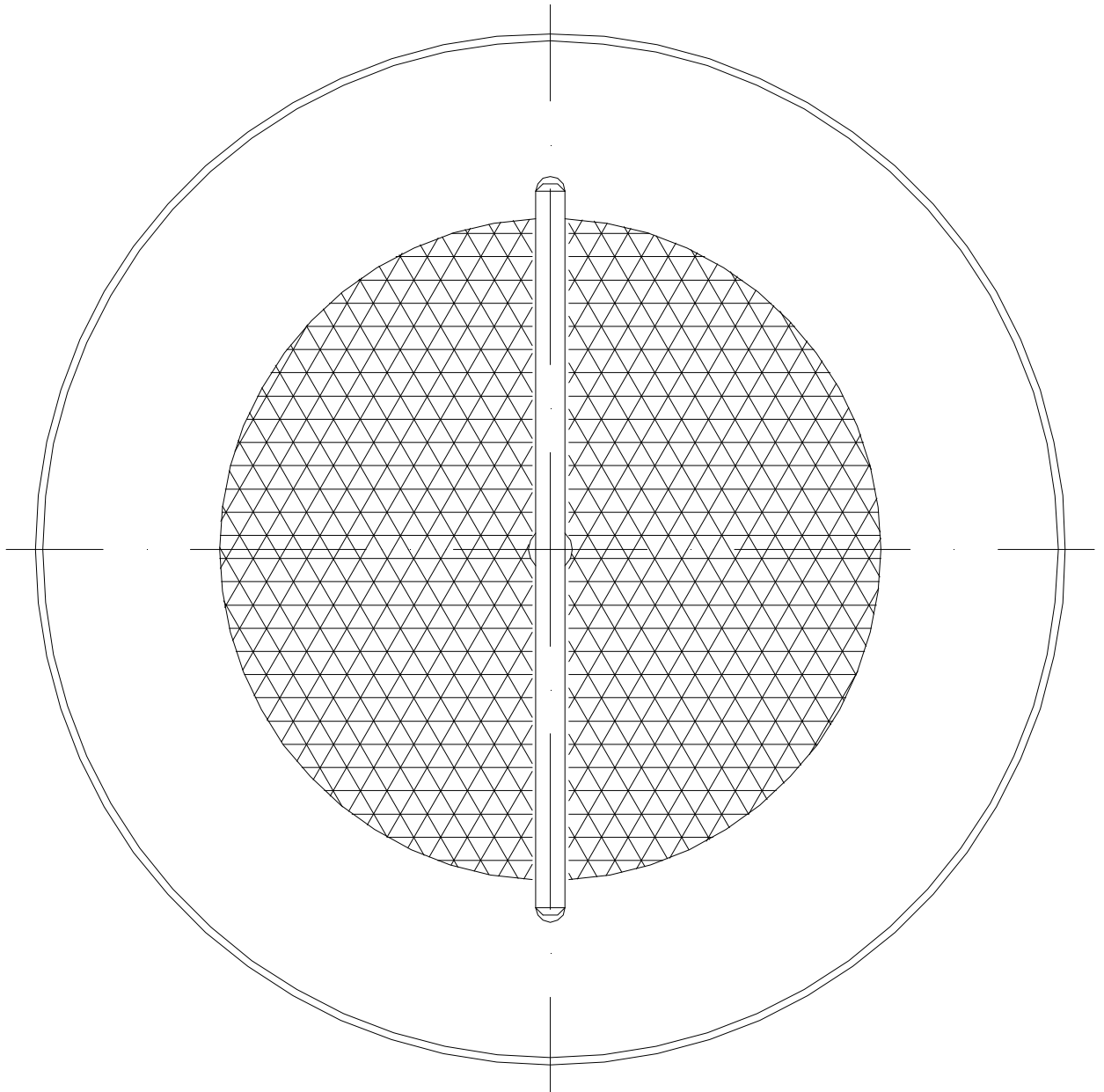


# Operating Instruction

## Flow straightener range 1009



## 1. Preface

These operating instructions apply to flow straightener line 1009 provided the fact that your flow straightener meet all technical standards described in this document.

Any information required for the assembly, use and maintenance of the flow straightener may be obtained from these instructions.

Please read the operating instructions on hand carefully to ensure the safe use of this products.

All assembly and maintenance work needs to be carried out by qualified staff.

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The operating instructions on hand correspond to the current technical state of flow straightener range 1009. Content subject to change, errors excepted.

## 2. Safety instructions

The following instructions are to be observed to guarantee workers protection and occupational safety:

- Compliance with laws and protective provisions in force at point of application. Operators and supervising staff are responsible for the fact that these provisions are observed.
- Assembly and maintenance work is to be carried out by qualified staff.

## 3. Symbols



Pay attention to accompanying documents!  
Important instructions for safe usage!

#### 4. Intended application

The flow straightener range 1009 shakes out incoming disturbed flow profiles of gases and liquids.

#### 5. Technical data

(Refer fig.1)

Connection : Clamping between flanges according DIN 2576 PN10 (EN 1092-1)



#### 6. Special requirements for safe use

- Maximum operating temperature : 200 °C
- Higher operating temperature on request.
- It is recommended to check before use whether the materials are resistant against mechanical and/or chemical influences under actual operating conditions.
- In case of a polluted fluid the flow straightener could be clogged because of the grid which could work like a dirt filter. This is dependant from the size and shape of the particles.

#### 7. Assembly

(Refer fig.1)

Note specifications from chapter 6!

- The flow straightener line 1009 is designed for the assembly between two flanges.
- When using several flow straighteners in line the stabilizer bars should align or be positioned 90° turned to another.
- Connections are to be sufficiently sealed with standard, media resistant gasket.
- Tighten screws crosswise with prescribed torque.



#### Note!

Pay attention to the following remarks before assembly:

- Do not press on or through the grid by hand or tool during handling.
- Assure a pressure less pipe system.
- Remove harmful and/or explosive medium out of pipe.  
Observe corresponding safety regulations!
- Use adequate protective equipment. (Protective cloth, breathing protection etc.)

## 8. Maintenance

On polluted medium the flow straightener is to be checked for impurities and, if necessary cleaned, in regular intervals to ensure a proper function.

Petroleum ether could be a suitable cleaning agent, although the instructions of the corresponding safety data sheet in accordance with directive 91/155/EC need to be observed.

### Disassembly



### **Note!**

Pay attention to the following remarks before disassembly:

- Assure a pressure less pipe system.
- Remove harmful and/or explosive medium out of pipe.  
Observe corresponding safety regulations!
- Use adequate protective equipment. (Protective cloth, breathing protection etc.)
- Do not press on or through the grid by hand or tool during handling.

### Assembly

Refer chapter 7

## 9. Repairs

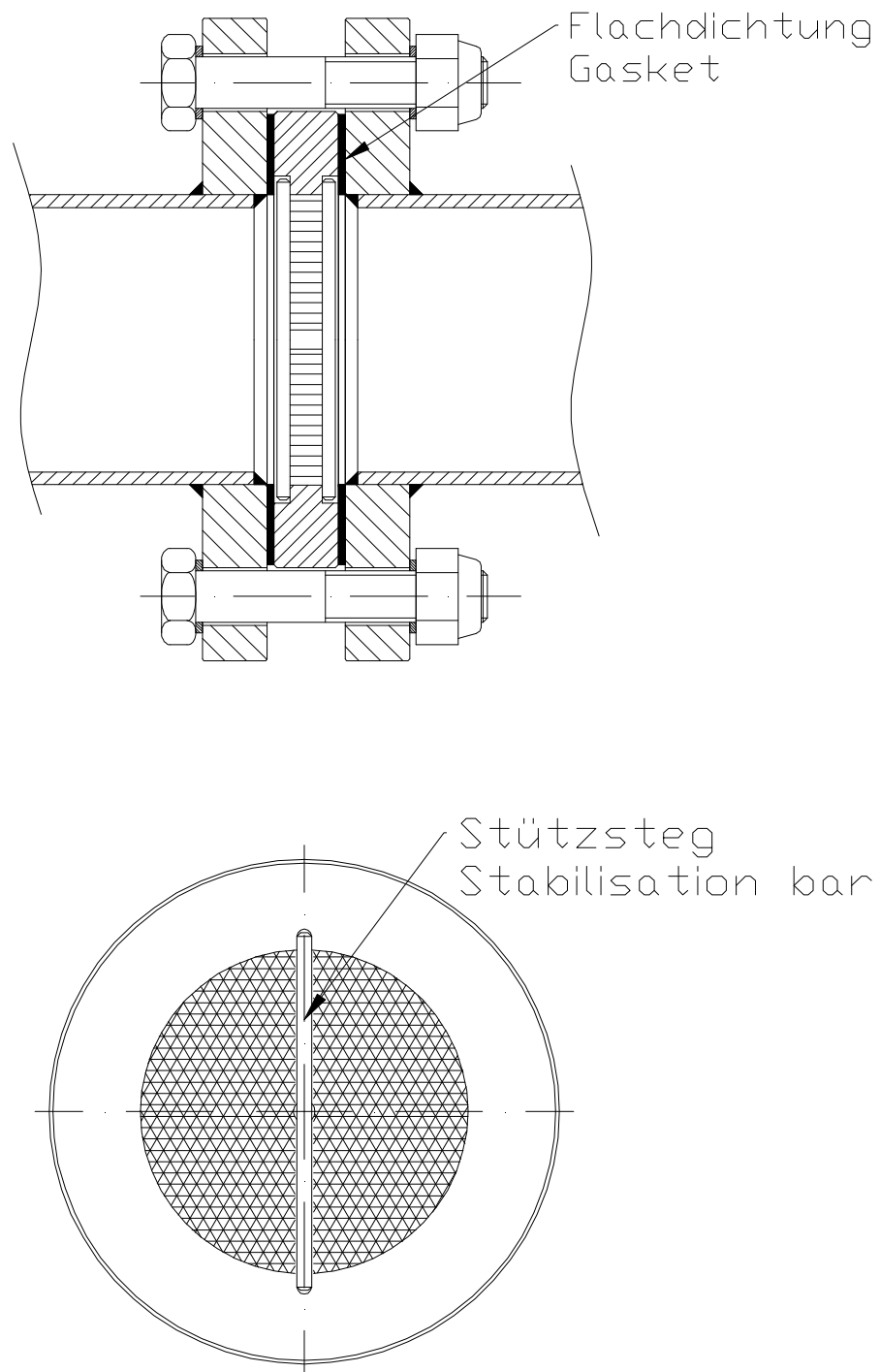
Only factory repair is possible.

Please send flow straightener to the address mentioned below.

## 10. Technical Consulting

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**Fig. 1**  
Construction and assembly