

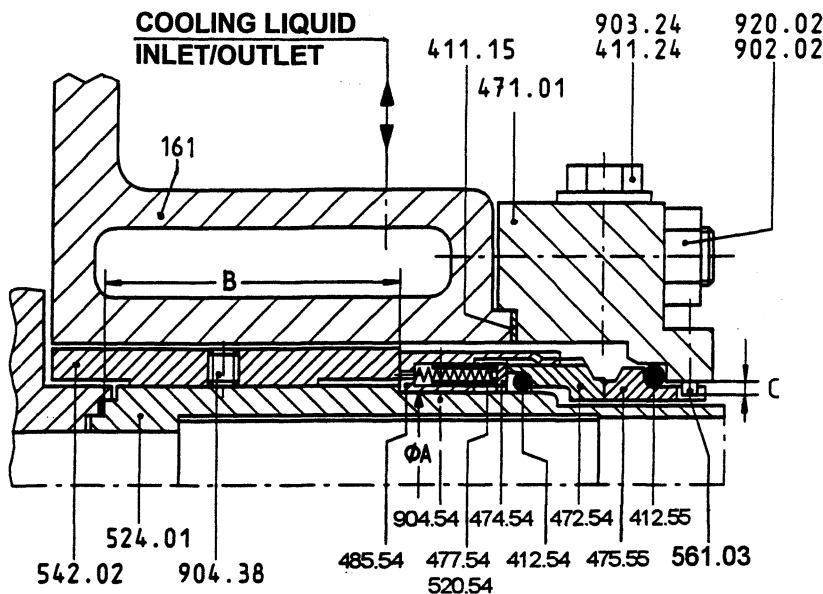
Dismantling and installation instructions for single-acting mechanical seals Type: Burgmann H75N

Dismantling:

Undo the hex nuts 920.02 und 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 grub screws 904.54 and push the rotating assembly of the mechanical seal off the shaft protecting sleeve 524.01.

If necessary, undo the grub screws 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 O-ring 412.55 from the seal cover 471.01.



524.01	Shaft protecting sleeve
542.02	Bush
904.38	Grub screw
561.03	Parallel grooved pin
412.54	O-ring
412.55	O-ring
472.54	Rotating seal ring
474.54	Thrust ring
475.55	Stationary seal ring
477.54	Spring
485.54	Tappet
520.54	Sleeve
904.54	Grub screw

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	B	C
	(mm)	(mm)	(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 using grub screws 904.54.

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 grub screw 904.38. Pre-assemble the seal cover 471.01 with the gasket 411.15, stationary seal ring 475.55 and the O-ring 412.55. Ensure that the control dimension „C“ complies with the sectional drawing of the mechanical seal.

NOTE:

After inserting the stationary seal ring, check whether it is plane-parallel with the seal cover (max. admissible deviation 0.02mm). Fix the preassembled seal cover 471.01 with studs 902.02 and nuts 920.02 to the casing cover 161 in such a way that the connection holes (for cooling liquid) are located in the upper half. Carefully slide the completely assembled discharge cover 161 on the shaft and insert it into bearing bracket lantern 344. Slide preassembled shaft protecting sleeve 524.01 with bush 542.02 and the rotating unit of the mechanical seal carefully over the shaft into the seal chamber until you feel the effect of the spring 477.54 of the mechanical seal. Proceed with the assembly as described in the operating instructions of the pump.