



Auzer

Dosing Range Pumps



Auzer Dosing Range

1. DUTY CONDITIONS

Pumps should be installed only on the applications for which, they were specified by Auzer Pumps, having taken account of materials of construction, flow rates, pressure, rotational speed and the environment.

Should any change in duty conditions be envisaged, Auzer Pumps recommendations should be sought in the interests of efficiency, safety, and suitability.

2. INSTALLATION RECOMMENDATIONS

At the system design stage, consideration must be given to the provision of plugs suitable for gauges, filling or flushing connections and the installation of non-return, isolating or pressure relief valves. All pipework should be independently supported.

IMPORTANT

* For ease of maintenance the correct dismantling space must be provided (refer to the pump dimension sheet).

* All bolts and nuts securing flanges and base mounting fixtures must be checked for tightness before operation.

* To eliminate vibration, the pump must be correctly aligned with the drive unit and all guards must be securely fixed in position.

* When commissioning the plant, all joints in the system must be thoroughly checked for leaks.

* Suction must be clean to prevent tramp material from damaging the pump. As an added precaution a temporary strainer may be fitted.

3. STARTING

NEVER RUN THE PUMP IN A DRY CONDITION, EVEN FOR A FEW REVOLUTIONS OR THE STATOR WILL IMMEDIATELY BE DAMAGED. Fill the pump with liquid before starting, this is not for priming purposes but is required for lubrication, to prevent damage to the Stator on starting up. The pump must be installed with the branches vertical so that when the pump stops, sufficient liquid is trapped in it to provide lubrication on starting again. If the pump has been standing for some time or has been drained by means of the plug beneath the body of the pump, the pump must be filled with liquid.

4. ROTATION

All Auzer Dosing Range pumps run in an anti-clockwise rotation when looking on the pump end cover and they are NOT reversible.

5. DISMANTLING THE PUMP

5.1 THE STATOR (Item 3)

Remove the Socket Screws (Item 19) to release the End Cover (Item 1) and the Stator can now be removed. When removing the stator, support the Rotor (Item 18) to prevent it striking the Barrel (Item 2). It will assist in re-fitting a replacement stator to the rotor if the stator is wetted with the fluid being pumped

5.2 THE ROTOR (Item 18) and ROTOR COUPLING (Item 4)

Remove the Socket Screws (Item 21) securing the Barrel (Item 2) to the Body (Item 14) and withdraw the barrel.

5.3 MECHANICAL SEAL PUMPS

Taking care not to damage the ceramic component of the Mechanical Seal (Item 24), force back the Seal Collar (Item 23) against the spring to uncover the Shaft Pin (Item 5) which can now be pushed out and the rotor and coupling assembly detached. Alternatively, on motorised units, the shaft pin can be uncovered by slackening the Cap Screws (Item 12) securing the Shaft Extension (Item 31) and drawing it off the motor shaft while on bare shaft pumps the Bearing Circlip (Item 31) must be removed and the shaft assembly drifted towards the seal. The Rotor Coupling is separated from the rotor by pressing out the Rotor Pin (Item 20). Before reassembly, ensure that the shaft extension runs true and concentric with the bore of the ceramic static component of the mechanical seal.

WARNING WHEN RE-ASSEMBLING PUMPS FITTED WITH MECHANICAL SEALS IT IS MOST IMPORTANT THAT THE SPRING OF THE SEAL IS FULLY COMPRESSED BEFORE AND DURING THE LOCKING OF BOTH CAP SCREWS (item 12). FAILURE TO OBSERVE THIS WARNING WILL RESULT IN PREMATURE DAMAGE TO THE MECHANICAL SEAL FACES.

5.4 PACKED GLAND PUMPS

Drive out the Shaft Pin (Item 5) to separate the Rotor Coupling (Item 14) from the Shaft (Item 30) and drive out the Rotor Pin (Item 20) to release the rotor from the rotor coupling.

6. BEARINGS Bare shaft Pumps only.

The Bearings (Item 16 and Item 17) are grease pre-packed and routine lubrication is unnecessary. If it is necessary to renew the bearings, release the nuts securing the Bearing Housing (Item 15) to the Body (Item 14) and withdraw the bearing housing and shaft (Item 30) Extract the Bearing Circlip (Item 13) to remove shaft and bearings from the housing. Bearings may now be pressed off the shaft and replaced.

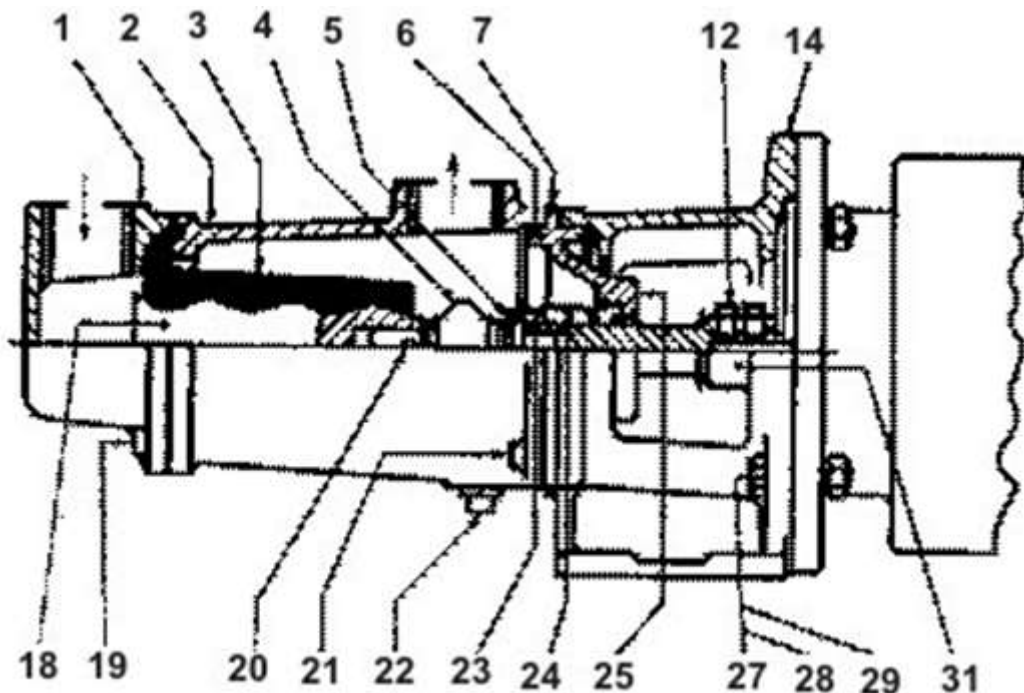
7. GLAND PACKING

Gland packing is carefully fitted to all pumps before dispatch, but the packing should be finally adjusted after the pump has been run-in. Under normal pumping conditions a slight drip from the gland, when working under pressure, does no harm and assist lubrication of the packing. A gland drip is, however, undesirable when handling corrosive, degreasing or abrasive solution and the gland should then be carefully tightened while the pump is running to ensure satisfactory sealing under pressure or to stop the entry of air under suction. When packing rings are replaced, the manufacturer's recommendations should be followed.

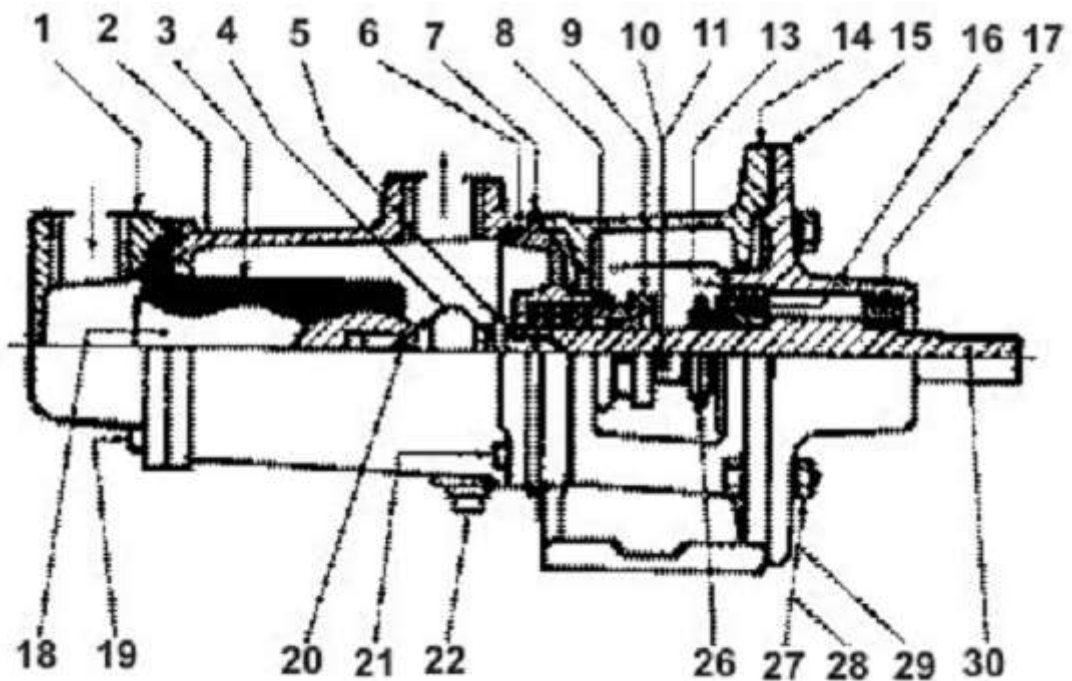
8. THE ELECTRIC MOTOR

When fitting a replacement motor to an assembled pump, ensure the motor shaft and flange are clean and free from burrs. The Pump Shaft Extension (Item 31) should be firmly pressed home on the motor shaft before tightening the Cap Screws (Item 12).

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Pump with Packed Gland



Pump with Mechanical seal

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ITEM No.	DESCRIPTION
1	End Cover
2	Barrel
3	Stator
4	Rotor Coupling
5	Shaft Pin (Mechanical Seal pump)
5	Shaft Pin (Packed Gland pump)
6	Seal Ring
7	Gland Section
8	Gland Packing
9	Gland
10	Gland Stud M6 x 25
11	Nut M6
12	Socket Cap Screw
13	Bearing Circlip (Bare shaft pumps only)
14	Body
15	Bearing Housing
16	Inner Ball Bearing
17	Outer Ball Bearing

18	Rotor
19	Socket Cap Screw M6 x 20
20	Rotor Pin (ADF, ADG Pumps)
20	Rotor Pin (ADH Pumps)
21	Socket Cap Screw
22	Drain Plug
23	Seal Collar
24	Mechanical Seal
25	Mechanical Seal Housing
26	Thrower
27	Bearing Housing Bolt or Motor Bolt M10 x 30
28	Nut M10
29	Washer M10
30	Shaft (Bare shaft pumps only) 1
31	Shaft Extension (motorised version only)

