

CIP 20

Bredel CIP hose pumps 20-32

Bredel

Hose Pumps

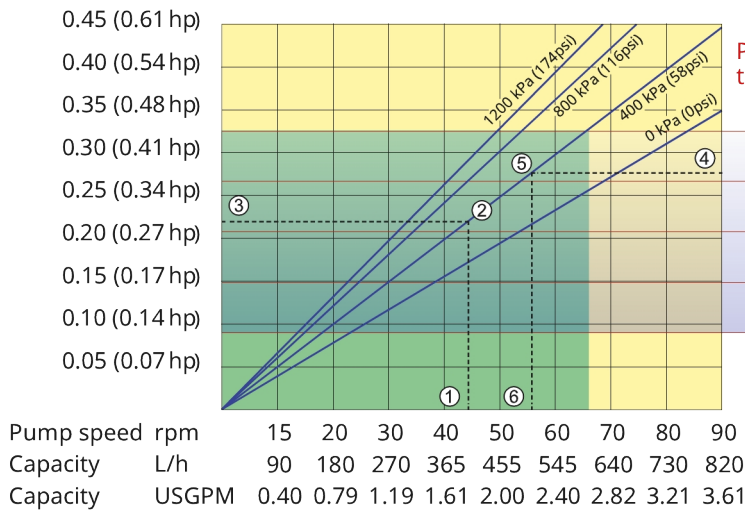
Features and benefits

- 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 20 performance

Required motor power kW (hp)



Product temperature C (F)

40 (104F)
50 (122F)
60 (140F)
70 (158F)
80 (176F)

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.

- 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

Technical specifications

	CIP 20
Max. flow rate continuous	600 L/h (158 USGPH)
Max. flow rate intermittent	820 L/h (216 USGPH)
Volume per revolution	0.152 L (0.0402 USG)
Max. continuous operating speed	65 rpm
Max. intermittent operating speed	90 rpm
Max. operating pressure	10 bar (145 psi)
Max. inlet pressure	2 bar abs (30 psi abs)
Max. suction capability	9.5 mWC (374 inWC)
Suction capability (80% Flow rate)	9.5 mWC (374 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	85 N m (752 in.lbs)
Weight	42 kg (93 lbs)
Pumphead weight	25.2 kg (56 lbs)
Rotor weight	5.8 kg (13 lbs)
Hose lubricant required	0.7 L (0.2 USG)
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

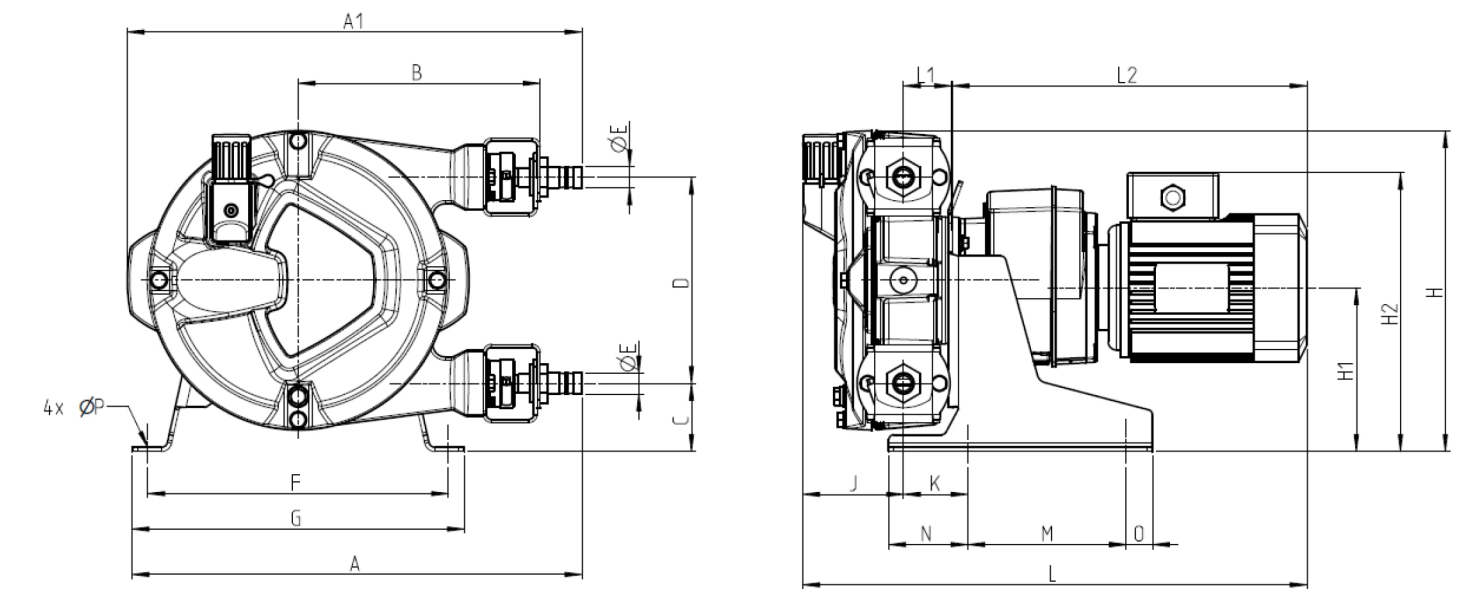
Please consult your Bredel representative for lower or higher temperature operation.

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

Materials of construction

	CIP 20
Hose material	CSM, EPDM, F-NBR, NBR, NBR for food, NR-Metering, 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	Stainless steel 316
Support frame	Galvanised steel, Stainless steel 316
Hose clamps	Stainless steel 316
Coupling bush	Alloy steel
Seals	EPDM, NBR
Shoe material	Steel

CIP 20 dimensions



Type	A	A1	B	C	D	ØE	F	G	H	H1	H2max	J	K	Lmax	L1	L2max	M	N	O	ØP
Bredel CIP 20 (mm)	427	431	230	63	195	20/25.5	285	315	304	167	294	96	61	519	46	378	150	75	25	12
Bredel CIP 20 (inches)	16.8	17.0	9.1	2.5	7.7	0.8/1.0	11.2	12.4	12.0	6.6	11.6	3.8	2.4	20.4	1.8	14.9	5.9	3.0	1.0	0.5
Connector sizes										MNPT			EN DIN			JIS				
Bredel CIP 20										0.75"			20mm			20mm				

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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