

## To replace the rings:

- Strip the cylinder as mentioned above.
- Clamp the rod in a vice and with a screwdriver, stretch each ring over the plunger's thin side until it comes off.
- Partially place the new ring in the chamfer and slip the rest into position with a screwdriver.
- Place the plunger wrong way round into the cylinder to check whether the plunger glides back and forth with ease. One can also establish whether the new rings are sealing properly.

Replace the new rings if they are too slack or too tight.

Once you are satisfied with the new rings, remove the plunger and reassemble the cylinder as mentioned above.

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## To renew the footvalve:

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

## 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 remove the rod support:

- Remove the circlip with pliers.
- The rod support has been loosened and can easily be removed.

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# JOOSTE

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## User Manual

### Deep Borehole Cylinders (deeper than 60m)

Model: AS50RDS, AS60RDS,  
AS70RDS, AS80RDS



## 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 it could be defective
- The valve stop could be defective
- A rod could be broken
- A riser pipe could be loose or leaking

The cylinder should be pulled up for inspection.

If the cylinder has had a long working life, it is advisable to pull up the whole cylinder and to replace all the working parts. Faulty parts in relatively new cylinders can also be replaced individually.

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## To strip the cylinder for maintenance:



- Remove the rust retainer by unscrewing the locknut, then turn the cylinder upside down.



- Tap the edge of the footvalve with a soft object until it topples over.



- Remove the bolts.



- Slide out the footvalve.



- Push out the plunger for inspection.

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## Reassembling the cylinder:



- Push the plunger through the cylinder until the rod emerges from the opening with the screw-thread. Check that the rings slide through the cylinder with ease.



- Slide the footvalve in laterally from the bottom of the cylinder, past the tapped holes.



- Replace and fasten the bolts. Rotate the footvalve until it rests in position against the bolts.



- If it does not turn correctly into position, apply pressure to the rod by tapping it on a log.



- Place the rust retainer on the first rod, directly above the cylinder rod joint.

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