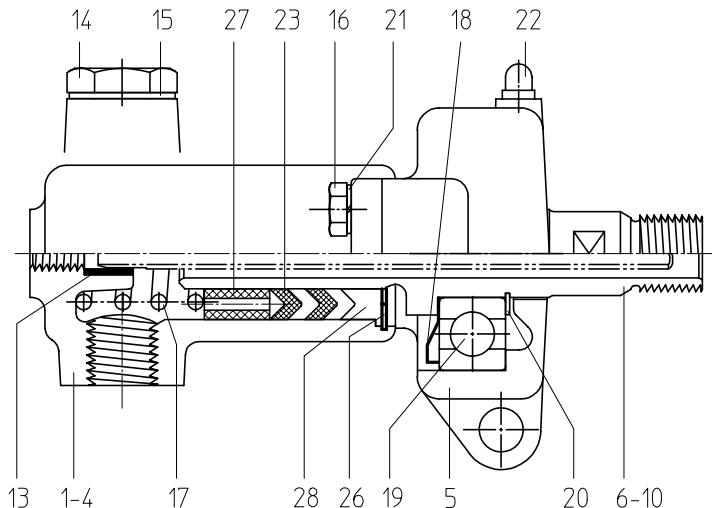


Maintenance Instructions

Series M

IM_E.DOC Rel. 15.09.99



1 Housing 1	* 17 Pressure spring
2 Housing 2	* 18 NILOS ring
3 Housing 3	* 19 Ball bearing
4 Housing R2	20 Locking ring
5 Bearing housing	21 Washer
* 6 Rotor R	22 Lubric. nipple
* 7 Rotor L	* 23 Seal set
* 8 Rotor K	26 Locking ring
* 13 Slide bearing	* 27 Support bearing
14 Vacuum valve	* 28 Thrust collar
* 15 CU seal	29 O ring vacuum valve
16 Hex screw	

* = wearing part

Repair

Repair is required during preventive maintenance or when leaks are detected between housing 1-4 and bearing housing 5.

Dismantling the unit

- Unscrew screws 16. Remove housing 1-4 from rotor 6-10.
- Dismount locking ring 26 and remove internal parts 28, 23, 27, 17 from housing 1-4. **Caution when dismantling locking ring 26! The inner parts are under spring pressure!** After many years of operation, the inner parts may be stuck.
- Remove bearing housing 5 from rotor 6-10 (towards roller connection).
- Remove locking ring 20, ball bearing 19 and NILOS ring 18 from rotor 6-10.
- Version for rotating inner pipe: remove slide bearing 13 from housing 4.
- Version M 3: unscrew vacuum valve 14 from housing.

Evaluating the parts

The surface quality of the rotor in the coated sealing and bearing area of support bearing 27 and seal set 23 is of particular importance. This area is polished. Reuse rotor 6-10 only if the sealing and bearing surfaces are undamaged or can be repolished without reducing the coating layer below the tolerance level.

- Replace support bearing 27, seal set 23 and thrust collar 28.
- Replace or clean ball bearing 19 and grease it.
- Version M 3: Check vacuum valve function; replace, if necessary. Replace sealing ring 15 and O ring 29.

Reassembling the unit

- Version with rotating inner pipe: press new slide bearing 13 into housing 4. Grease seal set 23 and rotor 6-10 in the sealing area in order to facilitate the mounting procedure.
- Mount pressure spring 17, support bearing 27, seal set 23 and thrust collar 28 with locking ring 26 into housing 1-4.
- Mount NILOS ring 18, ball bearing 19 with locking ring 20 to rotor 6-10.
- Press rotor 6-10 into bearing housing 5.
- Connect the two preassembled housings by means of screws 16 and washers 21.
- Version M 3: screw vacuum valve with new CU seal 15 into housing.

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 -