

# DuCoNite20

Bredel DuCoNite® pumps

**Bredel**

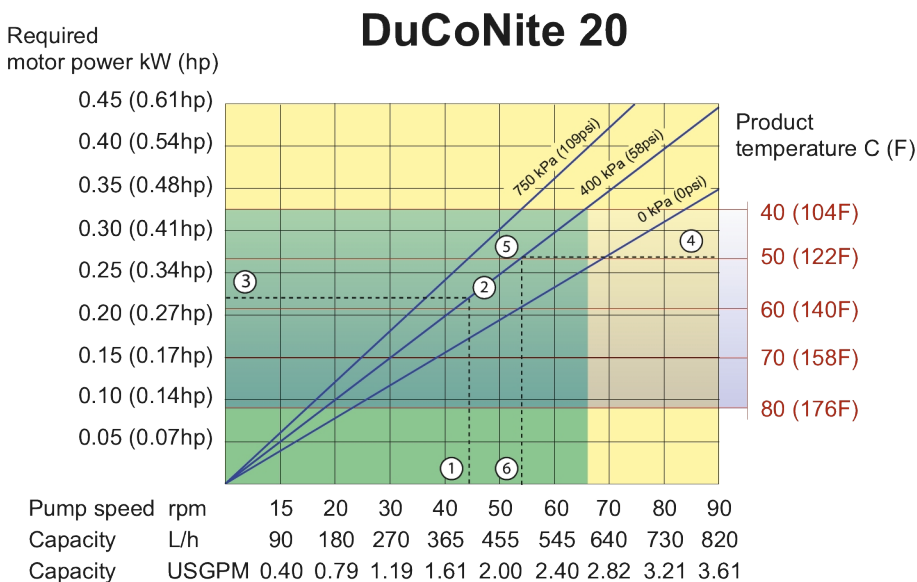
Hose Pumps

## 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 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



## DuCoNite20 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.

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
Max. flow rate continuous	158 USGPH
Max. flow rate intermittent	820 L/h
Max. flow rate intermittent	216 USGPH
Volume per revolution	0.152 L
Volume per revolution	0.0402 USG
Max. continuous operating speed	65 rpm
Max. intermittent operating speed	90 rpm
Max. operating pressure	10 bar
Max. operating pressure	145 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	85 N m
Min. starting torque	752 in.lbs
Weight	45 kg
Weight	99 lbs
Hose lubricant required	1 L
Hose lubricant required	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
<b>Connector sizes</b>							<b>ANSI 150#</b>						<b>EN DIN</b>				<b>JIS</b>			
DuCoNite 20							0.75"						20mm				20mm			

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