

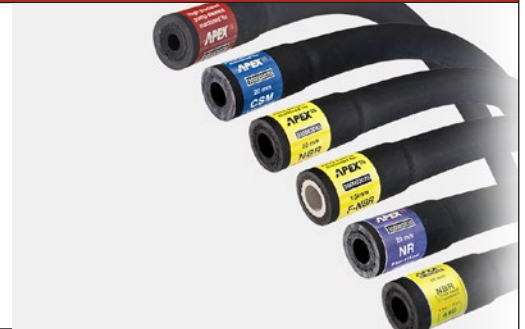
APEX hose pump elements



Bredel Hose Pumps

FEATURES AND BENEFITS

- Optimised for exceptional pumping performance of abrasive slurries and aggressive chemicals
- The hose is the only wearing part that contacts the fluid
- Precision machined for accurate, repeatable performance and maximum hose life
- Consistent volumetric accuracy of 99% and 9.5m (30ft) suction lift, independent of suction and discharge conditions
- Tight wall thickness tolerances for low stress on bearings – perfect compression for long hose life
- Pressure capability up to 8 bar (116psi).



1. Rough hose surface prior to machining.
2. Precision machined NR outer layer.
3. Two or four nylon cord reinforcement layers.
4. Inner layer available in NR, EPDM, NBR, F-NBR or CSM.

HOSE MATERIALS

		Medium temperature	Examples of compatible media*
NR	<ul style="list-style-type: none"> • Outstanding abrasion resistance. • Generally resistant to diluted acids and alcohols. 	Max. 80C (176F) Min. -20C (-4F)	<ul style="list-style-type: none"> • Sludge with up to 85% solids • Magnesium oxide and titanium dioxide • Water based paints, pigments • Food waste
NBR	<ul style="list-style-type: none"> • Resistant to oils (non-mineral), greases, alkalis and detergents. 	Max. 80C (176F) Min. -10C (14F)	<ul style="list-style-type: none"> • Sludge with fractions of hydrocarbons • Polyaluminium chloride
EPDM	<ul style="list-style-type: none"> • Excellent chemical resistance, especially to ketones, alcohols and concentrated acids. 	Max. 90C (194F) Min. -10C (14F)	<ul style="list-style-type: none"> • Sodium Hypochlorite/Bisulphate • Ferric Chloride • Hydrochloric Acid
CSM	<ul style="list-style-type: none"> • Outstanding resistance to strong, oxidising products and concentrated acids and bases. 	Max. 80C (176F) Min. -10C (14F)	<ul style="list-style-type: none"> • Hydrogen Peroxide up to 60% • Cationic flocculant (polymer) • Highly concentrated Sulphuric Acid
NBR for food	<ul style="list-style-type: none"> • Suitable for a wide range of food products including fatty foodstuff • Compliant to EC1935/2004 • Cleaned, capped and bagged 	Max. 80C (176F) Min. -10C (14F)	<ul style="list-style-type: none"> • Fruit and fruit concentrates • Yoghurt and dairy products • Yeast, sugar, food additives • Resistant to various cleaning chemicals
F-NBR	<ul style="list-style-type: none"> • White inner surface for food contact • Suitable for a wide range of food products including dairy • Is compliant to EC1935/2004 and FDA 21CFR177.2600 and meets 3A standards. • Cleaned, capped and bagged. 	Max. 80C (176F) Min. -10C (14F)	<ul style="list-style-type: none"> • Fruit and fruit concentrates • Yoghurt and dairy products • Yeast, sugar, food additives • Resistant to various cleaning chemicals

Bore size mm (inch)	Wall thickness mm (inch)	Length mm (inch)	Max. operating pressure bar (psi)	Mass kg (lb)	Hose identification (example)
10 (0.39)	8.5 (0.335)	700 (27.5)	8 (116)	0.4 (0.88)	<div style="display: flex; flex-direction: column; align-items: flex-end;"> <div style="margin-bottom: 5px;">A: Pump type</div> <div style="margin-bottom: 5px;">B: Re-order number</div> <div style="margin-bottom: 5px;">C: Bore size</div> <div style="margin-bottom: 5px;">D: Material of the inner layer</div> <div style="margin-bottom: 5px;">E: Maximum permitted pressure</div> <div style="margin-bottom: 5px;">F: Factory code [material;year;month]</div> <div style="margin-bottom: 5px;">E=F-NBR / M=CSM / N=NR / P=NBR / S=EPDM</div> <div style="margin-bottom: 5px;">Year : last digit (7 = 2017) Month : A = Jan, E = May (Code is engraved on the end of each hose)</div> <div style="text-align: center;"> </div> </div>
			8 (116)		
15 (0.59)	8.5 (0.335)	690 (27.2)	8 (116)	0.52 (1.21)	
			8 (116)		
20 (0.79)	8.5 (0.335)	690 (27.2)	8 (116)	0.61 (1.32)	
28 (1.10)	13.2 (0.519)	914 (36)	8 (116)	1.85 (4.03)	
35 (1.38)	13.2 (0.519)	1092 (43)	8 (116)	2.55 (5.55)	

* Your local Bredel sales office/distributor can advise the right hose for your application
For best pump performance use Bredel Genuine Hose Lubricant (NSF Non food Compound Program Listed, category H1)

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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