

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 work is to be performed with the utmost care and cleanliness! Only use original *DEUBLIN* parts!

1.1 Preparing installation

- The shaft end for the fixture of each *DEUBLIN* Rotating Union is to be executed in accordance with the details on the drawing. (The above can be requested from *DEUBLIN*)
- The following is to be checked or assured:
 - Matching number of channels of the *DEUBLIN* Rotating Union and shaft!
 - Pilot diameter and pilot diameter depth!
 - 30° chamfer as slip for the O-ring!
 - Edge rounded through polishing!
 - Concentricity and axial run-out!
 - Cleanliness of shaft bore (free of shavings and burrs)!
- Install and check filter system for media.
- Make sure that the *DEUBLIN* Rotating Union is suitable for the task at hand (cf. details in machine manual with order no. of *DEUBLIN* Rotating Union).

1.2 Installation

The installation process is an essential factor in the operational reliability of the *DEUBLIN* Rotating Union. Because of the ball bearings or the necessary uniform sealing gap it is vital that they rotate freely when mounted and are not subjected to any tension. Tension, be it caused by an incorrect length of hose, or the use of the wrong fittings, cannot be compensated by the installed ball bearings or the bearing bushings. Similarly, the use of a rigid piping will result in premature breakdown..

- Screw flexible hose lines pressure-tight in accordance with the number of channels of the *DEUBLIN* Rotating Union and connect *DEUBLIN* Rotating Union pressure-tight to the machine shaft.



- The *DEUBLIN* Rotating Unions non-contact sealing principle means that any additional torque lug as an anti-rotation device is rendered superfluous!
- To balance each alignment inaccuracy it is absolutely essential that a flexible connection is used!
Rigid pipe connections are not permitted!
- Do not clamp the housing of the *DEUBLIN* Rotating Union on the outer diameter!
- All work is to be performed with the utmost care and cleanliness!
- The hose lines are always to be arranged flexibly!
Rotating unions must be free of any tension, tensile and pressure loads.

1.3 Checking the installation

- Ensure concentricity!
- Commission the system and observe the *DEUBLIN* Rotating Union up to the system's service speed.
- Ensure that the connections are leaktight at final pressure and maximum temperature.
- Manually check the *DEUBLIN* Rotating Union for ease of movement of the hose (avoid tensioning).

ERRORS AND TECHNICAL MODIFICATIONS SUBJECT TO CHANGE!