

Product information

ALS pneumatic pump

ALS pneumatic pump is great for critical components and for all general greasing applications.

Features:

- high lubricant ejection pressure
- defined lubricant quantity
- maintenance free
- easy handling and installation
- long service life

Extent of delivery (depending on system configuration):

- reservoir made of non-ageing and shock-resistant plastic for oil or grease
- dust guard cover, filler-hole and venting
- aluminium block with pump element
- pneumatic cylinder
- 3/2 way magnetic valve
- plug-in connector according to DIN 43650
- stroke inquiry



Functional description:

During the suction phase the piston glides back by means of spring pressure. Thereby the borehole at the pump element is set free. The lubricant flows into the pump element. With each stroke the lubricant is pushed through the piston. An integrated check valve prevents the backflow of the discharged lubricant.

Reservoir made of	transparent, shock-resistant plastic
Reservoir diameter	115 mm
Reservoir height	150 mm
Reservoir capacity	460 ml for oil and grease (reservoir with piston and spring)
Connection, internal thread M 10x1	1 outlet or up to 8 with progressive distributor
Pressure	ca. 180 bar ((with pump element PE 50; test oil according to ISO VG 68; prepressure pneumat. max. 5 bar)
Output quantity per respective pump element	0,005 / 0,010 / 0,015 / 0,025 / 0,05 ml per stroke
Ambient temperature (way valve)	-10° C to +40° C
Viscosity for oil	11 – 1100 cP (mm ² /s) temperature dependent
NLGI class for grease	000 bis 2 (dependent on penetration of grease)
Pneumatic cylinder	Single-acting cylinder (optional: with signal transmitter)
Magnetic valve	3/2 way valve, pneumatic connection M5
Magnet coil (Standard)	24 V DC
Rated current	0,4 A

General information about the ALS pneumatic pump

- **Air supply**
Oiled or oil-free, dehumidified compressed air. Max. pressure 5 bar.
- **Installation**
Pump should be mounted in a way that the reservoir stands upright and a venting of the system is possible. If the pump is used for oil delivery a check valve should be installed before the lubrication point in order to prevent a backflow of the oil.
NOTE: Pump with reservoir should be mounted in a way, that filling through filling hole is possible.
- **Piping installation**
Pipe i.e hoses should be installed tension-free. Pipes and hoses should be prefilled and tested for leaks.
- **Electrical connection 3/2 way magnetic valve**

The 3/2 way magnetic valve can be equipped with different magnet coils.

The magnet coil must only be operated with respective voltage. See respective type description.
Installation only through technical personnel.

Connection type	Plug-in connector according to DIN 43650
Protection type	IP 65
Relative on-time	100 % (magnet coil 24 VDC)
NOTE	On- and off-time have to be synchronized with relative on-time.

- **Allocation for coil 24 V DC**

1 = A1 (+)
2 = A2 (-)
3 = PE
- **Potential equalization:**
In case of static a potential equalization has to be affixed to the pneumatic pump.
Preferably on one of free M5 threads. Cross-section min. 1,5mm².
- **Maintenance**
The ALS pneumatic pump is maintenance-free.
- **Options:**
 - **level control:** sensor on reservoir
 - **function control:** sensor on pneumatic cylinder
 - **on request:** reservoir with piston and pressure spring for greases
- **Accessories**
Control, either time dependent or on demand with digital timer or PLC.
Mounting and installation accessories, standard or on demand