

Bredel Heavy Duty 80

Bredel Heavy Duty pumps



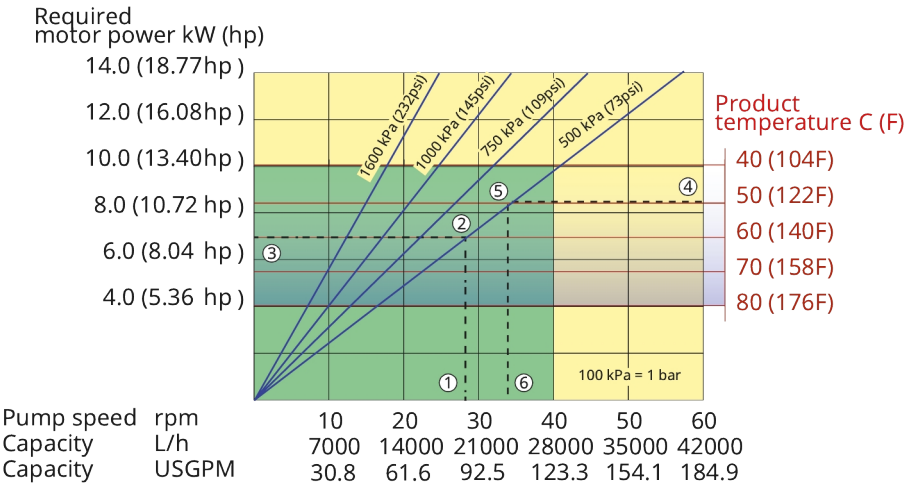
Features and benefits

- 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 80 performance

Bredel 80



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 80
Max. flow rate continuous	28080 L/h (7409 USGPH)
Max. flow rate intermittent	42120 L/h (11113 USGPH)
Volume per revolution	11.7 l (3.09 USG)
Max. continuous operating speed	40 rpm
Max. intermittent operating speed	60 rpm
Max. operating pressure	16 bar (232 psi)
Max. inlet pressure	1.5 bar abs (23 psi abs)
Max. suction capability	9 mWC (354 inWC)
Suction capability (80% Flow rate)	7 mWC (276 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	2000 N m (17701 in.lbs)
Weight	1141 kg (2516 lbs)
Heavy Duty bracket weight	15.3 kg
Heavy Duty bracket weight	33.7 lbs
Window guard weight	6.8 kg (14.9 lbs)
Heavy Duty support frame weight	290 kg (640 lbs)
Hose lubricant required	40 l (10.57 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

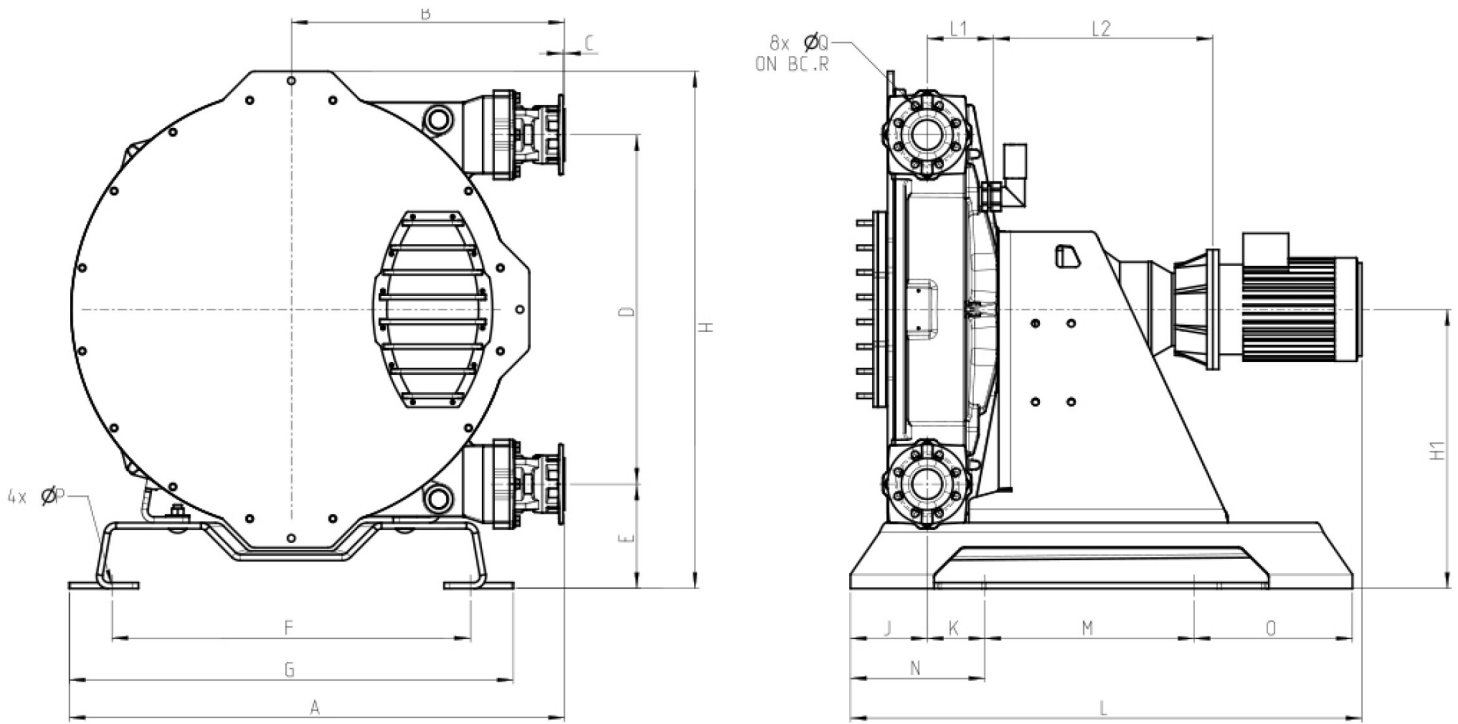
Please consult your Bredel representative for lower or higher temperature operation.

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

Materials of construction

	Bredel Heavy Duty 80
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 80 dimensions



Type	A	B	C	D	E	F	G	H	H1	J	K	Lmax	L1	L2max	M	N	O	ØP	ØQ	R
Bredel 80 (mm)	1244	686	4	876	262	900	1115	1298	700	193	145	1408	166	582	525	337	398	22	18	160
Bredel 80 (inches)	49.0	27.0	0.16	34.5	10.3	35.4	43.9	51.1	27.6	7.6	5.7	55.4	6.5	22.9	20.7	13.3	15.7	0.9	0.71	6.3
Connector sizes							ANSI 150#						EN DIN				JIS			
Bredel 80							3"						80mm				80mm			

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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