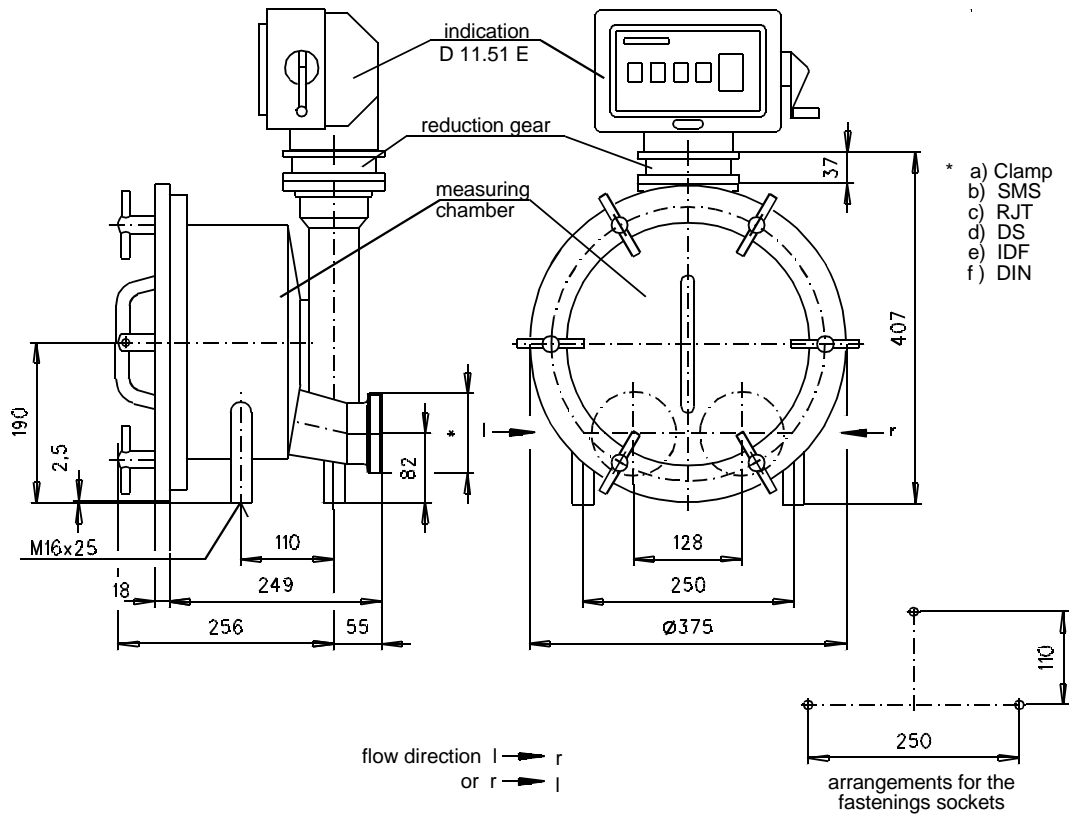


Dimensions



Description

In its basic construction the rotary piston meter consists of the measuring chamber with reduction gear and indicator, normally built-up as one unit. The choice of the optimum size and type of measuring chamber is subject to the operating conditions, and the selection of the indicator is dependent of the form in which the measured values should be indicated (refer to D 10.12 E).

The flow meter operates according to the rotary piston measuring principle. By means of a magnetic coupling the revolutions of the rotary piston are contactless transferred through a dividing wall to a mechanical gearing. In the reduction gear the revolutions are converted into decadic revolution values and indicated as figures on the indicator. All rotary piston meters can be additionally equipped with pulse transmitters which permit an electronic transmission of the measured values (refer to D 10.12 E). Before leaving the factory the rotary piston meters are adjusted and checked for accuracy. If desired, they could be officially tested on the DIESSEL test bench in the presence of a weights and measures inspector.

Special advantages of the rotary piston meters:

- Approved for official calibration in Germany and many other countries
- High accuracy
- Large flow range
- Low dependence of viscosity
- Simple and compact construction
- High operational reliability
- No requirement for auxiliary energy

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Rotary Piston Meter
Type RZ 3C

D 11.14 E

Issued: 01.97

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Technical Data

Flow range	6,000...72,000 l/h at a viscosity of 1 mPa • s
Pressure drop	admissible - max. 1 bar (refer to diagram)
Operating pressure	max. 4 bar
Connections	DN 65 acc. to DIN 11851 other connections possible
Revolutions values	10 l; 100 l; 10 Imp. gal.; 1 US gal; approx. 4,32 l without reduction gear
Product temperature	60°C max. (higher temperatures on request)
Cleaning temperature	max. 90°C
Materials	measuring chamber: stainless steel 1.4301 (AISI 304) on demand stainless steel 1.4571 (AISI 316)
	rotary piston: hard rubber/garphite; carbon; artificial material
Weight	47 kg (without indicator)

Pressure drop dependent of the flow rate and the viscosity of the product (applicable for: density = 1 g/cm³)

