



FLOWMAX® PUMP

17 A2

Disassembly / Reassembly

TRANSLATION OF THE ORIGINAL MANUAL

IMPORTANT : Before assembly and start-up, please read and clearly understand all the documents relating to this equipment (professional use only).

THE PICTURES AND DRAWINGS ARE NON CONTRACTUAL. WE RESERVE THE RIGHT TO MAKE CHANGES WITHOUT PRIOR NOTICE.

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CAUTION :

Before any action on the pump, shut off the compressed air supply and depressurize the system.

The pump is manufactured under the ATEX agreement and can not be modified. KREMLIN REXSON will not be held responsible for any failure to comply with that instruction.

Guards (air motor cover, coupling shields, housings ...) have been designed for safe use of the equipment.

The manufacturer will not be held responsible for bodily injury or failure and / or damage to property due to removal or partial removal of the guards

■ VALVE ASSEMBLY (25)

Unscrew the 4 screws (38) and remove the valves.

Unscrew the 2 screws (37) to remove the upper body (36), the intermediate body (31) and the lower body (26).

Unscrew the upper stop (34) to gain access to the ball (28a), to the spring (33) and to the seat support (27a).

Push in the middle of the lower stop (30) to remove the seat support (27b) and the ball (28b).

Change all the seals (29, 32 and 35).

Clean or change the parts if necessary.

Assembly :

Assemble new seals and lubricate them.

Place the lower stop (30), the ball (28b) and the seat support (27b) into the intermediate body (31).

➡ **Guide the parts in the axis until stop in the intermediate body.**

Insert the seat support (27a) until stop into the upper body (36), then locate the ball (28a) and the spring (33).

Clean the threading of the upper stop (34) and of the upper body (36). The threading of the upper stop must be glued; then, screw it until threading root.

➡ **Important : The play of the ball depends on the correct assembly of the upper stop (34).**

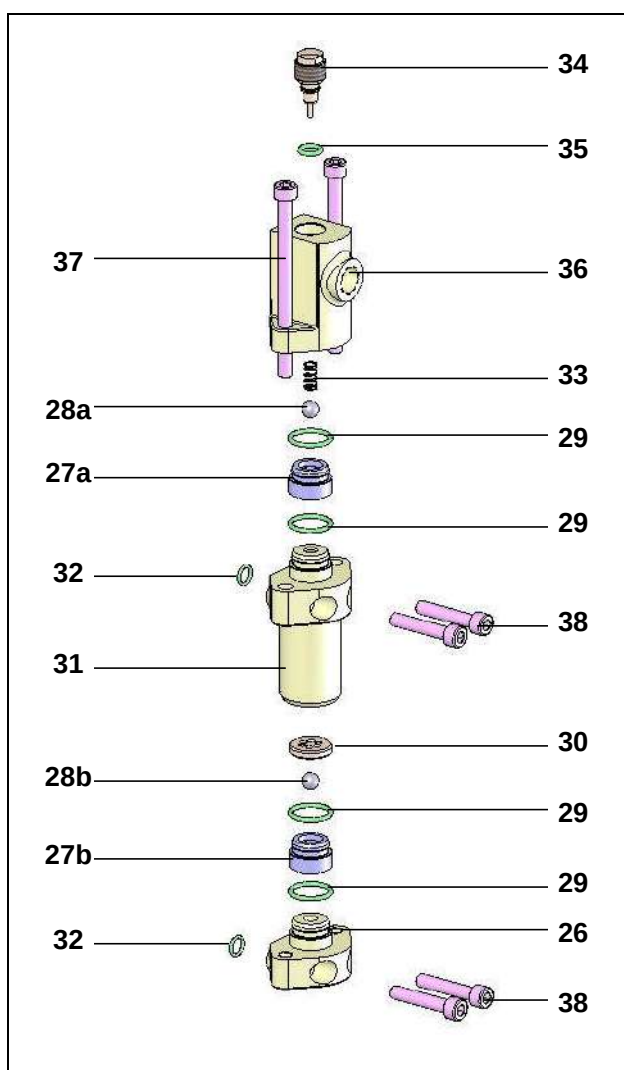
Mount the lower body (26) into the body (31). Make sure the fluid inlet-outlet are lined up.

➡ **Important : Mount the two screws (37) without tightening them in the lower body (26).**

Make sure the parts are correctly lined up, then tighten the 2 screws (37).

Mount the whole on the fluid section. Take care of the 2 seals (32).

Replace the 4 screws (38). Tighten them gradually by screwing in criss-cross manner. Torque screws.



■ BELLOWS (2)

If material leaks under the base of the air motor, at the leakage indicators, bellows must be replaced.

Proceed as previously explained when filling valve is removed.

Remove suction body (1) by means of the 4 fastening screws (6).

The bellows is released when suction body is taken out.

To reinstall the bellows : fits its lower part (small diameter) in skirt (3).

Slip bellows on motor rod.

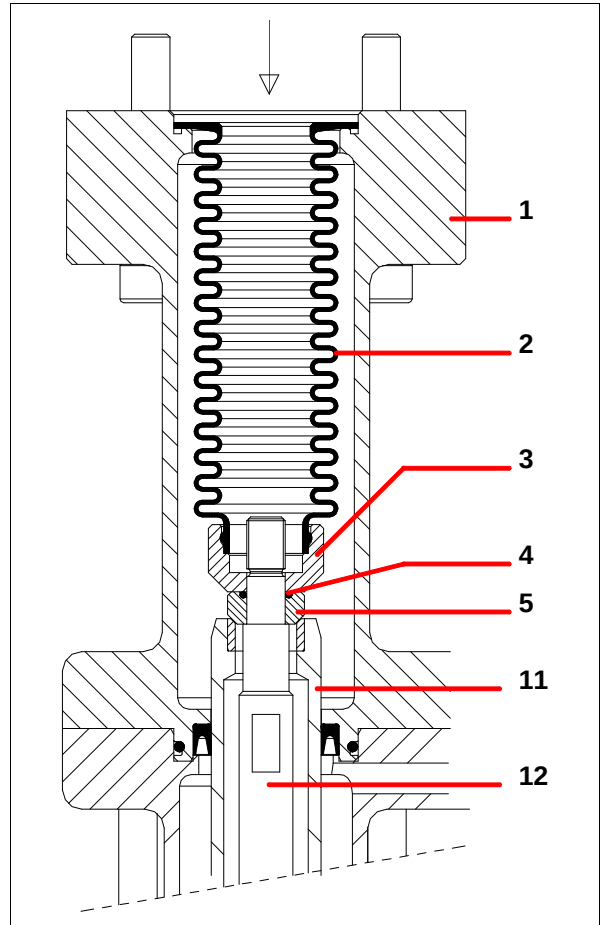
Screw the rod (12) into motor rod after having installed the seal (4) and the filling valve (5). (The whole must be slightly glued with Loctite adhesive).

Lock the rod (12) using the motor rod flat.

Insert the suction body after pushing the motor rod upwards.

Fill the 4 screws (6) and tighten them gradually by screwing in criss-cross manner. Torque screws (6).

Reinstall the other parts as indicated previously



■ GT SEALS (7 & 16) AND PISTON (11)

Remove the valves.

Remove the suction chamber (17) by unscrewing the 6 fastening screws (18).

⇒ **Remove the lower GT seal (16).**

Dismount the piston (11). When disassembling :

- Unscrew nut (14) holding rod (2) thanks to the two flats located above the nut.
- Remove shutter (13).
- Remove piston pulling it downwards.

Remove cylinder (10).

⇒ **Take off the upper GT seal (7).**

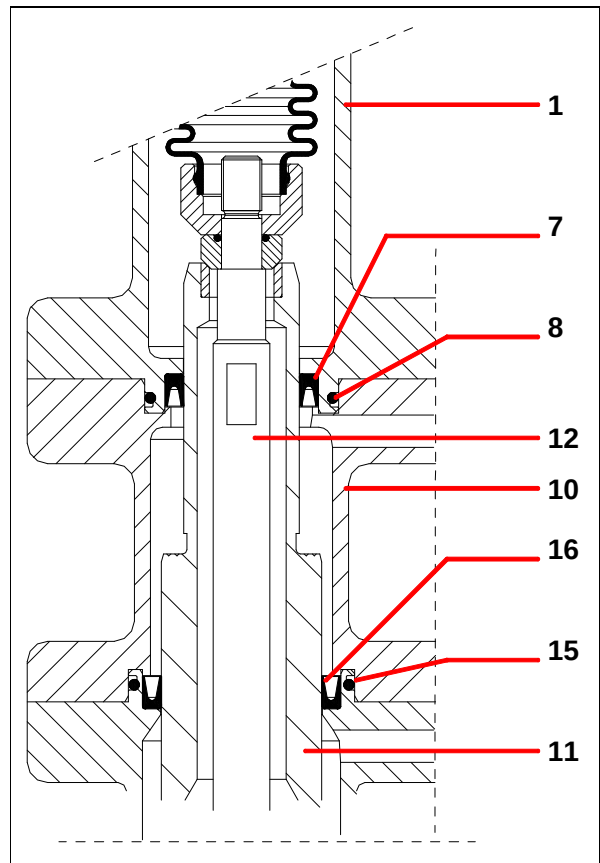
☞ **Make sure the new seals (7 & 16) are installed in the proper direction.**

Both seals (8 & 15) must be replaced.

When reassembling, carefully insert piston (11) into seal (7) which is in the reverse order.

☞ **Caution : Before tightening the nut (14),**

- Place the rod (12) into piston (11).
- Place the piston (11) into the upper part of the cylinder (10).
- Tighten the nut (14) holding the rod (12).



■ FILLING VALVE (5)

Piston removal (11) : refer to § "PISTON".

Unscrew rod (12) from motor rod.

In case of wear, replace valve (5) and seal (4).

☞ Caution !

When reinstalling, rod (12) must be glued into motor rod with Loctite adhesive.

■ REVERSING BLOCK

Guards (motor cover, coupling shields, connectors,...) have been designed for a safe use of the equipment.

The manufacturer will not be held responsible for bodily injury or failure and / or property damage due to destruction, the overshadowing or the partial or total removal of the guards.

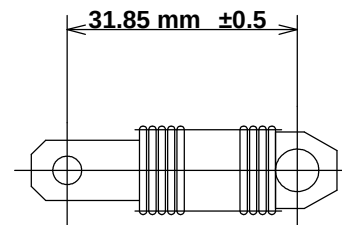
Disassemble cover by removing the 2 CHc screws.

Dissociate female yoke from reversing block lever.

Dismount reversing block by removing screws.

Reinstall the new reversing block in the reverse order of the disassembly sequence.

☞ **CAUTION :** The number of spirals must equally be distributed on each fastening parts in order to get the above dimension.



When reassembling the different components :

- Clean the parts with the appropriate cleaning solvent.
- Install new seals if necessary, after having lubricated them with PTFE grease.
- Lubricate the piston and the inside of the cylinder to prevent from damaging the seals.
- Install new parts if necessary.

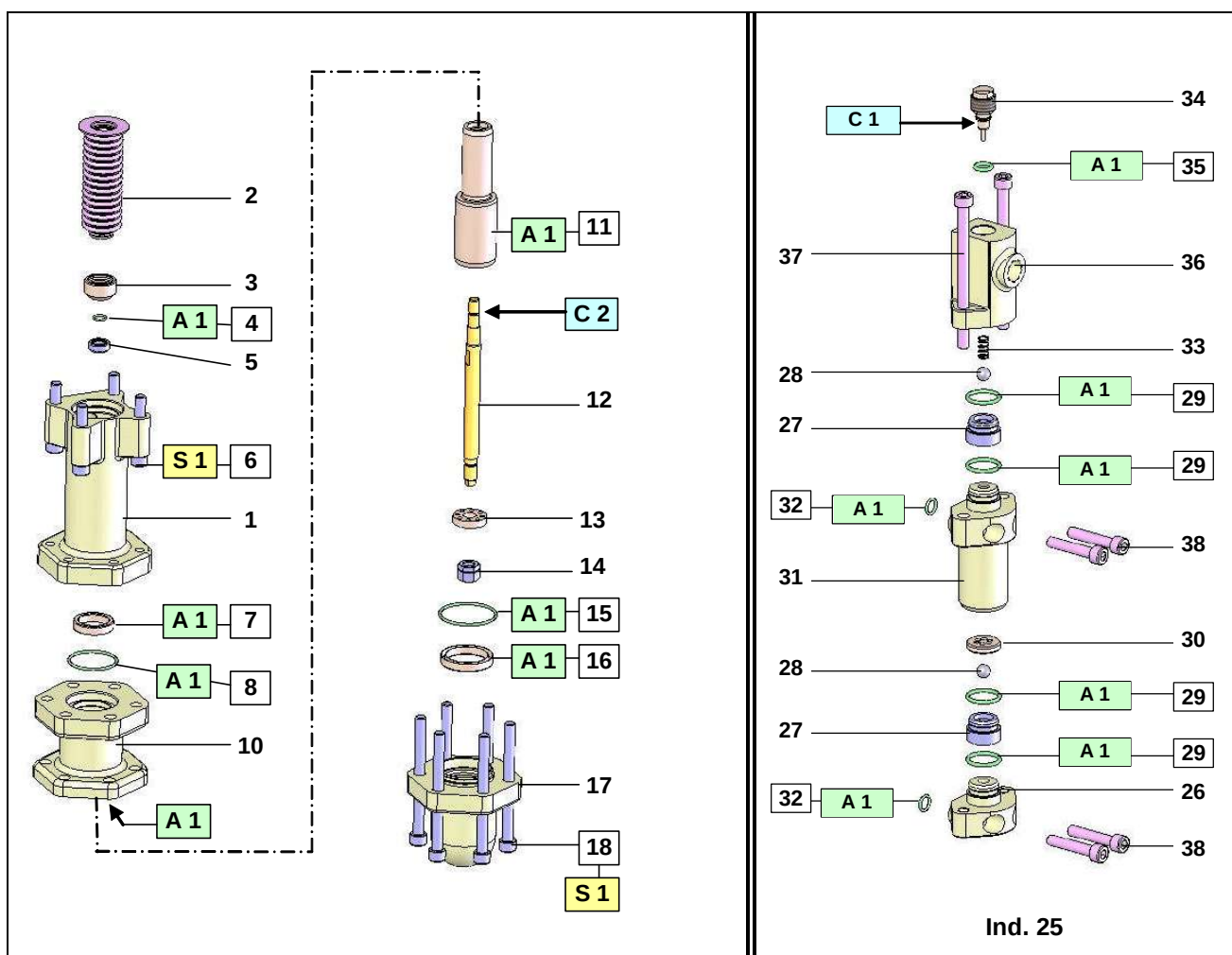
■ DEGREES OF WEAR

The wetted parts in contact with the material are subject to wear with time. It depends, of course, on the rates and duration of pump operating; also on the material handled.

Under normal operating and servicing conditions, with standard filled material not including foreign matters or chemically aggressive, the average working life can be estimated as :

- **1 million strokes for the tightness seals.**
- **10 millions strokes for the bellows.**

ASSEMBLY INSTRUCTIONS



Index	Instructions	Description	Part number
A 1	PTFE grease	"TECHNILUB" grease (10 ml)	560.440.101
C 1	Medium strength - Aneorobic Pipe Sealant - Similar as Loctite 577		
C 2	Low strength - Aneorobic Adhesive - Loctite 222		
S 1	Screwing torque : 40 Nm / 29.5 ft/lbs		