## DuCoNite10

Bredel DuCoNite® pumps

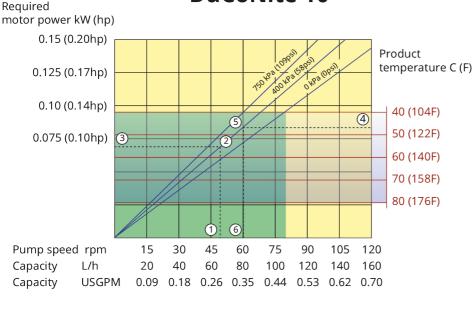
# Hose Pumps

#### **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

### **DuCoNite10 performance**

## **DuCoNite 10**



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

- 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

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 °C to 45 °C										
Operating temperature range	-4 °F to 113 °F										
Fluid temperature range	-20 °C to 80 °C										
Fluid temperature range	-4 °F 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										
	vo for lower or higher temperature energies										

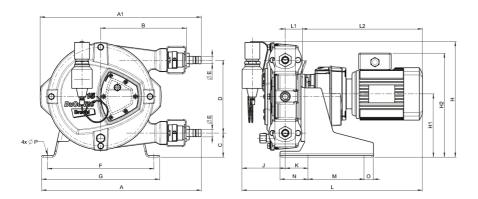
Please consult your Bredel representative for lower or higher temperature operation.

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**



Туре	Α	A1	В	С	D	ØE	F	G	Н	H1	H2max	J	K	Lmax	L1	L2max	М	N	0	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	JIS		
DuCoNite 10							0.5"						10mm				10m	10mm		

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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