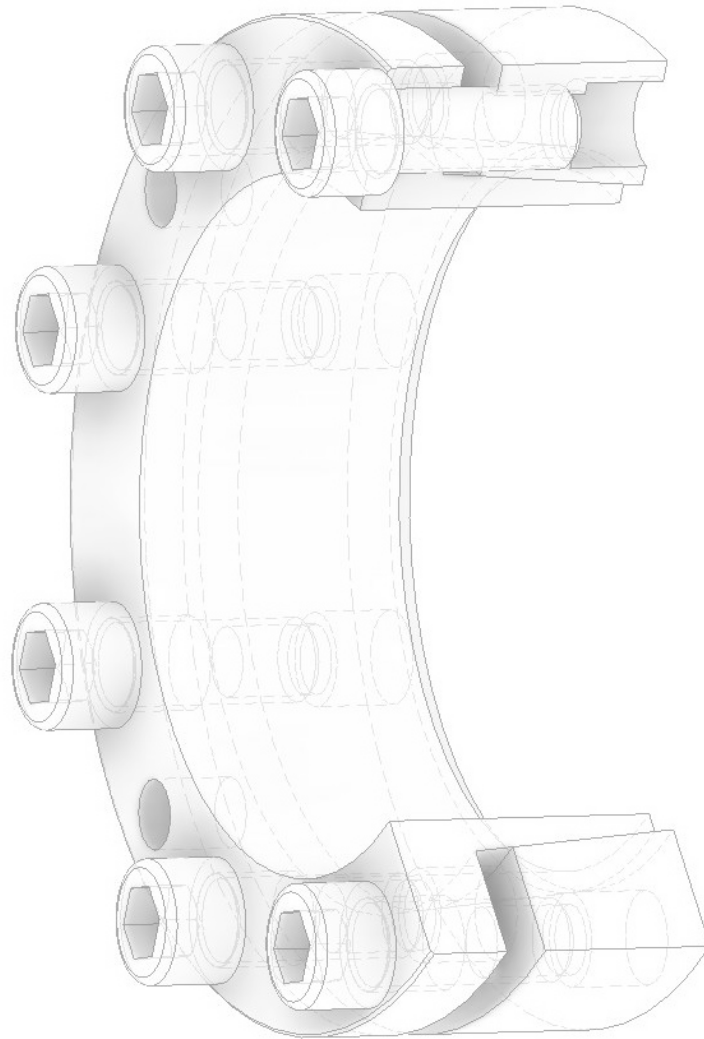


BIKON 1003.v
nickel-plated
Installation Manual



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

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

Index:

We reserve all rights with regard to this technical data and its content. Without our prior written approval it is not allowed to duplicate this technical data or parts of it, nor to grant access to it by third parties or to exploit it otherwise (including extracts) without authority.

All topics and specification dealt with are only valid for original „BIKON“ or „DOBIKON“ products.

We will not accept any liability for damages arising from misinterpretation, application or constructional flaws (regarding equipment wherein our products shall be installed). All information is based upon our knowledge of the current state of the art at the draft date of this technical data.

We refer to our trademark and further intellectual property rights as well as our conditions of sale that shall apply.

February 2023

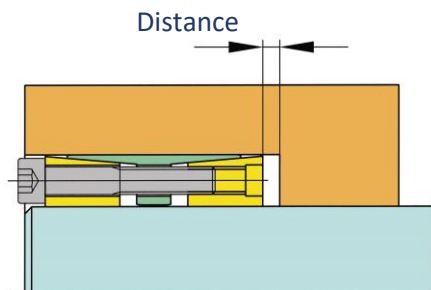


BIKON-Technik GmbH

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

BIKON 1003.v – nickel plated

Schematic sketch



Space - generally

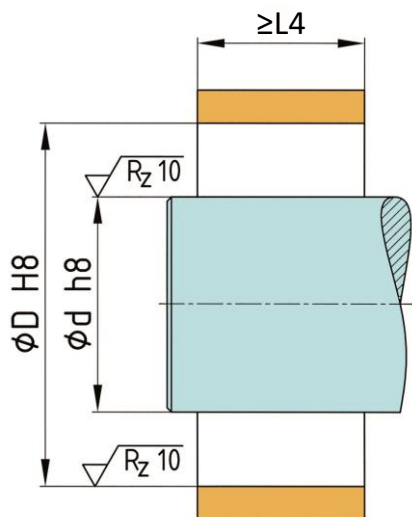
By use of stepped bores the locking assembly should never be pushed to block against the hub. There must be let distance about 2 – 5 mm to the hub to be able to remove the rings from each other. This applies to all BIKON locking assemblies.

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



d	D	L4
mm	mm	mm
19	47	28
20	47	28
22	47	28
24	50	28
25	50	28
28	55	28
30	55	28
32	60	28
35	60	28
38	65	28
40	65	28
42	75	33
45	75	33
48	80	33
50	80	33
55	85	33
60	90	33

d	D	L4
mm	mm	mm
63	95	33
65	95	33
70	110	40
75	115	40
80	120	40
85	125	40
90	130	40
95	135	40
100	145	44
110	155	44
120	165	44
130	180	52
140	190	54
150	200	54
160	210	54
170	225	65
180	235	65

d	D	L4
mm	mm	mm
190	250	65
200	260	65
220	285	74
240	305	74
260	325	74
280	355	88
300	375	88
320	405	105
340	425	105
360	455	120
380	475	120
400	495	120
420	515	120
440	535	120
460	555	120
480	575	120
500	595	120

TA – Tightening torque of screws

d	M	TA
mm	-	Nm
19	M6	14
20	M6	14
22	M6	14
24	M6	14
25	M6	14
28	M6	14
30	M6	14
32	M6	14
35	M6	14
38	M6	14
40	M6	14
42	M8	35
45	M8	35

d	M	TA
mm	-	Nm
48	M8	35
50	M8	35
55	M8	35
60	M8	35
63	M8	35
65	M8	35
70	M10	70
75	M10	70
80	M10	70
85	M10	70
90	M10	70
95	M10	70
100	M12	125

d	M	TA
mm	-	Nm
110	M12	125
120	M12	125
130	M12	125
140	M14	190
150	M14	190
160	M14	190
170	M14	190
180	M14	190
190	M14	190
200	M14	190
220	M16	295
240	M16	295
260	M16	295

d	M	TA
mm	-	Nm
280	M18	405
300	M18	405
320	M20	580
340	M20	580
360	M22	780
380	M22	780
400	M22	780
420	M22	780
440	M22	780
460	M22	780
480	M22	780
500	M22	780

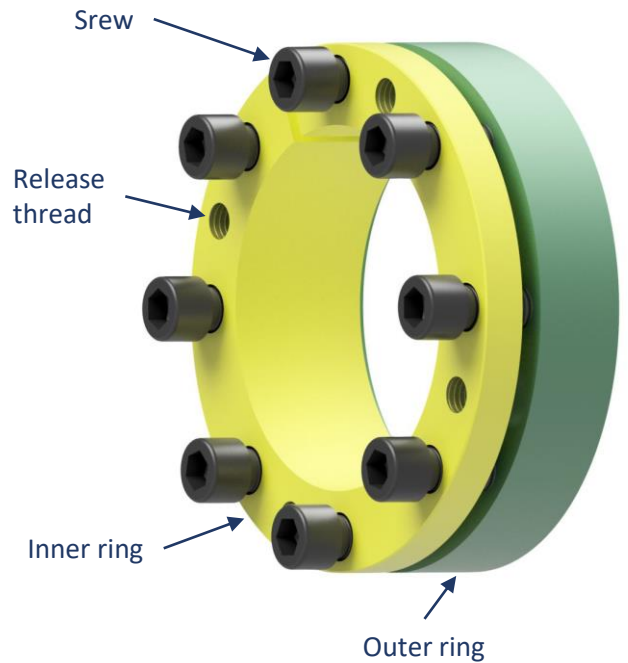
BIKON 1003.v – nickel plated

Installation

1.

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

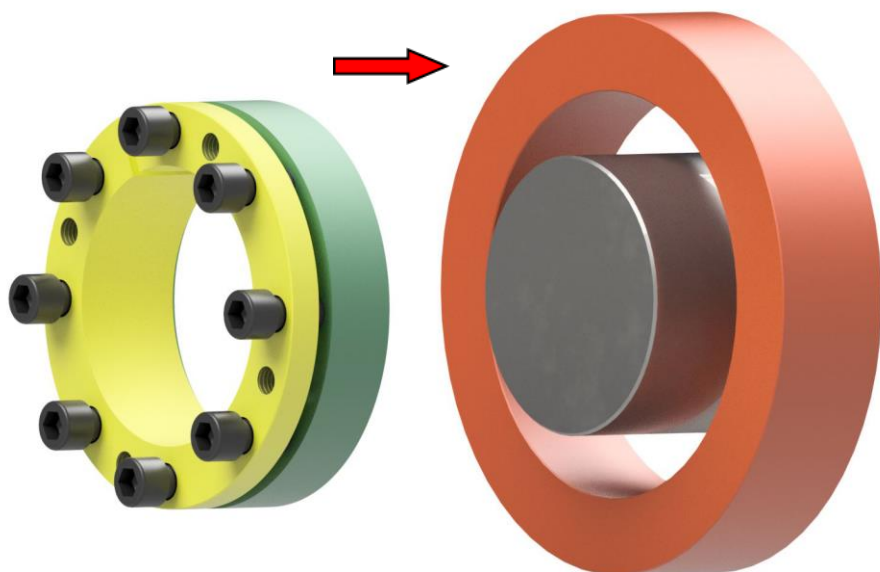
Make sure that the rings fit loosely on top of each other (self-locking cone).



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!

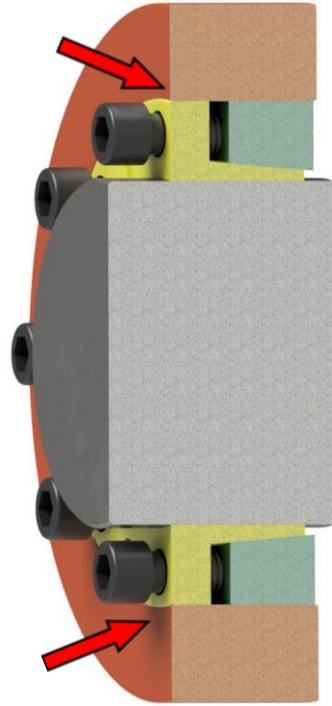


BIKON 1003.v – nickel plated

Installation

3.

The locking assembly must sit flush with the hub.

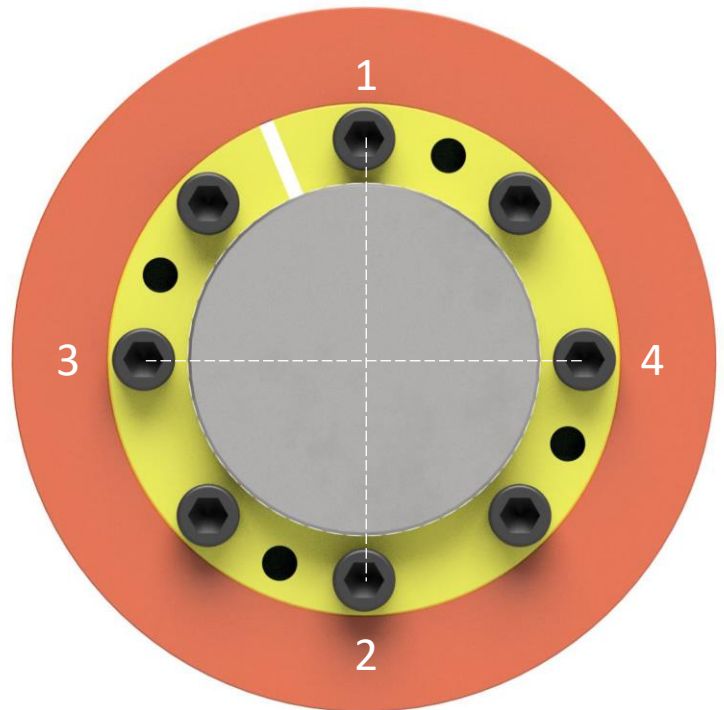


4.

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.



BIKON 1003.v – nickel plated

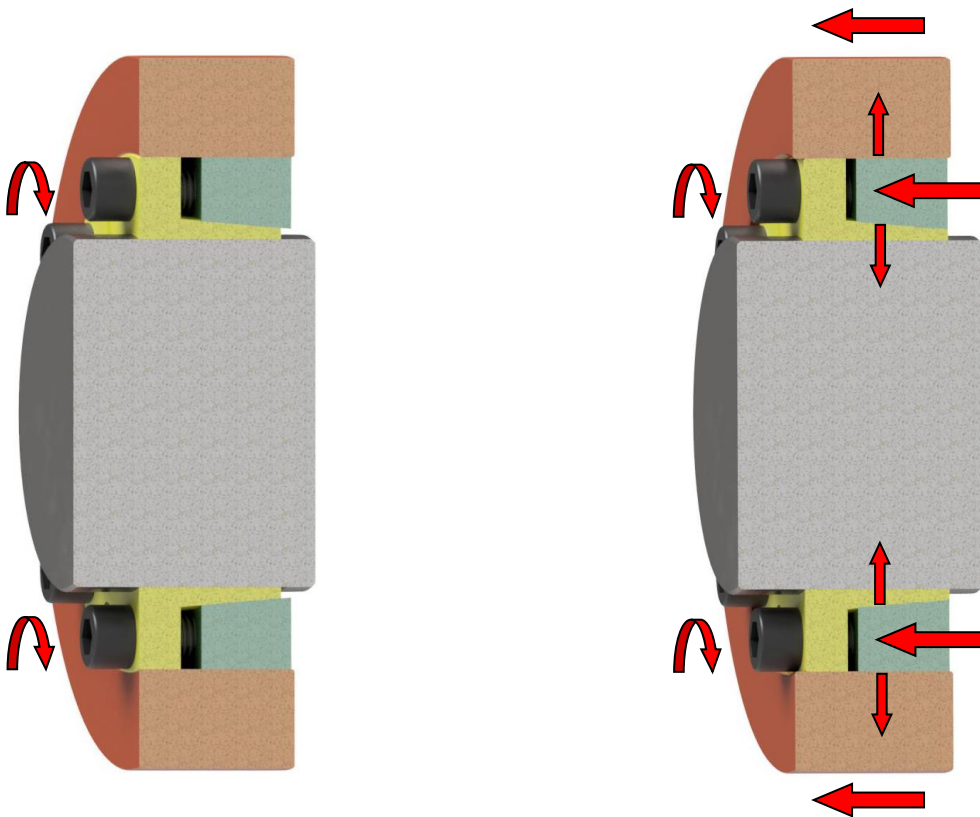
Installation

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!



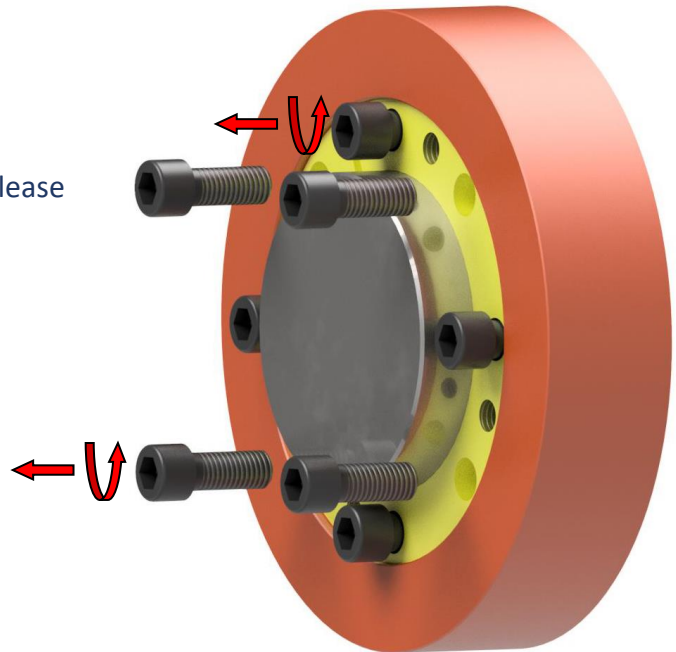
The locking assembly is maintenance-free and the screws do not have to be tightened after a certain period of operation.

BIKON 1003.v – nickel plated

Removal

1.

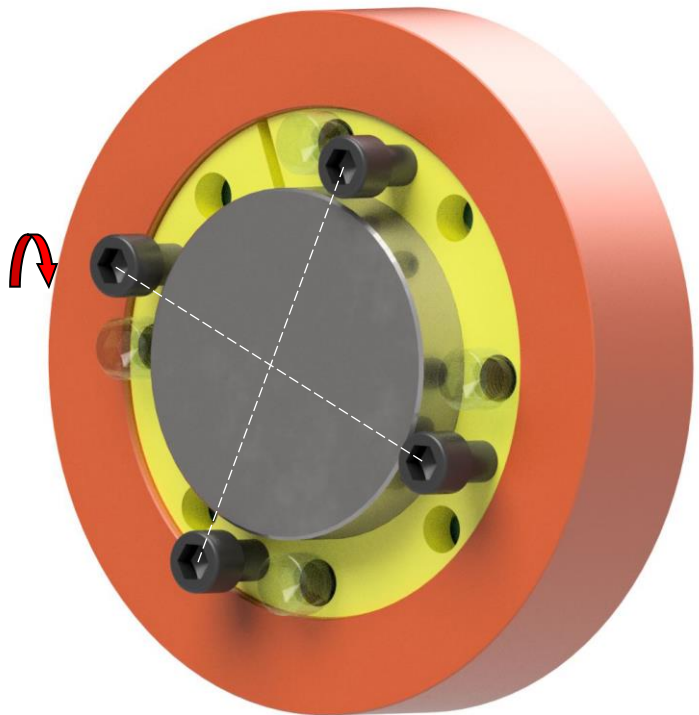
Loosen all screws a few threads.
Unscrew as many screws as there are release threads.



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.

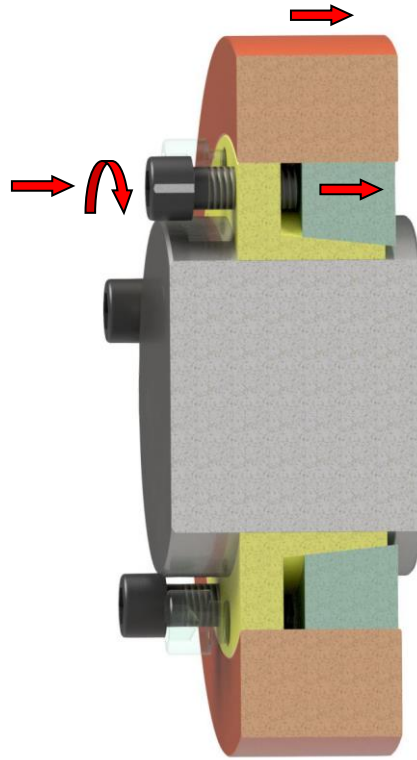
(Grind the release screws flat on the face side before screwing them in)



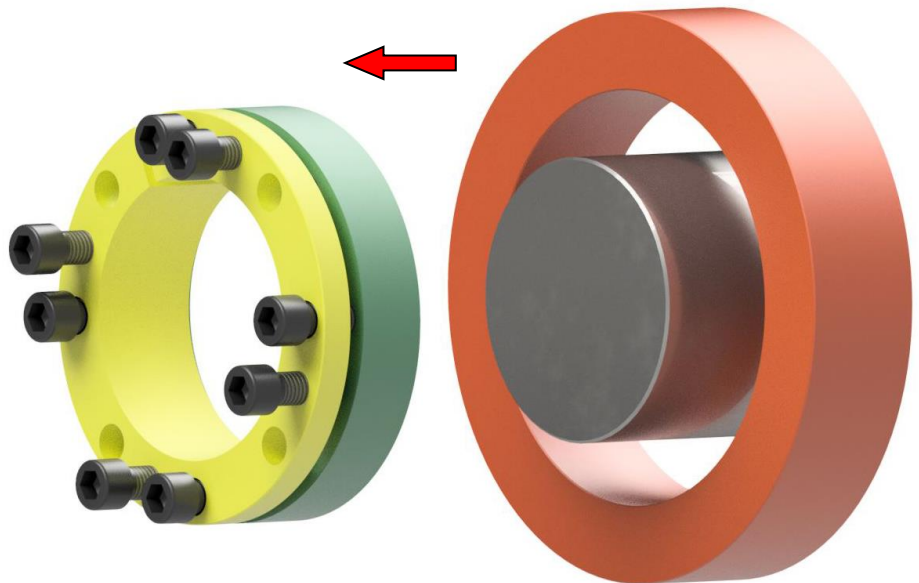
BIKON 1003.v – nickel plated

Removal

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



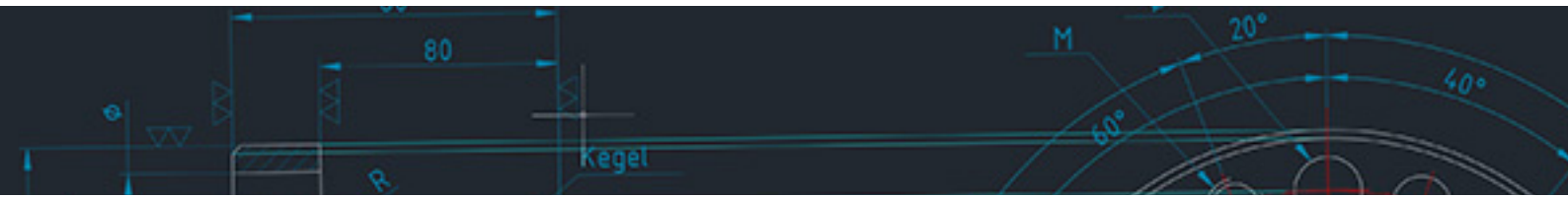
4.
Remove the locking assembly from the space.



Reusability

Undamaged locking assemblies can be reused.

The screws must be changed after each use!



BIKON-Technik GmbH

Hansemannstrasse 11

41468 Neuss • Germany

Tel. ++49 (0) 2131-71889-0

www.bikon.de

E-Mail info@bikon.de