

Maintenance instruction

Knife gate valve HG, HPT DN 50 - DN 150 (2" - 6") DN 200 - DN 250 (8" - 10")

Knife gate valve HL, HG, HP, HPT DN 300 - DN 1200 (12" - 48")



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1. Introduction

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

A. Knife gate valve HG, HPT in sizes DN 50 - DN 150 (2" - 6").
B. Knife gate valve HG, HPT in sizes DN 200 - DN 250 (8" - 10").
C. Knife gate valve HL, HG, HP, HPT in sizes DN 300 - DN 1200 (12" - 48").

In this instruction notes and warnings are marked with symbols:

	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

<u>^</u>	•	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 (if any).
- 6. Remove the gate.
- 7. 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.







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



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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.











B. Knife gate valve HG, HPT in sizes DN 200 - DN 250 (8" - 10").

1) Lower gate guard together with beam gate guards are or supplied when the valve is remote operated.

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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.









Pos	Part	S	Spares		
1	Plug				
2	Beam				
3	Yoke (temporary)				
4	Nut				
5	Washer				
6	Tie rod				
7	Gate				
8	Locking nut				
9	Washer				
10	Gland				
11	Retainer ring screw				
12	Retainer ring				
13	Flush port plug				
14	Nut				
15	Washer				
16	Valve body side				
17	Body seal o-ring				
18	Glandbox packing braids				
19	Stud bolt				
20	Lower gate guard ¹⁾				
21	Seat o-ring				
22	Seat o-ring				
23	Seat				
24	Body bolts				
25	Guiding pad				
26	Guiding pad				



1) 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 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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C1. Knife gate valve HL, HG, HP, HPT in sizes DN 300 - DN 1200 (12" - 48") with stainless steel topworks

supplied when the valve is remote operated.

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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.

5: 2025-07-18







