

Stafsjö Valves AB

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#### 1. Introduction

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

A. Knife gate valve HX DN 100 - DN 900 (4" - 36").

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

 Steps and procedures described in this section are based on a valve which is not installed in a pipe system.



- 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 people 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 item 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.

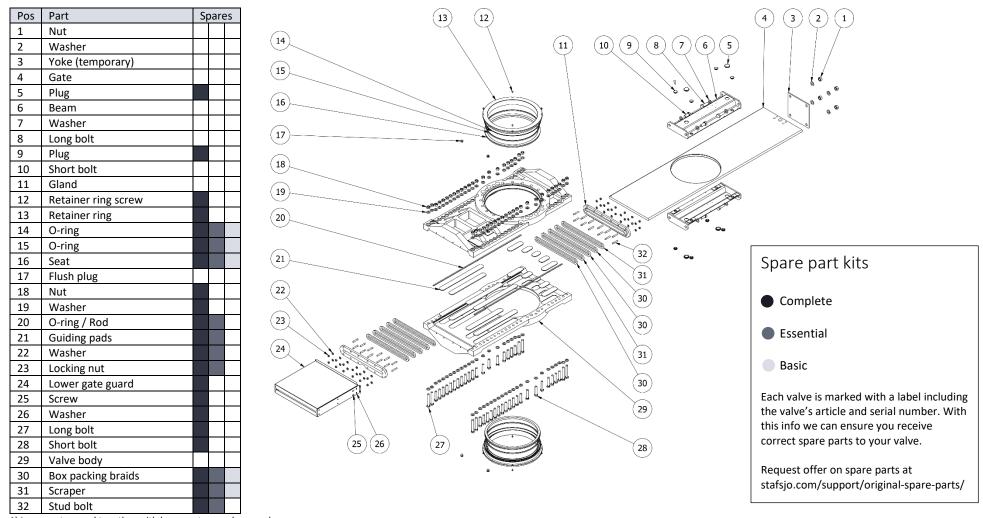
- 1. Disconnect the air/hydraulic/power supply. Follow procedure described in installation and service instruction for the knife gate valve and its actuator.
- 2. Disassemble the actuator and top works.
- 3. Disassemble the glands.
- 4. Unscrew valve body bolts and remove one valve body side from the other.
- 5. Remove stuffing box braids and its scrapers.
- 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 seats.
- 9. Remove the body gasket/rod/o-ring 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. Knife gate valve HX DN 100 - DN 900 (4" - 36") with stainless steel topworks

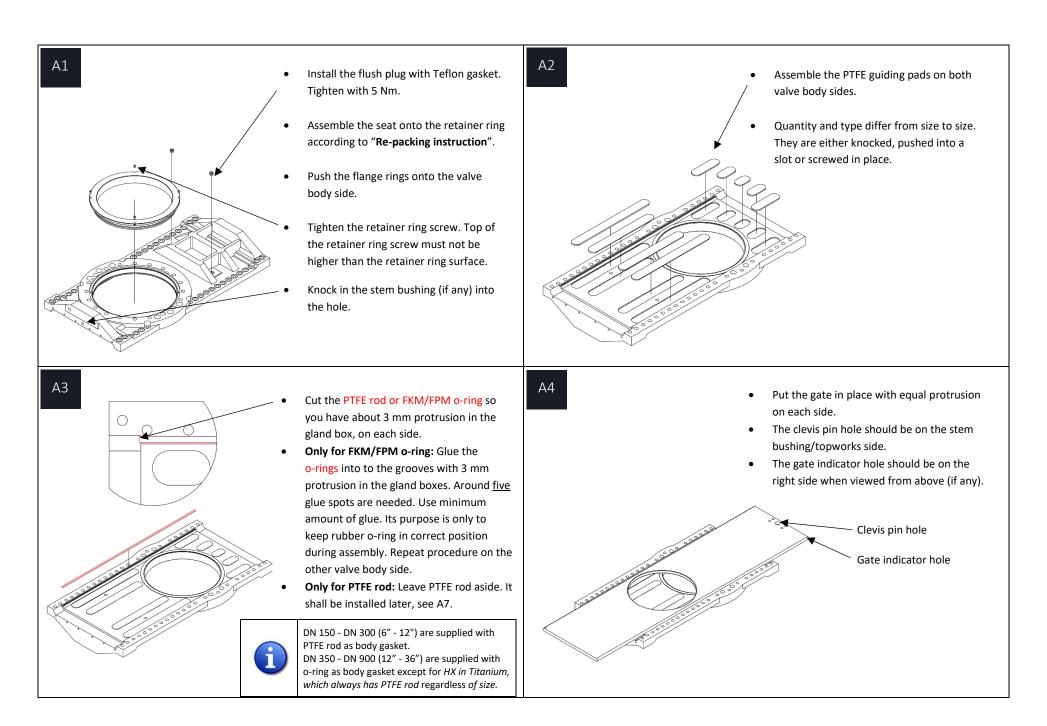


<sup>1)</sup> Lower gate guard together with beam gate guards are only supplied when the valve is remote operated.

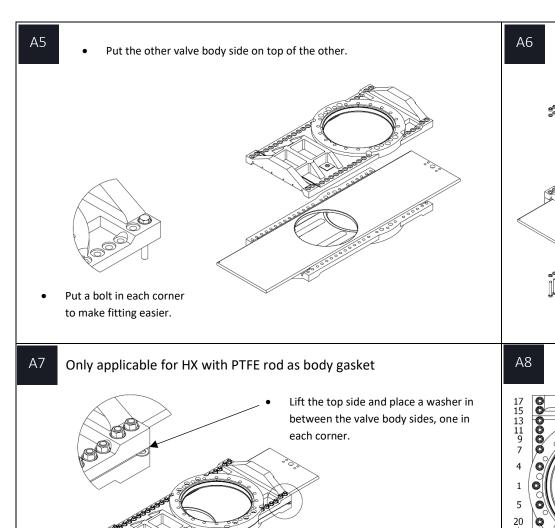


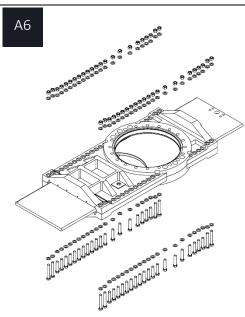
- Always consider the application of the valve and carefully prepare relevant personal safety equipment before starting any valve maintenance.
- Valve assembly shall be performed by qualified personal. Qualified are those persons who, due to experience, can judge the risk and execute the work correctly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

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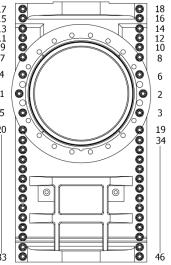


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- Apply thread paste on the bolts.
- Nut should be on the top side. There may be several different bolt lengths.
- Make sure equal o-ring protrusions in gland boxes. For PTFE rod, see A7.
- Install valve body fastners but do not tighten.



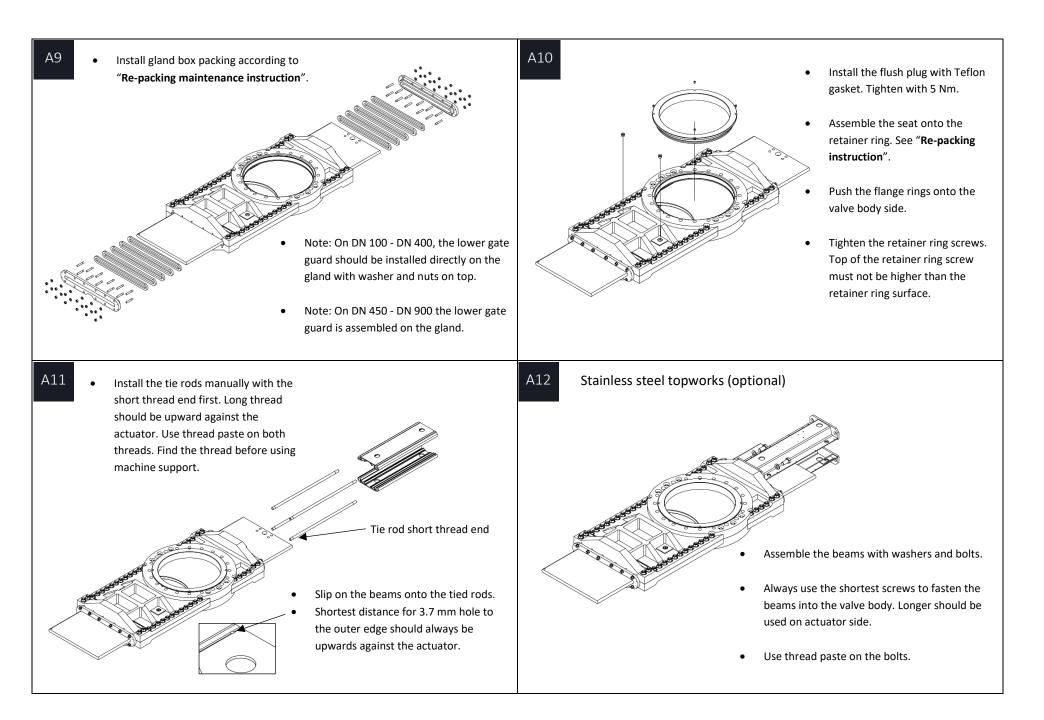
#### Torque (Nm) for valve body bolting

Valve size	Bolt	Nm	Nm	Nm
		A2-70	A4-80	FZB 8,8
DN 100 - DN 200	M12	60	75	80
DN 250 - DN 300	M16	140	190	200
DN 350 - DN 900	M20	275	365	380

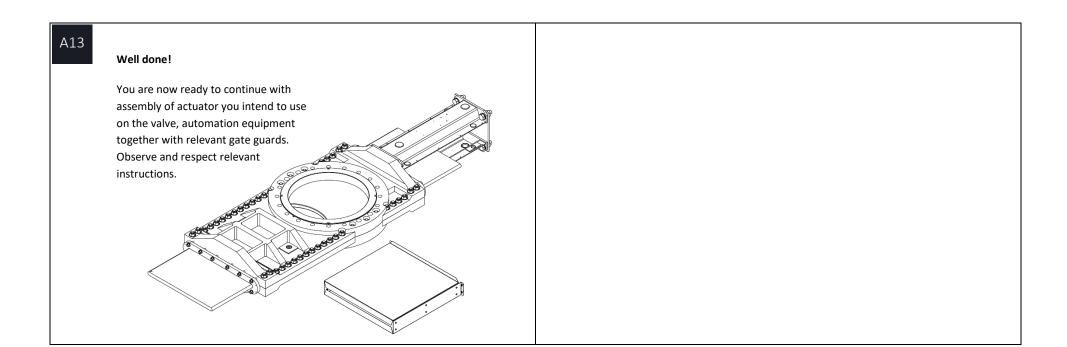
Tighten the bolts crosswise, minimum twice.

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Insert the PTFE rods on each side of the gate. Make sure you have equal protrusions on each side in the gland boxes. When the rod is in correct position, remove the temporary washers and assemble the body bolts manually before using machine support.



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