

DuCoNite10

Bredel DuCoNite® pumps

Bredel

Hose Pumps

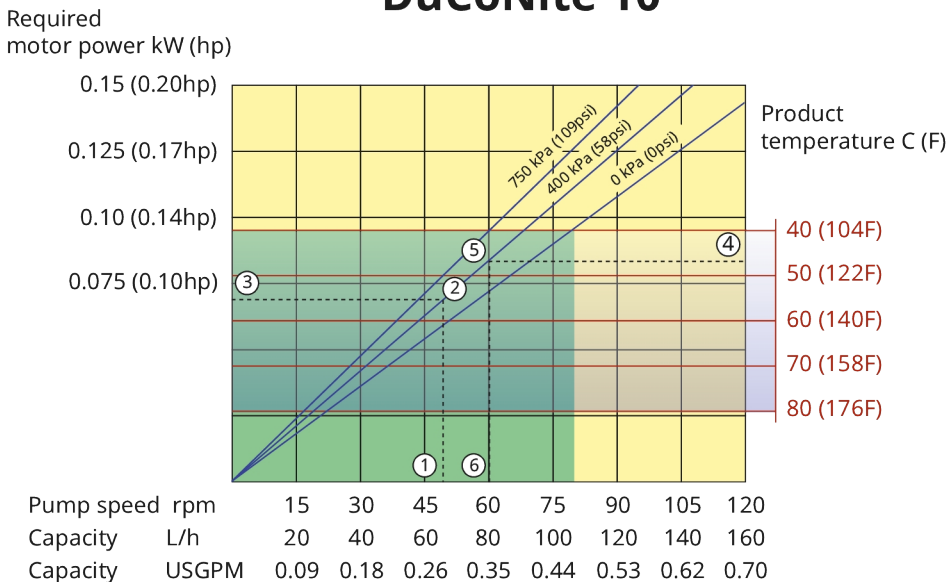
Features and benefits

- 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 and 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



DuCoNite10 performance

DuCoNite 10



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, the area of continuous operation reduces to the corresponding red temperature line.

- Continuous duty
- Intermittent duty

* Maximum 3 hours operation followed by minimum 1 hour stop

Technical specifications

	DuCoNite10
Max. flow rate continuous	105 L/h
Max. flow rate continuous	28 USGPH
Max. flow rate intermittent	160 L/h
Max. flow rate intermittent	42 USGPH
Volume per revolution	0.022 L
Volume per revolution	0.0058 USG
Max. continuous operating speed	80 rpm
Max. intermittent operating speed	120 rpm
Max. operating pressure	12 bar
Max. operating pressure	174 psi
Suction pressure	0.05 bar abs
Suction pressure	0.73 psi abs
Max. inlet pressure	2 bar abs
Max. inlet pressure	30 psi abs
Max. suction capability	9.5 mWC
Max. suction capability	374 inWC
Operating temperature range	-20 to 45 °C
Operating temperature range	-4 to 113 °F
Fluid temperature range	-20 to 80 °C
Fluid temperature range	-4 to 176 °F
Min. starting torque	47 N m
Min. starting torque	416 in.lbs
Weight	30 kg
Weight	66 lbs
Hose lubricant required	0.5 L
Hose lubricant required	0.13 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

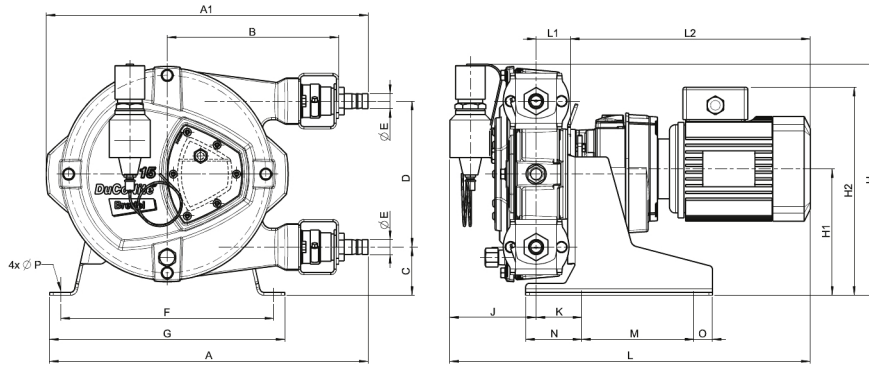
Please consult your Bredel representative for lower or higher temperature operation.

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

Materials of construction

	DuCoNite10
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

DuCoNite10 dimensions



Type	A	A1	B	C	D	ØE	F	G	H	H1	H2max	J	K	Lmax	L1	L2max	M	N	O	ØP
DuCoNite 10 (mm)	337	311	171	62	116	16	235	265	225	127	254	78	51	501	46	378	150	65	25	12
DuCoNite 10 (inches)	13.3	12.2	6.7	2.44	4.6	16mm	9.3	10.4	8.9	5.0	10.0	3.1	2	19.7	1.8	14.9	5.9	2.6	1.0	12mm
Connector sizes							ANSI 150#						EN DIN				JIS			
DuCoNite 10							0.5"						10mm				10mm			

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