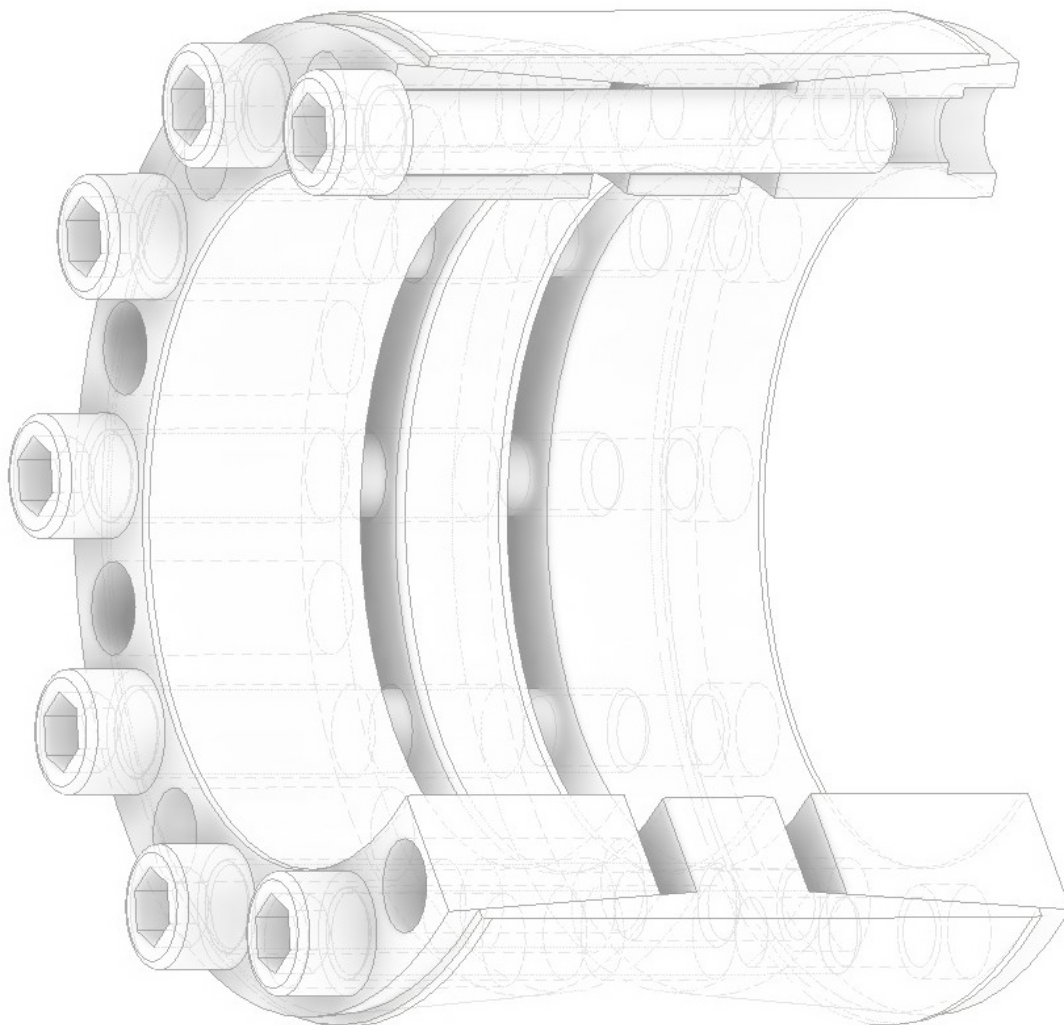


**DOBIKON 1012.r**  
stainless  
*Installation Manual*



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

A development of BIKON-Technik GmbH - introduction on global market in year 1974

## Index:

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April 2023

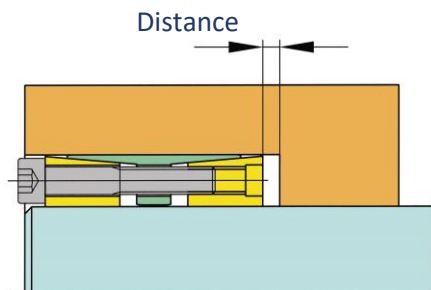


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# DOBIKON 1012.r - stainless

Schematic scetch



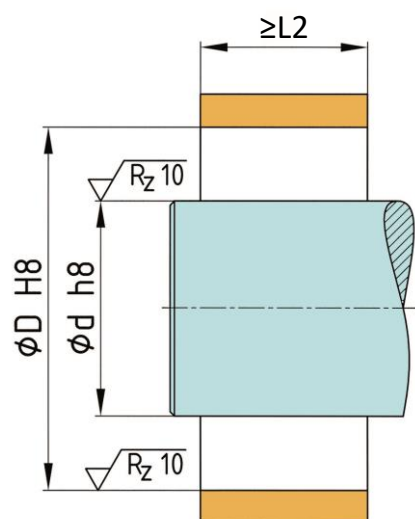
## Space - generally

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

DOBIKON 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 - DOBIKON 1012

d	D	L2	d	D	L2	d	D	L2
mm	mm	mm	mm	mm	mm	mm	mm	mm
25	55	40	55	85	64	110	155	100
28	55	40	60	90	64	120	165	100
30	55	40	65	95	64	130	180	114
35	60	54	70	110	78	140	190	114
38	75	54	75	115	78	150	200	114
40	75	54	80	120	78	160	210	114
42	75	54	85	125	78	170	225	148
45	75	54	90	130	78	180	235	148
48	80	64	95	135	78	190	250	148
50	80	64	100	145	100	200	260	148

## TA – Tightening torque of screws

d	M	TA	d	M	TA	d	M	TA
mm	-	Nm	mm	-	Nm	mm	-	Nm
25	M6	7,3	55	M8	17,5	110	M12	60,3
28	M6	7,3	60	M8	17,5	120	M12	60,3
30	M6	7,3	65	M8	17,5	130	M14	95,8
35	M8	17,5	70	M10	35,2	140	M14	95,8
38	M8	17,5	75	M10	35,2	150	M14	95,8
40	M8	17,5	80	M10	35,2	160	M14	95,8
42	M8	17,5	85	M10	35,2	170	M16	146,2
45	M8	17,5	90	M10	35,2	180	M16	146,2
48	M8	17,5	95	M10	35,2	190	M16	146,2
50	M8	17,5	100	M12	60,3	200	M16	146,2

## Installation

### 1.

DOBIKON locking assemblies are delivered ready for installation and oiled.

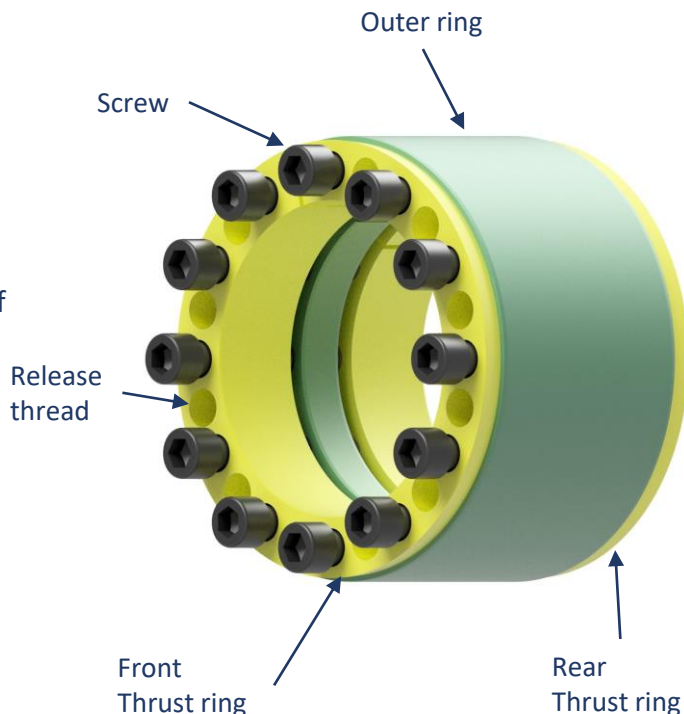
The screws have been unscrewed a few threads.

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

If the locking assembly is to be dismantled into its individual parts, please mark the position of the rings in relation to each other!

The slits are offset and not aligned, nor should they be aligned with each other.

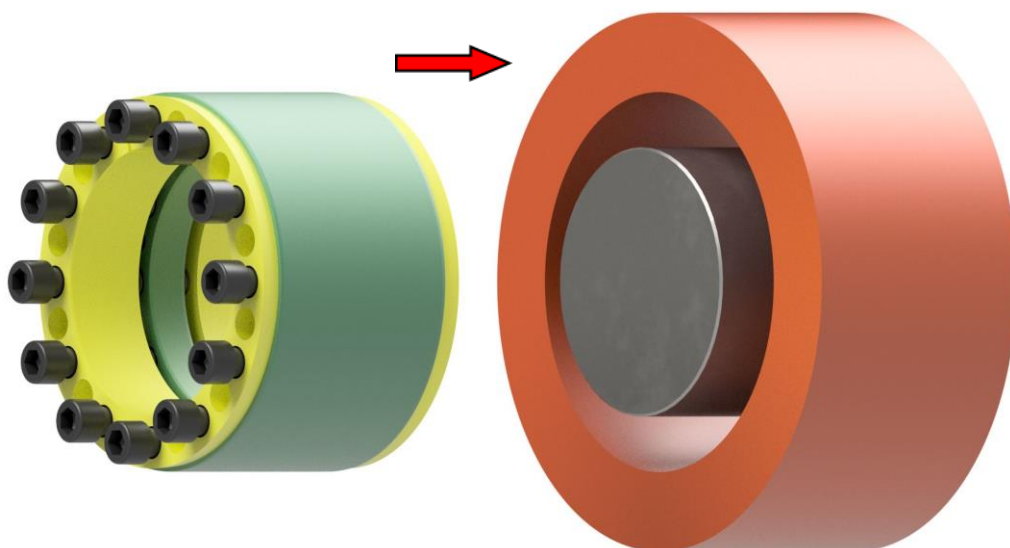
From  $d = 180$  mm the outer rings are not slitted.



### 2.

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

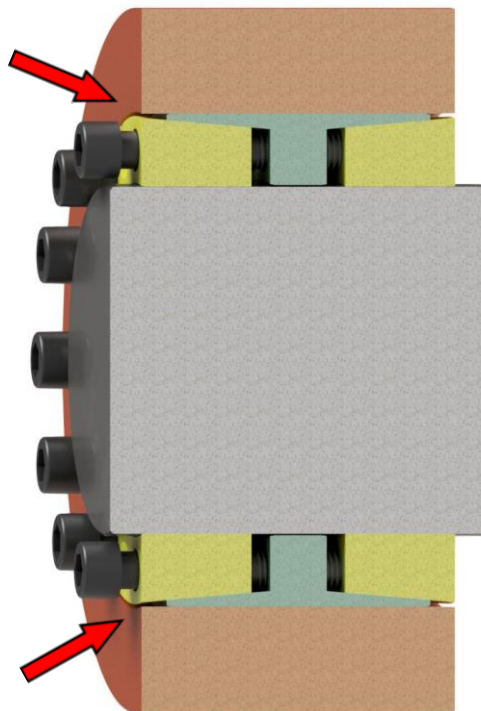
**Do not use molybdenum disulfide (MoS<sub>2</sub>), assembly paste or grease!**



## Installation

**3.**

The locking assembly must sit flush with the hub.

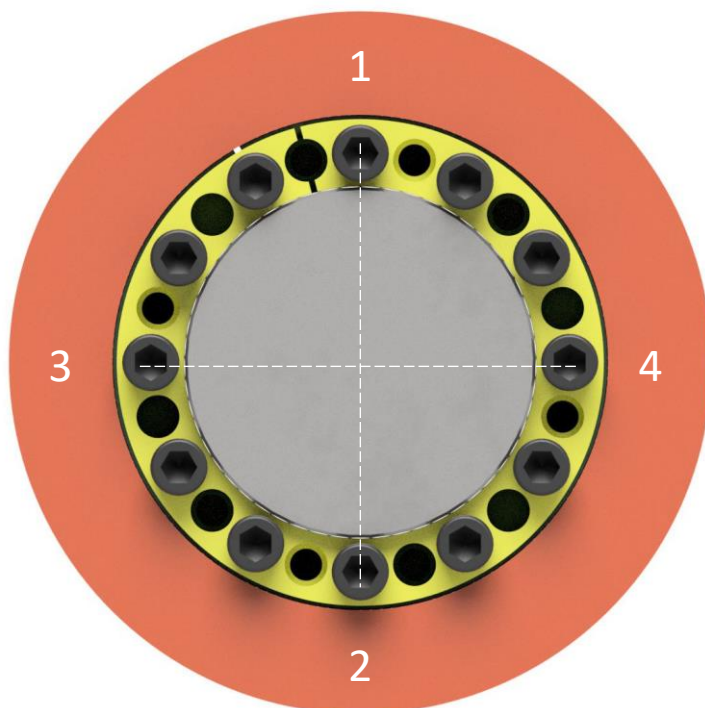


**4.**

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

### **control !**

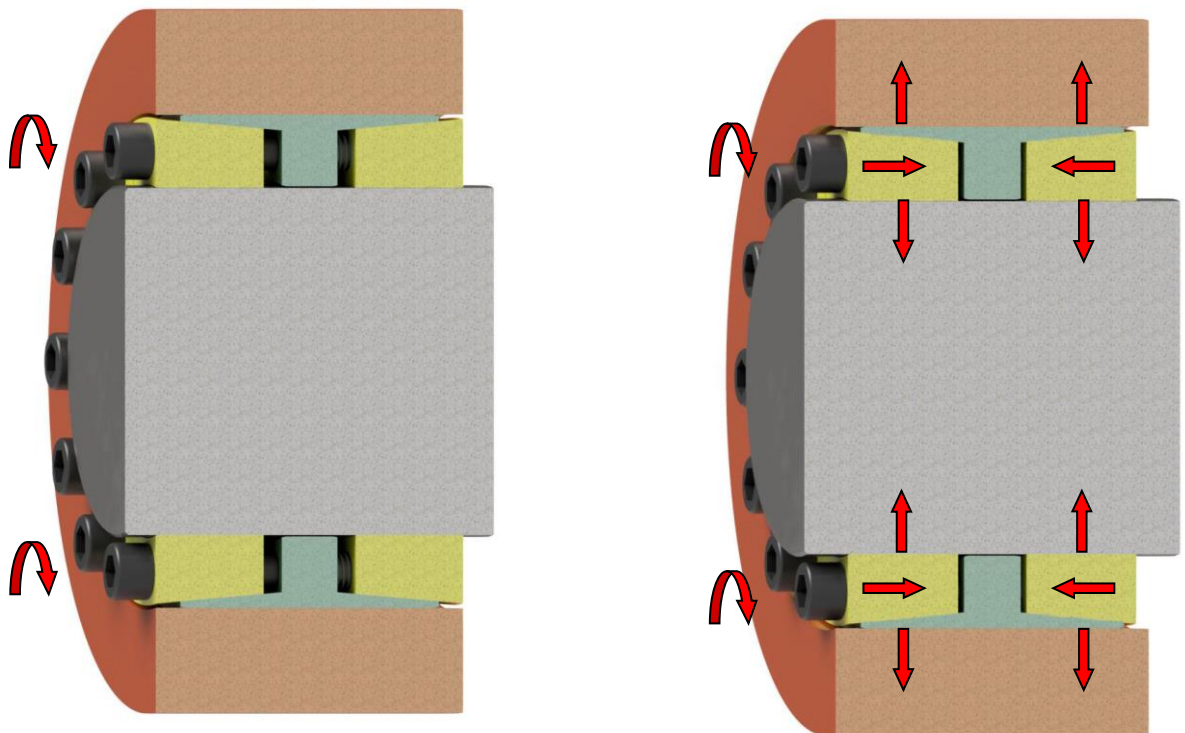
The tightening of the screws and the assembly is complete when no more screws can be tightened with the 100% tightening torque.



## Installation

5.

By tightening the screws, the thrust rings 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.



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

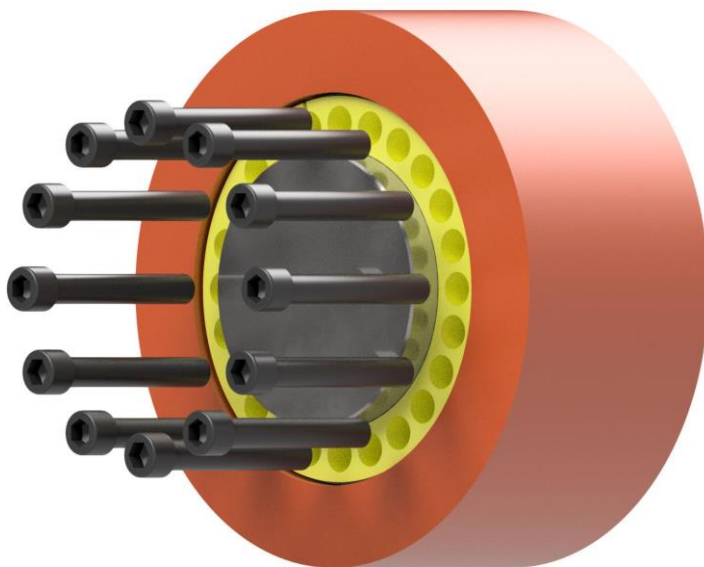


## Removal

### 1.

Loosen all screws and unscrew all screws as there are release threads.

As a rule, the number of screws corresponds to the number of release threads in the front and rear thrust ring.



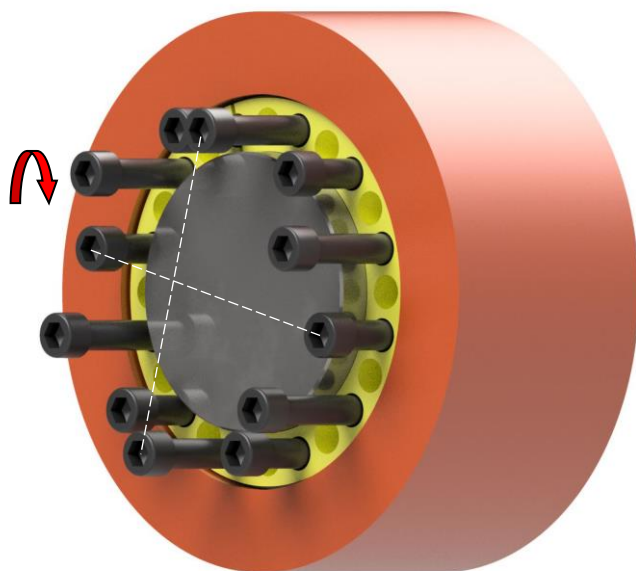
### 2.

Oil the screws and screw them into the release threads of front and rear thrust ring and tighten them **all** crosswise with a torque wrench until the thrust rings slide off the shaft and outer ring.

#### **Important !**

The shaft must be clean and free of particles. The thrust rings slide on the shaft when loosened.

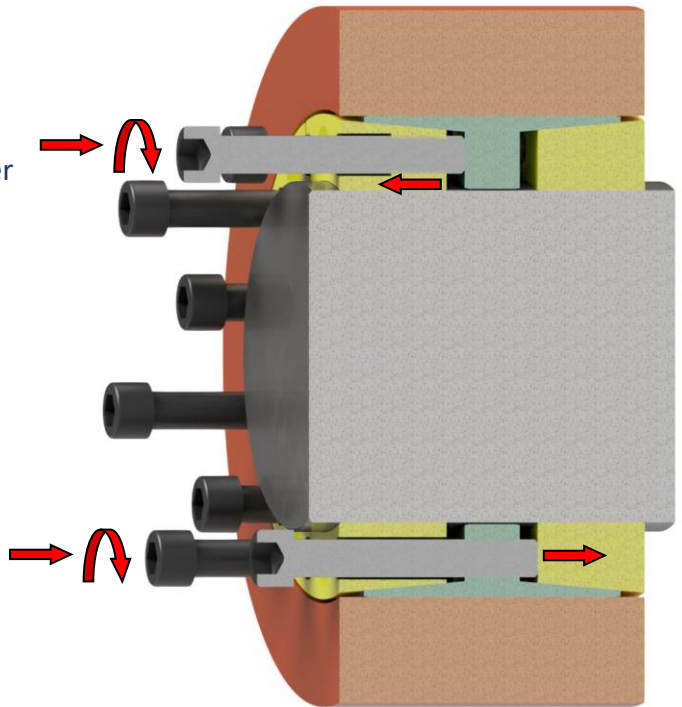
(Grind the release screws flat on the face side before screwing them in)



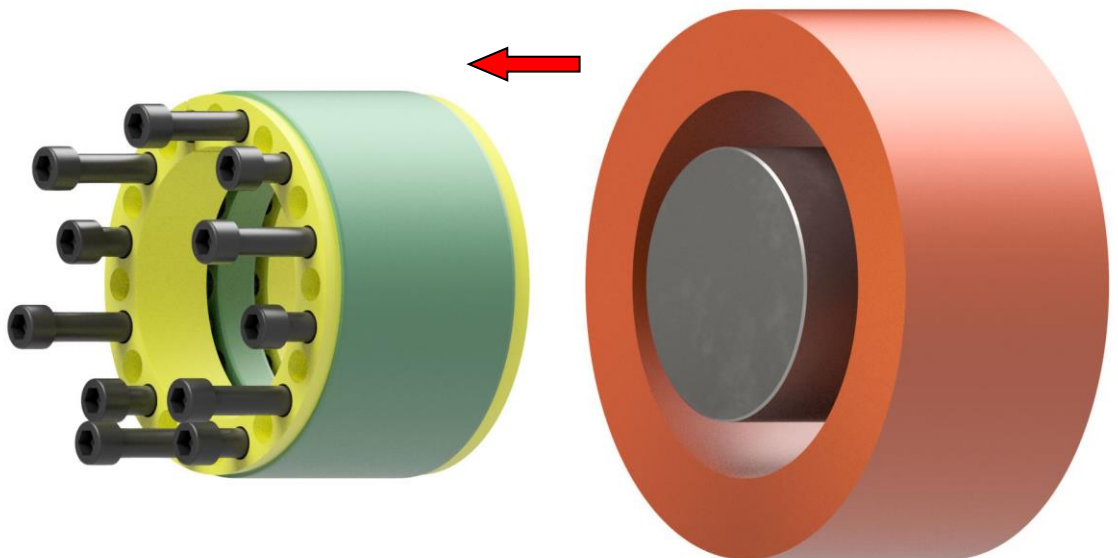
# DOBIKON 1012.r - stainless

## Removal

3.  
The thrust rings slide on the shaft and outer ring and release the connection.



4.  
Remove the locking assembly from the space.

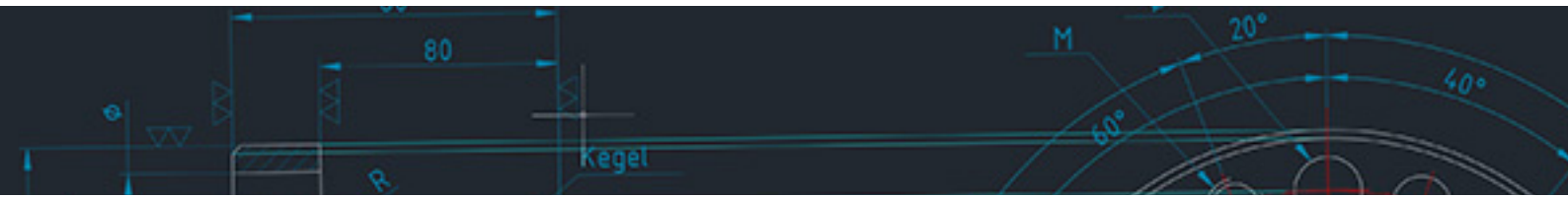


## Reusability

Undamaged locking assemblies can be reused.

**The screws must be changed after each use!**





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