

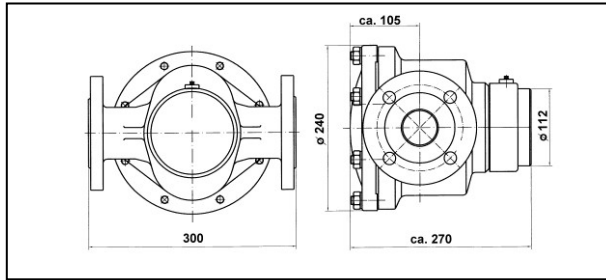
Liquid measurement with

Oval Gear Meter Series COGEM












WGP50

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

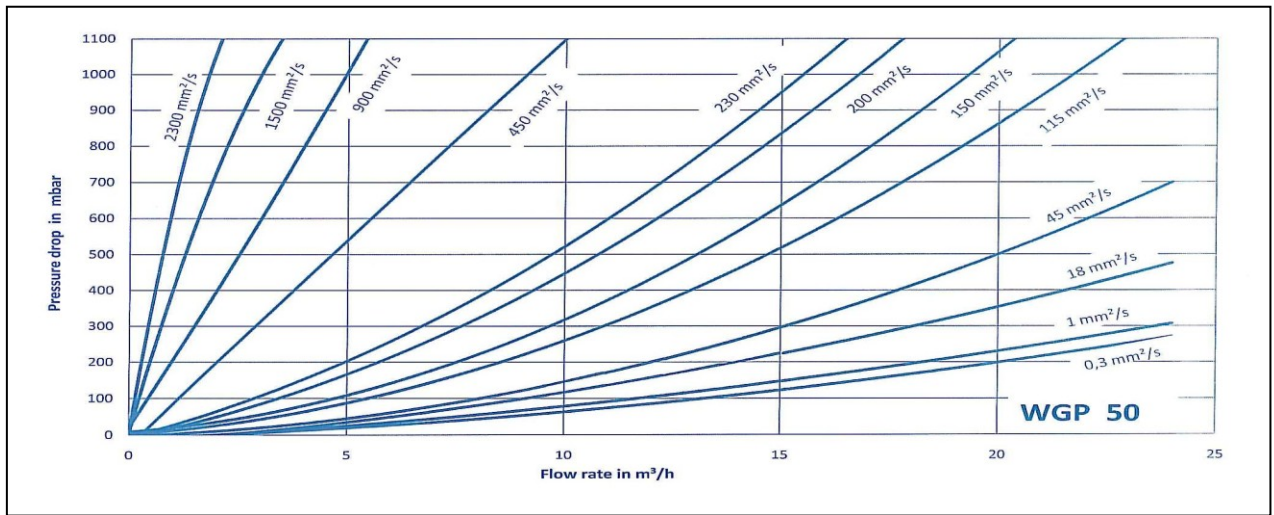
Characteristics

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

Technical data

Measuring accuracy	≤ +/-0.30% of reading, measuring range 1:10; Prover liquid: water Higher viscosity = higher Measuring accuracy
Repeatability	+/-0.025% of reading (Prover liquid: water)
Temperature range liquid	-40 to +80°C
Ambient temperature	-40 to +80°C
Process connections	Flange DIN EN 1092..., ANSI, TW or G 2"
Materials	Ductil iron (EN-GJS-400-18-LT), Stainless steel (1.4581)
Pressure rate	PN10, PN16, PN25, ANSI 150
Mass	approx. 38 kg
Electric connections	External voltage supply at NAMUR or PNP or NPN
Output	approx. 18 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

Pressure drop



Measuring ranges

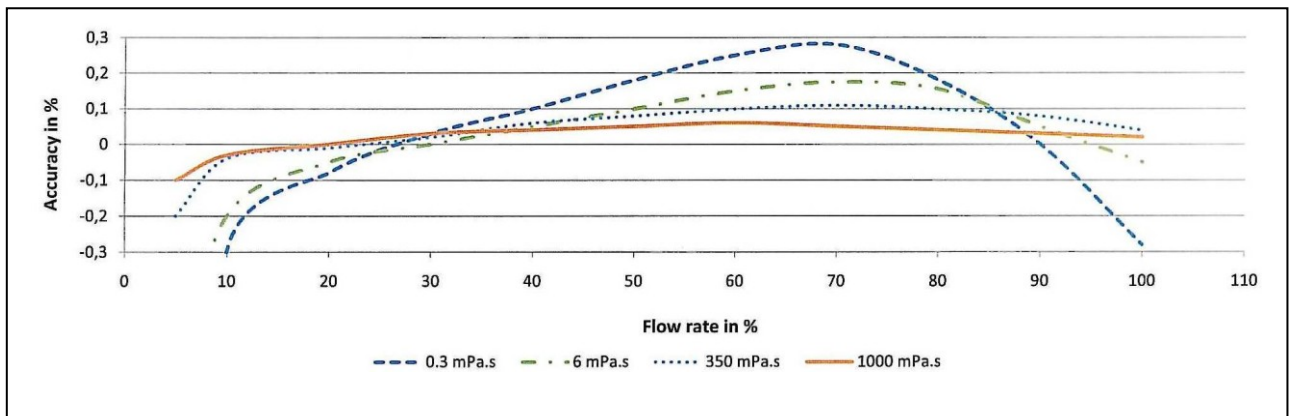
For measuring materials with Newtonian flowing properties. Oval gears with normal gearing.

Viscosity mm ² /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	80	65	40	30	40	30	40	30	30	25
max	400	400	400	400	400	400	400	400	300	300

For measuring materials with non Newtonian flowing properties. Oval gears with special gearing.

Viscosity mm ² /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	40	30	32	27	27	23	20	17	18	15
max	400	400	320	320	270	270	200	200	180	180

Typical measuring accuracy in various liquids



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