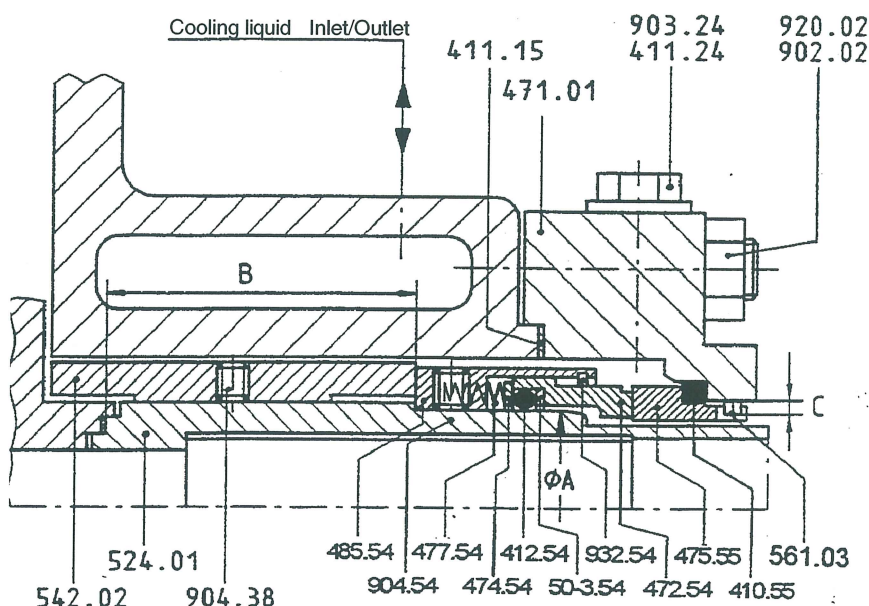


Dismantling and Installation Instructions for Single-Acting Mechanical Seals KSB: Type B

Dismantling:

Unscrew hex nuts 920.02 and push the seal cover 471.01 back to the thrower 507.01 and removed 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 threaded pins 904.38 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. Remove seal cover 471.01 with gasket 411.15 and thrower 507.01 off the shaft. Remove the stationary seal ring 475.55 and the ring-joint gasket 410.55 from the seal cover 471.01.



524.01	Shaft protecting sleeve
542.02	Bush
904.38	Threaded pin
561.03	Grooved pin
410.55	Ring-joint gasket
412.54	O-ring
472.45	Rotating seal ring
474.54	Thrust ring
475.55	Stationary seal ring
477.54	Spring
485.54	Tappet
904.54	Threaded pin
932.54	Circlip
50-3.54	Supporting ring

P 08	95	79.0	5.5
P 06	75	79.0	5.5
P 05	65	75.8	5.5
P 04	53	69.3	5.0
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 when installing a mechanical seal:

Absolute cleanliness and utmost care are essential when fitting mechanical seals. Do not damage seal faces. 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. Take necessary precautions that 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.

Before installation 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 as far as it will go and fasten with threaded pin 904.54.

Caution

Check control dimension "B". This will result automatically when the rotating assembly has been pushed onto the shaft protecting sleeve 524.01 until it does not go any further. Complete the seal cover 471.01 with grooved pin 561.03 (pay attention to control dimension "C"), stationary seal ring 475.55, and ring-joint gasket 410.55.

Caution

After inserting the stationary seal ring 475.55 check whether it is plane-parallel with the seal cover (max. admissible deviation 0.02 mm).

Fasten the preassembled seal cover 471.01 with studs 902.02 and nuts 920.02 to the casing cover 161 so that the connection holes (for cooling liquid) are in the upper half. Push the completely assembled seal cover 161 carefully onto the shaft and into the bearing bracket lantern 344. Push the preassembled shaft protecting sleeve 524.01 with bush 542.02 as well as the rotating assembly of the mechanical seal carefully onto the shaft into the seal chamber until the effect of spring 477.54 of the mechanical seal can be felt. Continue installation according to the operating instructions of the pump.