

A large, abstract graphic composed of several thick, curved, olive-green bands that sweep across the right side of the page, creating a sense of motion and flow.

ALBIN ALP

PERISTALTIC PUMP

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ALP PERISTALTIC RANGE

Reduce maintenance downtime ...

Albin pumps provide process confidence and offer cost savings through:

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

The main applications are:

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

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 Pump can self-prime up to 32 feet 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

Industry requires 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 $\pm 0.5\%$ 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, and advanced elastomer technology ensures accurate and repeatable performance that truly outperforms all other pumps.

... 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 44 GPM and pressures up to 72 PSI. Fixed, variable, explosion-proof, 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.

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

AVAILABLE HOSES

Neoprene

Hypalon

NR (Natural Rubber)

NBR (Buna N)

Varprene

Silicone

Pharmed

EPDM

Without reinforcing: Neoprene; Hypalon; Varprene; Silicone

With polyamide reinforcing : NR; NBR; EPDM



OPERATING DATA

Capacity	up to 44 GPM
Viscosity	up to 15000 cps (3)
Temperature of pumped liquid	up to 212°F (1)
Differential pressure	up to 50 PSI (2)
Discharge pressure	up to 72 PSI
Achievable suction	up to 20 ft (3)

1- At a room temperature of 70°F. Furthermore, it depends on the pumped fluid, on the hose quality and on the motor construction.

2- It depends on the pump dimension and on the hose quality.

3- It depends on the pump dimension/execution, on the speed and on the tube material.

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
Neoprene	Flat black color, rough surface, rubber smell	32 to 140°F	
Varprene	Off white, smooth surface	-31 to 275°F	USP Class VI FDA 21 CFR 177.2600 NSF listed (Standard 61)
Silicone	Rust color, smooth surface	32 to 284°F	USP Class VI FDA 21 CFR 177.2600
Pharmed®	Cream color, Pharmed* name on hose	-22 to 275°F	USP Class VI FDA 21 CFR 177.2600 NSF listed (Standard 61)
Hypalon	Black color, yellow stripe, double braided	32 to 194°F	
EPDM Rubber	Black color, white stripe, double braided	32 to 194°F	
Natural Rubber (NR)	Black color, no stripes,	32 to 176°F	
Nilrile Rubber	Black color	32 to 176°F	

® Pharmed Reg. Saint-Gobain Performance Plastics

HOSE DIMENSIONS

SIZE	ID	OD	Length
	inches		
ALP 09	0.35	0.63	13
ALP 13	0.51	0.87	15
ALP 17	0.67	1.22	23
ALP 25	0.98	1.69	34
ALP 30	1.18	2.17	45
ALP 45	1.77	2.95	57



ALBIN PUMP PERISTALTIC IN YOUR INDUSTRY

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

Pharmaceutical industry

Challenge: it demand 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 auxillary equipment.

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

Pasta industry

Challenge: inspectors are concerned about contamination if the hose breaks. Our competition uses a food grade oil for hose lubrication, but within 1-2 days the hose begins to wear (turns black), requiring the customer to change hoses every 2 days.

Pumped fluids: egg white & yolk, edible fat, semolina, natural flavoring.

Cheese manufacturers

Challenge: require a low shear pump so fibers in cheese aren't separated.

Pumped fluids: Cream, milk and yogurt.

Bread dough & fruit cake manufacturers

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).

Shampoo manufacturers

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

PUMP OUTPUT DATA

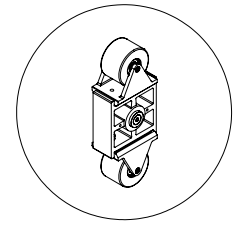
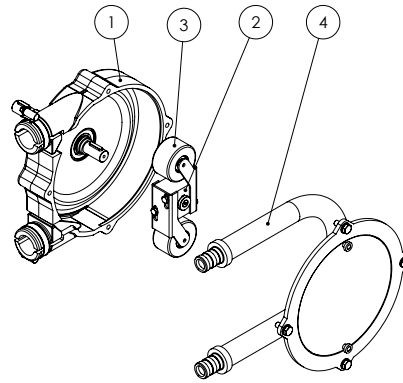
Gallon per hour (GPH) outputs shown are at a fixed maximum RPM. For variable flow outputs, a Motor Speed controller is required. In addition to standard TEFC motors Washdown Duty, Ex-Proof DC and Pneumatic types are available.

MODEL	GPH	R.P.M.	MOTOR	PSI	Hp	Weight (lbs)
ALP 09-F	7	28	230/460 V 3 phase 60 Hz 1750 rpm	30	0.25	15.4
	11	43		30	0.25	15.4
	15	57		30	0.25	15.4
	18	86		30	0.25	15.4
ALP 13-F	19	28		30	0.25	19.8
	28	43		30	0.25	19.8
	37	57		30	0.25	19.8
	56	86		30	0.25	19.8
ALP 17-F	41	24		30 (45*)	0.25	34.2
	60	38		30 (45*)	0.25	34.2
	86	50		25 (30*)	0.25	34.2
	165	61		20 (25*)	0.25	34
ALP 25-F	102	20		36	0.5	84
	150	30		36	0.5	84
	192	38		30	0.75	84
	228	46		30	0.75	84
	354	70		30	0.75	84
ALP 30-F	210	19		60	1.5	165
	288	27		45	2	172
	432	40		45	2	172
	618	57	30	2	172	
	846	78	30	2	172	
ALP 45-F	426	14	60	2	260	
	630	21	45	2	260	
	918	30	45	3	276	
	1224	40	45	3	276	
	1548	51	40	3	276	

* Higher pressure capability with heavy duty fiber braided hose.

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.



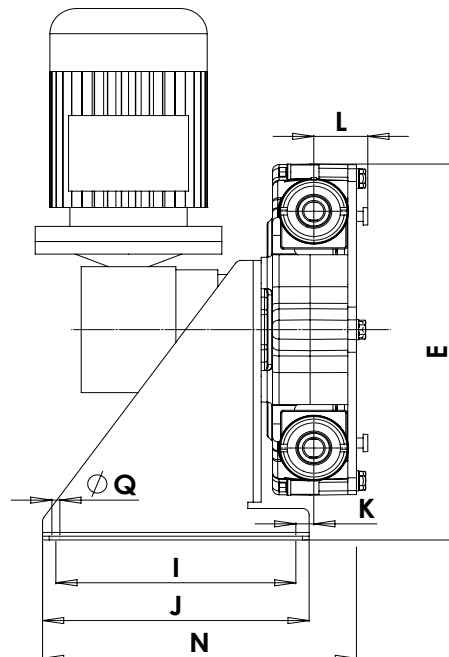
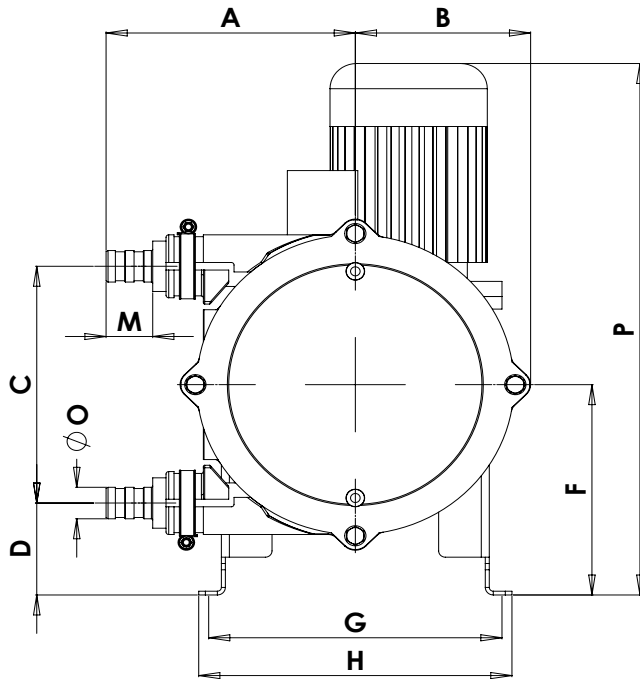
ALP30 & 45
shim roller
ajustment.

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

DIMENSIONS

ALP09 to ALP 17

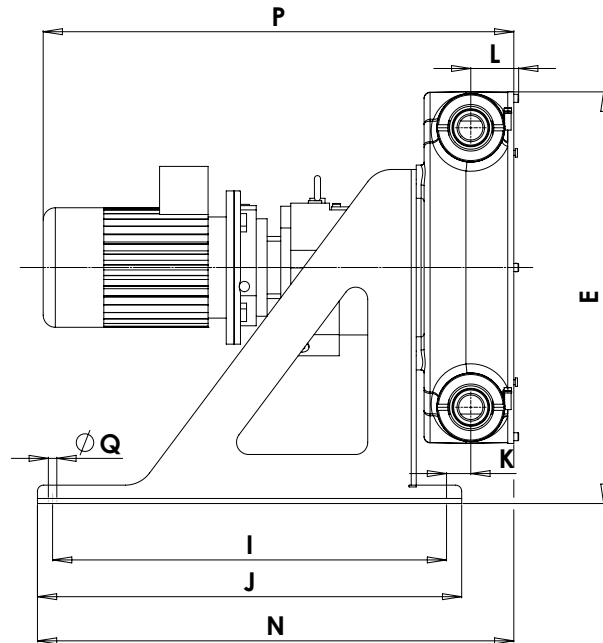
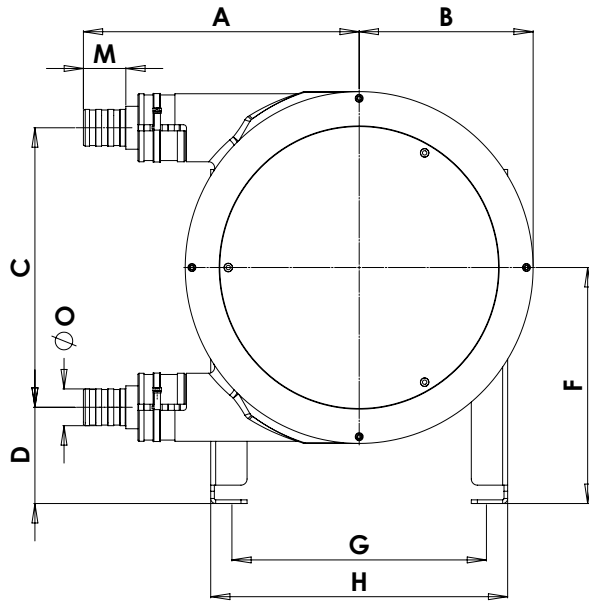
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	ØQ
ALP 09F	4.49	2.95	4.09	2.28	7.28	4.33	5.71	6.30	6.14	6.69	0.14	0.98	0.79	7.38	0.59	13.19	0.24
ALP 09VM	4.49	2.95	4.09	2.28	7.28	4.33	5.71	6.30	6.14	6.69	0.14	0.98	0.79	7.38	0.59	19.09	0.24
ALP 13F	4.96	3.74	5.20	2.40	8.74	5.00	6.50	7.09	6.14	6.69	0.39	1.10	0.79	7.76	0.75	13.86	0.24
ALP 13VM	4.96	3.74	5.20	2.40	8.74	5.00	6.50	7.09	6.14	6.69	0.39	1.10	0.79	7.76	0.75	19.76	0.24
ALP 17F	7.36	5.16	7.40	2.87	11.42	6.57	8.66	9.25	7.09	7.87	0.53	1.59	1.38	9.27	0.98	16.81	0.24
ALP 17VM	7.36	5.16	7.40	2.87	11.42	6.57	8.66	9.25	7.09	7.87	0.53	1.59	1.38	9.27	0.98	20.75	0.24



DIMENSIONS

ALP25 to ALP 45

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	ØQ
ALP 25F	10.8	6.7	10.1	3.5	15.3	8.6	9.4	10.6	15.7	17.3	0.7	2.1	1.8	19.0	1.4	22.8	0.4
ALP 25VM	10.8	6.7	10.1	3.5	15.3	8.6	9.4	10.6	15.7	17.3	0.7	2.1	1.8	19.0	1.4	28.3	0.4
ALP 30F	13.6	8.9	14.3	5.8	21.9	13.0	13.0	15.0	21.7	23.6	0.9	2.6	2.2	25.8	1.8	26.5	0.6
ALP 30VM	13.6	8.9	14.3	5.8	21.9	13.0	13.0	15.0	21.7	23.6	0.9	2.6	2.2	25.8	1.8	32.0	0.6
ALP 45F	17.9	11.3	18.0	6.2	26.5	15.2	16.5	18.5	25.6	27.6	1.6	3.1	2.8	30.9	2.4	30.6	0.6
ALP 45VM	17.9	11.3	18.0	6.2	26.5	15.2	16.5	18.5	25.6	27.6	1.6	3.1	2.8	30.9	2.4	36.1	0.6



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