

# APEX 35

APEX hose pumps

**Bredel**

Hose Pumps

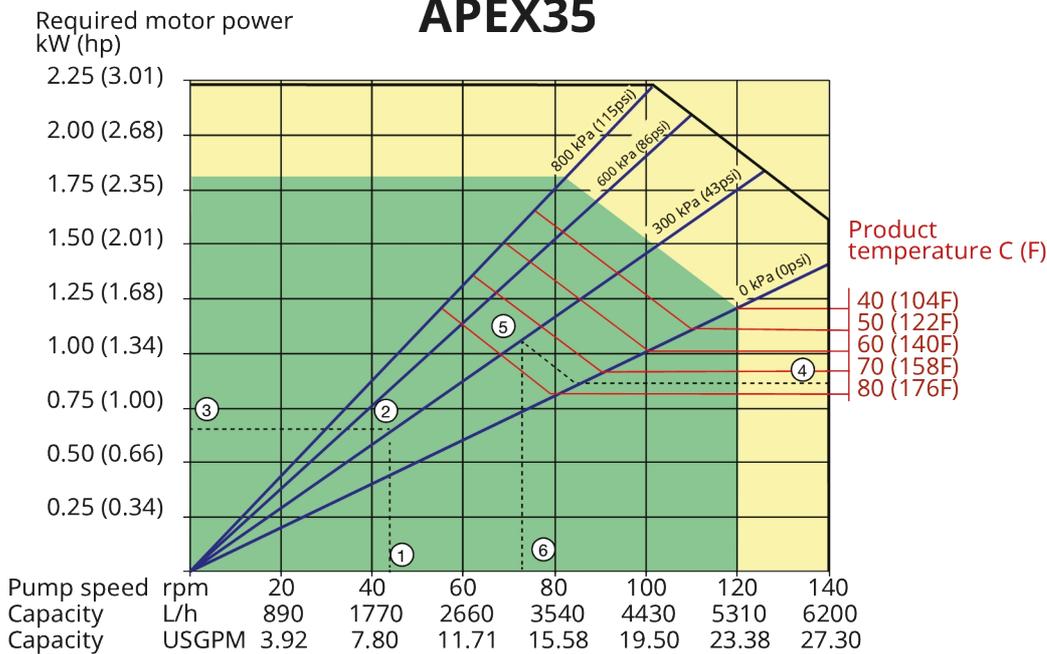
## Features and benefits

- 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 35 performance

### APEX35



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

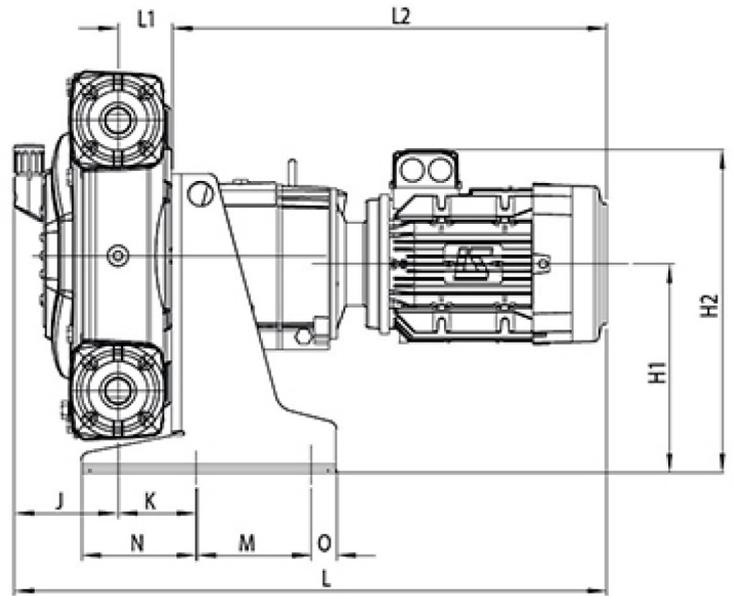
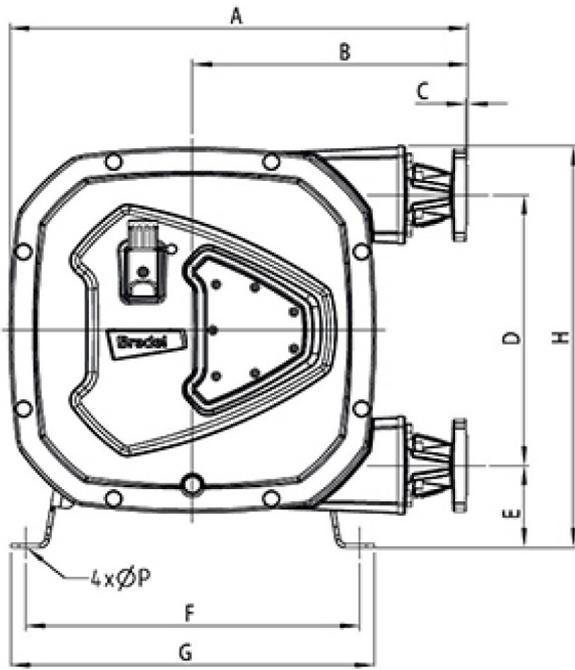
## Technical specifications

	APEX 35
Max. flow rate continuous	5310 L/h (1401 USGPH)
Max. flow rate intermittent	6200 L/h (1636 USGPH)
Volume per revolution	0.74 l (0.195 USG)
Max. continuous operating speed	120 rpm
Max. intermittent operating speed	140 rpm
Max. operating pressure	8 bar (116 psi)
Suction pressure	0.05 bar abs
Suction pressure	0.73 psi abs
Max. inlet pressure	2.5 bar abs (37 psi abs)
Operating temperature	-20 °C to 45 °C (-4 °F to 113 °F)
Fluid temperature	-20 °C to 80 °C (-4 °F to 176 °F)
Min. starting torque	230 N m (2040 in.lbs)
Weight	140 kg (309 lbs)
Port configurations	Down, Left, Right, Up
Compatible hose materials	EPDM, NBR, NBR for food, NR
Flange assembly type	ANSI, DIN, JIS

## Materials of construction

	APEX 35
Hose material	EPDM, Natural rubber (NR), NBR, NBR for food
Housing	Cast iron
Rotor assembly	Die-cast aluminium
Cover assembly	Die-cast aluminium
Brackets	Cast iron, Stainless steel AISI 316
Fasteners	Galvanised steel, Stainless steel AISI 316
Support frame	Galvanised steel, Stainless steel AISI 316
Coupling bush	Alloy steel
Seals	NBR

## APEX 35 dimensions



	A	B	C	D	E	F	G	H	H1	H2max	J	K	Lmax	L1	L2max	M	N	O	ØP	
APEX35 (mm)	557	335	2.5	330	100	406	442	490	255	373	126	95	734	66	528	140	140	30	12	
APEX35 (inch)	21.9	13.2	0.1	13.0	3.9	16.0	17.4	19.3	10.0	14.7	5.0	3.7	28.9	2.6	20.8	5.5	5.5	1.2	0.5	
<b>Connector sizes</b>	<b>ASME B16.5, 150# (ANSI)</b>							<b>EN 1092-1, PN40 (DIN)</b>					<b>JIS B2220, 10/16/20 kgf/cm<sup>2</sup></b>							
APEX35	DN 1.5"							DN 32					32mm							

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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