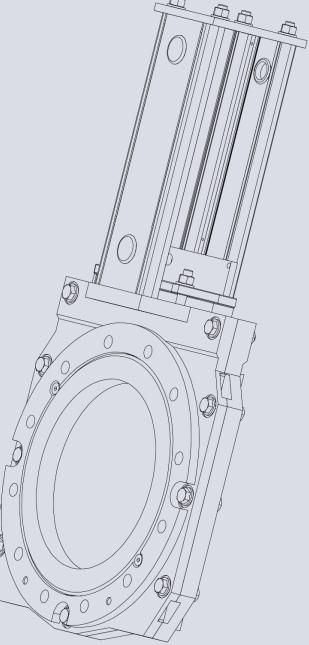


Maintenance instruction

Knife gate valve RKO DN 100 - DN 600 (4" - 24")



1. Introduction

This maintenance instruction is a step-by-step instruction for maintenance of

A. RKO knife gate valve DN 100 - DN 600 (4" - 24").

In this instruction notes and warnings are marked with symbols:

XXXXX	Danger / Warning Points out a dangerous situation which may cause personal injuries or death.
!	Advice Has to be respected.
i	Information Information useful to follow.

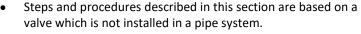
If these notes and warnings are not respected by the user, dangerous situations may occur and may invalidate the warranty.

2. Spare parts

Each Stafsjö knife gate valve is identified with a label containing the valve item number and its serial number. When corresponding with Stafsjö or our local sales partner, please have this available to make sure you order and receive correct spare parts.

Stafsjö recommends the customer to keep one set of "basic" spare part kit for each valve type and size on stock. Spare parts can be ordered from Stafsjö or our local sales partners.

3. Disassembling of valve parts





- Follow procedure described in installation and service instruction for the knife gate valve and its actuator.
- Maintenance shall be performed by qualified personnel. Qualified are those persons who, due to experience, can judge the risk and execute the work correctly and who are able to detect and to eliminate possible risks.
- Always consider the application of the valve and carefully prepare relevant personal safety equipment before starting any maintenance.



 Always have the knife gate valve's article and serial number available to ensure you order correct spare parts to your valve.

To simplify the disassembling of the knife gate valve, place the valve on a horizontal work bench.

- Disconnect the air/hydraulic/power supply. Follow procedure described in installation and service instruction for the knife gate valve and its actuator.
- 2. Disconnect the actuator and topworks.
- 3. Disconnect the gland.
- 4. If needed, unscrew valve body bolting and remove one valve body side from the other.
- 5. Remove stuffing box braids and its scrapers (if any).
- 6. Remove the gate.
- Inspect the gate for any damages. Dents and scratches will affect its ability to seal tight.
- 8. Remove retainer rings and the seat.
- Remove the body gasket and guiding pads.
- 10. Clean the inside of knife gate valve carefully, especially all sealing surfaces.



Recycle worn out parts to extent possible.

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A. RKO knife gate valve DN 100 - DN 600 (4" - 24").

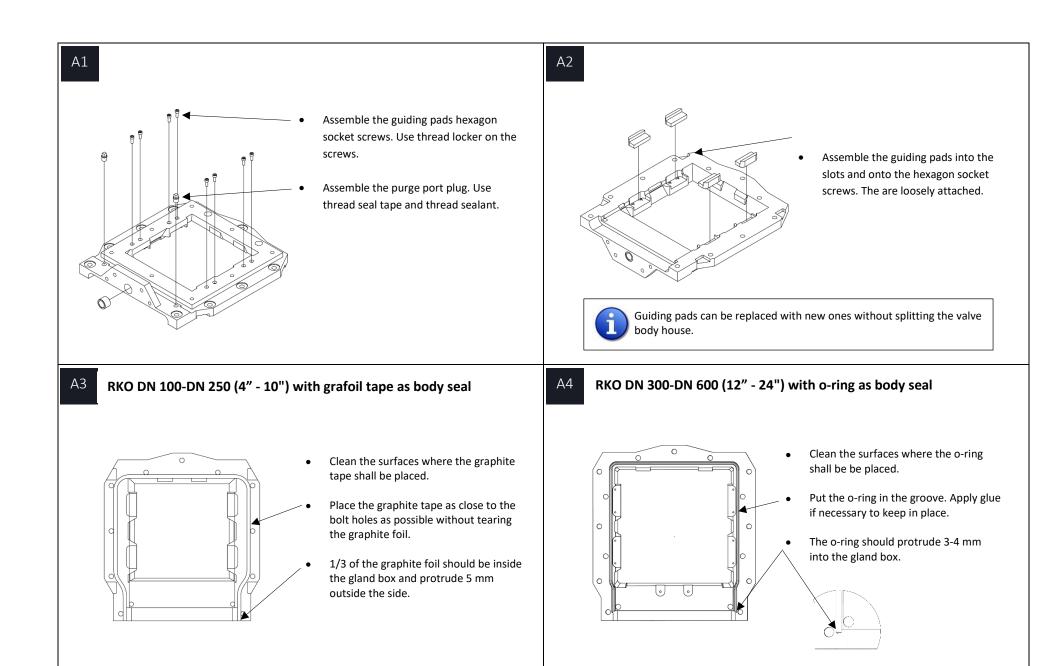
Pos	Part	Spa	res		
1	Nut			(1)	
2	Washer			(2)	
3	Yoke (temporary)				
4	Beam ¹⁾				
5	Plug			4	
6	Tie rod				
7	Gate			5	
8	O-ring				
9	Retainer ring				
10	Retainer ring screw			Spare part kits	
11	O-ring] (7) (28)	
12	Seat			Complete ■ Complete	
13	Bolt			8 27 27 27	
14	Washer			9 Essential	
15	Valve body side (inlet)				
16	Body gasket/o-ring			10 \	
17	Guiding pads				
18	Valve body side (outlet)			Each valve is marked with a	
19	Nut			the valve's article and serial this info we can ensure you	
20	Bolt			correct spare parts to your	
21	Purge port plug			22	
22	Hexagon socket screws			Kequest offer on spare part	
23	Bushing			stafsjo.com/support/original	al-spare-parts/
24	Box packing braids				
25	Stud bolt				
26	Gland				
27	Washer			(11) (12) (13) (14) (15) (16) (17) (18) (19) (20)	
28	Nut				

¹⁾ Gate guards are also recommended on remote operated valves.

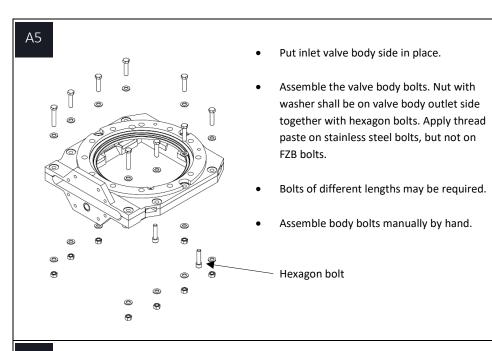


- Always consider the application of the valve and carefully prepare relevant personal safety equipment before starting any valve assembly.
- Valve assembly shall be performed by qualified personal. Qualified are those persons who, due to experience, can judge the risk and execute the work correctly and who are able to detect and to eliminate possible risks.

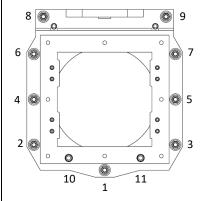
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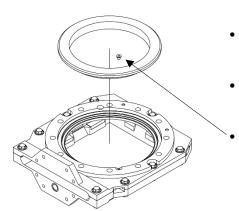
A6 Torque (Nm) for valve body bolting



Valve size	Bolt	Nm	Nm	Nm
		A2-70	A4-80	FZB 8,8
DN 100 - DN 150	M10	35	45	47
DN 200 - DN 300	M12	60	75	80
DN 350 - DN 600	M16	140	190	200

Tighten the bolts crosswise, minimum twice.

Α7



- Assemble the seat onto the retainer ring. See "Re-packing instruction".
- Push the retainer ring kit into the valve body bore.
- Tighten the retainer ring screw. Top of the retainer ring screw must not be higher than the retainer ring surface.

Α8

- Insert the gate into the valve body.
- Gate bevel should face outlet side.
- If the gate is difficult to insert, loosen the retainer ring slightly.

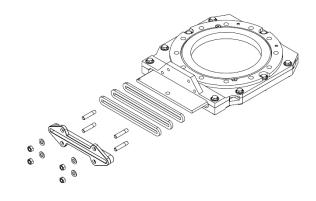
Inlet side / Retainer ring side

Bevel Outlet side

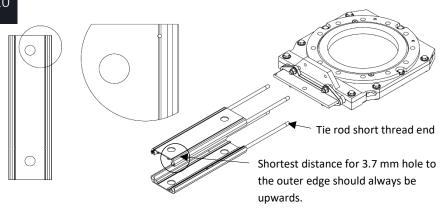
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Assemble box packing and the gland. See "Re-packing instruction".



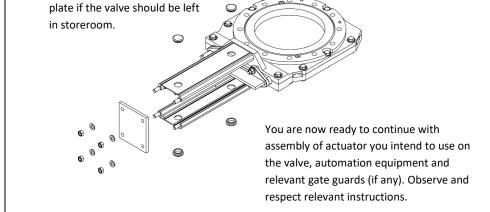
A10



- Install the tie rods manually with the short thread end first. Long thread should be upward against the actuator. Use thread paste on both threads.
- Find the thread before using the machine.
- Assemble the beams onto the tie rods.

A11

Install black plugs in the beams.Assemble temporary wooden



A12



!

Please note the RKO knife gate valve must be installed in closed position only.