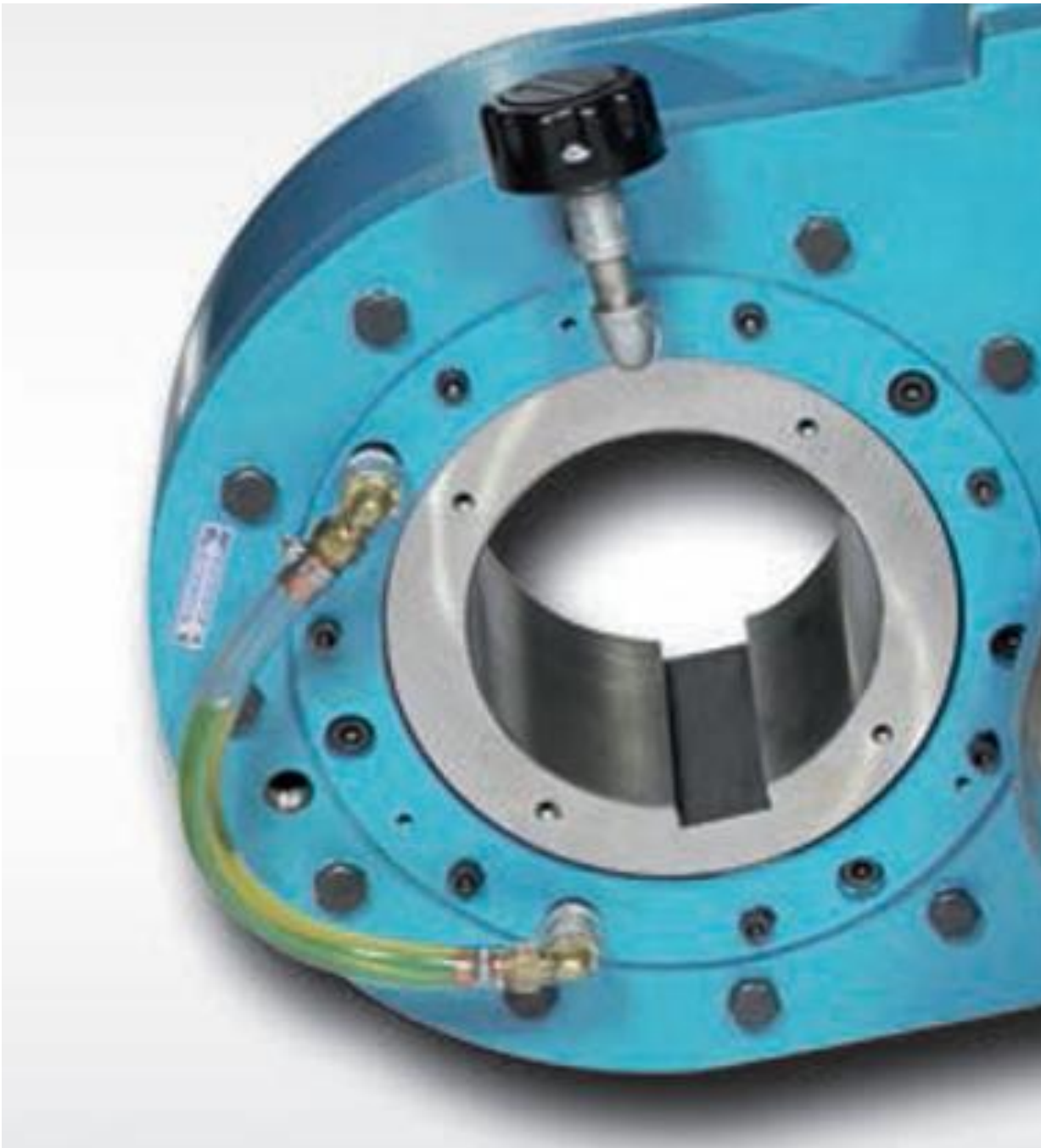


**Installation Instructions for
FRSC & FRTC Lubrication Kit
E 08.797**



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Important

Please read these instructions carefully before installing the product. Your particular attention is drawn to the safety notes.

These installation instructions are valid on condition that the product meets the selection criteria for its proper use. The selection and design of the product are not the subject of these installation and instructions.

Disregarding or misinterpreting these installation instructions invalidates any product liability or warranty by RINGSPANN; the same applies if the items are lost or changed.

These installation instructions should be kept in a safe place and should accompany the product (Freewheel) if it is passed on to others – either on its own or as part of a machine – to make it accessible to the user.

Safety Notice

- Installation of this product should only be carried out by skilled personnel.
- Repairs may only be carried out by the manufacturer or accredited RINGSPANN agents.
- If a malfunction is indicated, the product or the machine into which it is installed should be stopped immediately, and either RINGSPANN or an accredited RINGSPANN agent should be informed.
- Switch off the power supply before commencing work on electrical components.
- Rotating machine elements must be protected by the purchaser to prevent accidental contact.
- Should not be installed or changed if the oil in the Freewheel is hot.
- Ensure the unit is at standstill and isolated before starting with the installation.
- Supplies abroad are subject to the safety laws prevailing in those countries.

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1 General Information

Lubrication kit components can differ due to size and type of items supplied and availability of stock items; therefore, the Bill of material is subject to change without any notice.

- The lubrication kit is mainly for indicating the level of the oil inside the freewheel.
- It is also used to vent the freewheel during operation, preventing any oil leaks from the freewheel and dust from entering it.

A complete lubrication kit can be used as:

- Oil level indicator.
- Beather (ventilation).



Caution!

The lubrication kit can be used as a safety component; it is therefore essential that these installation instructions are followed carefully.

1.1 Application as an Oil Level Indicator & Breather.

The lubrication kit is primarily used to monitor the oil level in the freewheel. It is essential to keep the oil level above the specified requirement outlined in the freewheel's installation and operational manual. The lubrication kit helps monitor this oil level.

Additionally, when the freewheel is in operation and generating heat, it is important to vent any air buildup through the breather. For this reason, the breather's mounting position must always be above the oil level. If oil enters the breather, it can clog it and prevent the breather from functioning properly.

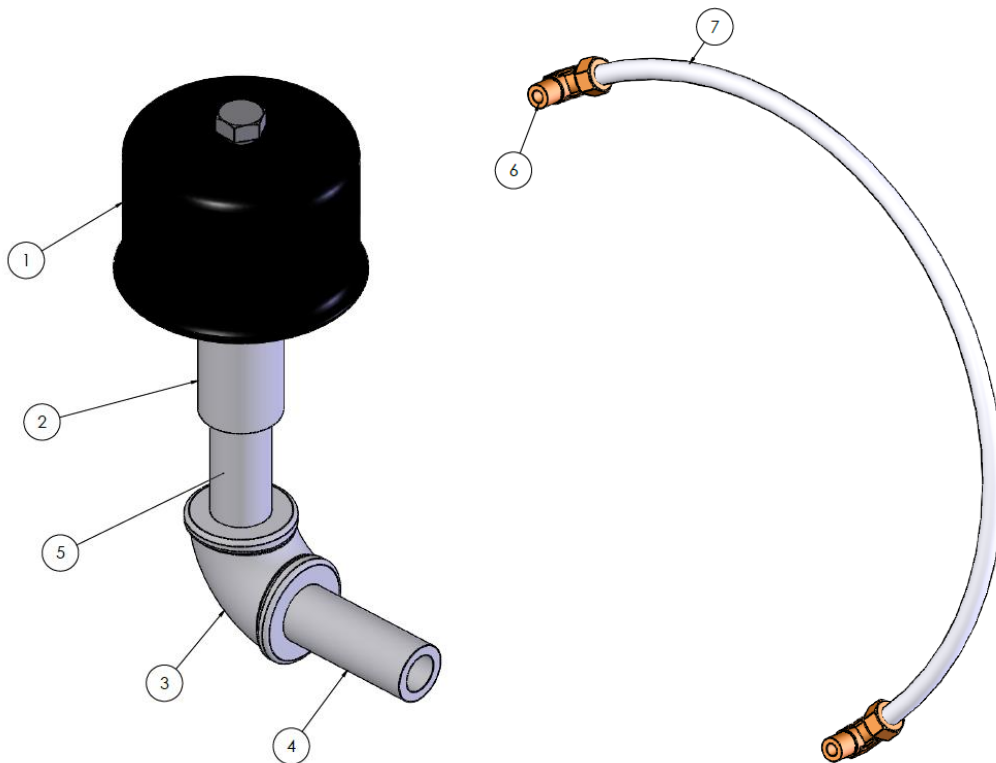
2 Conditions at delivery

The Lubrication Kit of the Freewheel is delivered unassembled, properly packed in a transparent bag.

Store the lubrication kit in a protected, clean and dry area.

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3 Design



Lubrication Kit Bill of material:

1. Air Breather.	1 off
2. Female to Female Nipple.	1 off
3. Male to Female 90° Elbow / Female to Female 90° Elbow.	1 off
4. Male to Male Socket / Reducer.	1 off
5. Male to Male Nipple (dependent on item 3).	1 off
6. ELBOW 1/2" M BSP – 12MM PIPE.	2 off
7. Festo PUN-H-12 x 2 HYDRAULIC PIPE	700 mm



Please note!

More information, in particular on the items and installation, layout and positioning of the lubrication kit, can be found in the RINGSPANN Installation and operation manual. Alternatively, contact RINGSPANN South Africa directly.

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4 Installation

4.1 Installation Instruction for Oil Level Indicator

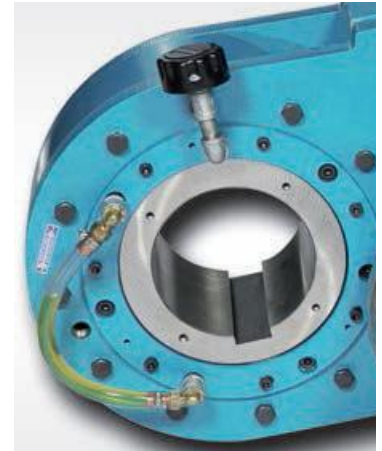
BEFORE ATTACHING TORQUE ARM

(Oil Fill is Approximated to Shaft Centreline)

A sufficient number of oil inlet holes is provided to permit arrangement of the oil level indicator for any position of the torque arm (Firstly, identify the final mounting position of the freewheel).

Assembly Sequence:

1. Mark the oil screws above and below centre of the freewheel.
2. Rotate the Freewheel on the shaft until both oil screws to be unscrewed are above the centre line of the shaft to ensure that oil does not leak.
3. Remove the oil plug screws and fit the elbows (Item 6) with a Teflon thread Sealer (PTFE tape).
4. Tighten the elbows (Item 6) and position them as shown in the picture on the right.
5. Install the adapters (part of Item 6) into the elbows (Item 6) using Teflon thread sealer.
6. Mount the tube (Item 7) onto one of the adapters (Item 6) and secure with a clamp.
7. Cut the pipe (Item 7) to a length suitable for the size of the freewheel.
8. Mount the free end of the tube (Item 7) onto the other adapter (Item 6) and secure with a clamp.
9. Rotate the Freewheel to the end position, and the pipe will indicate the oil level.
10. Attach the torque arm to the Freewheel.
11. The tube (Item 7) should display an oil level at the shaft centreline.
12. If not, then add or remove oil from the Freewheel as necessary to obtain a "half-full" oil level.
13. Remove the oil screw near the top and install oil breather filter fittings (Item 1 - 5) using Teflon thread sealer.
14. Breather must be positioned vertically upward at the end of the installation.



5 Maintenance

Proper lubrication and lubricant maintenance are the most important single maintenance factor for long, effective, trouble-free operation of freewheels.

The lubrication kit does not need maintenance, but consider the following when doing an oil change: an oil change should not be performed while the equipment is in operation.

Note: Always verify the oil level in the Freewheel after installation and before startup.

1. Remove the breather filter. (Do not remove elbow fitting).
2. Thoroughly clean around the fitting before removing.
3. Replace the breather filter element if dirty.
4. Drain oil from the lowest oil plug on the freewheel side cover plate.
5. Replace drain plug.
6. Flush the unit by adding a quantity of clean oil.
7. Remove the drain plug to drain flushing oil.
8. Replace the drain plug and fill to half of the volume of the clutch.
9. Replace the breather filter.



WARNING!

Do not attempt to convert oil-lubricated Freewheels to grease lubrication or grease lubrication to oil lubrication. Any such conversion may result in malfunction and will void any warranty.