QLINE 20

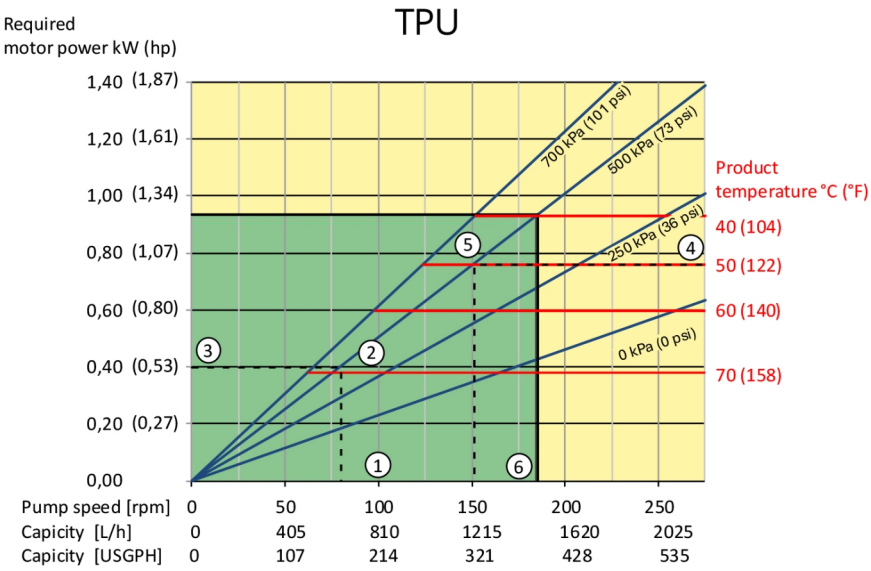
Bredel QLINE

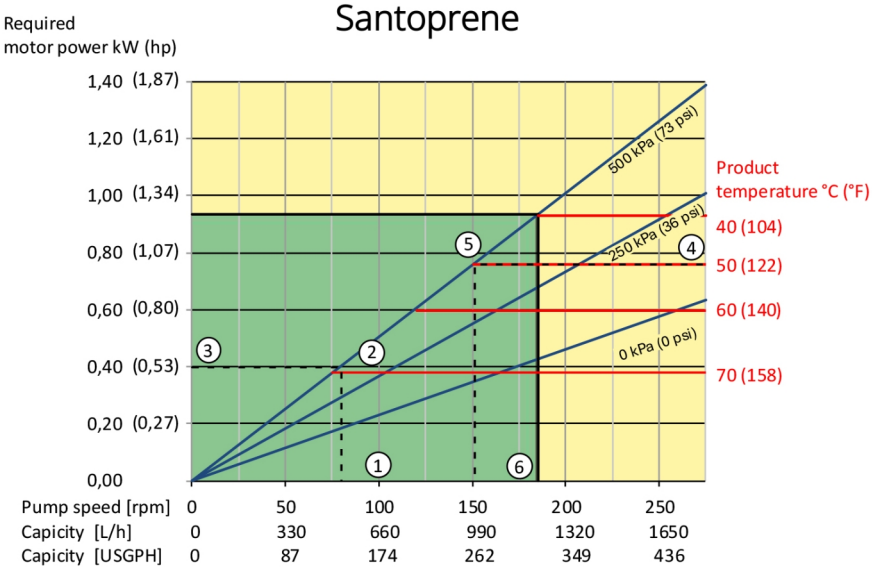
Features and benefits

- Higher, smoother flow without increasing installation space
- Minimised pulsation improves dosing accuracy and process stability
- Quick in-situ tube replacement increases uptime and supports safer maintenance
- Reduced pressure fluctuations help extend equipment lifetime and lower maintenance costs
- Built for long service life when handling abrasive, viscous, corrosive, and gaseous fluids
- Broad chemical compatibility and high turndown capability support a wide range of applications
- Consistent fluid velocity helps reduce product settlement and minimise pipeline disruption



QLINE 20 performance





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.

Continuous duty

Intermittent duty*

* Maximum 3 hours of operation followed by minimum 1 hour stop

1. Flow required indicates pump speed
2. Calculated discharge pressure
3. Net motor power required
4. Product temperature
5. Calculated max discharge pressure
6. Maximum recommended pump speed

Technical specifications

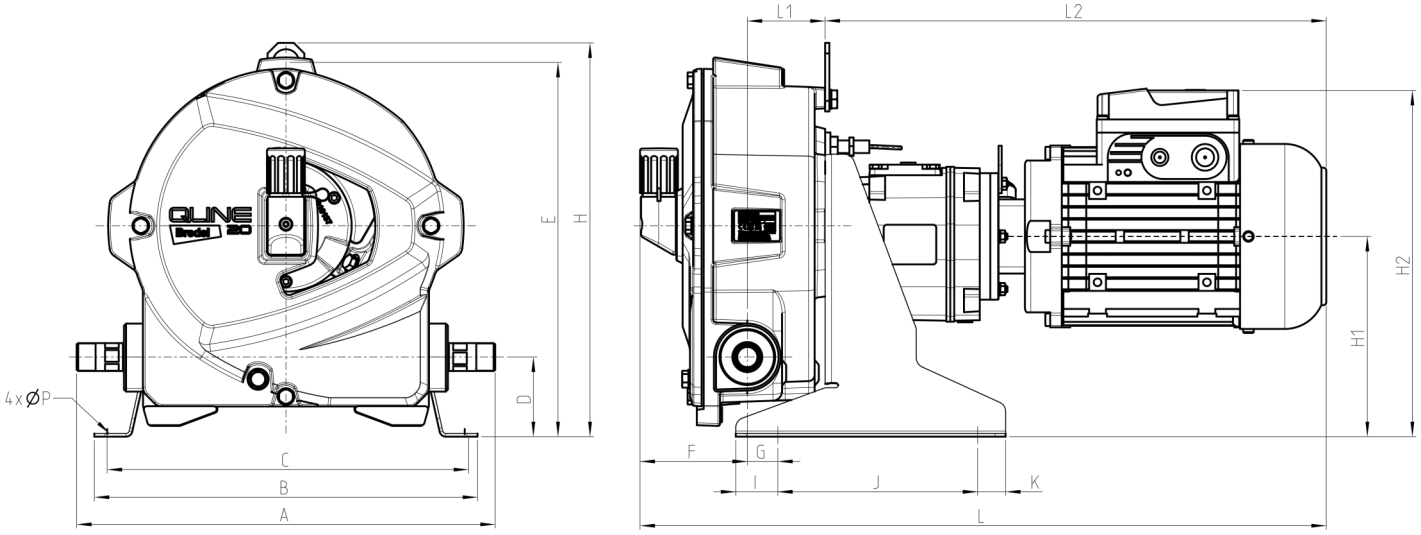
	QLINE 20
Max. flow rate continuous	396 USGPH (1500 L/h)
Max. flow rate intermittent	554 USGPH (2100 L/h)
Volume per revolution	0.036 USG (0.135 L)
Max. continuous operating speed	185 rpm
Max. intermittent operating speed	260 rpm
Max. operating pressure	100 psi (7 bar)
Max. inlet pressure	45 psi abs (3 bar abs)
Max. suction capability	354 inWC (9 mWC)
Operating temperature	32 °F to 113 °F (0 °C to 45 °C)
Fluid temperature	41 °F to 122 °F (5 °C to 50 °C)
Min. starting torque	1239 in.lbs (140 N m)
Noise	1m [dB(A)] <70
Weight	135 lbs (61 kg)
Hose lubricant required	0.4 USG (1.5 L)
Inlet/outlet Connections	BSP 3/4", Flanges ANSI, Flanges DIN, Hose tail, NPT 3/4"
Pumping direction	Clockwise, Counterclockwise
Compatible tube materials	Santoprene, TPU

Maximum flow, maximum operating pressure and starting torque depend on tube element chosen. Please see the Product Reference Manual for more details.
Please consult your Bredel representative for lower or higher temperature operation.

Materials of construction

	QLINE 20
Housing	Cast iron, ISO12944 category C4M
Rotor assembly	Cast iron with Nitrox surface treatment
Cover assembly	Cast iron, ISO12944 category C4M
Fasteners	Stainless steel 316
Support frame	Galvanized steel, Stainless steel 316
Coupling bush	Alloy steel
Seals	EPDM, NBR
Shoe material	POM-C

QLINE 20 dimensions



Type	A	B	C	D	E	F	G	H	H1	H2 max	I	J	K	Lmax	L1	L2max	ØP
QLINE 20 (mm)	398.0	364.5	343.7	75.0	354.5	102.0	29.0	373.0	187.6	326.4	40.0	190.0	26.6	652.5	74.0	476.5	10.0
QLINE 20 (inches)	15.7	14.4	13.5	3.0	14.0	4.0	1.1	14.7	7.4	12.9	1.6	7.5	1.0	25.7	2.9	18.8	0.4

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.