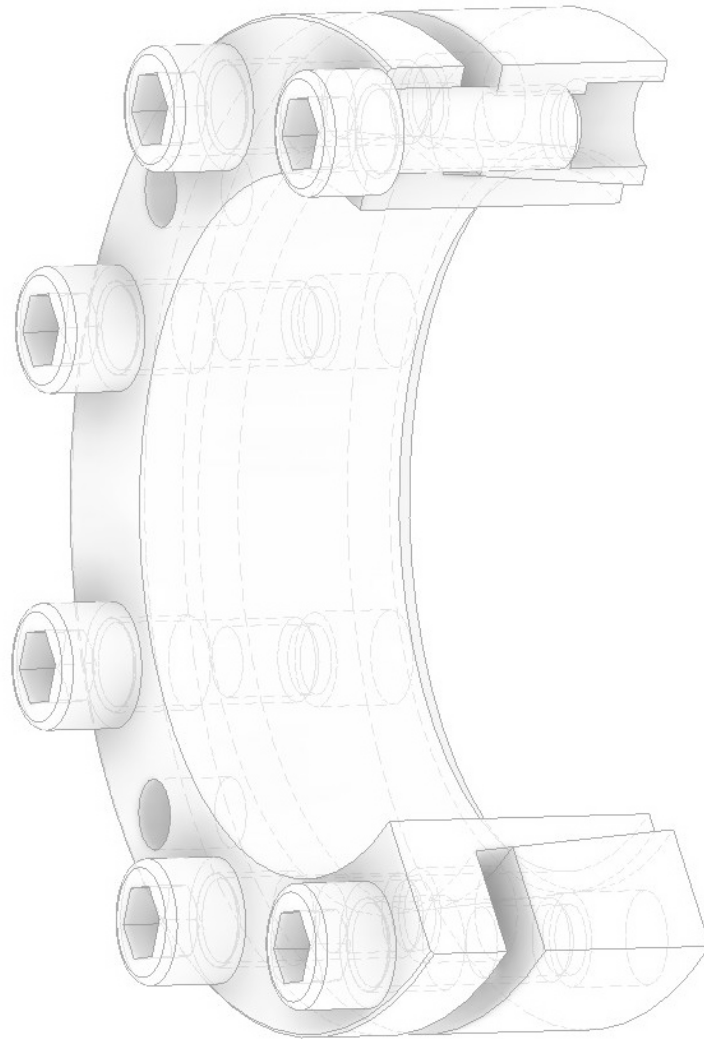


BIKON 1003.r
stainless
Installation Manual



Only available from BIKON-Technik GmbH • 41468 Neuss • Germany

A development of BIKON-Technik GmbH - introduction on global market in year 1973

Index:

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February 2023

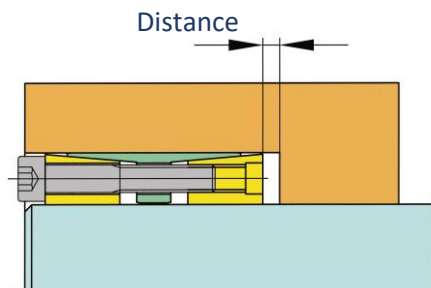


BIKON-Technik GmbH

Hansemannstrasse 11 · 41468 Neuss · Germany
Tel. ++49 (0) 2131-71889-0 · www.bikon.de · E-Mail: info@bikon.de

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Schematic scetch



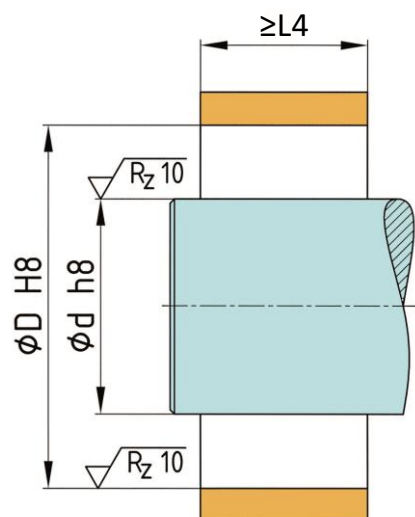
Space - generally

By use of stepped bores the locking assembly should never be pushed to block against the hub. There must be let distance about 2 – 5 mm to the hub to be able to remove the rings from each other. This applies to all BIKON locking assemblies.

Shafts with keyways

BIKON Locking assemblies can be tighten over keyways (according to DIN) on shafts. The function of the locking assembly is not affected.

Keyways in the hub are not allowed !



Space - BIKON 1003.r

d	D	L4	d	D	L4	d	D	L4
mm	mm	mm	mm	mm	mm	mm	mm	mm
19	47	28	45	75	33	95	135	40
20	47	28	48	80	33	100	145	44
22	47	28	50	80	33	110	155	44
24	50	28	55	85	33	120	165	44
25	50	28	60	90	33	130	180	52
28	55	28	63	95	33	140	190	54
30	55	28	65	95	33	150	200	54
32	60	28	70	110	40	160	210	54
35	60	28	75	115	40	170	225	65
38	65	28	80	120	40	180	235	65
40	65	28	85	125	40	190	250	65
42	75	33	90	130	40	200	260	65

TA – Tightening torque of screws

d	M	TA	d	M	TA	d	M	TA
mm	-	Nm	mm	-	Nm	mm	-	Nm
19	M6	7,3	45	M8	17,5	95	M10	35,2
20	M6	7,3	48	M8	17,5	100	M12	60,3
22	M6	7,3	50	M8	17,5	110	M12	60,3
24	M6	7,3	55	M8	17,5	120	M12	60,3
25	M6	7,3	60	M8	17,5	130	M12	60,3
28	M6	7,3	63	M8	17,5	140	M14	95,8
30	M6	7,3	65	M8	17,5	150	M14	95,8
32	M6	7,3	70	M10	35,2	160	M14	95,8
35	M6	7,3	75	M10	35,2	170	M14	95,8
38	M6	7,3	80	M10	35,2	180	M14	95,8
40	M6	7,3	85	M10	35,2	190	M14	95,8
42	M8	17,5	90	M10	35,2	200	M14	95,8

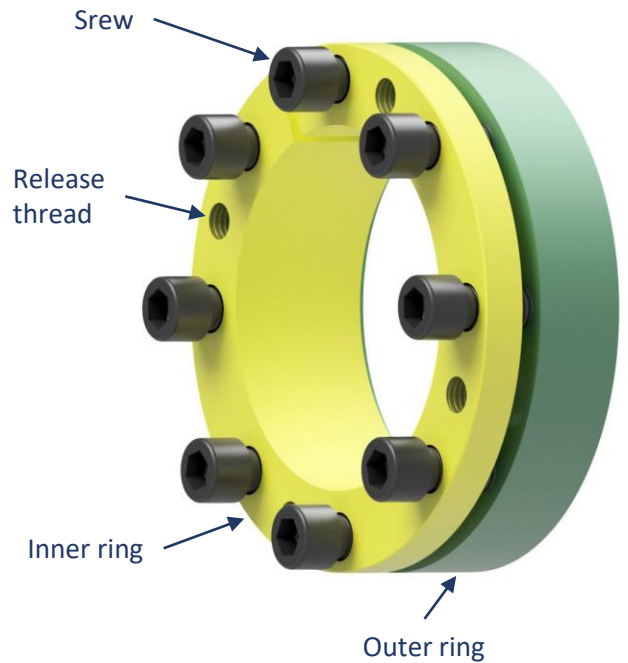
BIKON 1003.r - stainless

Installation

1.

BIKON locking assemblies are delivered ready for installation and oiled. The screws have been unscrewed a few threads.

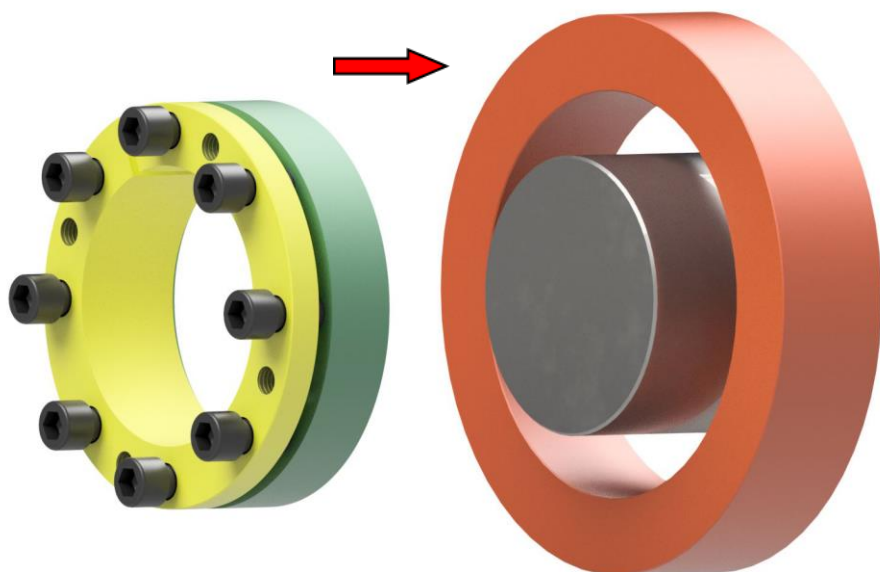
Make sure that the rings fit loosely on top of each other (self-locking cone).



2.

Oil the shaft and hub and push the locking assembly into the installation space.

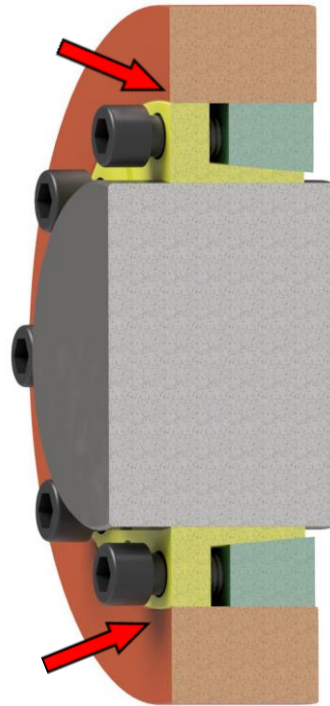
Do not use molybdenum disulfide (MoS₂), assembly paste or grease!



Installation

3.

The locking assembly must sit flush with the hub.

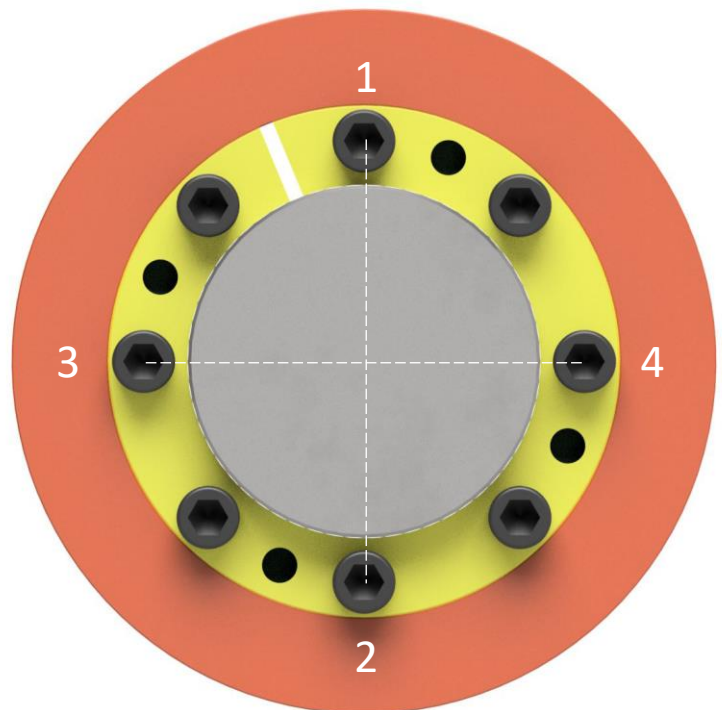


4.

Tighten the screws evenly crosswise and in several stages using a torque wrench.

control !

The tightening of the screws and the assembly is complete when no more screws can be tightened with the 100% tightening torque.



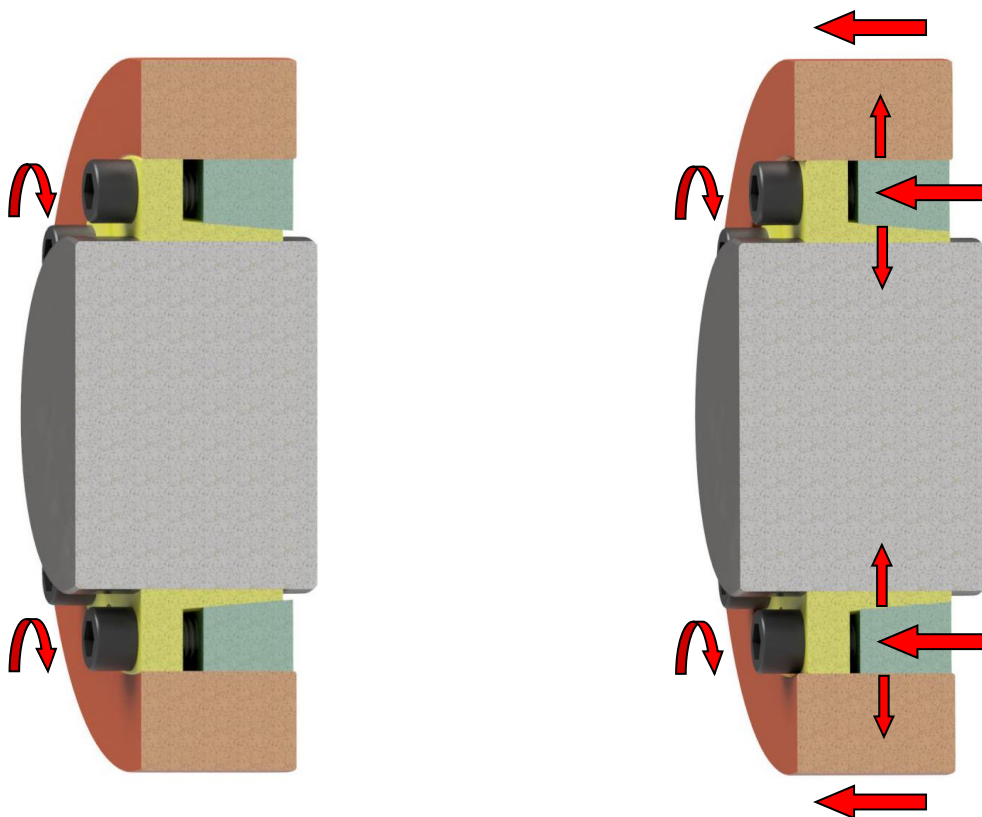
Installation

5.

By tightening the screws, the outer ring slides and tightens the connection. The cone is self-locking and will not loosen by itself if the screws are loosened if it is operated properly.

Please note !

The hub moves in the axial direction with the outer ring!

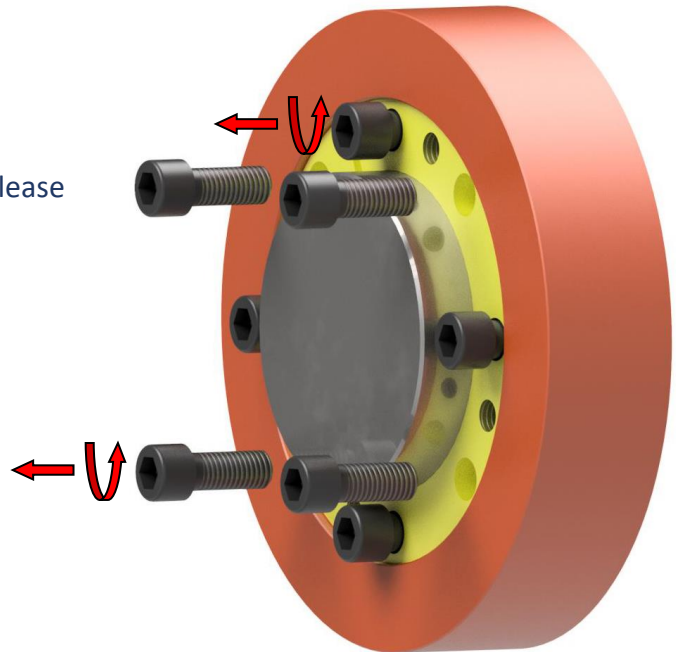


The locking assembly is maintenance-free and the screws do not have to be tightened after a certain period of operation.

Removal

1.

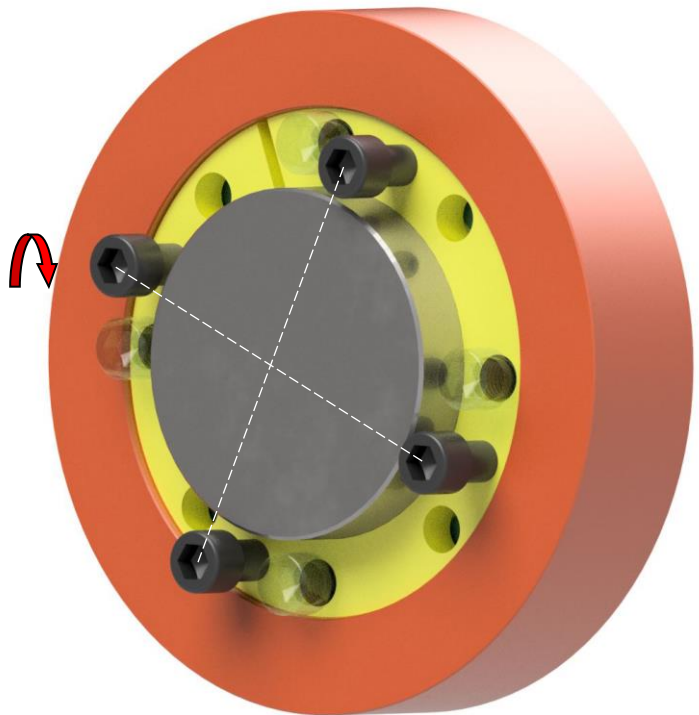
Loosen all screws a few threads.
Unscrew as many screws as there are release threads.



2.

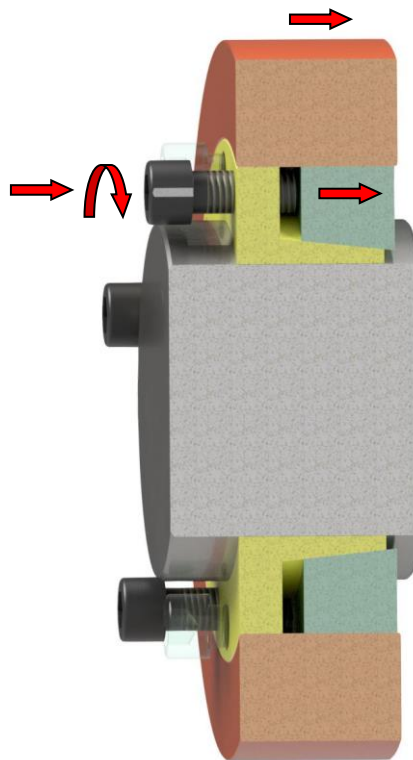
Oil the screws and screw them into the release threads and tighten them crosswise with a torque wrench until the outer ring slides off the inner ring.

(Grind the release screws flat on the face side before screwing them in)

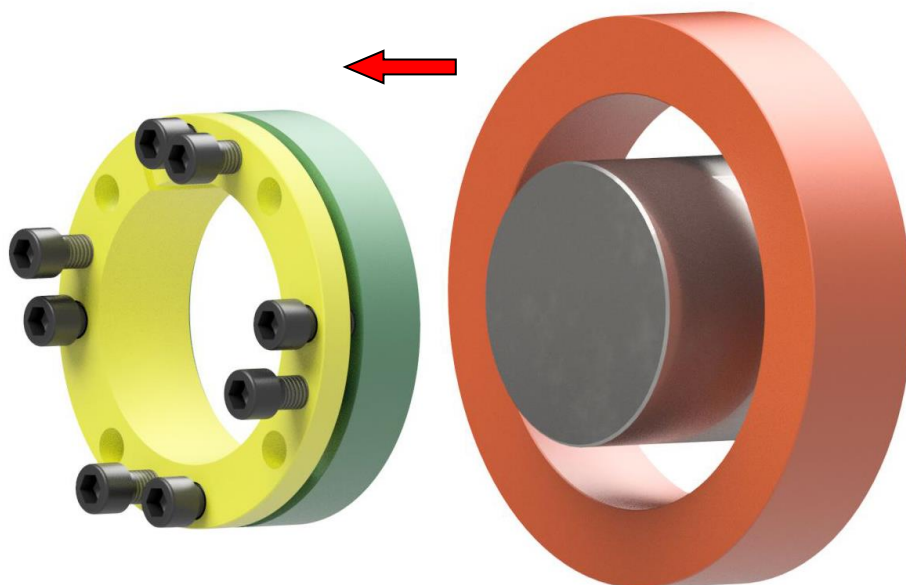


Removal

3.
The outer ring slides off the inner ring together with the hub.



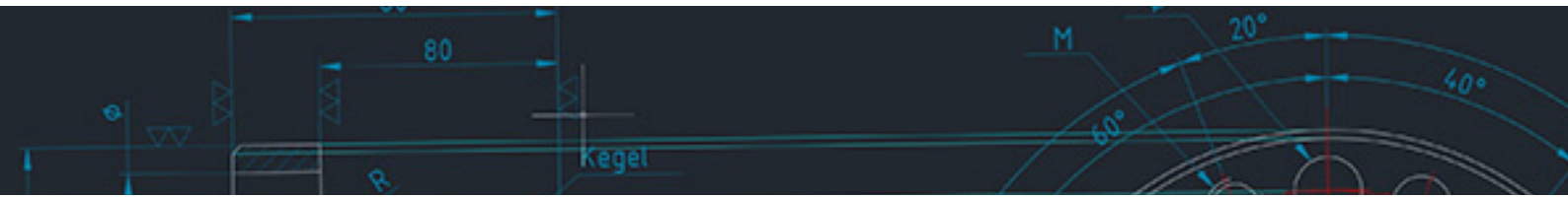
4.
Remove the locking assembly from the space.



Reusability

Undamaged locking assemblies can be reused.

The screws must be changed after each use!



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Hansemannstrasse 11

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www.bikon.de

E-Mail info@bikon.de