



INSTRUCTIONS 1005-D00 e

Section	1005
Effective	June 2022
Replaces	September 2018

Translation of the original instructions

AP sets

INSTALLATION

OPERATION

MAINTENANCE

EC CERTIFICATE OF CONFORMITY :

The EC Certificate of Conformity (paper version) is systematically attached to the equipment when shipped.

WARRANTY :

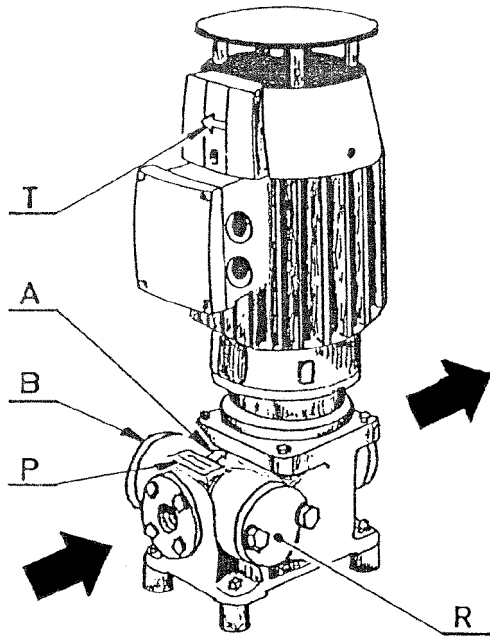
TM Series sets are covered 24 months by warranty within the limits mentioned in our General Sales Conditions. In case of a use other than that mentioned in the Instructions manual, and without preliminary agreement of MOUVEX, warranty will be canceled.



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Your distributor :

INSTALLATION



- A Flow direction
- B Bypass
- P Pump plate
- R Filter
- T Director of rotation of motor

Set sealing

By means of 4 anchorbolts going through 4 insulating rubbers. Fix the supplied X72a plate on the frame of the unit.

Direction of rotation

Sets are supplied for only one direction of rotation which is indicated by an arrow on the motor and which corresponds to flow direction as specified on the suction and discharge ports of the pump. When starting the motor, make sure (locking at the fan) that the motor rotates in suitable direction.

Electric motor protection

As the incorporated bypass only protects the pump against eventual overpressures, it is important to protect the motor, by a well adjusted disconnector, against any possible deterioration resulting from overloads. Our guarantee is subjected to the presence of a disconnector.

USE

Starting

In order to avoid any deterioration of the pump due to impurities left in the piping system or in the tanks, it is important to rinse the whole installation before starting up and to make sure that the pump has its incorporated filtering grid.

Temperature of pumped product

Our pump AP pumps are suitable for pumping domestic fuel, and heavy fuel heated up to 50° and 80°C before transferring heavy fuel, preheat the whole installation and rinsing the installation with domestic fuel immediately after each operation with heavy fuel.

MAINTENANCE

The filtering grid should be periodically cleaned.

Unscrew lightly screws **170** and slew around cover **168** (with gasket **169**).

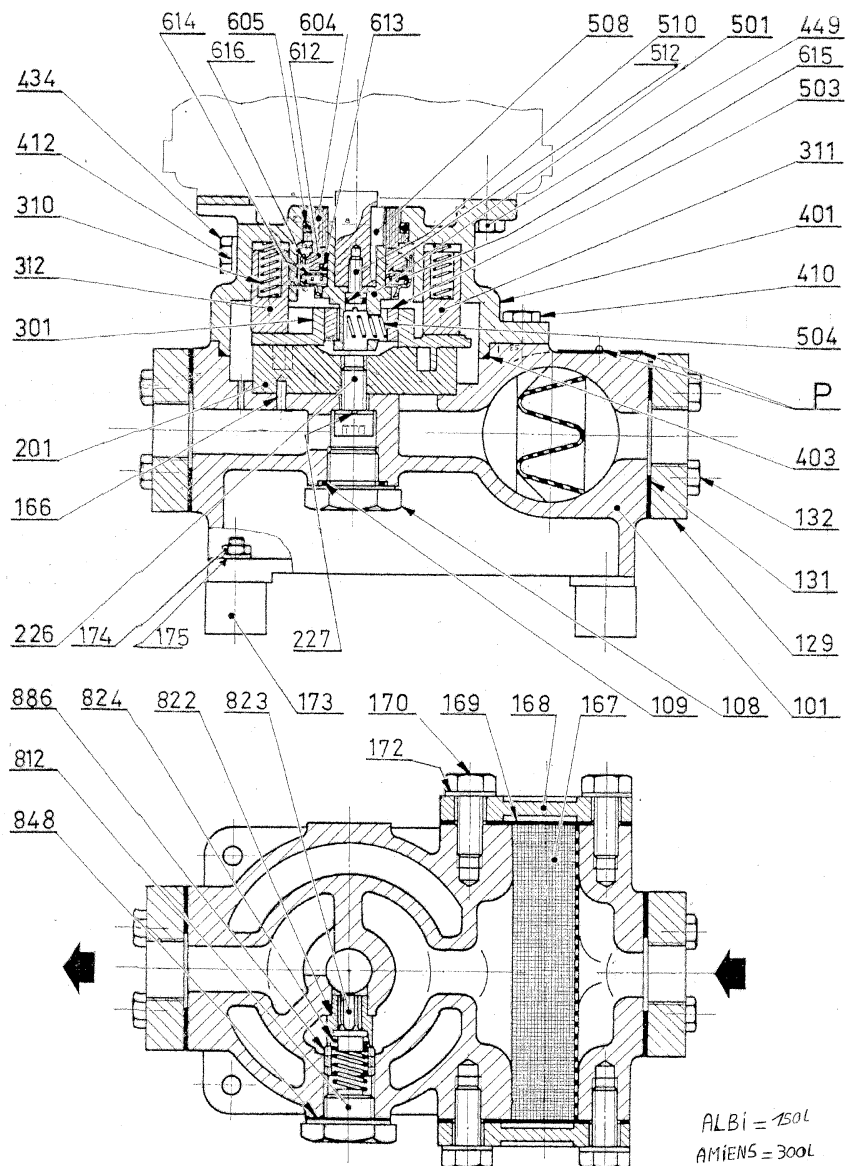
Take-out the grid, clean it and put it back.

The grid can be taken out on one side or the other of the pump.

Tools required dismantling and reassembly

- Open-ended spanner : 10 mm - 13 mm
- Socket screw hexagonal wrench : 6 mm
- Screw driver : 6 mm

DISMANTLING / REASSEMBLY



Disassembly

To remove piston

Unscrew **410**. Separate the end-plate **401** (with the motor) by unsticking it gradually from the casing **101**. The set motor-end-plate comprise the piston **300**, the shaft **500** and the bloodir shaft seal **600g**.

Remove the piston **301**, the slide block **307**, the piston backsprings **310** and the piston backsprings thrust pieces **311**.

To remove shaft seal

Put the motor shaft up.

Remove the bearing **503** (by compressing the spring **504**).

Unscrew the shaft end screw **510** and extract it with its seal.

Remove the shaft **501** with the key **508**, the one piece rotating part **697**.

Unscrew the motor screw **436**. Separate the motor from the end-plate **401**. Extract the bloodir stationary seal face **604h** and the stationary face ring **605e**.

Reassembly

Reassembly is undertaken in the reverse order of dismantling.

Precautions to take :

- check the state of the shaft seal (seals and surfaces in contact) and shaft end screw **510**.
- engage the key **508** into the shaft **501** before engaging into motor shaft.
- check the state of the springs **310** and **504**.
- check the state of the seal **403** and don't forget it while reassembly.

SPARE PARTS - SINGLE SET

Rep.	Nb	DESIGNATION
* 100		CASING COMPLETE
101	1	Casing
* 108	1	Casing plug (+ 109)
109	1	Plug gasket..... (see 99)
166	1	Pin
* 167	1	Filtering grid
168	2	Strainer cover
169	2	Cover gasket (see 99)
170	4	Cover screw and washer..... (see 98)
* 171	4	Insulator, bolt, washer
* 200		CYLINDER-PISTON COMPLETE ° (+ 166)
201	1	Cylinder
226	1	Hub screw, lockwasher
301	1	Piston
* 307	1	Slide block (+ 310 + 311)
310	3	Piston backspring
311	2	Piston backspring thrust piece
* 400		END PLATE COMPLETE
401	1	End plate
403	1	End plate gasket (see 99)
410	4	End plate screw (see 98)
411	1	Drain plug (see 98)
412	1	Drain plug gasket..... (see 99)
436	4	Motor screw
500		SHAFT COPMLETE
501	1	Shaft
503	1	Piston bearing
* 504	1	Piston bearing spring
* 508	1	Key (+ 510)
510	1	Shaft end screw (see 99)
542	1	Shaft brace
* 600 g		BLOCDIR SHAFT SEAL COMPLETE
604 h	1	Blocdir stationary seal face (+ 605e)
605 e	1	Stationary face ring..... (see 699)
697		Blocdir rotary seal
613b	1	Blocdir cup ring
* 800		STANDARD BYPASS COMPLETE
802	1	Valve seat
803	1	Bypass valve
* 804	1	Bypass spring
807	1	Cap gasket (see 99)
808	1	Bypass cap
895	1	Seat lockwasher
* 130	2	Threaded counterflange (+ 131 + 132)
131	2	Counterflange gasket
132	8	Counterflange screw
* 98	1	SET OF SCREWS (170 + 410 + 411)
* 99	1	SET OF PUMP GASKETS (109 + 169 + 403 + 807 + 412 + 510)
* 699	1	SET OF SHAFT SEAL GASKETS (605e + 613b)

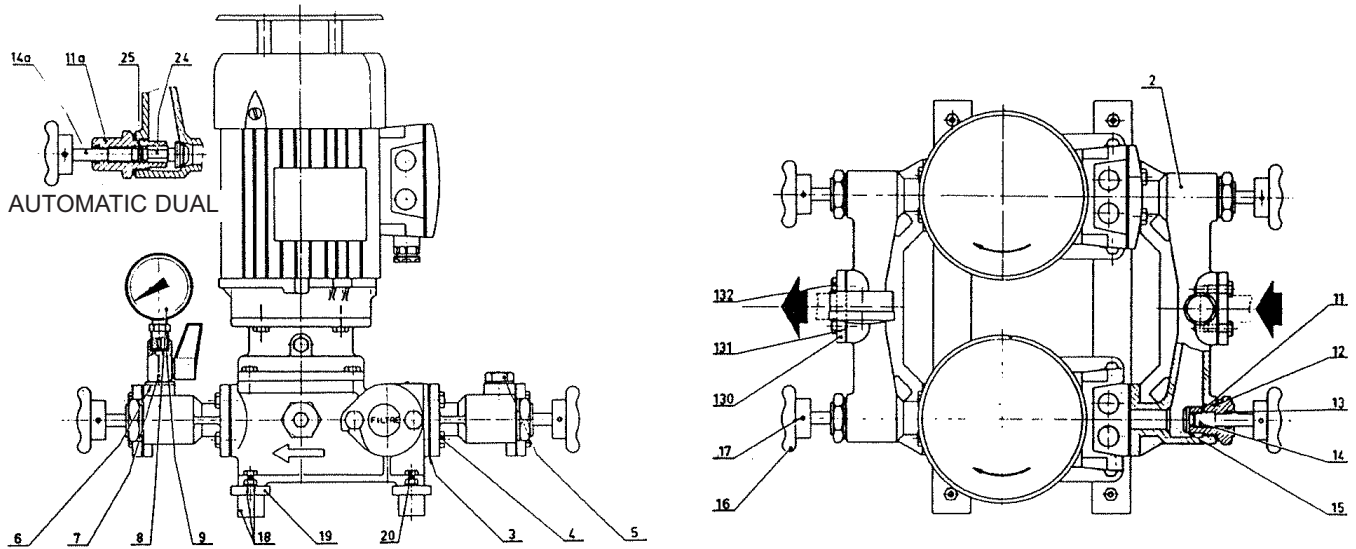
* Sets of parts or parts available to order.

Please mention index number of the set : ALBI...

When ordering spare parts, please indicate :

- TYPE and SERIAL NUMBER of pump (stamped on pump plate)
- INSTRUCTIONS 1005-D00
- The REFERENCE and DESIGNATION of parts required.

SPECIAL PARTS - DOUBLE SET



Rep.	Nb	DESIGNATION
* 2	2	Connecting casing (+ 5 + 6)
3	4	Casing gasket (see 30)
* 4	16	Connecting screw
5	1	Plug
6	2	Gasket (see 30)
* 7	1	Pressure gauge cock
8	1	Pressure gauge (+ 6 + 9)
9	1	Pressure gauge gasket (see 30)
* 10	2	VALVE COMPLETE
11	4	Valve bolt
12	4	Bolt gasket (see 30)
* 13	4	Valve isolating gasket (see 30)
* 14	4	Valve rod
15	4	Pressure valve and valve gasket (see 30)
16	4	Valve control wheel
17	4	Wheel pin
* 18	4	Isolator with blot and washer
* 19	2	Set frame (+ 20)
20	8	Set bolt and washer
* 130	2	Counterflange (+ 131 + 132)
131	2	Counterflange gasket
132	8	Counterflange screw
30		SET OF GASKETS (3 + 6 + 9 + 12 + 13 + 15)
10a	2	AUTOMATIC DUAL SET IDENTICAL TO PREVIOUS ONE, but for : AUTOMATIC OPERATING VALVE COMPLET (11a+12+13+14a+15+16+17+24+25)
11a	2	Non return valve bolt
14a	2	Non return valve rod
24	2	Pressure valve spindle
25	2	Spring

* Sets of parts or parts available to order.



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- TYPE and SERIAL NUMBER of pump (stamped on pump plate)
- INSTRUCTIONS 1005-D00
- The REFERENCE and DESIGNATION of parts required.

STORAGE

If necessary, refer to § DISASSEMBLY / REASSEMBLY for pump disassembly.

Short duration (≤ 1 month)

	WARNING	IF PUMPING HAZARDOUS OR TOXIC FLUIDS, THE SYSTEM MUST BE FLUSHED PRIOR TO PERFORMING ANY SERVICE OPERATION.
		
Toxic or hazardous fluids can cause serious injury.		

MOUVEX pumps and motor-driven pumps are well lubricated when delivered to protect the internal parts during brief storage in a building where :

- the temperature remains between 10°C and 50°C.
- the relative humidity does not exceed 60%.
- exposure to vibration is limited.
- pump is stored in an area sheltered from bad weather and sun.

Long duration (> 1 month)

The recommendations from the manufacturer should be followed if the pump is stored with its gear motor.

Pump ports should be filled with a non-corrosive liquid that it compatible with the pump components in order to prevent corrosion.

Unpainted external surfaces of the pump (e.g. shafts, couplings, etc.) should be covered in some form of anti-corrosion protection.

The bearing should be well greased. If the pump is to be stored for more than the life of the grease, this one should be replaced in time to prevent an excessive degradation of its qualities.

The best storage conditions are inside a building that meets the conditions set out above.

If inside storage is not possible, the materials should be covered to prevent direct exposure to sun and bad weather. This protection should also prevent condensation.

The pump should be turned a few revolutions manually every two months.

Restarting

Follow the standard start-up procedure for the pump/motor-driven pump, as well as the instructions below.

Turn the pump by hand to make sure the parts move freely.

Replace the grease used to lubricate the bearing.

If the pump has a safety bypass, remove it and inspect the parts and make sure they move freely (see § BYPASS for removal instructions).

SCRAPPING

The pump must be scrapped in compliance with the regulations in force.

During this operation, particular care must be paid to the drainage stages of the pump.