

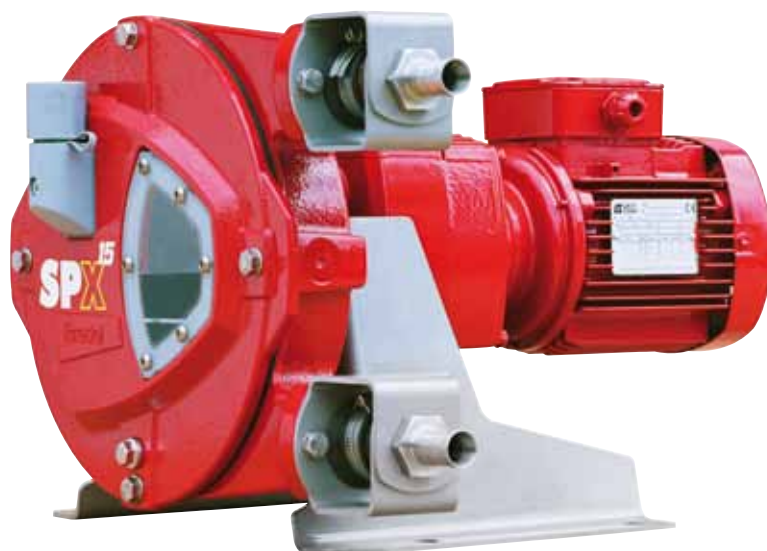
# SPX15

## 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
- ✓ Possibility of choice of high or low pressure rotor greatly enhances hose life
- ✓ 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

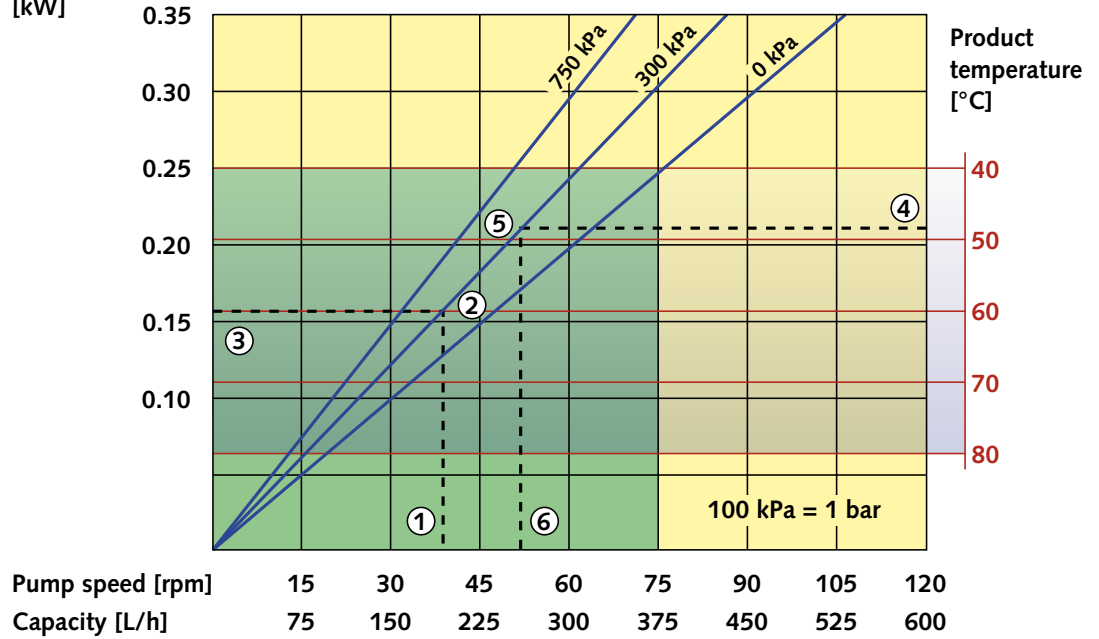
Improve your process performance



The perfect pump for the perfect application

**SPX15**

- Maximum flow:  
**525 L/h**
- Capacity:  
**0.083 L/rev**
- Maximum discharge pressure:  
**750 kPa [7.5 bar]**
- Inner diameter pump element:  
**Ø 15 mm**
- Lubricant required:  
**0.5 litres**
- Minimum starting torque:  
**60 Nm**

**Required  
motor power  
[kW]**

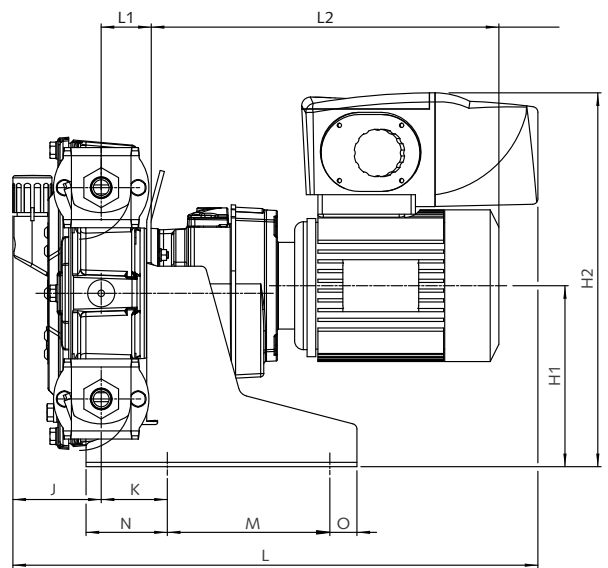
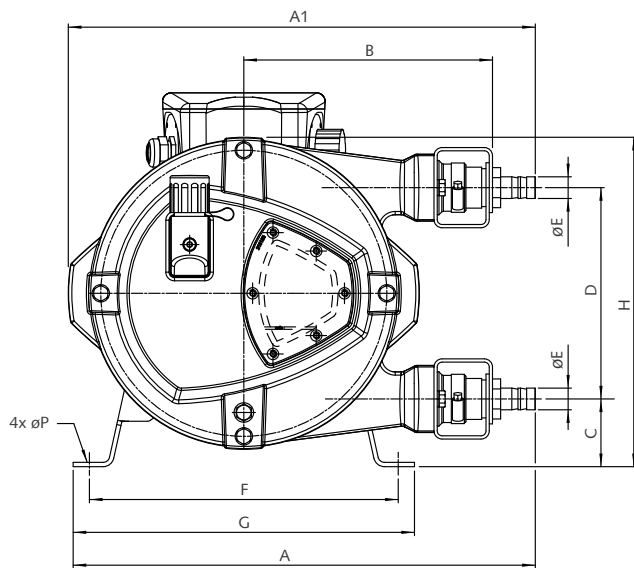
■ Continuous Duty ■ Intermittent Duty Maximum 2 hours operation followed by minimum 1 hour stop

**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	A1	B	C	D	E	F	G	H	H1	H2 max	J	K	L max	L1	L2 max	M	N	O	P
SPX15	427	431	230	63	195	Ø20	285	315	304	167	359	82	61	525	46	398	150	75	25	Ø12

All dimensions in [mm]

## TECHNICAL SPECIFICATIONS

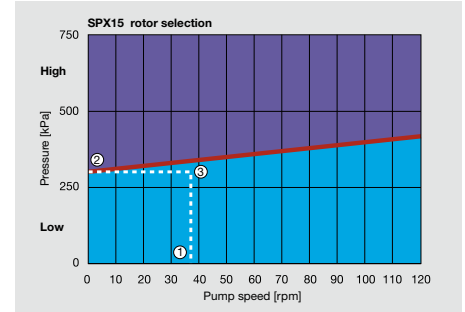
Supply:	230/400 V - 3 phases - 50 Hz
Operating Speeds:	up to 75 rpm continuous; up to 110 rpm intermittent
Minimum starting torque:	60 Nm
Product Temperature Range*:	-10 °C up to 80 °C
Ambient Temperature Range**:	-20 °C up to 45 °C
Hose Lubricant Required:	0.5 litre
Flow Range:	up to 525 L/hr
Discharge Pressure:	high pressure rotor: up to 750 kPa [7.5 bar] low pressure rotor: 400 kPa [4 bar]
Suction Pressure:	9.5 metre lift to 200 kPa [2 bar]
Available Hose Materials:	NR, NBR, EPDM,
Available pump element nipple assembly:	PTFE, PVDF, AISI 316
Available flanges:	ASA, DIN AISI 316, ASA AISI 316
Available inserts:	PP, threaded nipple (BSP) AISI 316
Optional High Level Hose Leak Sensor:	NO or NC: 1A max, 250V max, 50 VA max

## MATERIALS OF CONSTRUCTION

Pumphousing:	Cast-iron
Rotor with Integral Shoes:	Cast-iron
Bearing Hub:	Not applicable
Cover:	Cast-iron
Brackets:	AISI 316
Support Frame:	Galvanized Steel or AISI 316
Fasteners:	AISI 316
Hose Clamps:	AISI 316
Shaft:	Alloy Steel
Seals:	NBR and EPDM
Pumphead Weight:	18,5 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.



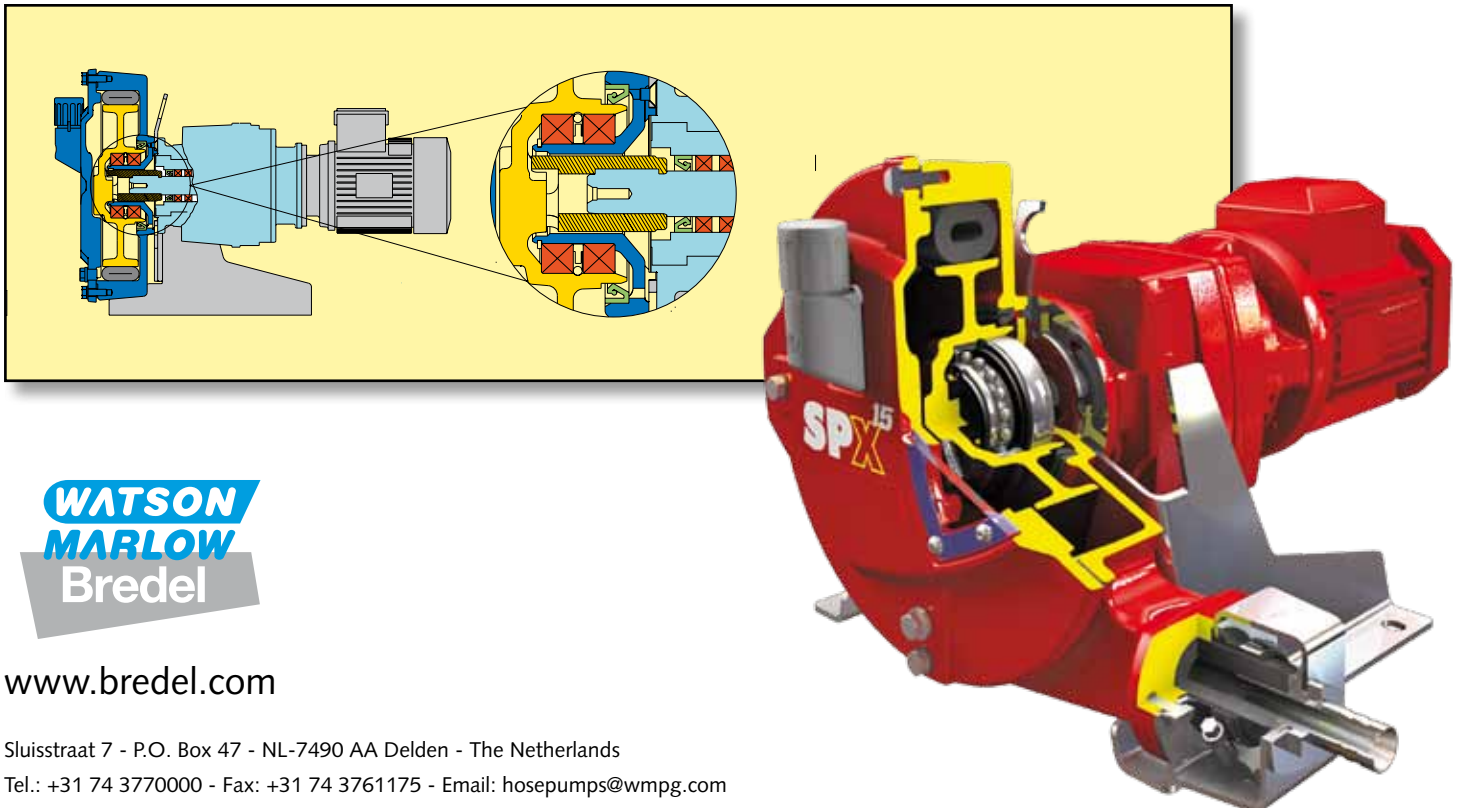
## SELECTION OF ROTOR SIZE.

Determine operating point (rpm/discharge pressure).

- 1 Required pump speed;
- 2 Calculated discharge pressure;
- 3 When operating below the red line the Low pressure rotor is used. When operating above the red line the High pressure rotor is used.

## REMARK

With a variable speed drive and operating in both areas, the High pressure rotor should be used.



**WATSON  
MARLOW**  
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[www.bredel.com](http://www.bredel.com)

Suisstraat 7 - P.O. Box 47 - NL-7490 AA Delden - The Netherlands

Tel.: +31 74 3770000 - Fax: +31 74 3761175 - Email: [hosepumps@wmpg.com](mailto:hosepumps@wmpg.com)

*Watson-Marlow...Innovation in Full Flow*

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