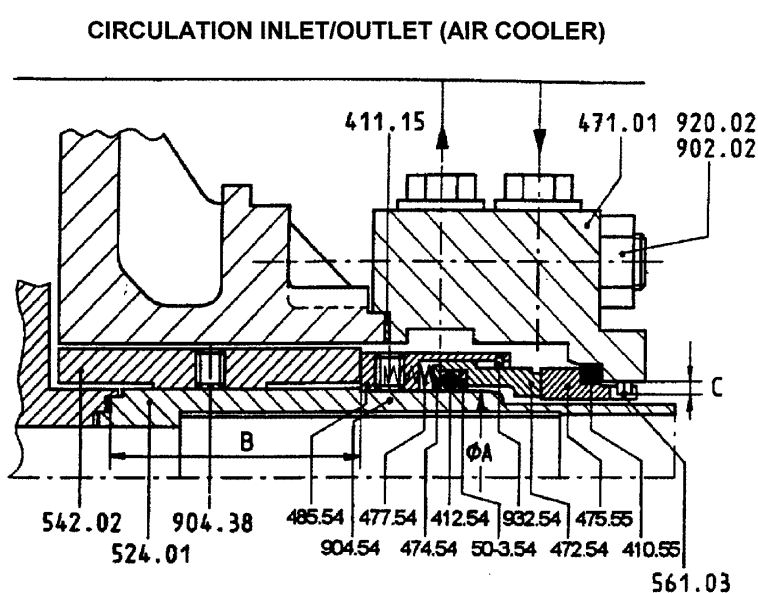


Dismantling and installation instructions for single-acting mechanical seals KSB: Typ B

Dismantling:

Undo the hex nuts 920.02 and push the seal cover 471.01 back to the 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 gasket 411.32 off the shaft.

Undo the threaded pin 904.54 and push the rotating assembly of the mechanical seal off the shaft protecting sleeve 524.01. If necessary, undo the threaded pins 904.38 and pull the bush 542.02 off the shaft protecting sleeve 524.01. Take the seal cover 471.01 with gasket 411.15 and the thrower 507.01 off the shaft. Remove the stationary seal ring 475.55 and the Profile joint 410.55 from the seal cover 471.01.



410.55 Profile joint
412.54 O-ring
472.54 Rotting seal ring
474.54 Thrust ring
475.55 Stationary seal ring
477.54 Spring
485.54 Tappet
50-3.54 Backing ring
524.01 Shaft protecting sleeve
542.02 Bush
904.38 Threaded pin
904.54 Threaded pin
932.54 Circlip

P 08	95	79.0	5.5
P 06	75	79.0	5.5
P 05	65	75.8	5.0
P 04	53	69.3	4.5
P 03	43	60.8	4.5
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. Pay attention to the following points:

Absolute cleanliness and utmost care are essential when fitting mechanical seals. Do not remove the protective cover from the seal faces until immediately before installation. The surface of the shaft protecting sleeve 524.01 must be perfectly clean and smooth, the leading edge must be chamfered.

Make sure that the surface of the shaft protecting sleeve cannot be damaged when the rotating assembly is pushed onto the shaft protecting sleeve. The rotating assembly must not be turned when pushed onto the shaft protecting sleeve.

Check the close sliding fit of the shaft protecting sleeve 524.01 on the shaft 210. Push the rotating assembly of the mechanical seal onto the shaft protecting sleeve 524.01 as far as it will go and lock it.

NOTE

Check control dimension „B“ against the sectional drawing of the mechanical seal. The required control dimension must be achieved after the rotating assembly has been pushed onto the shaft protecting sleeve 524.01 as far as it will go. If the bush 542.02 has been dismantled, push it against the mechanical seal and fix with threadet pin 904.38. Pre-assembly the seal cover 471.01 with the gasket 411.15, stationary seal ring 475.55 and the profile joint 410.55. Ensure that the check dimension „C“ complies with the sectional drawing of the mechanical seal.

NOTE

After inserting the stationary seal ring, check whether it is plane-paralles with the seal cover (max. admissible deviation 0.02 mm). Push the seal cover onto the shaft, so that the connection holes (for air cooled heat exchanger) are in the upper half. Then push the shaft protecting sleeve with the mouted rotating assembly and the gasket 411.32 onto the shaft.

Push the casing cover 161 carefully over the mechanical seal and mount the assembly in the bearing bracket lantern 344. Connect the casing cover 161 with the seal cover 471.01 by means of the studs 902.02 and nuts 920.02. Further assembly acc. to operating instruction for pump.