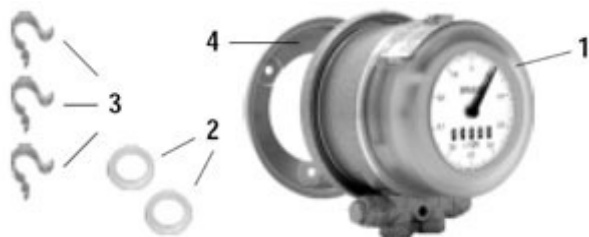


Oil Meter HZ 3 and HZ 3 RR Mounting Instructions

Scope of supply

1. HZ 3 oil meter or HZ 3 RR oil meter
2. Lip sealing ring (2 off)
3. Clamps (3 off)
4. Mounting plate
5. Mounting instructions



Safety advice

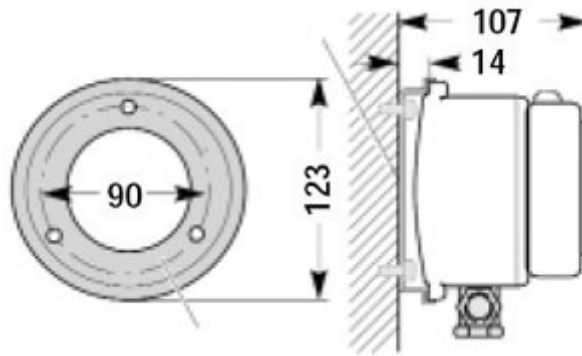
- ⚠ Before mounting the oil meter these instructions must be carefully read through and followed!
- ⚠ Danger of fire from combustible liquids! Take great care during grinding, cutting and welding work!
- 🚫 Fires, open lights and smoking are forbidden! Always keep fire extinguisher ready for use!
- ⚠ Danger of injury from sharp edges! Be careful during mounting!
- ⚠ Danger of crushing! The falling measuring unit can crush feet!

Purpose

The oil meter may only be used for measuring the consumption of heating oil (EL).

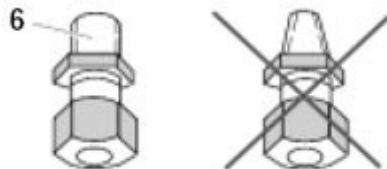
Mounting

1. Check measuring device and accessories for completeness and the required operating and ambient conditions (-> see section: "Technical data").
2. Adapt the pipe line as appropriate. The measuring unit must be easily accessible!
 - **In case of supply systems without pumps the intake height must be at least 1m!**
 - **Installing the oil meter on the suction side, a filter must be installed in front of the oil meter with a mesh size of 50- 75 μ . Air inclusions must be avoided since they cause measuring errors. If necessary the pipeline system or the screwed connections should be checked for tightness.**
3. Clear any swarf and other contamination from the lines.

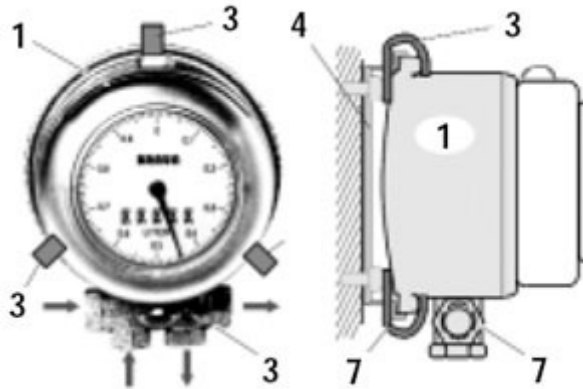


4. Attach retaining plate [4].

- The side or bottom connections can be selected.
- The meter must always be installed in an upright position and the seal on the counter cap must always be on top.



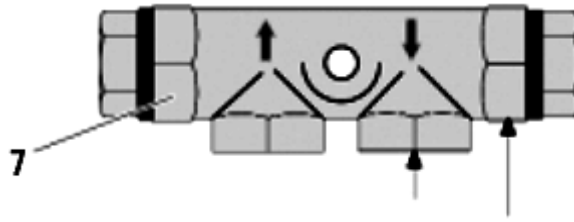
5. Remove sealing plugs and screw in screwed plugs [6] **with cylindrical threads.**



- Do not mix up the inlets and outlets!
- The lip sealing rings supplied [2] must be used for sealing the screwed pipe connections!

6. Attach oil meter [1] to the mounting plate [4] using the clamps [3].

7. Tighten up the screwed connections. Thereby hold the connecting piece [7] still with an SW 19 spanner.



During assembly hold here.

Starting up

- ✦ Where no pump is fitted to the supply system: Open valve and bleed air completely from system.
- ✦ In the case of pressurized systems: switch on pump, open shut-off valve and bleed air from the system.
 - Avoid pressure surges so as not to damage the measuring unit.
 - Entrapped air causes false measured results and can lead to damage!

The counter can be read as follows:

- ✦ One revolution of the pointer equals 1 l. After that, it will switch to the counter wheels. Full litres can be read from the wheels and the pointer position gives the decimal places.

Maintenance

- ✦ Regularly clean the preconnected filter!
- ✦ Check connections and lines for leaks!

The measuring unit must be kept clean but requires no maintenance.

Calibration

In case of calibrated HZ 3 oil meters, calibration is valid for 10 years. Thereafter the oil meter can be recalibrated by the manufacturer.

Identification of the HZ3 calibrated oil meter:

- ✦ Registration no. 5.223/92.02 and “Class 1” on company name plate
- ✦ Manufacturing number starts from 500.000 and increases

Domestic calibration:

- ✦ The calibration expiry date is stamped on the lead seal

EEC initial calibration:

- ✦ The date on which the counter was calibrated is stamped on the lead seal.

Technical Data

- Flow rate range calibrated

0,18 ... 12 l/h

● Maximum flow rate	30 l/h (25 kg/h)
● Possibility to read from the oil meter	0,01 l ... 99999,99 l
● Measuring accuracy	±1 %
● Nominal pressure	6 bar
● Pressure loss	0,05 bar ... 0,1 bar
● Heating oil type	EL according to DIN 51603
● Temperature range/ambient temperature	−5°C ... +70°C
● Connecting thread	DIN 3852-X-G 1/4", internal
● Boiler capacity/burner capacity	1,65 kW ... 265 kW
● Weight	1,25 kg

HZ 3 RR – Reed contact data

Pulse Tachometer:

Reed contact with protective resistor 100 Ohm, NO switch

Power Rating:

AC/DCmax.30V/30mA

Pulse value:

1 pulse = 1 liter

Low-pass before downstream entrance or meter:

Less than 5 Hz/ better less than 1 Hz (recommended)

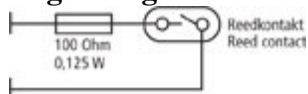
Type of Contact:

Screw terminal

Max. wire gauge:

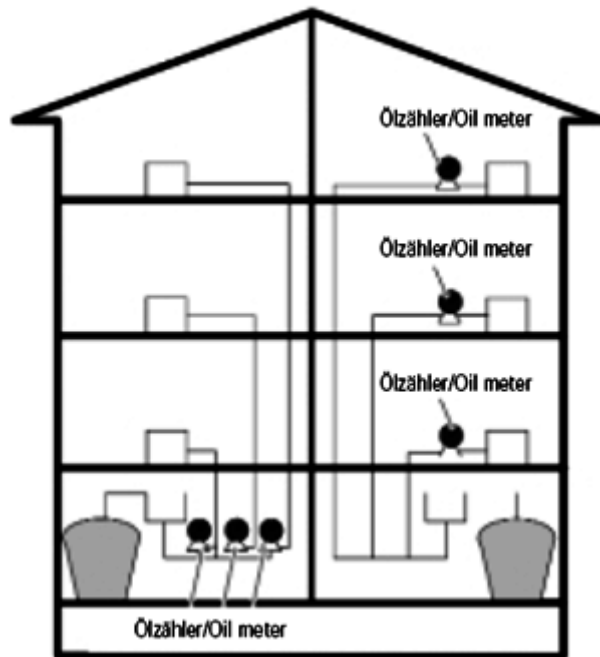
2 x 2,5 mm²

Logic Diagram:



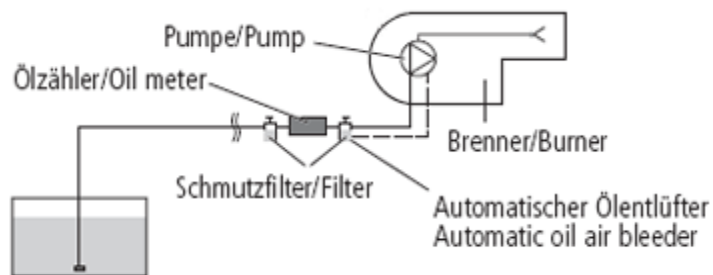
Installation options

Central oil supply



- can be read on the tank
- can be read in front of the combustion point

Single pipe system (Installation in suction pipe)



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