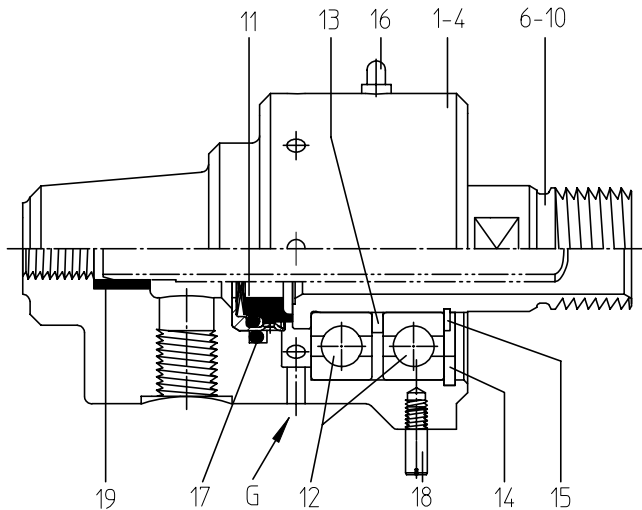


Maintenance Instructions

Series DX/DXS DN 10-80

IDX_E.DOC Rel. 15.09.99



1 Housing 1	* 11 Mechanical seal
2 Housing 2	* 12 Ball bearing
4 Housing R2	13 Support disk
* 6 Rotor R	14 Locking ring
* 6a Rotor SR	15 Locking ring
* 7 Rotor L	16 Lubrication nipple
* 7a Rotor SL	* 17 O ring
* 8 Rotor K	18 Shaft screw
* 8a Rotor SK	* 19 Slide bearing

* = wearing part

Repair

Repair is required during preventive maintenance or when leaks are detected at housing holes (G).

Dismantling the unit

- Remove locking ring 14.
- Remove rotor 6-10 with deep groove ball bearings 12 from housing 1-4. If necessary, use disassembly bolt and puller for ball bearings.
- Remove mechanical seal 11 from housing 1-4.
- Remove O ring 17 from housing groove.
- Version for rotating inner pipe: remove slide bearing 19 from housing 4.
- Remove locking ring 15, deep groove ball bearing 12 and support disk 13 from rotor 6-10.

Evaluating the parts

- The quality of the sealing surfaces of mechanical seal 11 and rotor 6-10 is of particular importance. These parts are lapped. Therefore, always replace mechanical seal 11. Reuse rotor 6-10 only if it is possible to re-lap the sealing surface. DXS: if the ceramic surface of rotor (6a-10a) is worn, use a new rotor.
- Replace O ring 17.
- Replace or relubricate deep groove ball bearings.
- Version for rotating inner pipe: replace slide bearing 19.

Reassembling the unit

- Version for rotating inner pipe: press slide bearing 19 into housing 4.
- Mount deep groove ball bearing 12, support disk 13 and locking ring 15 to rotor 6-10.
- Fit O ring 17 into housing 1-4 (lubricate O ring with Vaseline, do not use mineral grease).
- Carefully press mechanical seal 11 into housing 1-4. **Never apply pressure onto the carbon surface.** Place a mounting at the housing of mechanical seal 11. Clean the sealing surfaces of mechanical seal 11 and rotor 6-10 with a deposit-free agent!
- Press rotor 6-10 with deep groove ball bearings into housing 1-4.
- Mount locking ring 14 into housing 1-4.

■ ATTENTION ■

Never oil or grease the sealing surfaces!

Spare parts

It is recommended to stock the wearing parts mentioned above. Always specify the part number and the complete type designation of the rotary joint as per type designation plate when ordering spare parts.

Please refer to our GENERAL MAINTENANCE INSTRUCTIONS "IA" for further details.

- We reserve the right to technical modifications -