

# APEX 10

APEX hose pumps

**Bredel**

Hose Pumps

## Features and benefits

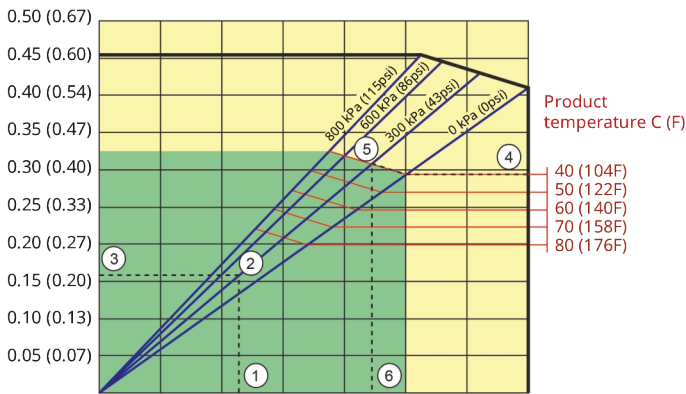
- Seal-less, valve-less design
- Precision machined hose elements for accurate, repeatable performance
- Optimised hose compression for unmatched flow stability
- Direct-coupled drive and maximum flexibility - no separate couplings to align or maintain
- Ultra compact design with flexibility to mount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



## APEX 10 performance

Required motor power kW (hp)

### APEX10



Pump speed rpm	20	40	60	80	100	120	140
Capacity L/h	55	110	165	220	275	330	385
Capacity USGPM	0.24	0.48	0.73	0.97	1.2	1.5	1.7

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

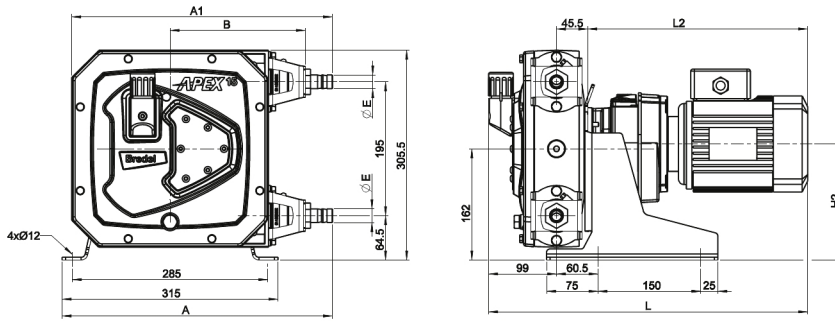
## Technical specifications

	APEX 10
Max. flow rate continuous	275 L/h
Max. flow rate continuous	73 USGPH
Max. flow rate intermittent	385 L/h
Max. flow rate intermittent	102 USGPH
Volume per revolution	0.046 L
Volume per revolution	0.0122 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 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	48 N m
Min. starting torque	425 in/lbs
Weight	40 kg
Weight	88 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
Flange assembly type	ANSI, DIN

## Materials of construction

	APEX 10
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

## APEX 10 dimensions



	A	A1	B	E	H2max	Lmax	L2max
APEX10 (mm)	388.5	374.5	197.5	Ø16	170	545.5	401
APEX10 (inches)	15.3	17.7	7.8	1/2" NPT	6.7	18.7	14.5
<b>Connector sizes</b>				<b>MNPT</b>	<b>EN DIN</b>	<b>JIS</b>	
APEX10				0.5"	10mm	10mm	

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28 June 2023