

Bredel 40 and Bredel 50 hose pumps

Bredel

SERIES
Bredel Hose Pumps

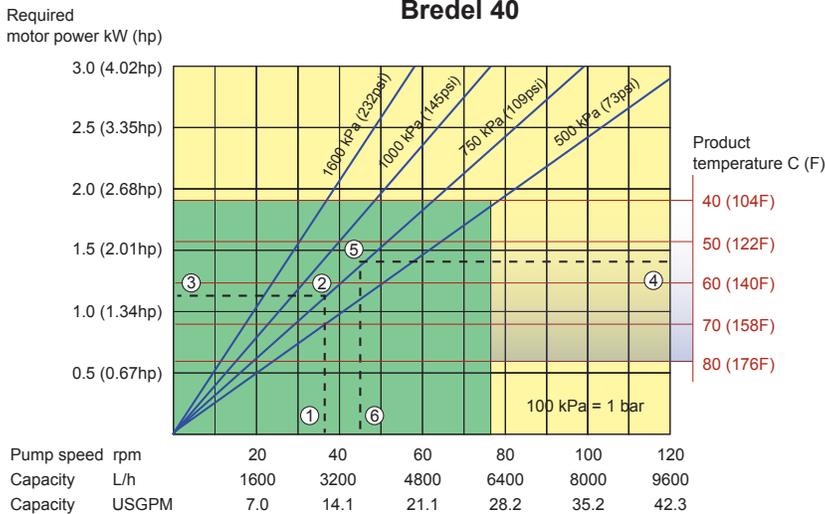
FEATURES AND BENEFITS

- Sealless, valveless pumping principle for reliable, low maintenance metering, dosing and transfer
- Flow rates up to 17,500 L/hr (77.1 GPM) and pressures up to 16 bar (232 psi)
- Dry running and self-priming, with up to 9.5 meters (30 foot) suction lift capability
- Robust design for aggressive chemicals or abrasives
- Compact direct coupled design to maximize gearbox life
- Simple hose change decreases cost of ownership, downtime and need for parts inventory

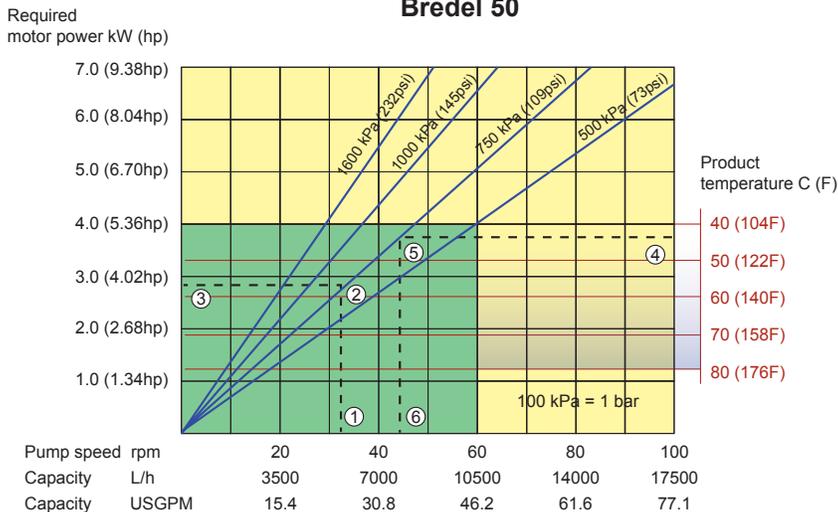


PERFORMANCE

Bredel 40



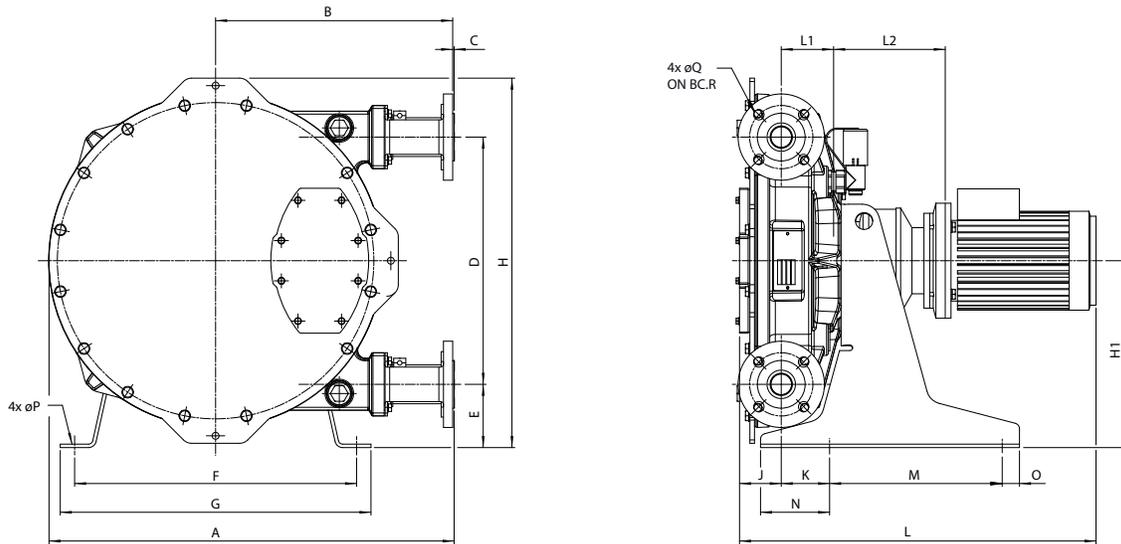
Bredel 50



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

Note: The area of continuous operation diminishes with increased product temperatures.
For product temperatures >40C (104F), the area of continuous operation is limited by the corresponding red temperature line.

DIMENSIONS



Type	A	B	C	D	E	F	G	H	H1	J	K	Lmax	L1	L2max	M	N	O	ØP	ØQ	R
Bredel 40 (mm)	705	412	2.5	430	110	490	540	643	325	73	84	906	91	301	300	120	30	18	18	110
Bredel 40 (inches)	27.8	16.2	0.09	16.9	4.3	19.3	21.3	25.3	12.8	2.9	3.3	35.7	3.6	11.9	11.8	4.7	1.2	0.71	0.71	4.3
Bredel 50 (mm)	838	475	3	554	143	620	680	811	420	84	95	975	112	339	380	155	40	18	18	125
Bredel 50 (inches)	32.9	18.7	0.12	21.8	5.6	24.4	26.8	31.9	16.5	3.3	3.7	38.4	4.4	13.3	15	6.1	1.6	0.71	0.71	4.9

TECHNICAL SPECIFICATIONS

	Bredel 40	Bredel 50
Flow range	up to 9,600 L/hr (42.27 GPM)	up to 17,500 L/hr (77.05 GPM)
Capacity	1.33 L/rev (0.35 G/rev)	2.92 L/rev (0.77 G/rev)
Minimum starting torque	320Nm (2,832 inch-lbs)	620Nm (5,487 inch-lbs)
Hose lubricant required	5 liters (1.32 G)	10 liters (2.64 G)
Pumphead weight	121 kg (267 lbs)	227 kg (500 lbs)
Common features		
Max inlet pressure	2.5 bar abs (38 psi)	
Suction pressure	0.05 bar abs (0.73 psi)	
Maximum discharge pressure	1,600 kPa (16 bar) (232 psi)	
Product temperature range*	-10C up to 80C (14F up to 176F)	
Ambient temperature range**	-20C up to 45C (-4F up to 113F)	

*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

Components	Materials	Options	Features
Pump housing	Cast iron	Available hose materials	NR, NBR, F-NBR, EPDM, CSM
Rotor	Cast iron	Available flanges	ANSI, EN DIN, JIS
Pressing shoes	Aluminium or epoxy	Available inserts	Bredel standard or with sanitary connectors
Cover	Mild steel	High level float switch	Max. 2A, 230 V AC/DC, max. 40VA
Brackets	Galvanized steel or AISI 316	Low level float switch	ATEX: max. 50 mA, max. 28V AC/DC
Flanges	Galvanized steel or AISI 316	Integrated FI for stand alone speed control	Factory programmable from 12-80 Hz
Inserts	AISI 316, PVC, PP, PVDF	Revolution counter	For maintenance intervals and /or metering
Support frame	Galvanized steel or AISI 316	Vacuum assist	For difficult suction conditions and high viscosity fluids
Hose clamps	Galvanized steel or AISI 316	Cover lifting device	For one-man pump maintenance
Shaft	Alloy steel		
Seals	Neoprene or nitrile		

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Bredel
Hose Pumps

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