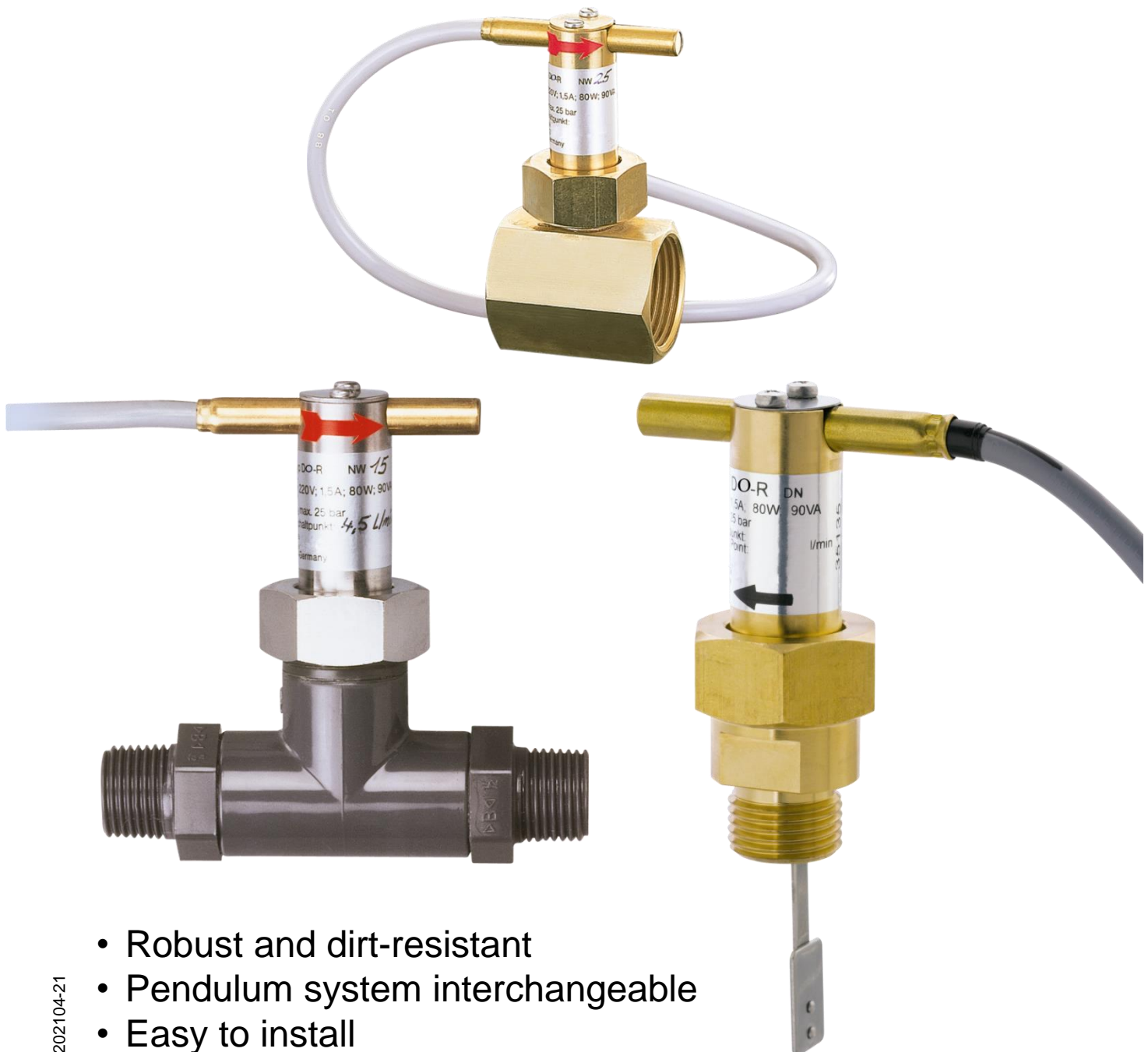




Operation Manual

Paddle-bellows Flow Monitor DO-R

Flow monitor working according to the baffle plate principle for liquids



- Robust and dirt-resistant
- Pendulum system interchangeable
- Easy to install
- Pendulum system in stainless steel
- Low pressure loss

B-EN-DO-R-202104-21



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1. Delivery

All instruments are ready for use. Avoid rough handling (as impact and shock).

2. Assembly

2.1. Mounting orientation

The DW-R flow monitor is to be installed directly into a pipeline system. The units can be installed in any desired position. If the switch-point is pre-adjusted, a change of the mounting position can cause small deviations of the switch-point, especially at flow-switches for larger pipe sizes.

2.2. Flow direction

Due to the applied measurement principle, the devices are only functional if the direction of flow is paid attention to during installation. This is indicated by the arrows on the device.

2.3 Selection of installation site

To avoid damages to the measuring system, it is especially important to maintain the largest possible distance to magnet and ball valves. If this is not possible, the valves have to be installed separately after the installation of the flow monitor. In order to avoid pressure shocks it is very important to open the valves as slowly as possible.

It is advantageous to install the unit in a straight piece of pipe and to choose a place of mounting which has the largest possible distance from elbows, valves etc.

In order to have an accurate function of the device we recommend a straight length of 10 x d at the input side and 5 x d at the output side (d= internal diameter of pipe).

3. Types of installation

3.1. Screw-in model

The device has to be screwed in a ½" threaded socket. Ensure that the target plate is placed completely in the flow.

3.2. Item with thread connection (T-piece)

The pipe has to be connected directly with the device. We strongly recommend sealing all threads with PTFE sealing tape.



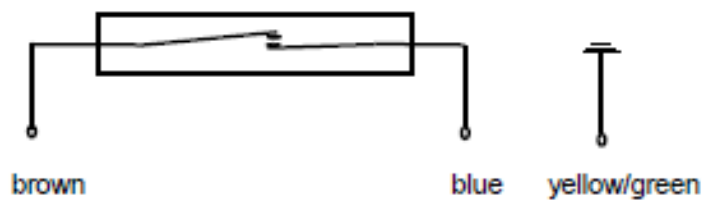
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4. Electrical connections

A reed-switch is founded in the switch enclosure, the reed-switch is actuated magnetically. The electrical connection has to be made according to the circuit diagram. As indicated on the label, none of the electrical connection values may be exceeded.

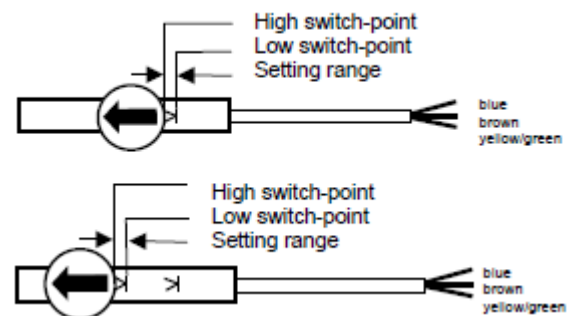


5. Adjusting the switch-point

The contact is closed after exceeding the switch-point, if the reed-switch tube is adjusted to the right arrow (cable right hand-side).

The contact is open after exceeding the switch-point, if the reed-switch tube is adjusted to the left arrow.

The tip of the arrow corresponds to the lowest, the end of the arrow to the highest possible switch-point.





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Important notes!

Technical changes and errors excepted.

These operating instructions are an integral part of the device and must be kept accessible to the personnel in the immediate vicinity of the device at all times. Persons who install, operate or service this device must read and understand these operating instructions carefully before starting any work. All safety instructions and instructions in this manual must be adhered to. In addition, the local accident prevention regulations and general safety regulations for the area of application of the device as well as all national and international legal regulations and technical standards apply.

All illustrations in this operating manual serve the basic understanding. Photos can be examples of a variant. The illustrations may differ from the actual design of the units. No claims can be deduced from any deviations.

The device has been designed and constructed exclusively for the intended use described here.

Persons installing, operating or maintaining this device must be technically qualified personnel and must comply with the applicable accident prevention regulations.

limitations of liability

All information and instructions in this operating manual have been compiled taking into account the applicable standards and regulations, the state of the art as well as our many years of knowledge and experience. Schmidt Mess- und Regeltechnik accepts no liability for damage due to

- Failure to observe this manual
- Improper use of the device
- Working by untrained personnel with this device
- Unauthorized modifications or technical modifications not approved by the manufacturer
- Use of unauthorized spare parts