albin pumpusa

ALBIN PUMP ALP

PERISTALTIC PUMPS

albin pumpusa

Albin Pump Headquarters

155 Commerce Blvd., Loveland, OH 45140
Toll Free (888) 425-9494
Phone (513) 583-4907
Fax (513) 583-4810
albinpumpusa.com

ALP ALBIN PUMP ALP PERISTALTIC PUMPS

ALP PERISTALTIC RANGE
LOW PRESSURE

Reduce maintenance downtime…

Suitable for pumping and dosing low or high viscous, pasty, pure, neutral, aggressive or abrasive liquids, those containing gases or which tend to froth. Good for those containing solids in the following industries : paint, dairy and beverage, meat and fish processing, pharmaceutical and cosmetics, waste water and water treatment, chemical and petrochemical industries, pulp and paper, textile, soap and fats, building, ceramics.

ALBIN pumps provide process reliability and offer cost savings through :

- Accurate and repeatable dosing and metering
- Long life
- Self-priming
- Continuous dry running
- Lowest cost of ownership
- Quick and easy maintenance

SELF-PRIMING and DRY-RUNNING

It is not always possible to position a pump in the ideal location, and often self-priming and dry-running performance is required. These conditions can cause wear in conventional pumps, resulting in loss of flow and premature failure. ALBIN pumps can self-prime up to 27 ft. and run dry indefinitely.

LOWEST COST of ownership with quick and easy maintenance

Leakage, clogging or blockage of conventional positive displacement pumps which incorporate seals, valves, lobes, rotors or vanes can be a regular occurrence and expensive to rectify. ALBIN pumps contain the fluid in a tube or hose, requiring only one component to be changed, which means that maintenance costs are considerably lower than other pump types. Increased plant productivity and lower repair costs means pump payback is over months rather than years.

ACCURATE and REPEATABLE dosing and metering

Some industries require repeatable pump control for accurate dosing. Many traditional positive displacement pumps deliver varying flow rates, resulting in scrapped product and increased costs. ALBIN pumps are accurate up to ±0.5% across their total speed range, with the additional benefit of process control capabilities which allows easy installation. Less waste means increased profits.

LONG LIFE and GREATER RELIABILITY

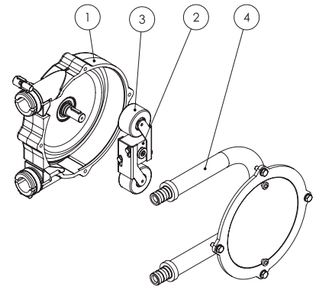
Pump failure cannot be tolerated. ALBIN pumps have no seals, valves, diaphragms, glands or immersed rotors to leak, clog, or replace. Abrasive, corrosive, and aggressive liquids are handled with ease because the fluid stays within the tube and never comes into contact with moving parts of the pump. The ALP range is designed and manufactured for heavy duty industrial use. The advanced elastomer technology ensures accurate and repeatable performance that truly outperforms all other pumps.

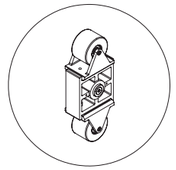
TECHNICAL SPECIFICATIONS ALP

CONSTRUCTION

REF	DESCRIPTION	MATERIAL DESIGN
1	Pump casing	Aluminium alloy
2	Rotor	Aluminium alloy
3	Pressure rollers	Plastic/light alloy (1)
4	Pump hose	(2) See hose material chart page 4.

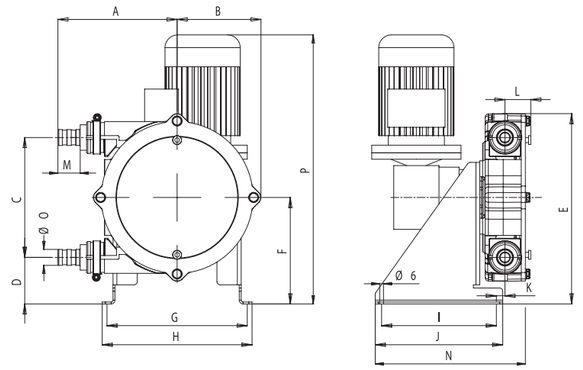
(1) According to pump size
(2) According to pumped liquid and to operating conditions



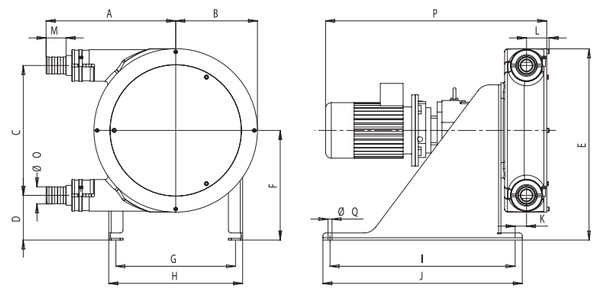


ALP30 & 45 shim roller adjustment.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	ØQ
ALP 09	4.5''	3''	4.1''	2.3''	7.3''	4.3''	5.7''	6.3''	6.1''	6.7''	.13''	1''	.8''	7.4''	.75''	X	.25''
ALP 13	5''	3.75''	5.2''	2.4''	8.75''	5''	6.5''	7''	6.1''	6.7''	.4''	1.1''	.8''	7.75''	.75''	X	.25''
ALP 17	7.4	5.2''	7.4''	2.9''	11.4''	6.6''	8.6''	9.25''	7''	7.9''	.53''	1.6''	1.4''	9.3''	1''	X	.25''



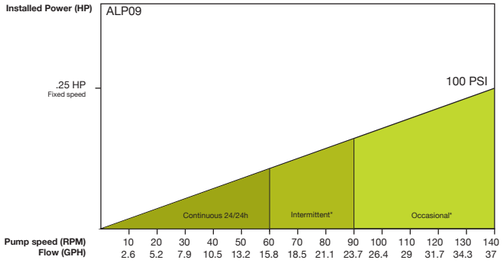
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	ØQ
ALP 25	10.8''	6.7''	10''	3.5''	15.3''	8.6''	9.5''	10.6''	15.75''	17.3''	.7''	2''	1.8''	19''	1.5''	X	.43''
ALP 30	13.6''	8.9''	14.3''	5.8''	22''	13''	13''	15''	21.7''	23.6''	.9''	2.6''	2.2''	25.8''	2''	X	.55''
ALP 45	18''	11.3''	18''	6.2''	26.5''	15.2''	16.5''	18.5''	25.6''	25.6''	1.6''	3.1''	2.75''	31''	2.5''	X	.55''

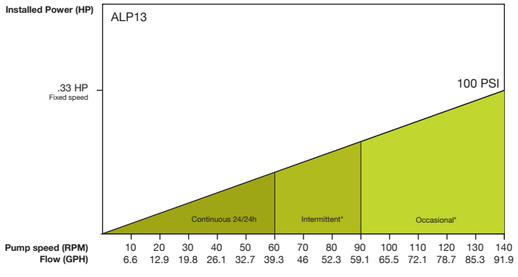


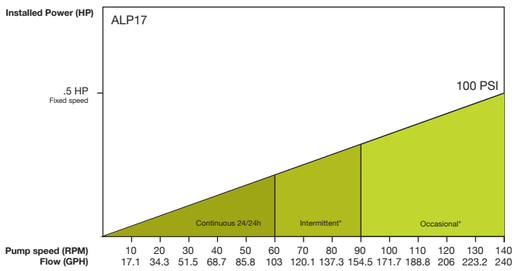
ALP TECHNICAL SPECIFICATIONS

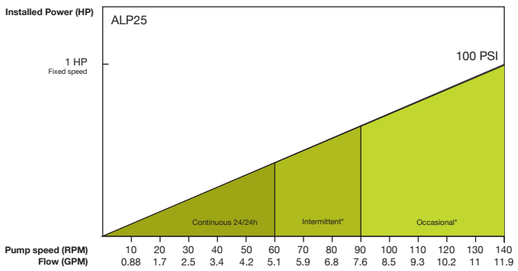
PERFORMANCE CURVES

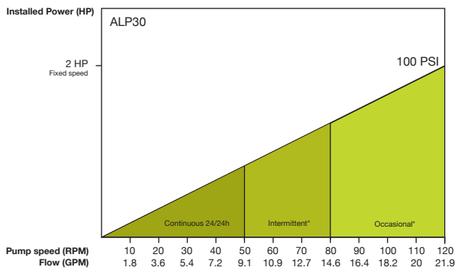
Gear motors are available in both TEFC and explosion proof. Pneumatic drive units are available upon request.

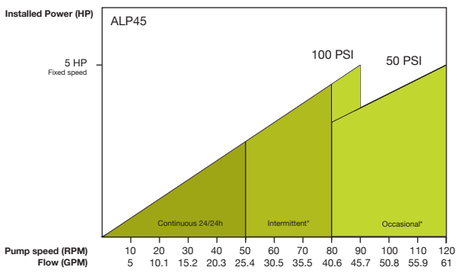












USING A PROVEN DESIGN

Two rollers mounted at 180° on a rotor, compress alternatively a thick-walled hose in a patented concentric guide, and push the pumped liquid from the suction to the discharge side. Roller movement compresses the hose along the casing wall and creates constant vacuum at the suction side of the pump. In this way, liquids are conveyed within the hose and do not get in contact with any metal part.

ALBIN pumps clearly outperform other pumps which rely on seals, valves, or vanes for their operation. These components are repeatedly the cause of pump failure and high maintenance. No other positive displacement pump offers this unique separation of pump and fluid. In sizes ALP 09-ALP 25, the rotor is supported by oversized ball bearings located within the pump casing. In sizes ALP 30 - ALP 45 the rotor is supported by the heavy-duty bearings of the flanged drive unit.

The ALBIN PUMP ALP range provides flow rates from micro-litres per minute to 10 cubic metres per hour and pressures up to 5 bar. Fixed, variable, flameproof, and air operated drives, with comprehensive control options to enable pumps to be configured to your requirements.

WITH EXPERT advice to give the best system and installation …
To deliver the PROMISED RESULTS

Our customers have made major improvements in process performance, maintenance and product quality, resulting in cost savings previously thought unavailable.

AVAILABLE HOSES MATERIALS

- Neoprene
- Hypalon
- NR
- NBR - foods
- Norprene®
- Silicone
- EPDM
- Pharmed®

Other qualities on demand.

Without reinforcing :
Neoprene ; Hypalon ; Norprene® ; Silicone ; Pharmed®
With polyamide reinforcing :
Natural rubber (NR) ; NBR ; EPDM

Operating data

Capacity	up to 44 GPM
Viscosity	up to 15000 CPS
Temperature of pumped liquid	up to 250° F (1)
Differential pressure	up to 100 PSI (2)
Discharge pressure	up to 100 PSI
Achievable suction	up to 19 FT (3)

1- At a room temperature of 68°F. Results depend on the pumped fluid, hose quality, and motor construction.
2- Depends on the pump dimension and on the hose quality.
3- Depends on the pump dimension/execution, on the speed and on the tube material.

ALP ALBIN PUMP ALP PERISTALTIC PUMPS

ALBIN PUMPS IN YOUR INDUSTRY

ALBIN pumps are exceptionally low shear, ensuring product quality, accurate and predictable performance with subsequent cost savings.

Pharmaceutical industry

Challenge : It demands sterility and a high degree of precision to ensure the integrity and quality of the end product. Fluid isolation and precise metering are vital, and not meeting these demands can be enormously costly.

Pumped fluids : Chemical dosing, liquid protein, vaccines, serum, plasma, syrups.

Water treatment

Challenge : Reduce the down time due to maintenance of costly dosing pumps and elimination of expensive auxiliary equipment.

Pumped fluids : Sodium hypochlorite, ferric chloride, sodium bisulfite, fluoride, polymers, aqueous ammonia, potassium permanganate, caustic soda, and many more.

Chemical industry

Challenge : Highly accurate dosing system that can pull a 20 FT lift from a tank.

Pumped fluids : Potassium hydroxide, mulch colorant, nitric acid, and many more.

Food industry

Challenge : Require semi-accurate metering of viscous products containing solids.

Pumped fluids : Water & salt mixtures, natural flavorings, fats, fruit cake dough/mixture (i.e. fruit cake has nuts and fruit pieces that need to stay whole).

Paint and adhesives industry

Challenge : Continual sealing problems with conventional pumps.

Pumped fluids : Glues, latex, and paints.

Health and beauty industry

Challenge : Eliminate potential for foaming fluid on bottle filling lines. Harsh pumping action of air operated diaphragm pumps can cause the fluid to foam.

Pumped fluids : Shampoos

ALP TUBING

ALBIN PUMP SAS have selected the most comprehensive range of tubing to suit all the specific need of the industry.

MATERIAL	Hose Identification	Operating Temperatures	Industry Approvals	Available
Neoprene	Flat black color, rough surface, rubber smell	32 - 140° F		ALP09 to ALP25
Norprene®	Off white, smooth surface	- 31 to 250°F	USP Class VI FDA 21 CFR 177.2600 NSF listed (Standard 51)	ALP09 to ALP45
Silicone	Transparent, smooth surface or rust color	32-250° F	USP Class VI FDA 21 CFR177.2600	ALP09 to ALP25
Pharmed®	Cream color, Pharmed* name on hose	- 31 to 250°F	USP Class VI FDA 21 CFR 177.2600 NSF listed (Standard 51)	ALP09 to ALP13
Hypalon	Black color, yellow stripe, double braided	32-194°F		ALP09 to ALP45
EPDM Rubber	Black color, white stripe, double braided	32-194°F		
Natural Rubber	Black color, green stripe, double braided	32-176° F		
Buna-N Rubber	Black color	32-176° F		

HOSE DIMENSIONS

SIZE	ID	OD	Length
	Inches		
ALP 09	.35	0.63	13
ALP 13	.512	.866	15.35
ALP 17	.67	1.22	23.23
ALP 25	.98	1.69	33.86
ALP 30	1.18	2.16	45.27
ALP 45	1.77	2.95	57.28

® Pharmed Reg. Saint-Gobain Performance Plastics