

Installation sheet for *DEUBLIN* Rotating Unions

This installation sheet has been written for operating and maintenance personnel who, by order of the owner, have been trained to work with *DEUBLIN* Rotating Unions and authorized to carry out the owner's tasks. It gives directions for the correct installation of the *DEUBLIN* Rotating Unions.

This installation sheet should not be used as a replacement for the instruction manual but in addition to it.



- All operations must be performed with utmost care and cleanliness! Only use genuine *DEUBLIN* parts!
- All potential sealing plugs (axial and radial) have been preassembled for delivery, but not sealed!
- The radial vent holes are usually not plugged!

1.1 Preparing installation

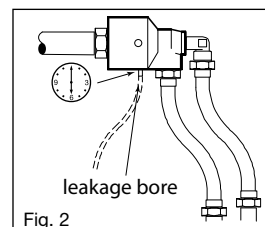
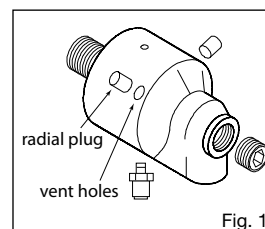
- Install and check filter equipment for flow medium.
- Check flow medium for dirt. (recommendation: less than 60 µm)
- Thoroughly rinse equipment (with *DEUBLIN* Rotating Unions removed) and replace flow medium if necessary.
- Clean the end of the shaft thoroughly.
- The concentricity must be within the specifications. (Please contact *DEUBLIN*)

1.2 Installation

The installation process is an essential factor in the operational reliability of the *DEUBLIN* Rotating Union. Owing to the bearing used, it is important that it can be rotated easily and free of any distortion when installed. The bearing cannot compensate for distortions caused by the use of incorrect hose lengths or the use of incorrect screw couplings.

Operation under dirty ambient conditions:

- Obturate vent bores that are not used. Press sealing plug flush with housing surface. Press hose connection into deepest vent bore (fig. 1 + 2).
- Connect the flexible hose lines pressure-tight to the *DEUBLIN* Rotating Union.
- Screw the *DEUBLIN* Rotating Union pressure-tight to the machine shaft.
- Arrange the hose lines in a curve, free of torsional stress and connect pressure-tight to the fixed tubes (fig. 2).
- It is crucial to adhere to the installation sequence.
- The *DEUBLIN* Rotating Unions may only be used for their intended application.
- Wherever applicable, do not close the leakage holes. Aeration will help to avoid generation of condensate.
- Please make sure that any leakage hose is installed at the deepest position possible (6 o'clock). Lay leakage hose continuously downward! In order to guarantee that the accumulated leakage is drained off, an additional aeration must be provided to avoid vacuum in the sealing area.
- Do not pipe solid! Danger of leakage and premature wear due to tension!
- With medium temperature <90°C (cooling water, air, vacuum), choose an appropriate hose. Plastic hoses cannot be recommended due to their rigidity.
- With medium temperature >90°C (hot water, thermal oil or vapour), use flexible metal hoses. In any case make sure that the nominal pressure of the hoses in use is higher than system pressure.



1.3 Checking the installation

- Observe smooth running!
- Manually check *DEUBLIN* Rotating Unions for good flexibility of hose and housing (avoid tensions).
- Put equipment in operation and observe *DEUBLIN* Rotating Unions until the equipment is fully operated.
- Ensure tightness at final pressure and max. temperature.



- To prevent destruction of sealing elements, avoid dry-run!
- An easy rotation of the *DEUBLIN* Rotating Union must be guaranteed even under pressure!

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