

# **ALBIN PUMP AD**

Air operated double diaphragm pump



**albin  
pump**  
since 1928

# SMALL GIANT

To come up with a really good product demands plenty of knowledge and fresh, innovative ideas. Yet most important of all is to listen to our customers needs and requirements. So that we can see what can be improved and identify things that are not working optimally. Only then can we create something new – and that actually makes a big difference for you, the customer.

## **NEW DESIGN, NEW FEATURES**

The Swedish inventor Svante Bahrton developed the revolutionary AODD pump that Albin Pump today has the world patent on. The AODD pump has many advantages that meet customers demands. The result of our efforts is a compact and flexible pump with attractive features.

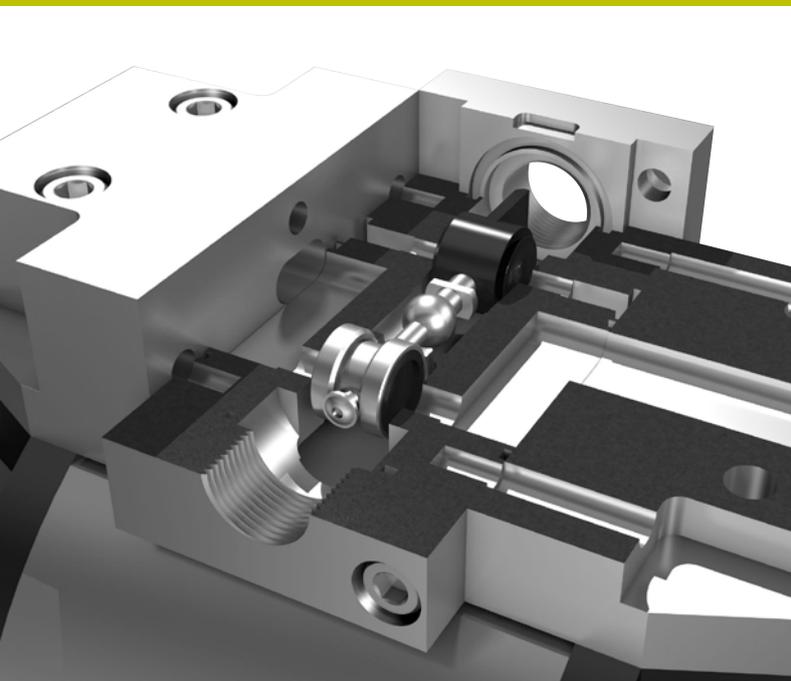
## **COMPLETELY DIFFERENT AND A LOT BETTER**

The Albin Pump is designed for a large capacity and long service life. Compared to traditional AODD pumps, it offers 70% lower pulsation, higher power, noise reduction and 3–5 times longer operation time between service intervals. The compact outer measurements and capability to install the pump upside down, sideways or vertically means flexibility during installation and set up. What's more, it is designed so that all vital parts are easily accessible without having to remove the pump from the pipe system, greatly minimizing downtime. All these improvements result in lower operational costs, reduced cost for spare parts and improved overall economy.

# SMART DESIGN

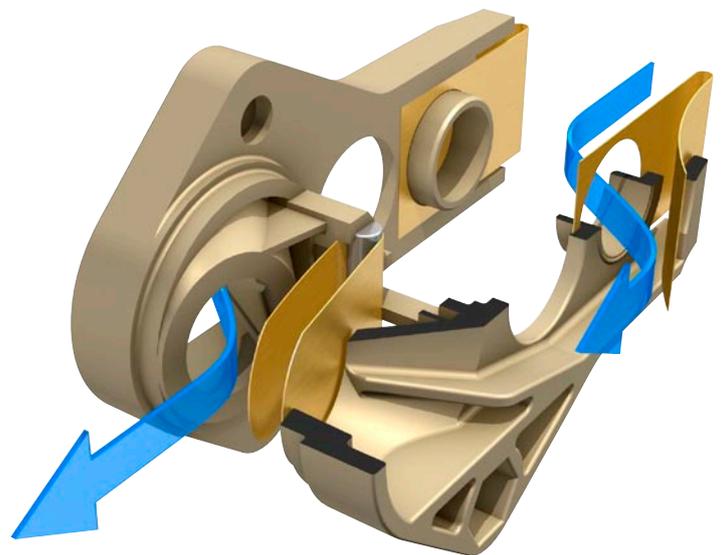
The Albin Pump is designed to meet your demands on high power – and low costs for energy and maintenance. The unique pump design gives low pulsation and therefore low vibrations and sound levels. The loads in the system are reduced, increasing the number of potential application areas. Thanks to a direct central flow, we have managed to minimize energy losses and air consumption. This, combined with its compact measurements and quiet, feathered

flap valves, makes the pump particularly well suited for original equipment manufacturers (OEMs). Not least of all since it can be installed in any preferred position. Yet the Albin Pump is also a good choice for anyone who today has conventional AODD pumps. Loud, noisy and highly service demanding pumps can now be replaced with quiet and efficient Albin Pumps – in virtually any application.



## AIR VALVES/AIR MOTOR

The patented air valve at the heart of the drive system ensures very high operational reliability. The system including valve and air motor is self-cleaning, withstands oily, dry, humid or dirty compressed air and is insensitive to ice build-up. The technique enables rapid change and optimal control of the pump diaphragm, reducing pulsation.



## FLAP VALVE

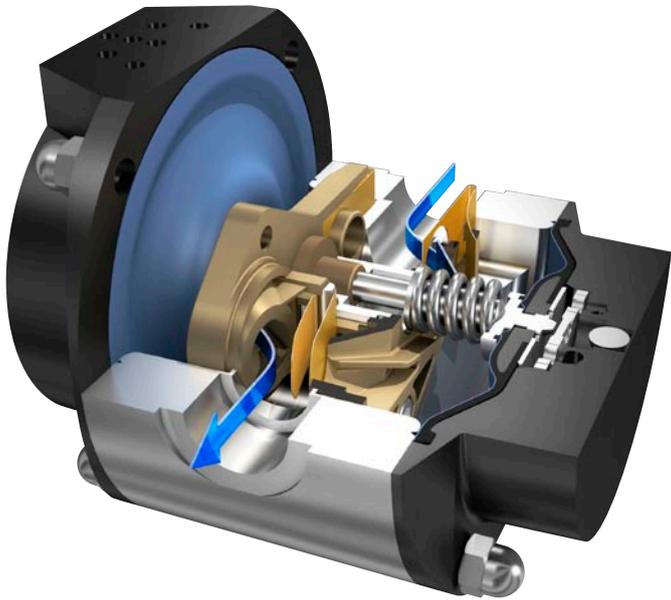
An important innovation in the Albin Pump is the feathered flap valves. They function regardless of how the pump is positioned – upside-down, sideways or vertically – ensuring maximal flexibility during installation. In addition, the valves are quiet and self-closing. This enables a longer service life and eliminates the problems with jammed ball valves.



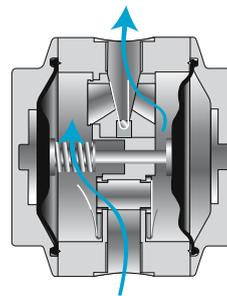
- \* 70% lower pulsation
- \* Lower energy consumption
- \* Quiet and vibration free
- \* Longer service intervals
- \* Easier to install

- Longer service life \*
- Simpler maintenance \*
- Can run dry without damage \*
- Requires less space \*

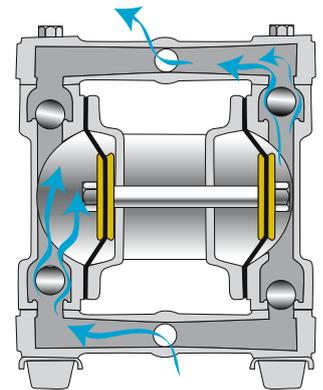
\* compared to traditional diaphragm pumps.



**ALBIN AD DESIGN**



**CONVENTIONAL DESIGN**



## CENTRAL FLOW THROUGH FLEXIBLE DIAPHRAGM SUSPENSION

One of the secrets behind the pump's smooth operation is the patented FDS technology (Flexible Diaphragm Suspension). The diaphragms are not fixed at the shaft but can move independently of each other and work with soft, overlapping movements. This minimizes pulsations, increases time between services and enables a central flow.

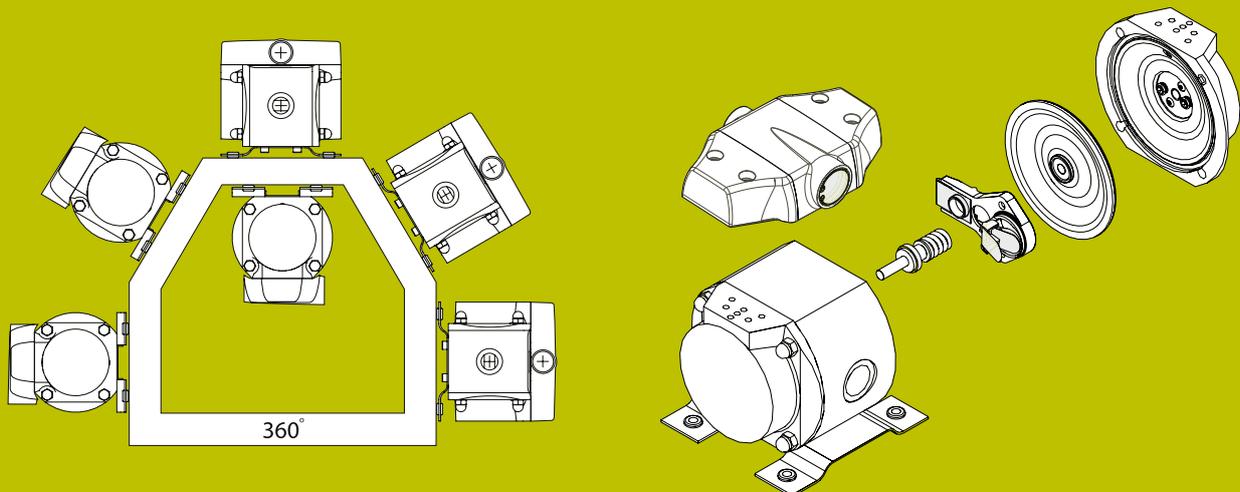
## IMPROVED FUNCTION AND FLEXIBLE DESIGN

Instead of interrupting the flow of the fluid with many directional changes, it is pumped directly through the center of the pump. Current losses are reduced and the flow is more even and efficient. This also enables a more compact and flexible pump design.

# UNCOMPLICATED WORLD LEADER

Advanced technology can actually be uncomplicated. Our pumps feature smart solutions that make them better in a range of applications. The design means that maintenance and service can be performed quickly and cost-effectively since all parts are easily accessible - even when the pump is still connected in the pipe system. Take a look at the diaphragms, for example. They are easy

to get at and therefore easily replaced. In- and outtake valves, valve cage and shaft can be released by simply removing two screws. The air motor has internal mechanical connections to the pump unit and can be taken out and serviced without having to disassemble the fluid carrying parts of the pump. Even the heart of the air motor, the FPV (Frictionless Pivoting Valve) is easy to get at.



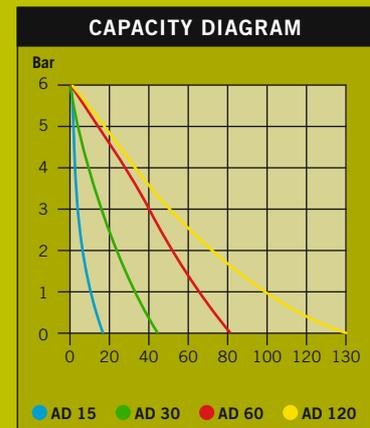
## APPLICATION AREAS

- Construction & General industry
  - Aviation
  - Paints & oils
  - Chemicals
  - Cosmetics
  - Pharmaceuticals
  - Manufacturing
  - Water purification
  - Paper
  - Petrochemical
  - Finishing/surface treatment
  - Marine
- Emptying of tanks, shaft and sample taking for analysis, diesel, paint  
Emptying/filling fuel, glycol, water  
Solvents, paint, preservatives, glue, varnish, stains, latex, acetone, turpentine, resin  
Acids, alkalis, suspensions, stabilizers, solvents, glue  
Lotions, shampoo, liquid soap, soap emulsions, perfume, deodorants  
Syrup, alcohol, glycerin, sweeteners  
Oil, coolants, degreasing wash, emulsions, waste oil  
Polymers, chemicals, sample taking for analysis  
Printing ink, solvents, glue, resins, dispersion, latex  
Tank cleaning, oil spill, petroleum, petrol  
Galvanized wash, acids, lye, varnish  
Waste water/bilge pumping

# TECHNICAL SPECIFICATIONS

DIMENSIONS															
TYPE	A	B	D	E	F	G	H	I	J	K	L	M	N	O	Weight kg PP / AL
AD 15	14	145	2.5	64.5	130	97,6	141	101	118	147	147	123	1/4"	3/8"	2.5 / 3.7
AD 30	14	145	2.5	64.5	130	97,6	141	101	118	147	147	123	3/8"	3/8"	2.5 / 3.7
AD 60	14	164	2.5	74	149	97,6	141	101	118	147	147	141	3/4"	3/8"	3.6 / 4.9
AD 120	14	210	2.5	97	195	97,6	184	134	148.5	178	170	184	1.1/4"	3/8"	6.9 / 9.8
AD 400	See separate brochure / datasheet														

TECHNICAL DATA				
TYPE	AD 15	AD 30	AD 60	AD 120
Max Flow (l/min)	20	35	70	130
Max Pump pressure (bar)	7	7	7	7
Max Air pressure (bar)	7	7	7	7
<b>MATERIAL</b>				
Pump house	Polypropylene, Aluminium, Stainless Steel			
Diaphragms	PTFE (Standard), NBR, EPDM and by request			



## WWW.ALBINPUMP.COM

At Albin Pump, we are committed to improving the production processes and competitiveness of our customers by enabling more effective operation and reduced maintenance costs. All of our pumps are manufactured in Sweden. Visit our website and learn more today.





**Albin Pump SAS**  
ZAC de Fontgrave  
26740 Montboucher sur Jabron  
France  
Tel +33 (0) 4 75 90 92 92  
Fax +33 (0) 4 75 90 92 40  
info@albinpump.fr  
www.albinpump.fr

**Albin Pump AB (Headoffice)**  
Ålegårdsgatan 1  
S-431 50 Mölndal  
Sweden  
Tel +46 (0)31 701 38 30  
Fax +46 (0)31 22 14 37  
info@albinpump.se  
www.albinpump.se