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	RK-Probball KH 1T M	file:

Assembly and Repair Instructions for KLINGER SCHÖNEBERG Ball Valves,  
Type RK-Probball KH 1T M

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## 1 Validity

These Assembly and Repair Instructions are applicable to the type series listed below:

RK-Probball KH 1T M

## 2 General Remarks

These Assembly and Repair Instructions are designed to provide assistance in assembling, servicing and repairing the ball valve RK-Probball KH 1T M.



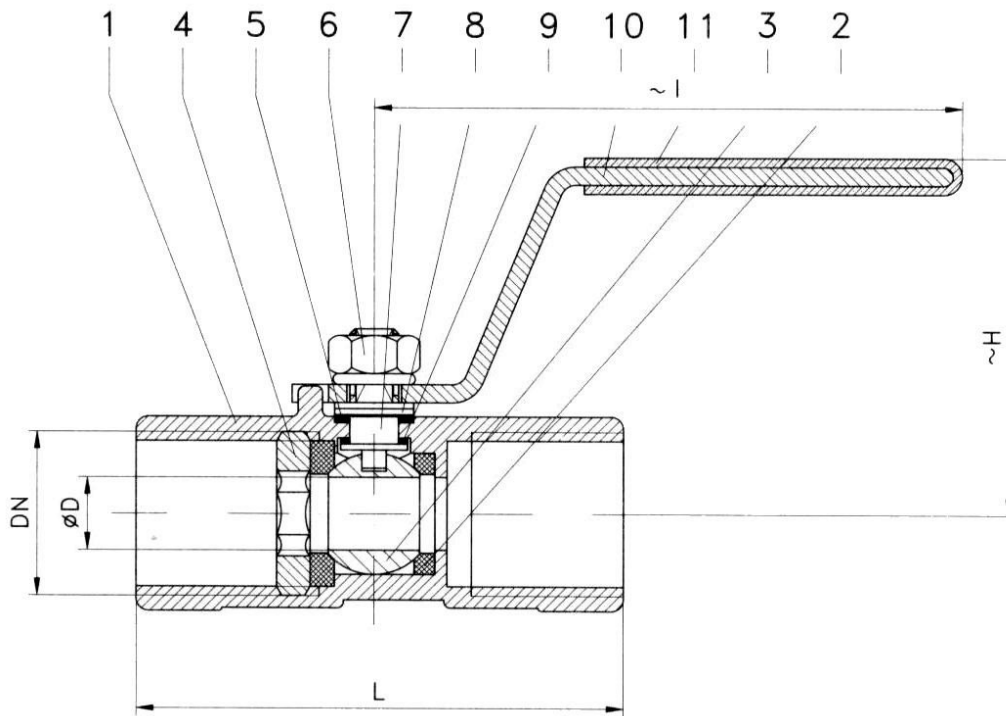
The valves may only be dismantled and taken apart by skilled personnel acquainted with the assembly, commissioning and operation of this product.

Trained personnel within the meaning of these Assembly and Repair Instructions are individuals who are able to assess the work which they have been entrusted and to recognise possible risks in view of their special training, their know-how and experience and their knowledge of the pertinent standards.


These instructions as well as the **Operating Instructions for KLINGER SCHÖNEBERG Ball Valves** must be observed. KLINGER SCHÖNEBERG GmbH shall not assume no liability for damage or interruptions to operation arising from incorrect handling or failure to observe these Repair Instructions.

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### 3 Construction and Components RK-Probball KH 1T M



Pos.	Part
1	body
2	seat ring
3	ball
4	gland nut
5	sealing ring
6	nut
7	stem
8	gland ring
9	stem packing
10	handle
11	insulation cover

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## 4 Assembly of the RK-Proball KH 1T M

### 4.1 Preparing for Assembly

All parts must be prepared to assemble the ball valve, i.e. the parts are carefully cleaned and laid on a soft base (rubber mat or similar).

It must be considered that the plastic parts are almost always soft and very sensitive and that in particular the sealing surfaces may not be damaged.

### 4.2 Assembling the Valve

The body must be tensioned securely and safely in a suitable device; free access to the cavity and stem must be guaranteed.

- the stem packing (9) must be placed upon the stem (7)
- the stem (7) must be inserted from the body side into the body (1)
- the sealing ring (5) and the gland ring (8) must be placed upon
- insert the ball (3) with the seat rings (2) into the body (1), tighten the gland nut (4)
- the handle (10) must be placed from the top and must be screwed with the nut (6)

### 4.3 Function, Strength and Tightness Test

After assembling the ball valve it must be checked whether it can move freely and whether the ball can turn unhampered. Finally the ball valve must be subjected to a strength and tightness test in accordance with EN12266 -1 Nr. P10 / P11 / P12.


### 4.4 Independent Conversion and Manufacture of Spare Parts

Conversion while changing the valve is only permissible after agreement and written declaration by the manufacturer. Original spare parts and accessories authorised by the manufacturer serve the purposes of safety. If other spare parts are used and consequences result KLINGER SCHÖNEBERG GmbH shall not assume liability.

### 4.5 Incorrect Operation

The operational reliability of the valve is only guaranteed if it is used correctly in accordance with the operating instructions for KLINGER SCHÖNEBERG ball valves. The limit value specified in the technical documentation may under no circumstances be undercut.

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## 5 Dismantling of the RK-Probball KH 1T M

### 5.1 Precautionary Measures

In order to ensure that any product residue which has remained in the cavity of the valve cannot lead to risk to the staff performing the dismantling operation, appropriate protective clothing made of chemical and solvent resistant material is to be worn on the entire body and a resistant facial protection.

For reasons of caution dismantling should be performed via a catch tank. Any toxic gases or vapours must be extracted so that they may not reach personnel. This also applies to the final cleaning after dismantling has been completed.

The ball valves must be brought into a pressure-free state for the purposes of repair. For this purpose they should be brought into the semi-open position. It will similarly be necessary to perform cleaning on the inside and outside before dismantling. It is expedient to switch the ball several times during cleaning of the cavity.

### 5.2 Preparing for Dismantling

Before dismantling, the body and the parts of the ball valve should be marked so that the assembly positions can be understood later on.

### 5.3 Dismantling

- before starting with the dismantling, the ball valve must be closed. Please take note, that no remaining pressure is on the pipe
- unscrew the nut (6) and remove the handle (10)
- remove the gland ring (8) and the sealing ring (5)
- unscrew the gland nut (4)
- take the ball (3) out of the body (1)
- press the stem (7) from the top into the body (1) and remove it
- remove the stem packing (9)

### 5.4 Check of the parts

If necessary, all single parts must be cleaned after the dismantling.

**Check of the ball:** Any defect (scratches, grooves, abrasion, corrosion etc.) at the surface, particularly in the sealing area can be a cause of leakage. If a fault will be noticed, the ball must be replaced.

**Further sealing parts:** [ stem packing (9), seat rings (2), sealing rings (5) ]. All these parts must be replaced in every case. A multiple use of one of these parts is not permitted. Please use always original spare parts.

**Stem:** After the cleaning, the stem must be checked on rust, particularly in the thread area and must be replaced if necessary.

**Body and its parts:** The body and its parts have to be checked on defects at the surface. In doubt cases or when required, a surface crack test (dye penetration test) is to be carried out. All other parts must be checked on mechanical damages and to be replaced if necessary.

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