

# **REMKO DIFFERENTIAL PRESSURE OVERFLOW VALVE**

*Operation · Technology*





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**Read these operating instructions carefully  
before commissioning / using the device!**

**These instructions are an integral part of the unit and must  
always be kept in the vicinity of the installation location or  
on the unit itself.**

**This operating manual is a translation of the German original.**



*Subject to modifications; no liability accepted for errors or  
misprints!*



Made by REMKO

# REMKO OVERFLOW VALVE

## Safety notes

Carefully read the operating manual before placing the unit in service for the first time. It provides useful tips  and notes  such as hazard warnings to prevent injury and material damage. Failure to follow the directions in this manual can endanger persons, the environment and the equipment itself and will void any claims for liability.

- Keep this manual in the vicinity of the units.
- Only qualified personnel may set up and install the units and components.
- The set-up, connection, and operation of the unit and its components must take place in accordance with the operating conditions stipulated in this manual and comply with all applicable local regulations.
- Modification of the units and components supplied by REMKO is not permitted and can cause malfunctions.
- Units and components may not be operated in areas where there is an increased risk of damage. Observe the minimum clearances.
- The electrical supply is to be adapted to the requirements of the units.
- The operational safety of units and components is only assured if they are fully assembled and used as intended. Safety devices may not be modified or bypassed.
- Do not operate units or components if there are obvious defects or signs of damage.
- The units and components must be kept at a safe distance from flammable, explosive, combustible, aggressive and dirty areas or atmospheres.
- Installation, repair and maintenance work may only be carried out by authorised specialists. Visual inspections and cleaning can be performed by the operator as long the equipment is disconnected from the power.
- Take appropriate precautions when performing installation, repair or maintenance work or cleaning the unit to make sure the unit does not pose a danger to persons.



## **Environmental protection and recycling**

### **Disposing of packaging**

All products are packed for transport in environmentally friendly materials. You can make a valuable contribution to reducing waste and to sustaining raw materials by only disposing of packaging at approved collection points.



### **Disposal of components**

The manufacturing process for the units is subject to continuous quality control. Only high-grade materials are used, the majority of which can be recycled. You can also contribute to environmental protection by only disposing of components in accordance with local regulations and in an environmentally safe manner, e.g. through authorised disposal and recycling specialists or at collection points.

## **Warranty**

The warranty conditions are listed in the "General terms and conditions". Please contact your direct contract partner first.

## **Intended use**

The overflow valve ensures that the minimum flow volume is maintained.

Any different or additional use is a non-intended use.

The manufacturer/supplier assumes no liability for damages arising from a non-intended use. The user bears the sole risk in such cases.

Using the equipment as intended also includes working in accordance with the operating manual and installation instructions and complying with the maintenance requirements.

# REMKO OVERFLOW VALVE

## Description

The overflow valve operates proportionally as a function of the differential pressure and ensures that the minimum flow volume is maintained.

It is designed for pump hot water heating systems.

The overflow valve prevents undesirably high increases of the delivery height and maintains the delivery rate.

In heat pump heating systems, this maintains the minimum circulation water volume.

The housing is made of corrosion-resistant brass.

The setting and adjusting scale can be read directly.

Equipped with an internal and generously sized stainless steel setpoint spring, the overflow valve is extremely precise.

The continuously variable adjustment is secured to prevent unauthorised persons from making adjustments.

The connections have an inside thread on the inlet side and a flat sealing fitting on the outlet side.

It has a 1" design.

## Installation

### Installation

Installation is possible independent of the position.

- As much as possible, install the overflow valve upright, i.e. with the hand wheel cap facing upwards. This ensures that it can be read easily.

- Take the direction of flow

The control is managed inside the valve. External control lines are not needed.

- Run the bypass line so that it does not lose pressure, i.e. as short as possible, generously sized and without avoidable resistance. This improves the overflow valve's effectiveness.

### Optimum (upright) installation of the overflow valve



### Setting and adjusting the overflow valve

The overflow valve is calibrated in the factory and preset to a cracking pressure of 200 mbar (2 m WS).

If it should be necessary to change the default setting, proceed as follows:

1. Loosen the lock screw.

Using the hand wheel cap, the cracking pressure can then be adjusted continuously in a range between 50 mbar and 500 mbar. The desired value can be read directly from the scale on the hand wheel cap.

A setting and adjustment chart is not needed.



#### NOTE

*The overflow valve must be set so that the minimum flow value is maintained in a closed heating circuit.*

2. Using the lock screw, then secure the selected position to prevent accidental adjustment.

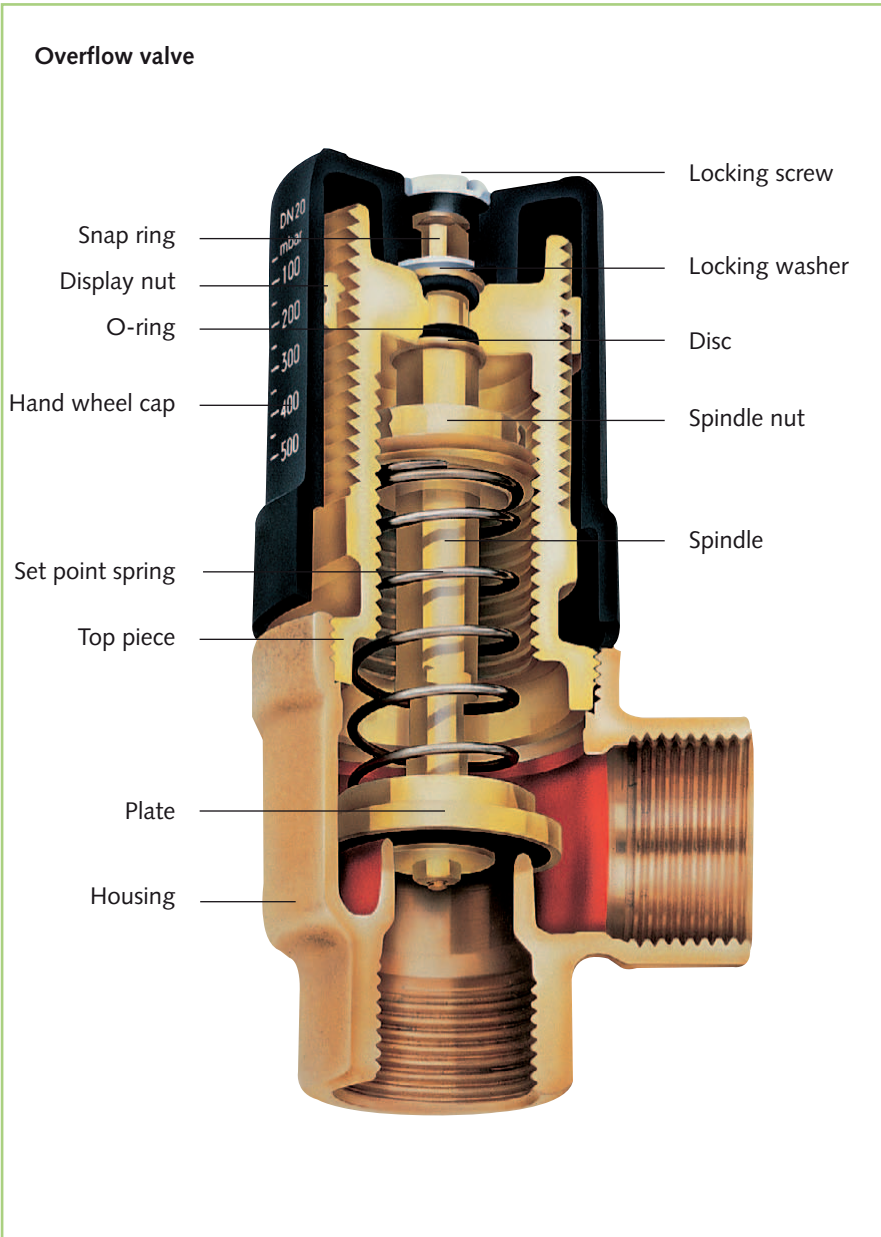


#### NOTE

*Installation may only be performed by authorised specialists.*

# REMKO OVERFLOW VALVE

## Exploded view of the unit



## Technical data

Unit type		Overflow valve
Inside thread, inlet connection	Inches	1
Inside thread, outlet connection	Inches	1
Cracking pressure range	mbar	50-500
Cracking pressure range, default	mbar	200
EDP no.		260080

We reserve the right to modify the dimensions and design as part of the ongoing technical development process.

# REMKO OVERFLOW VALVE

## Notes

A series of 14 horizontal light green bars, stacked vertically, intended for taking notes. Each bar is approximately 100 pixels high and spans most of the width of the page.



# REMKO INTERNATIONAL

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