

Bredel Heavy Duty 100

Bredel Heavy Duty pumps

Bredel

Hose Pumps

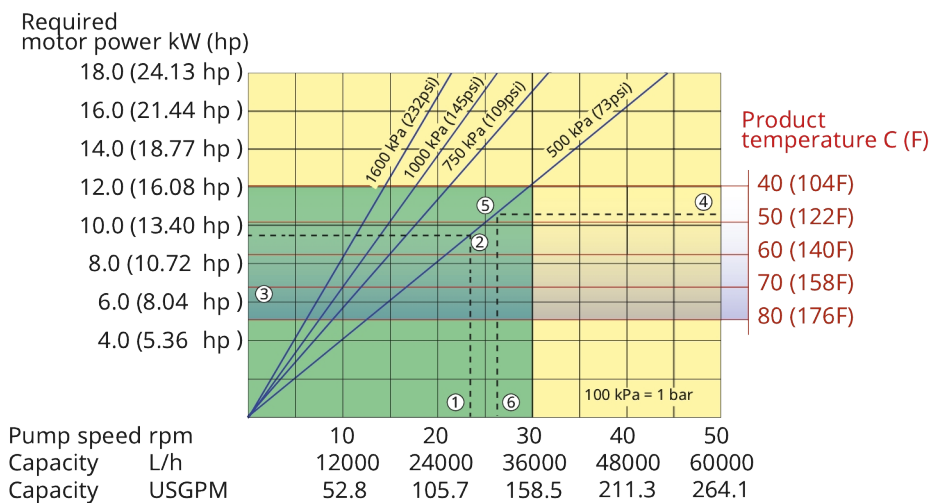
Features and benefits

- Heavy duty frame: designed for safer pump transportation, using a forklift truck
- Heavy duty bearings: provide improved lifetime when pumping high-solid content slurries
- Window guard: extra protection for the inspection window
- Reinforced brackets: more robust design, less risk of lubricant leakage, easier maintenance
- C4H paint: enhanced durability in highly corrosive environments



Bredel Heavy Duty 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 Heavy Duty 100
Max. flow rate continuous	36000 L/h (9499 USGPH)
Max. flow rate intermittent	60000 L/h (15831 USGPH)
Volume per revolution	20 l (5.28 USG)
Max. continuous operating speed	30 rpm
Max. intermittent operating speed	50 rpm
Max. operating pressure	16 bar (232 psi)
Max. inlet pressure	1.5 bar abs (23 psi abs)
Max. suction capability	7 mWC (276 inWC)
Suction capability (80% Flow rate)	5 mWC (197 inWC)
Operating temperature	-20 °C to 45 °C (-4 °F to 113 °F)
Fluid temperature	-20 °C to 80 °C (-4 °F to 176 °F)
Min. starting torque	3100 N m (27437 in.lbs)
Weight	152 kg (3364 lbs)
Heavy Duty bracket weight	25.1 kg
Heavy Duty bracket weight	55.3 lbs
Window guard weight	12 kg (26.4 lbs)
Heavy Duty support frame weight	312 kg (687 lbs)
Hose lubricant required	60 l (15.85 USG)
Port configurations	Down, Left, Right, Up
Bearing configuration	Heavy duty bearings or 3 std bearings
Compatible hose materials	CSM, EPDM, F-NBR, NBR, NBR for food, NR-Metering, NR-Transfer
Flange assembly type	ANSI, DIN, JIS

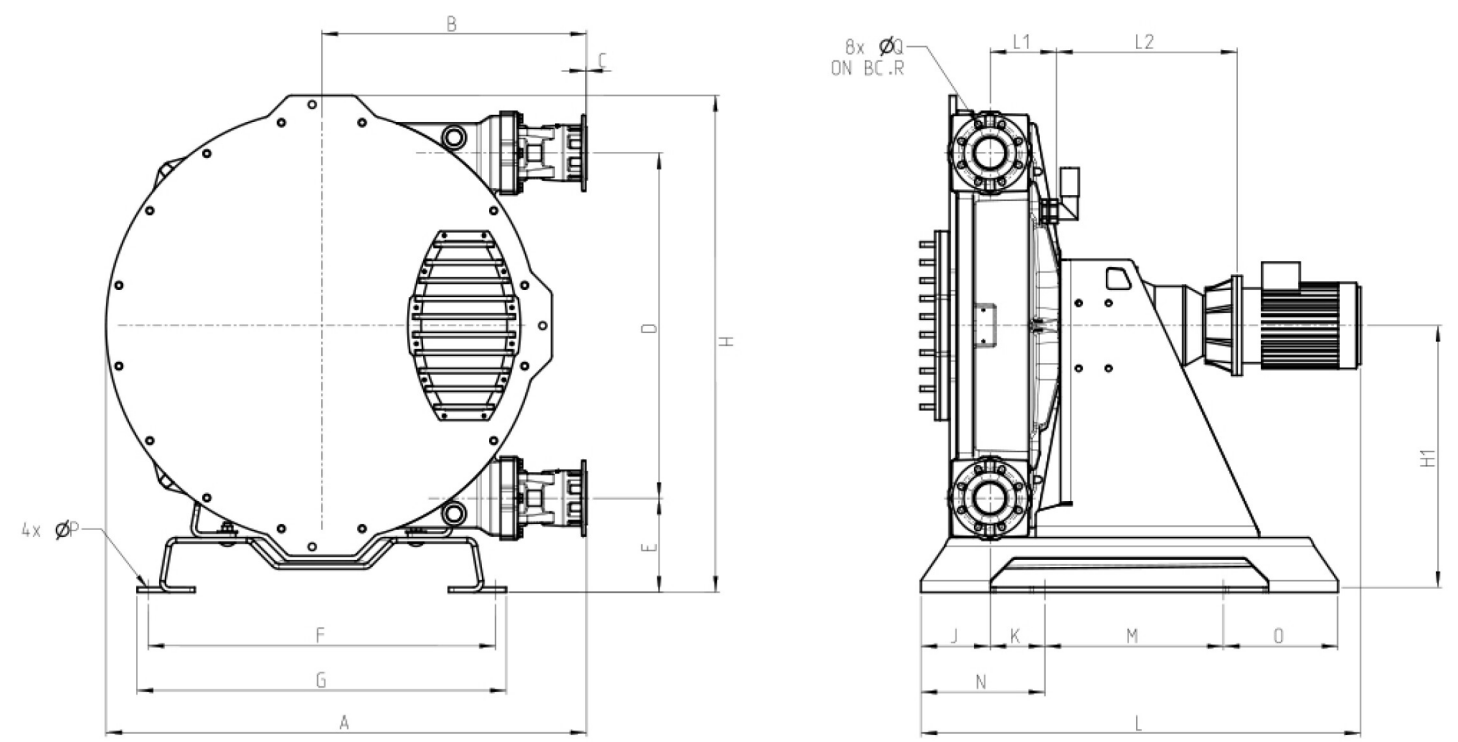
Please consult your Bredel representative for lower or higher temperature operation.

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

Materials of construction

	Bredel Heavy Duty 100
Hose material	CSM, EPDM, F-NBR, NBR, NBR for food, NR-Metering, NR-Transfer
Housing	Cast iron, ISO12944 category C4H, ISO12944 category C4M, ISO12944 category C5M
Rotor assembly	Cast iron, ISO12944 category C4M
Cover assembly	Cast iron, ISO12944 category C4M
Brackets and fasteners	Cast iron, Galvanised steel, ISO12944 category C4M, Stainless steel 316
Support frame	Galvanised steel, ISO12944 category C4H, ISO12944 category C5M, Stainless steel 316
Coupling bush	Alloy steel
Seals	Neoprene, Nitrile, Thermoplastic polyurethane
Window guard	ISO12944 category C4H, Steel

Bredel Heavy Duty 100 dimensions



Type	A	B	C	D	E	F	G	H	H1	J	K	Lmax	L1	L2max	M	N	O	ØP	ØQ	R
Bredel 100 (mm)	1452	800	3	1042	284	1050	1115	1500	790	209	165	1450	200	489	540	374	346	22	18	180
Bredel 100 (inches)	57.2	31.5	0.12	41	11.2	41.3	43.9	59.1	31.1	8.2	6.5	57.1	7.9	19.3	21.3	14.7	13.6	0.9	0.71	7.1
Connector sizes							ANSI 150#					EN DIN					JIS			
Bredel 100							4"					100mm					100mm			

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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