



Positive Displacement Meter Flowal® Plus, Series OR Plus

Positive displacement meter for mineral oils and fuels



- Direct recording of the volume
- No infeed and outfeed sections required
- High durability and reliability due to robust construction
- Easy installation
- Accuracy $\pm 0.5\%$ at $3 \text{ mPa} \cdot \text{s}$ / $\pm 0.25\%$ with limited measuring range
- Repeatability $\pm 0.02\%$
- Viscosity up to $3000 \text{ mPa} \cdot \text{s}$



Positive Displacement Meter Flowal® Plus, Series OR Plus

Positive displacement meter for mineral oils and fuels

Features

- Direct measuring of volume
- No straight inlet and outlet sections required
- Long service life and high reliability due to robust construction
- Easy installation
- Accuracy up to $\pm 0.5\%$ at 3 mPa·s / $\pm 0.25\%$ limited measuring range
- Repeatability up to $\pm 0.02\%$
- Viscosity up to 3000 mPa·s

Constructive design

- Housing in aluminum PN40
- PEEK Oval wheels
- Seals in Viton, seals in EPDM

Description

The positive displacement meters Flowal® Plus series OR Plus allow accurate, reliable and economical measurement of flowrate, volume and mass . They are based on a robust concept with simplicity. The OR series are compact oval wheel meters with female threads and directly mounted compact multifunctional electronics MFE (8-digit LCD) or with pulse output (Open collector NPN, NAMUR, REED) .

Application

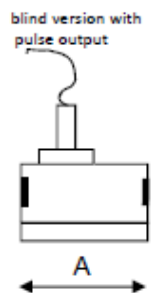
The Oval Wheel Meters are ideally suited for dispensing, filling or blending applications of mineral oils and fuels. The counters are highly suitable for viscous products, and are characterized by low pressure losses. They are suitable for small amounts and are insensitive to pulsating flows.

Version with multifunctional electronic MFE

- OR-MFE-1: battery-powered display
- OR-MFE-2: battery-powered display pulse output
- OR-MFE-3: power supply 24V DC, pulse output, current output 4-20mA, PT 1000 input for density correction

Version with pulse output

- OR-RM: REED pulse output **Ex**
- OR-N1: NPN pulse output **non Ex**
- OR-P1: PNP pulse output **non Ex**
- OR-A1: NAMUR Sensor **Ex**



compact version with electronics MFE



Application examples

- Hydraulic test benches
- Bio-diesel blending
- Burner consumption measurement
- Bitumen / asphalt production
- Lubricating oil blending and dosage



Positive Displacement Meter Flowal® Plus, Series OR Plus

Positive displacement meter for mineral oils and fuels

Technical data							
Flowal® Series OR Plus – for mineral oils and fuels							
		OR 015	OR 06	OR 1	OR 2	OR 5	OR 10
Materials	Housing	Aluminum (AL)					
	Oval wheels	PEEK (PK)					
	Bearing shafts	Stainless steel (1)					
	Seals	Viton / EPDM					
Technical data	Nominal size	G ¼"	G ½"	G ½"	G ¾"	G 1"	G 1"
	Measuring range	0,03 – 1 l/min	0,2 – 7 l/min	0,4 – 14 l/min	1 – 30 l/min	2 – 60 l/min	3 – 120 l/min
	Nominal pressure	PN 40					
	Temperature	minus 10°C up to 80°C					
Installation data A	Face to face	78 mm	78 mm	78 mm	99 mm	112 mm	112 mm
Pulse output	RM, ex		•	•	•	•	•
	N1, non ex	•	•	•	•	•	•
	P1, non ex	•	•	•	•	•	•
	A1, ex	•	•	•	•	•	•
or							
Multifunctional electronic*	MFE-1 exi	•	•	•	•	•	•
	MFE-2 exi	•	•	•	•	•	•
	MFE-3 exi	•	•	•	•	•	•

Ordering code example: OR1 AL1PK MFE-2

*degree of protection electronic: IP 65

Important instructions!

Technical changes and errors reserved.

Pictures can be similar.

The operating instructions belonging to this device must be observed! Download at www.schmidt-messtechnik.com.