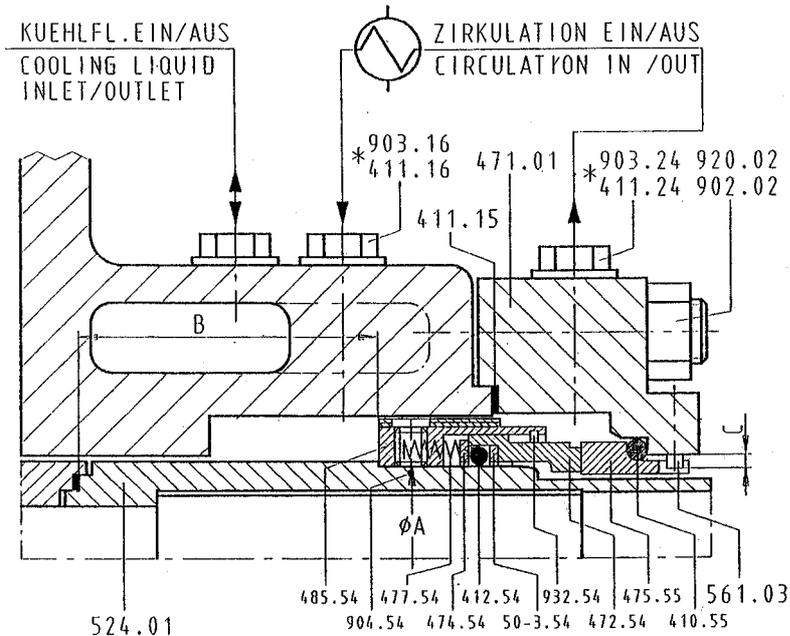


Dismantling and installation instructions for single-acting mechanical seals Type: Crane 57BRF

Dismantling:

Undo hex nuts 920.02 und 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. Take seal cover 471.01 with joint ring 411.15 and thrower 507.01 off the shaft. Remove seat ring 475.55 and Profil joint 410.55 from seal cover 471.01. To observe the grooved pin 561.03.



410.55	Profil joint
412.54	O-ring
412.55	O-ring
472.54	spring-load ring
474.54	thrust ring
475.55	seat ring
477.54	spring mech. seal
485.54	tappet
50-3.54	backing ring
904.54	grub screw
940.08	key
932.54	Cir clip

P 06	70	79,0	5,0
P 05	60	85,8	5,0
P 04	53	69,3	4,5
P 03	43	69,3	4,5
P 02	-	-	-
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. Take care not to damage the contact faces. Do not remove the protective cover from the seal faces until immediately before installation. The surface of 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 shaft protecting sleeve 524.01 on shaft 210. Push the rotating assembly of the mechanical seal onto shaft protecting sleeve 524.01 as far as it will go and lock it with grub screws 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. Pre-assembly the seal cover 471.01 with the grooved pin 561.03 (pay attention to control dimension "C"), stationary seal ring 475.55 and the Profil joint 410.55 and the jointring 411.15.

Caution

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

Push the shaft protecting sleeve 524.01 with the rotating assembly of the mechanical seal into the casing cover 161. Push the pre-assembled seal cover 471.01 with studs 902.02 and nuts 920.02 so that the connection holes (for cooling liquid) and the connection for circulation-OUT from discharge nozzle are in the upper half (see also drawing for mechanical seal). Push the shaft protecting sleeve 524.01 with the rotating assembly of the mechanical seal into the casing cover 161. Push the completely with seal cover 471 assembled casing cover 161 with the shaft protecting sleeve 524.01 carefully onto the shaft until the casing cover into the bearing bracket lantern 344. Continue installation according to the operating instructions of the pump.

