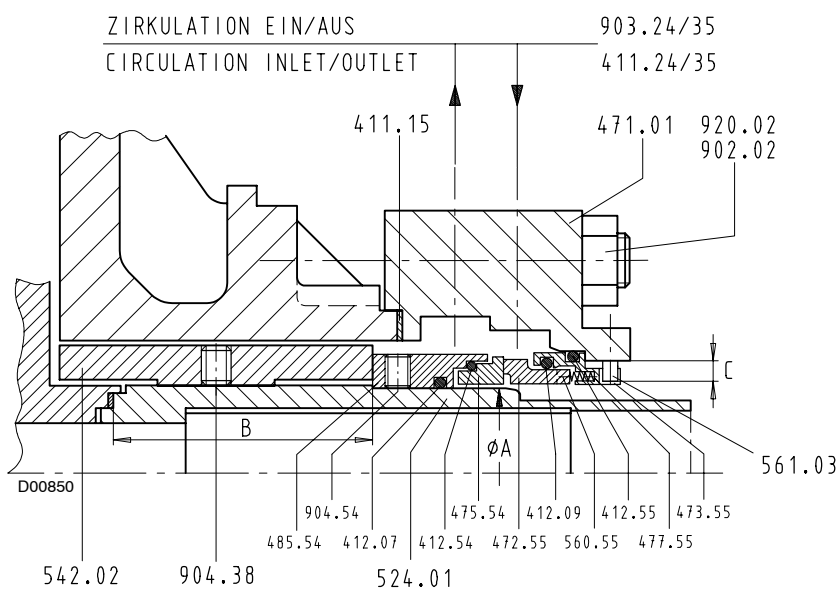


Dismantling and installation instructions for single-acting mechanical seals Type: Chetra 208

Dismantling:

Undo hex. nuts 920.02 and push seal cover 471.01 back against thrower 507.01. Remove casing cover 161. Take the complete rotating assembly of the mechanical seal with bush 542.02, shaft protecting sleeve 524.01 and joint ring 411.32 off the shaft. Undo the grub screws 904.54 and push the rotating assembly of the mechanical seal (comprising spring-loaded ring holder 485.54, seat ring 475.54 and O-rings 412.07 and 412.54) off shaft protecting sleeve 524.01. If necessary, undo grub screws 904.38 and slip bush 542.02 off the shaft protecting sleeve. Take seal cover 471.01 with the stationary seal assembly, joint ring 411.15 and thrower 507.01 off the shaft. Press the stationary seal assembly gently out of the seal cover. Disassemble spring-loaded ring 472.55 and spring-loaded ring holder 473.55. Make sure not to lose/damage O-rings 412.09 and 412.55 and springs 477.55.



Components from Mechanical seal

| | |
|--------|---------------------------|
| 412.07 | O-ring |
| 412.09 | O-ring |
| 412.54 | O-ring |
| 412.55 | O-ring |
| 472.55 | Spring-loaded ring |
| 473.55 | Spring-loaded ring holder |
| 475.54 | Seat ring |
| 477.55 | Spring |
| 485.54 | Tappet |
| 560.55 | Pin |
| 904.54 | Threaded pin |

| | | | |
|------------------------|------------------|------------------|------------------|
| P 08 | | | |
| P 06 | | | |
| P 05 | | | |
| P 04 | | | |
| P 03 | | | |
| P 02 | 33 | 55,8 | 3,5 |
| Bearing bracket | A (mm) | B (mm) | C (mm) |

Installation:

The mechanical seal should preferably be fitted with the shaft in vertical position. The following rules must be observed when installing a mechanical seal:

Extreme care and cleanliness during assembly are of overriding importance for trouble-free operation of the mechanical seal. The surface of shaft protecting sleeve 524.01 must be perfectly clean and smooth, the leading edge (bevel at the end of the shaft protecting sleeve) must be chamfered. Before fitting shaft protecting sleeve 524.01, check its sliding fit on shaft 210. Take adequate precautions to prevent damage to the surface of the shaft protecting sleeve when pushing on the rotating seal assembly. The rotating assembly must not be turned when pushed onto the shaft protecting sleeve. Push the rotating assembly of the mechanical seal onto the shaft protecting sleeve as far as it will go and fasten with grub screws 904.54.

Caution Check control dimension "B" against the sectional drawing of the mechanical seal. The required control dimension must be achieved automatically after the rotating assembly has been pushed onto shaft protecting sleeve 524.01 as far as it will go.

If bush 542.02 has been dismantled, push it against the mechanical seal and fasten with grub screw 904.38. Assemble seal cover 471.01 with spring-loaded ring 472.55, spring-loaded ring holder 473.55 and O-rings 412.07 and 412.55 and springs 477.55. Make sure that pin 560.55 and grooved pin 561.03 are installed correctly (see control dimension "C").

Use studs 902.02 and nuts 920.02 to fasten seal cover assembly 471.01 on the casing cover 161 in such a way that the connection bores of the circulation line for the air-cooled heat exchanger are located in the upper half.

Push the complete casing line cover assembly 161 carefully onto the shaft and into bearing bracket lantern 344.

Slide the pre-assembled shaft protecting sleeve 524.01 with bush 542.02 and the rotating assembly of the mechanical seal carefully onto the shaft into the seal chamber, until you can feel the effect of the springs 477.55 of the mechanical seal. Proceed with the assembly as described in the operating instructions of the pump.