

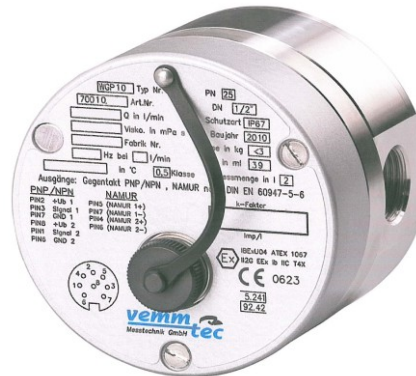
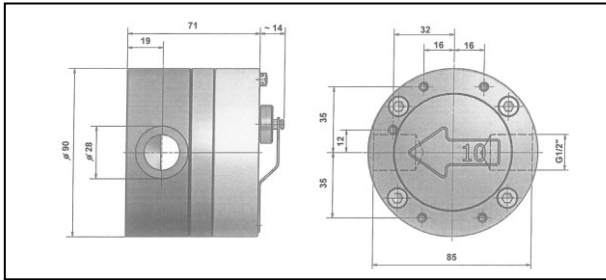
Liquid measurement with

## Oval Gear Meter Series COGEM

# WGP05

Volume and flow measurement technology with the latest series of vemm tec: COGEM. Precise and proven measuring technology with improved characteristics for almost every industrial measurement of liquids. Optimum adjustment of the measuring devices to the respective measuring task by our engineers. Use of the oval gear meters for operation measurements, process controls, as well as in legal traffic. Regardless if in a chemical factory, fuel-filling of motor vehicles, aeroplanes or ships with Diesel fuel, petrol, lubricants or AdBlue®, we are offering a measurement device of highest accuracy and life reflecting 50 years of experience of our company in measurement technology of oval gear meters with our oval gear meter of the series COGEM.

### Main dimensions



### Volume and flow measurement of e.g.

- Fuel, like petrol, diesel fuel, kerosene
- Mineral and synthetic oil
- Paints and lacquer
- Crude oil and heating oil
- Bio-diesel and vegetable oil
- Pharmaceutical products
- VE-water
- AdBlue®, UREA
- Acid and lye
- Dispersions and resins and any more

### Characteristics

- Improved measuring accuracy
- Wider measuring range
- Low investment, installation and maintenance costs
- No inlet and outlet lengths
- Most different process connections
- Bi-directional measurement

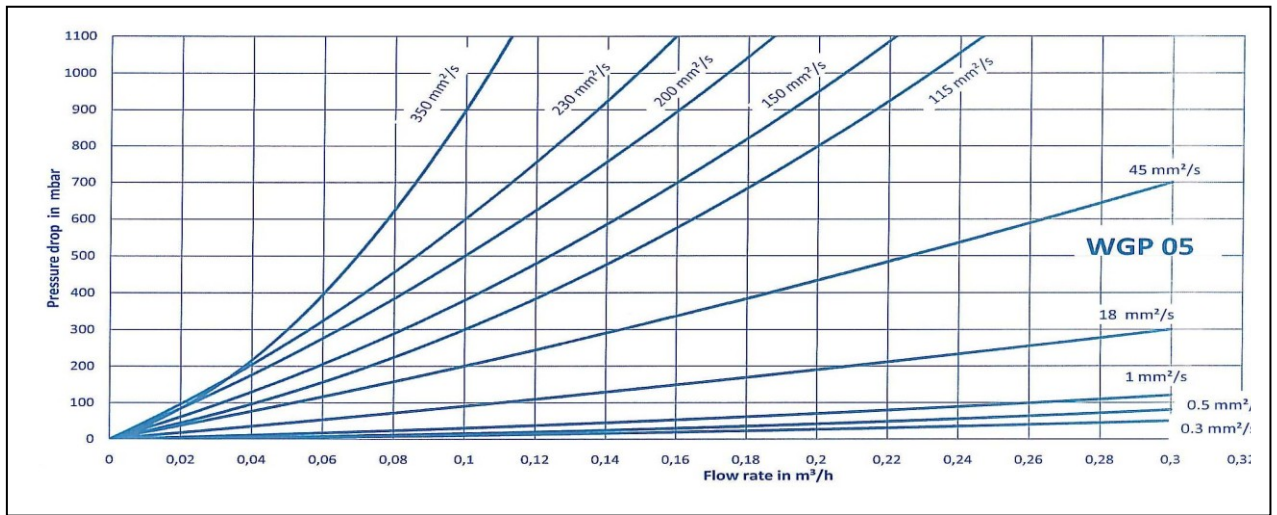
### Technical data

Measuring accuracy	$\leq \pm 0.30\%$ of reading, measuring range 1:10; Prover liquid: water <b>Higher viscosity = higher Measuring accuracy</b>
Repeatability	$\pm 0.025\%$ of reading ( Prover liquid: water)
Temperature range liquid	-40 to +80°C
Ambient temperature	-40 to +80°C
Process connections	G 1/2", or loose-type flange
Materials	Stainless steel (1.4581), sintered hard carbon, plastic, PTFE
Pressure rate	to 40 bar
Mass	approx. 2.5 kg
Electric connections	External voltage supply at NAMUR or PNP or NPN
Output	approx. 100 Pulse/Litre Signal: PNP, NPN, NAMUR ( respective pin assignment )
Explosion protection	IBEx U04 ATEX 1067 Ex II 2G EEx ib IIC T4
International protection	IP67 ( with a properly fitted plug or screw cap)
PTB approval	National type approval Nr. 1.32.8 - 5.241 92.42
At MID 2004/22/EG:	PER PTB-1.5-4035600

AdBlue® is a registered trademark of VDA.

**vemm**   
Messtechnik GmbH **tec**

## Pressure drop

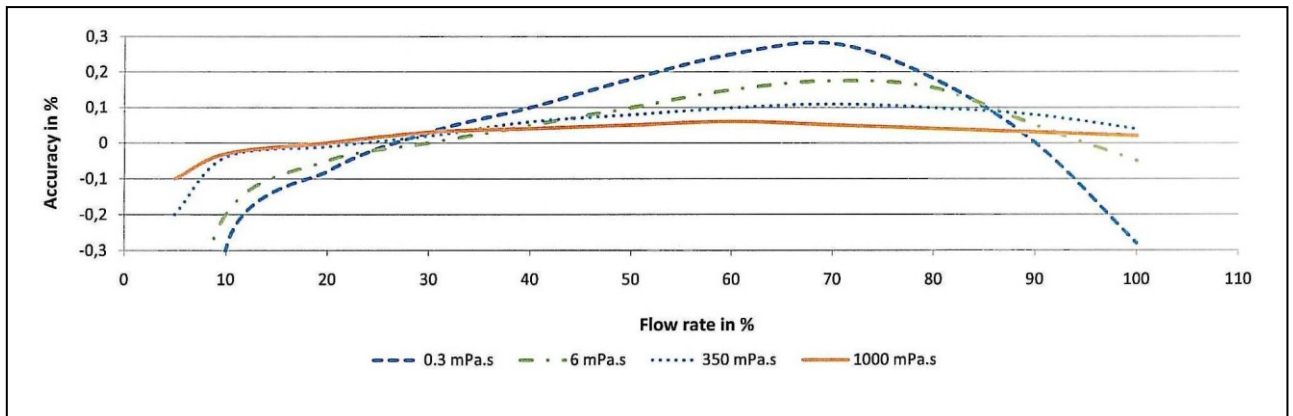


## Measuring ranges

For measuring materials with Newtonian flowing properties.

Viscosity mm <sup>2</sup> /s	< 0,3		0,3.... ...2		1.... ...17		3,5.... ...120		8... ...350	
Measuring range	1:5	1:6	1:10	1:12	1:10	1:12	1:10	1:12	1:10	1:12
accuracy %	+/-0.3	+/-0.5	+/-0.25	+/-0.3	+/-0.25	+/-0.3	+/-0.25	+/-0.3	+/-0.25	+/-0.3
Flow rate l / min										
min	1	0.8	0.5	0.3	0.5	0.3	0.4	0.2	0.3	0.1
max	5	5	5	5	5	5	4	4	3	3

## Typical measuring accuracy in various liquids



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