

SPX100

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

SPX Hose Pumps

Improve your process performance

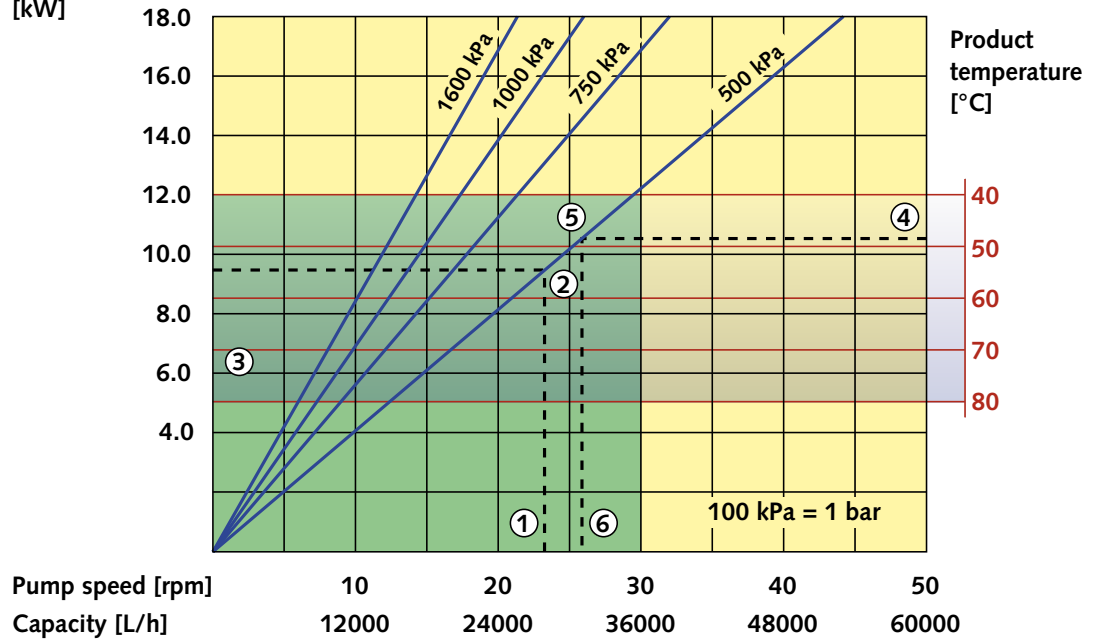


The perfect pump for the perfect application

SPX100

- Maximum flow:
52,900 L/h
- Capacity:
20.0 L/rev
- Maximum discharge pressure:
1,600 kPa [16 bar]
- Inner diameter pump element:
Ø 100 mm
- Lubricant required:
60 litres
- Minimum starting torque:
3100 Nm

Required motor power [kW]



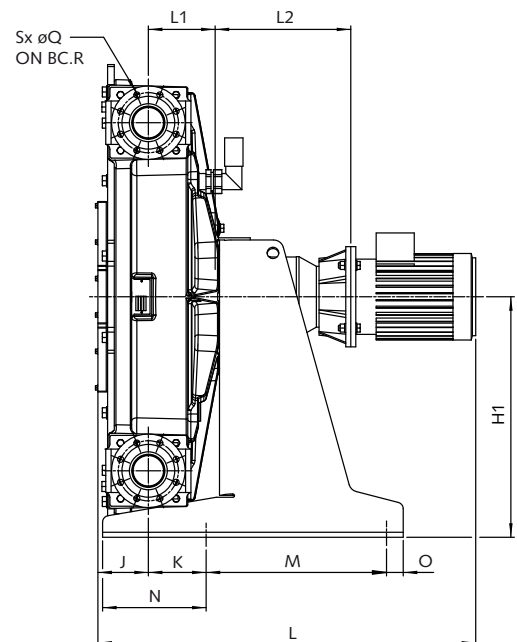
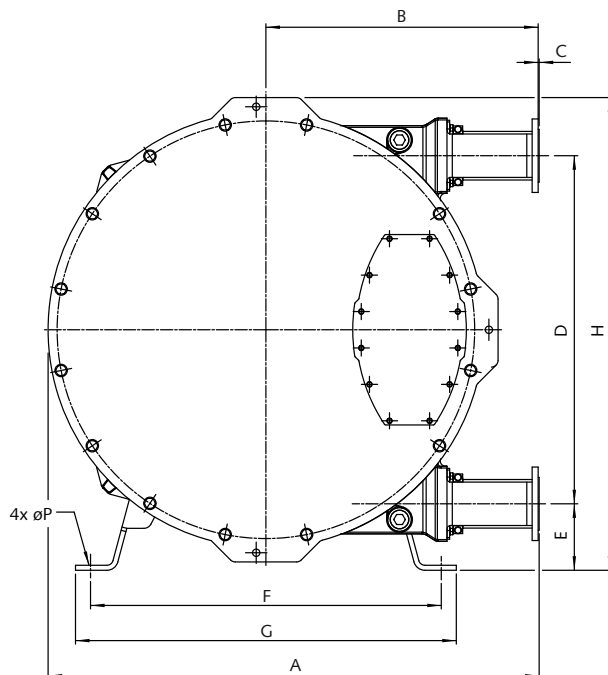
Continuous Duty Intermittent Duty Maximum 2 hours operation followed by minimum 1 hour stop

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

Note: The area of continuous operation diminishes with increased product temperatures.

For product temperatures > 40 °C, the area of continuous operation reduces to the corresponding red temperature line.



Type	A	B	C	D	E	F	G	H	H1	J	K	L _{max}	L1	L2 _{max}	M	N	O	P	Q	R	S
SPX100	1468	813	3	1042	199	1050	1140	1415	720	151	173	1392	200	489	540	310	50	Ø22	Ø18	180	8

All dimensions in [mm]

TECHNICAL SPECIFICATIONS

Supply: up to 2.2 kW: 230/400 V - 3 phases - 50 Hz
3.0 kW and larger: 400/690 V - 3 phases - 50 Hz

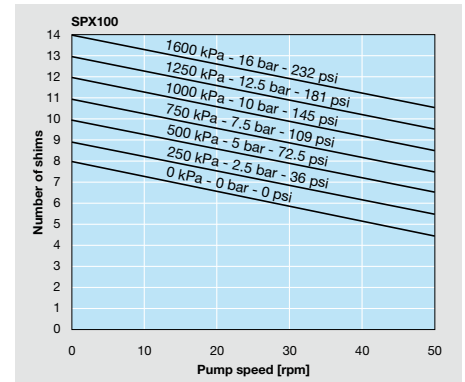
Operating Speeds:
Minimum starting torque: 3100 Nm
Product Temperature Range*: -10 °C up to 80 °C
Ambient Temperature Range:** -20 °C up to 45 °C
Hose Lubricant Required: 60 litres
Flow Range: up to 52,900 L/hr
Discharge Pressure: up to 1,600 kPa [16 bar]
Suction Pressure: 9.5 metres lift to 200 kPa [2 bar]
Available Hose Materials: NR, NBR, EPDM,
Available flanges: DIN, ASA, JIS: mild steel galvanised
DIN, ASA, JIS: AISI 316
Available inserts: AISI 316, PP, PVC.
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: Aluminium or epoxy
Cover: Mild steel
Brackets: Mild steel, galvanized
Support Frame: Mild steel, galvanized
Mounting material: Mild steel, galvanized
Hose Clamps: AISI 316
Shaft: Alloy Steel
Seals: Neoprene or Nitrile
Pumphead Weight: 1300 kg

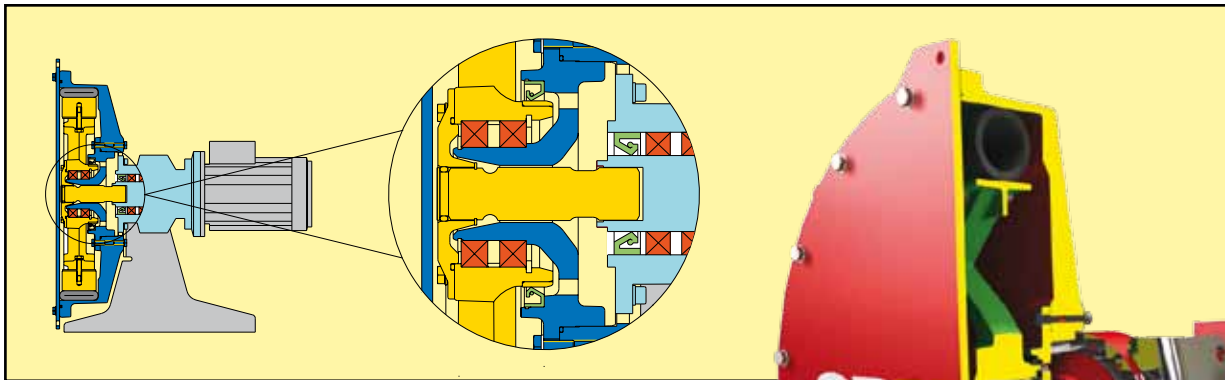
* Please consult your Bredel representative for lower or higher temperature operation.

** Allowable ambient temperature is based on pump capabilities and may be further limited by gearbox ambient capabilities.



SHIMS SPECIFICATIONS.

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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MARLOW
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Watson-Marlow...Innovation in Full Flow



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