

Servicing Instructions

Inspection and Maintenance

1. These hose reels have been designed for long life, but it is recommended that they are maintained in accordance with Australian Standard AS 1851.2 "Maintenance of Fire Protection Equipment Part 2 : Fire Hose Reels" or in New Zealand, New Zealand Standard 4503, "Installation, distribution and maintenance of hand operated fire equipment for use in buildings".

The hose reel bearings have been tested and shown to complete 1.3 million revolutions without failure. In the unlikely event that these components need replacing or the gland quad ring seals fail, the following procedure should be followed.

Gland and Bearing Maintenance Procedure

1. Ensure stop valve is closed, open nozzle to release pressure.
2. Unwind the hose.
3. Unscrew the six screws holding the side plate outer and remove plate.
4. Remove the circlip and retaining washer from end of the gland inner.
5. The gland outer (i.e.tailpiece) may now be pulled off the gland inner. **Note:** Be prepared for some water spillage.
6. Inspect the gland inner for wear, should it require replacing follow steps 8, 9 and 12 – 14.
7. If the only problem is leakage past the quad rings, they should be replaced and the reel re-assembled as per steps 15 – 22.

Removal of Gland Inner

8. Using a 45mm AF spanner on the gland flats, turn the gland **clockwise** (it has a left-hand thread) to unscrew, and remove it from the spindle.
9. The hose reel may now be removed from the spindle. Inspect the bearing for wear. The bearing has been designed to never need replacing, however in the unlikely event that it does require replacement, follow steps 10 and 11.

Replacement of the Bearing

10. The worn bearing may be cut off carefully with a hacksaw or carefully split using a cold chisel.
11. The new bearing may be pressed onto the spindle using a short length (150mm) of 35-40mm ID pipe as a drift. Ensure the bearing has its flanged end against the elbow.

Refitting the Gland Inner

12. Refit the hose reel to the spindle.
13. Fit a new gland seal washer inside gland inner.
14. Ensure both threads are clean and free from grease and oil. Use 'Loctite 7471 – Activator' and 'Loctite 638 - Retaining Compound' on the spindle before screwing the gland inner onto the spindle (turning **anticlockwise**). Tighten to 35 Nm.

Refitting the Gland Outer (i.e. Tailpiece) and Outer Plate

15. The quad rings should be replaced each time the gland unit is disassembled.
16. Lubricate the new quad rings with molybdenum disulphide grease and fit into the gland grooves. Ensure the quad rings do not get twisted or turned over during installation, this will cause leaks.
17. Slide the gland outer (i.e. tailpiece) onto the gland inner taking due care not to damage the quad ring seals. Rotating the gland outer may ease this step. Ensure the gland outer rotates freely on the gland inner.
18. Refit the retaining washer and circlip. If the circlip is corroded it should be replaced.
19. Screw the outer plate back into position (**Note:** replace any damaged screws). Use only recommended screws from manufacturer.
20. Close the nozzle, pressurise the hose by opening the ball valve, then check for leaks in hose and gland. If any are found, replace faulty parts and repeat necessary steps as per this procedure.
21. Rotating the reel clockwise, wind the hose back onto the reel while still pressurised.
22. Interlock the hose nozzle into stop valve clip and close the stop valve. Open nozzle to relieve pressure (be prepared to catch water spillage during this operation) then fully close the nozzle.

Tools Required

Screwdriver – Phillips No.2
Molybdenum Disulphide grease
Hammer
Pipe 150mm long, 35-40mm ID (32 NB)

External circlip pliers
45mm AF Spanner
Cold Chisel or hacksaw