoNite

- Maximum flow: 5,250 L/h
- Capacity: 0.625 L/rev
- Maximum discharge pressure: 1,600 kPa [16 bar]
- Inner diameter pump element: Ø 32 mm
- Lubricant required: 3.5 litres
- Minimum starting torque: 210 Nm

### HOW TO USE THE CURVES

1. Flow required indicates pump speed
2. Calculated discharge pressure
3. Net motor power required
4. Product temperature
5. Calculated discharge pressure
6. Maximum recommended pump speed

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**Required motor power [kW]**

- **Continuous Duty**
- **Intermittent Duty**

**Product temperature [°C]**

- **100 kPa = 1 bar**

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<table>
<thead>
<tr>
<th>Pump speed [rpm]</th>
<th>20</th>
<th>40</th>
<th>60</th>
<th>80</th>
<th>100</th>
<th>120</th>
<th>140</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity [L/h]</td>
<td>750</td>
<td>1500</td>
<td>2250</td>
<td>3000</td>
<td>3750</td>
<td>4500</td>
<td>5250</td>
</tr>
</tbody>
</table>

**Note:** The area of continuous operation diminishes with increased product temperatures. For product temperatures > 40 ºC, the area of continuous operation reduces to the corresponding red temperature line.

All dimensions in [mm]
TECHNICAL SPECIFICATIONS

Supply: 230/400 V - 3 phases - 50 Hz
Operating Speeds: 210 Nm
Minimum starting torque: 3.5 litres
Product Temperature Range*: -10 °C up to 80 °C
Ambient Temperature Range**: -20 °C up to 45 °C
Hose Lubricant Required: NR, NBR, EPDM, CSM
Flow Range: up to 5,250 L/hr
Discharge Pressure: up to 1,600 kPa [16 bar]
Suction Pressure: 9.5 metres lift to 200 kPa [2 bar]
Available Hose Materials: DIN AISI 316, ANSI AISI 316
Available flanges: PP, AISI 316, PVC, PVDF
Optional High Level Hose Leak Sensor: NO or NC: 1A max, 250V max, 50 VA max

MATERIALS OF CONSTRUCTION
Pumphousing: Cast-iron
Rotor: Cast-iron
Pressing shoes: Epoxy
Cover: Cast-iron
Brackets: AISI 316
Support Frame: AISI 316
Mounting material: AISI 316
Hose Clamps: AISI 316
Shaft: Alloy Steel
Seals: VITON and EPDM
Pumphead Weight: 58.5 kg

* Please consult your Bredel representative for lower or higher temperature operation.
** Allowable ambient temperature is based on pump capabilities and may be further limited by gearbox ambient capabilities.

When the temperatures are above 60 °C always use one shim less than indicated in the diagrams. Always round up the number of shims.

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Watson-Marlow... Innovation in Full Flow

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