

CIP 25

Bredel CIP hose pumps 20-32

Bredel

Hose Pumps

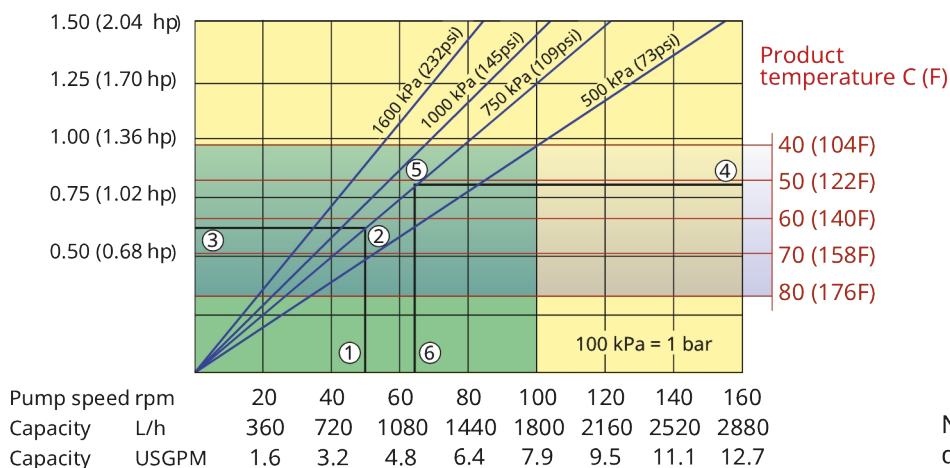
Features and benefits

- Enhanced hygiene: Meets all clean-in-place (CIP) requirements, ensuring system cleanliness
- Automated shoe retraction: Reverse the pump to retract shoes without manual work. Run the pump forward to effortlessly reengage shoes
- Reduced power usage: During cleaning, the CIP rotor allows the shoes to be retracted and the pump turned off
- Extended hose life: Reduce hose compressions, in particular, under high temperature/chemical cleaning process
- Retrofittable: Minimises investment costs by allowing easy rotor replacement



CIP 25 performance

Required
motor power kW (hp)



- Flow required indicates pump speed
- Calculated discharge pressure
- Net motor power required
- Product temperature
- Calculated discharge pressure
- Maximum recommended pump speed

- Continuous duty
- Intermittent duty

* Maximum 3 hours operation followed by minimum 1 hour stop

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.

Technical specifications

	CIP 25
Max. flow rate continuous	475 USGPH (1800 L/h)
Max. flow rate intermittent	723 USGPH (2740 L/h)
Volume per revolution	0.079 USG (0.3 L)
Max. continuous operating speed	100 rpm
Max. intermittent operating speed	155 rpm
Max. operating pressure	232 psi (16 bar)
Max. inlet pressure	51 psi abs (3.5 bar abs)
Max. suction capability	374 inWC (9.5 mWC)
Suction capability (80% Flow rate)	374 inWC (9.5 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	1018 in.lbs (115 N m)
Weight	203 lbs (92 kg)
Pumphead weight	110 lbs (50 kg)
Rotor weight	18 lbs (8 kg)
Hose lubricant required	0.53 USG (2 L)
Port configurations	Down, Left, Right, Up
Pumping direction	Clockwise, Counterclockwise
Compatible hose materials	CSM, EPDM, F-NBR, NBR, NBR for food, NR-Metering, NR-Transfer
Flange assembly type	ANSI, DIN, JIS
Sanitary connector options	DIN 11851, DIN 11864, IDF, RJT, SMS, Tri-clamp

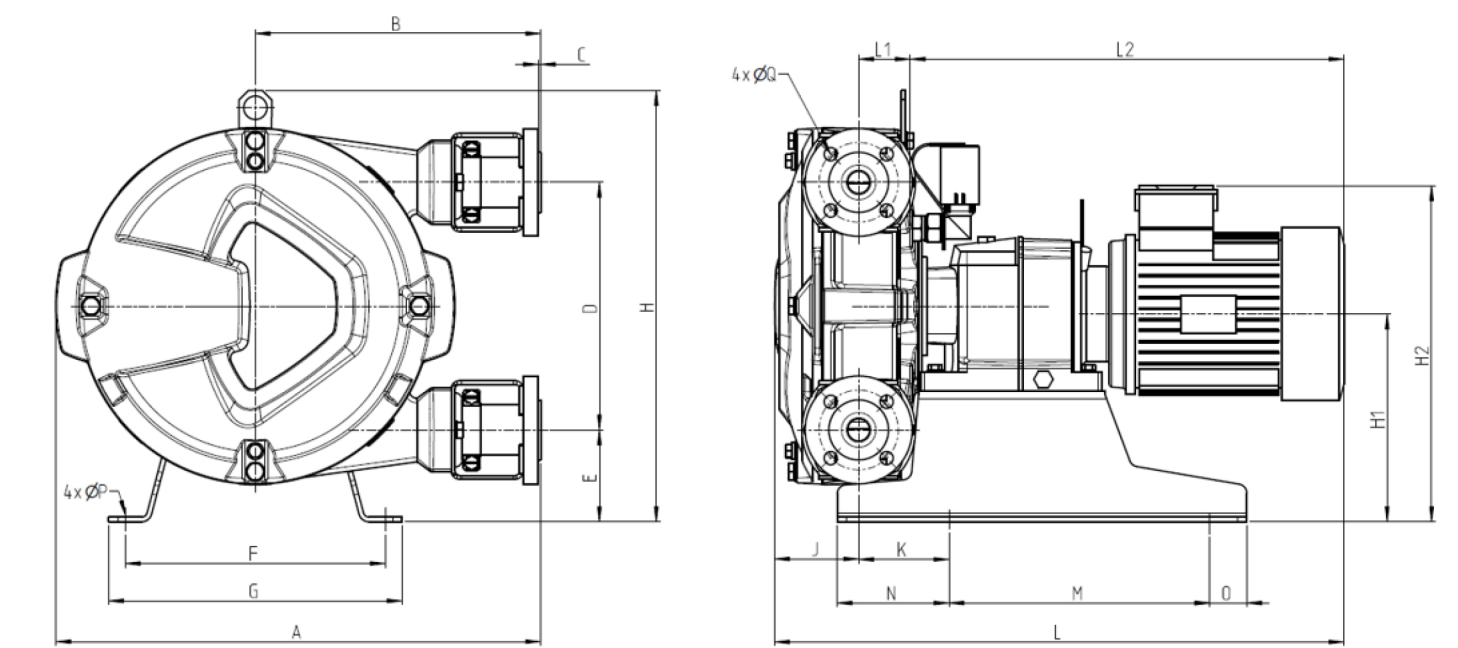
Please consult your Bredel representative for lower or higher temperature operation.

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

Materials of construction

	CIP 25
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
Coupling bush	Alloy steel
Seals	EPDM, NBR
Shoe material	Steel

CIP 25 dimensions



Type	A	B	C	D	E	F	G	H	H1	H2max	J	K	Lmax	L1	L2max	M	N	O	ØP	ØQ	R
Bredel 25 (mm)	521	304	2.5	264	98	279	315	460	222	359	90	97	616	58	468	305	120	15	12	14	85
Bredel 25 (inches)	20.5	12	0.09	10.4	3.9	11	12.4	18.1	8.7	14.1	3.5	3.8	24.3	2.3	18.4	12	4.7	0.6	0.47	0.6	3.3
Connector sizes									ANSI 150#					EN DIN				JIS			
Bredel 25									1"					25mm				25mm			

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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