

Abaque Peristaltic Hose Pumps

Models ABN10 – ABN100

Part Name	Standard Materials	Available Options
Pump Body (#1)	Ductile Iron (GJS 400.18)	
Cover (#2) (Size 10 and 20)	Polycarbonate	
Cover (#2) (Size 25)	Steel (24.1) w/ Polycarbonate window	
Cover (#2) (Size 40 to 100)	Steel (S235JRG2) w/ Polycarbonate window	
Wheel (#3) (All except size 25)	Ductile Iron (GJS 400.18)	
Wheel (#3) (Size 25)	Ductile Iron (GJS 400.18+D41)	
Shoe (#5) (Size 25 to 80)	Aluminum Alloy	
Shoe (#5) (Size 100)	Cast Iron (GJL 250)	
Boot (#6)	EPDM	
Insert (#12)	316L Stainless Steel	PPH, PVDF
Lubricant (#14)	Glycerin Compound	
Hose (#16)	Natural Rubber (NR) hose with Polyamide reinforcement and NR liner.	Hose liner options: Buna (NBR), EPDM
Flange Bracket (#18)	304 Stainless Steel	
Hub (#19/20)	Cast Iron	
Frame (#21) (Size 10 and 20 only)	304 Stainless Steel	
Frame (#21) (Size 25 - 100)	Steel (S235JRG2)	
Flange (#47)	304 Stainless Steel	
Screws, Nuts, Washers	304 Stainless Steel	
O-rings and Lip Seals	FKM (Fluorocarbon)	
Paint	Dover Blue	

Pipe Connections

Pump Size	Standard	Available Options ¹
ABN10	16mm Barb (.63")	–
ABN20	25mm Barb (.98")	–
ABN25	1.0" ANSI Class 150	–
ABN40	1.5" ANSI Class 150	–
ABNX40	1.5" ANSI Class 150	–
ABN65	2.5" ANSI Class 150	–
ABNX80	3.0" ANSI Class 150	–
ABN80	3.0" ANSI Class 150	–
ABN100	4.0" ANSI Class 150	–

¹ May effect lead time. Please consult factory.

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Operating Limits

Maximum Temperature	80°C (176°F) absolute maximum. Temperature of pumped fluid is limited by hose liner material.	
	<ul style="list-style-type: none"> • NR Natural Rubber 70°C (158°F) • NBR Nitrile Buna Rubber 70°C (158°F) • EPDM Ethyl Propylene Rubber 80°C (176°F) <p>Rpm (thus flow) is limited by temperature above 40°C (104°F). Please consult performance curves for specific rpm limitations.</p>	
Minimum Temperature	0°C (32°F) Please consult IOM manual for operation at lower temperatures.	
Maximum Viscosity	1,800 to 35,000 cP depending on pump size, rpm, and presence or not of vacuum assist. Please consult performance curves for specific effects.	
Maximum Working Pressure	Sizes 10 and 20	8 bar (116 psi)
	Sizes 25 to 100	15 bar (217.5 psi) with proper shimming. Please consult IOM manual.
Maximum Self-Priming Lift	9 meters (29.5 ft) manometric lift. Actual lift is dependent on system installation, pumped fluid, and temperature.	

Centipoises (cP) = centistokes (cSt) at fluid specific gravity of 1.0.