

Bredel 100

Bredel hose pumps (65-2100)



Hose Pumps

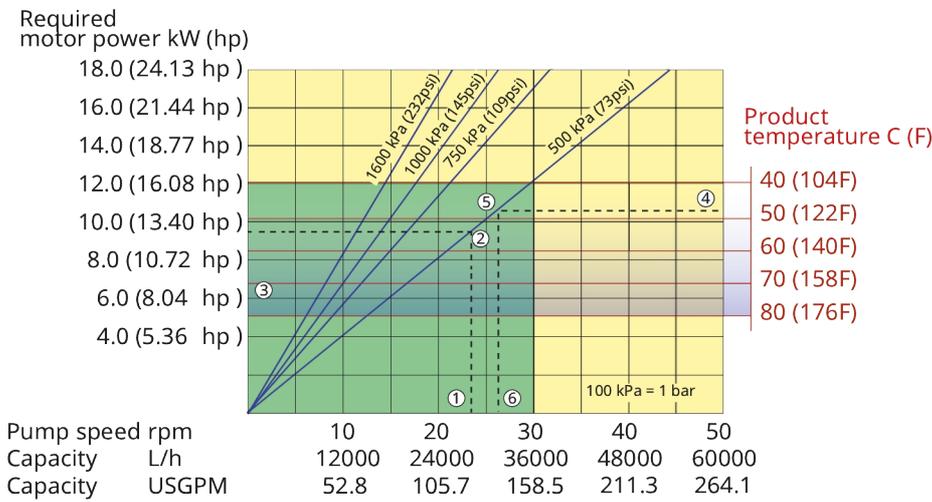
Features and benefits

- Dry running and self-priming
- Suction capability up to 7 mWC (276 inWC)
- No seals, ball-checks, diaphragms, glands, immersed rotors, stators or pistons to leak, clog, corrode or replace
- Handles abrasive slurries, corrosive acids, gaseous liquids
- No slippage, allowing true positive displacement for accurate and repeatable metering
- No ancillary equipment, check valves, sealing water flush systems or run-dry protection required
- Fully reversible to blow out suction and drain lines safely



Bredel 100 performance

Bredel 100



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

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

- Continuous duty
- Intermittent duty

* Maximum 3 hours operation followed by minimum 1 hour stop

Technical specifications

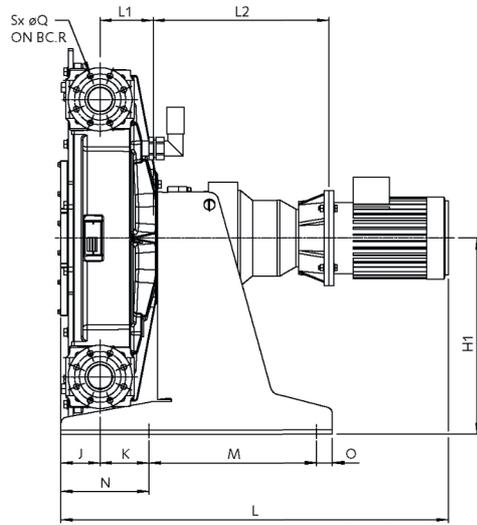
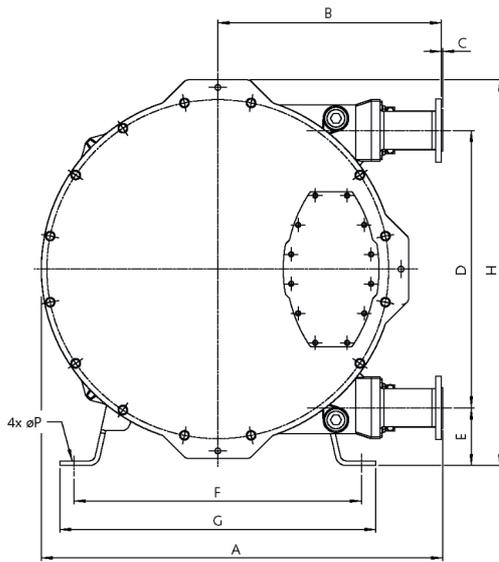
| | Bredel 100 |
|------------------------------------|---|
| Max. flow rate continuous | 9499 USGPH (36000 L/h) |
| Max. flow rate intermittent | 15831 USGPH (60000 L/h) |
| Volume per revolution | 5.28 USG (20 l) |
| Max. continuous operating speed | 30 rpm |
| Max. intermittent operating speed | 50 rpm |
| Max. operating pressure | 232 psi (16 bar) |
| Max. inlet pressure | 23 psi abs (1.5 bar abs) |
| Max. suction capability | 276 inWC (7 mWC) |
| Suction capability (80% Flow rate) | 197 inWC (5 mWC) |
| Operating temperature | -4 °F to 113 °F (-20 °C to 45 °C) |
| Fluid temperature | -4 °F to 176 °F (-20 °C to 80 °C) |
| Min. starting torque | 27437 in.lbs (3100 N m) |
| Weight | 2866 lbs (1300 kg) |
| Hose lubricant required | 15.85 USG (60 l) |
| Port configurations | Down, Left, Right, Up |
| Compatible hose materials | CSM, EPDM, F-NBR, NBR, NBR for food, NR-Metering, NR-Transfer |
| Flange assembly type | ANSI, DIN, JIS |

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.

Materials of construction

| | Bredel 100 |
|------------------------|--|
| Hose material | CSM, EPDM, F-NBR, NBR, NBR for food, NR Endurance, NR-Transfer |
| Housing | Cast iron, ISO12944 category C4M |
| Rotor assembly | Cast iron, ISO12944 category C4M |
| Cover assembly | Cast iron, ISO12944 category C4M |
| Brackets and fasteners | Galvanized steel, Stainless steel 316 |
| Support frame | Galvanized steel, Stainless steel 316 |
| Hose clamps | Galvanized steel, Stainless steel 316 |
| Seals | Neoprene, Nitrile |

Bredel 100 dimensions



| Type | A | B | C | D | E | F | G | H | H1 | J | K | Lmax | L1 | L2max | M | N | O | ØP | ØQ | R | S |
|------------------------|------|-----|------|------|-----|------|------|------|------|-----|-----|------------------|-----|-------|---------------|------|----|------------|------|-----|------|
| Bredel 100 (mm) | 1468 | 813 | 3 | 1042 | 199 | 1050 | 1140 | 1415 | 720 | 151 | 173 | 1392 | 200 | 489 | 540 | 310 | 50 | 22 | 18 | 180 | 8 |
| Bredel 100 (inches) | 57.8 | 32 | 0.12 | 41 | 7.8 | 41.3 | 44.9 | 55.7 | 28.3 | 5.9 | 6.8 | 54.8 | 7.9 | 19.3 | 21.3 | 12.2 | 2 | 0.9 | 0.71 | 7.1 | 0.31 |
| Connector sizes | | | | | | | | | | | | ANSI 150# | | | EN DIN | | | JIS | | | |
| Bredel 100 | | | | | | | | | | | | 4" | | | 100mm | | | 100mm | | | |

Product codes

Disclaimer: The information contained in this document is believed to be correct at the time of publication, but Watson-Marlow Bredel BV accepts no liability for any error it contains, and reserves the right to alter specifications without prior notice. All mentioned values in this document are values under controlled circumstances at our test bed. Actual flow rates achieved may vary because of changes in temperature, viscosity, inlet and discharge pressures and/or system configuration. APEX, DuCoNite, Bioprene and Bredel are registered trademarks.



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