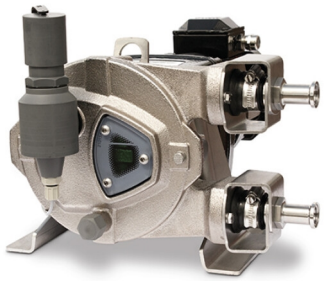
DuCoNite20

Bredel DuCoNite® pumps

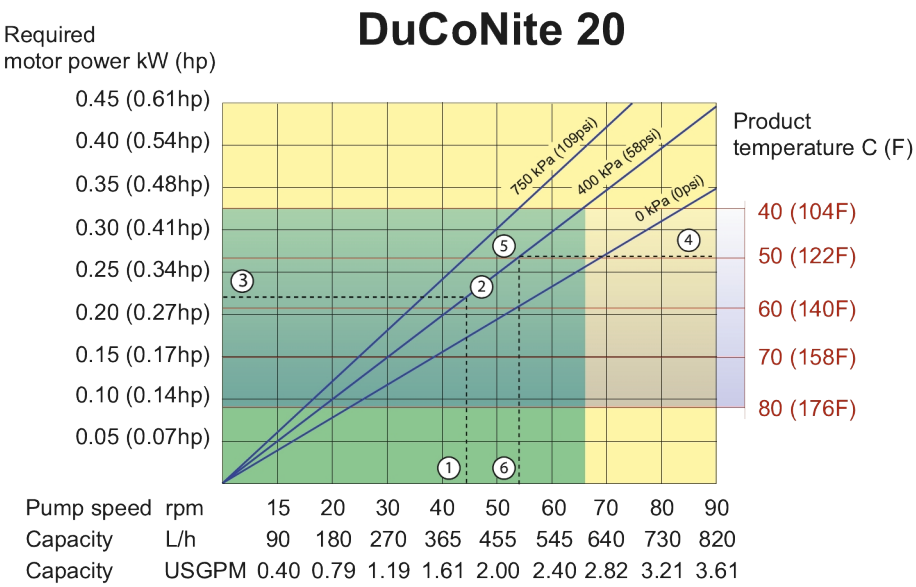
Bredel Hose Pumps

Features and benefits

- Dry running and self-priming
- Suction capability up to 9.5 mWC (374 inWC)
- Simple hose change decreases cost of ownership, downtime and need for parts inventory
- “Beyond the hose” protection against common water and waste water treatment chemicals
- Paint-free pump housing perfect for wash-down in the food industry
- No slippage, allowing true positive displacement for accurate, repeatable metering
- No ancillary equipment, check valves, sealing water flush systems or run-dry protection required
- Fully reversible to blow out suction and drain lines safely



DuCoNite20 performance



Pump speed	rpm	15	20	30	40	50	60	70	80	90
Capacity	L/h	90	180	270	365	455	545	640	730	820
Capacity	USGPM	0.40	0.79	1.19	1.61	2.00	2.40	2.82	3.21	3.61

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

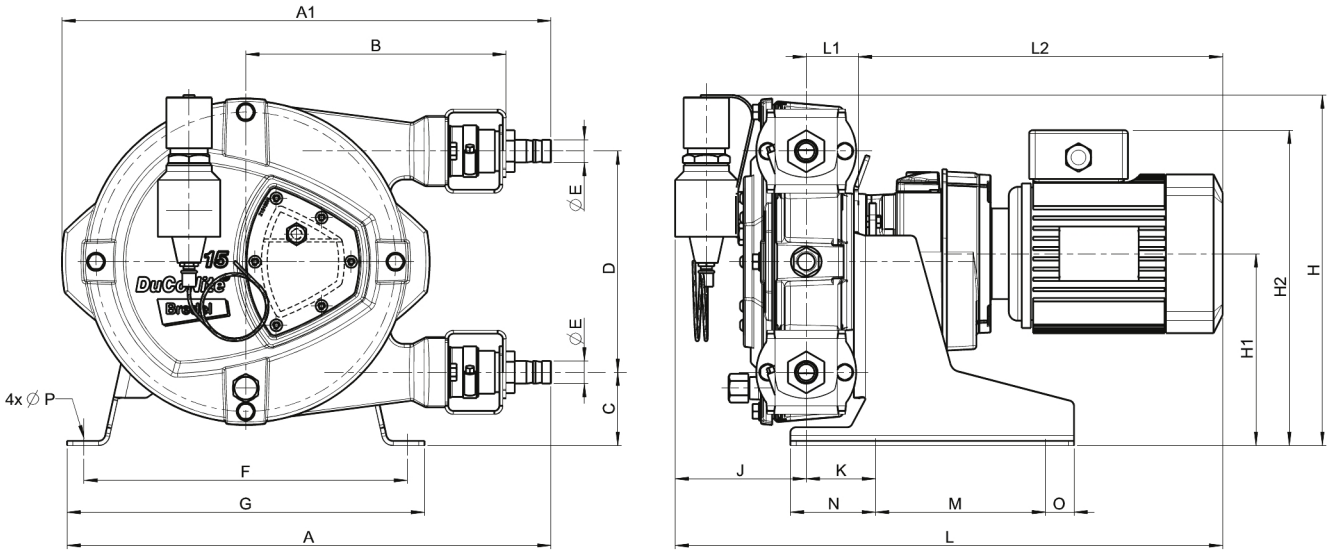
	DuCoNite20
Max. flow rate continuous	600 L/h (158 USGPH)
Max. flow rate intermittent	820 L/h (216 USGPH)
Volume per revolution	0.152 l (0.0402 USG)
Max. continuous operating speed	65 rpm
Max. intermittent operating speed	90 rpm
Max. operating pressure	10 bar (145 psi)
Suction pressure	0.05 bar abs
Suction pressure	0.73 psi abs
Max. inlet pressure	2 bar abs (30 psi abs)
Max. suction capability	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	45 kg (99 lbs)
Hose lubricant required	1 l (0.26 USG)
Port configurations	Down, Left, Right, Up
Compatible hose materials	CSM, EPDM, F-NBR, NBR, NBR for food, NR, NR-Metering, NR-Transfer
Flange assembly type	ANSI, DIN

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

	DuCoNite20
Hose material	CSM, EPDM, F-NBR, Natural rubber (NR), NBR, NBR for food, NR-Metering, NR-Transfer
Housing	Cast iron with DuCoNite surface treatment
Rotor assembly	Cast iron with DuCoNite surface treatment
Cover assembly	Cast iron with DuCoNite surface treatment
Brackets and fasteners	Stainless steel 316
Support frame	Stainless steel 316
Hose clamps	Stainless steel 316
Coupling bush	Alloy steel
Seals	EPDM

DuCoNite20 dimensions



Type	A	A1	B	C	D	ØE	F	G	H	H1	H2max	J	K	Lmax	L1	L2max	M	N	O	ØP
DuCoNite 20 (mm)	427	431	230	63	195	20	285	315	304	167	294	82	61	505	46	378	150	75	25	12
DuCoNite 20 (inches)	16.8	17.0	9.1	2.5	7.7	20mm	11.2	12.4	12.0	6.6	11.6	3.2	2.4	19.9	1.8	14.9	5.9	3.0	1.0	12mm

Connector sizes	ANSI 150#	EN DIN	JIS
DuCoNite 20	0.75”	20mm	20mm

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