

To replace the rings:

- Strip the cylinder as mentioned above.
- Clamp the rod in a vice and stretch each ring over the plunger's thin side with a screwdriver.
- Partially place the new ring in the chamfer and slip the rest in position with the screwdriver.
- If the rings are too slack or too tight, they should be replaced with new ones.

Once you are satisfied with the new rings, replace the plunger in the cylinder and reassemble the cylinder as mentioned previously.

To renew the footvalve:

- Remove the footvalve as indicated previously.
- Remove the splitpin and replace the components.

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To replace the piston valve:

- Remove the plunger as mentioned above. Unscrew the locknut and plunger.
- Replace the valve and put the components back in the same order.

To replace the forcehead packing:

- Disconnect the rods.
- Unscrew the forcehead and remove over the rod.
- Unscrew the locknut and shake or press the packing out of the casing.
- Insert the new packing, slip the forcehead over the rod and screw it into position.

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User Manual

Forcepumps (surface pumping)

Model: AS50F40, AS60F40
AS70F40, AS80F40, AS100F40



Installation:

- Mount the cylinder by placing the baseplate on a sturdy concrete surface and fixing it with 16mm diameter high tension (HT) bolts.
- Ensure that the forcehead is placed in the centre of the windmill square, directly below the rod.
- Connect the rods and check whether the stroke length correlates with the stroke of the windmill.
- The inlet and outlet can now be connected.
- For high pressure requirements, it is advisable to connect an air vessel and checkvalve to your outlet.

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To strip the cylinder for maintenance:

- Disconnect the rods.
- Unscrew the bolts on the flange until the whole top section, including the forcehead, flange and T-piece, has been loosened and can be removed.
- Pull out the rod with plunger.
- Remove the cylinder by unscrewing it from the bottom T-piece.
- Tap the footvalve with a soft object from the bottom until it topples over.
- Remove the footvalve from the top.

To reassemble the cylinder:

- Screw the cylinder tube into the bottom T-piece.
- Slide the footvalve in laterally from the top of the cylinder, push it down and rotate into position.
- Push the plunger into the tube.
- Slip the forcehead over the rod and place the flange in position.
- Bolt the flange and connect the rods.

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When the cylinder fails to deliver water

it could be the result of one of the following:

- The rings could be worn
- Either of the two valves could be damaged
- The footvalve could have twisted or could be defective
- The valve stop could be defective
- The Forcehead packing could be worn
- The suction pipes could be leaking

The cylinder should be opened up for inspection.

Damaged parts can be replaced individually.

Leaking packing should be replaced.

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