# **APEX 20**

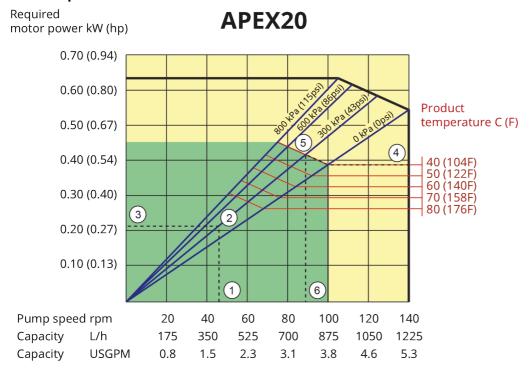
APEX hose pumps



#### **Features and benefits**

- Seal-less, valve-less design
- Precision machined hose elements for accurate, repeatable performance
- Optimised hose compression for unmatched flow stability
- Direct-coupled drive and maximum flexibility no separate couplings to align or maintain
- Ultra compact design with flexibility to mount standard gear motors rotor supported by own bearings to maximise gearbox life
- Lower maintenance costs single component change means fewer spare parts inventory

### **APEX 20 performance**



- 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



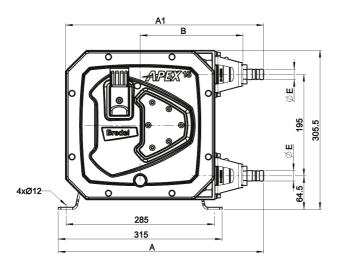
\* Maximum 3 hours operation followed by minimum 1 hour stop

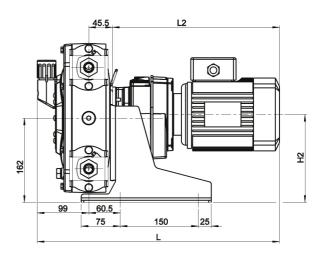
## **Technical specifications**

	APEX 20
Max. flow rate continuous	875 L/h
Max. flow rate continuous	231 USGPH
Max. flow rate intermittent	1225 L/h
Max. flow rate intermittent	323 USGPH
Volume per revolution	0.145 L
Volume per revolution	0.038 USG
Max. continuous operating speed	100 rpm
Max. intermittent operating speed	140 rpm
Max. operating pressure	8 bar
Max. operating pressure	116 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
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	57 N m
Min. starting torque	505 in.lbs
Weight	40 kg
Weight	88 lbs
Hose lubricant required	1L
Hose lubricant required	0.26 USG
Port configurations	Down, Left, Right, Up
Compatible hose materials	CSM, EPDM, F-NBR, NBR, NBR for food, NR
Flange assembly type	ANSI, DIN

## **Materials of construction**

	APEX 20			
Hose material	CSM, EPDM, F-NBR, Natural rubber (NR), NBR, NBR for food			
Housing	Die-cast aluminium (RAL 3011)			
Rotor assembly	Cast iron			
Cover assembly	Die-cast aluminium, EPDM, PMMA			
Brackets and fasteners	Stainless steel 316			
Support frame	Galvanised steel			
Hose clamps	Stainless steel 316			
Coupling bush	Alloy steel			
Seals	EPDM, NBR			





	Α	A1	В		E	H2max	Lmax		L2max	
APEX20 (mm)	394.5	380.5	197.5		Ø20	170	545.5		401	
APEX20 (inches)	15.5	15	7.8		3/4" NPT	6.7	21.5		15.8	
Connector sizes				MNPT		EN DIN		JIS		
APEX20				0.75"		20mm 2		20mm	mm	

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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