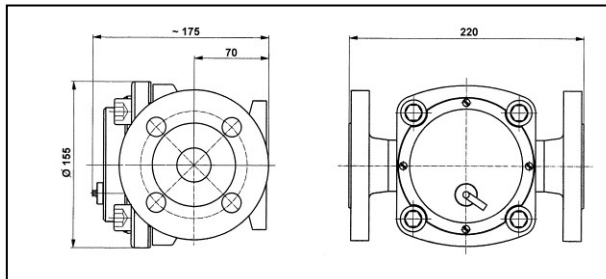


# Oval Gear Meter Series COGEM












# WGP32

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

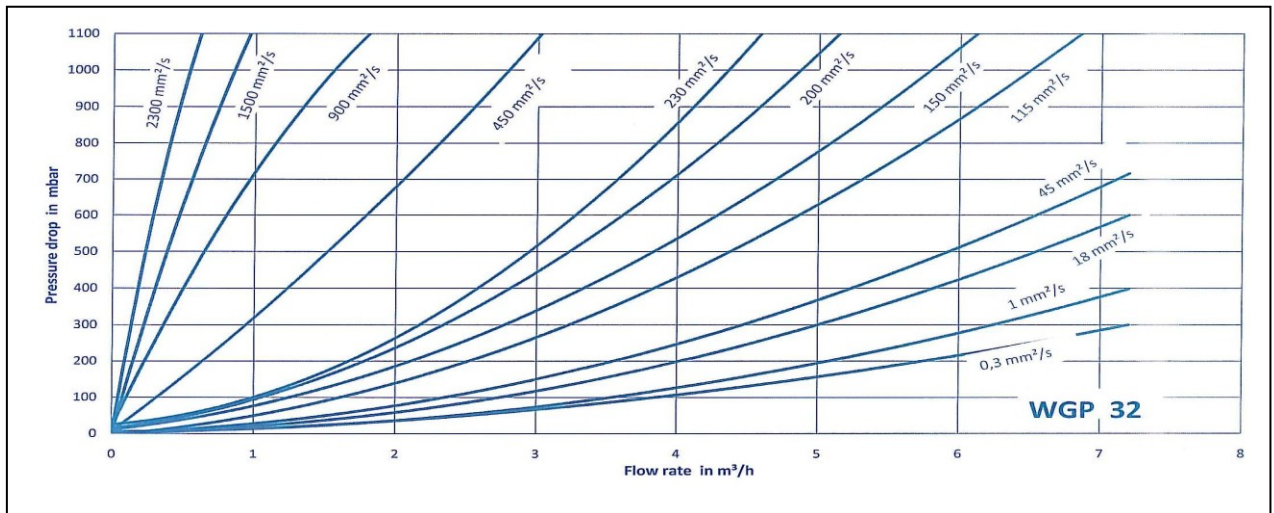
### Characteristics

-  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	≤ +/-0.30% of reading, measuring range 1:10; Prover liquid: water <b>Higher viscosity = higher Measuring accuracy</b>
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 1", G 1 ¼" or G 1 ½"
Materials	Ductil iron (EN-GJS-400-18-LT), Stainless steel (1.4581)
Pressure rate	PN10, PN16, PN25, PN40, ANSI 150
Mass	approx. 14 kg
Electric connections	External voltage supply at NAMUR or PNP or NPN
Output	approx. 45 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

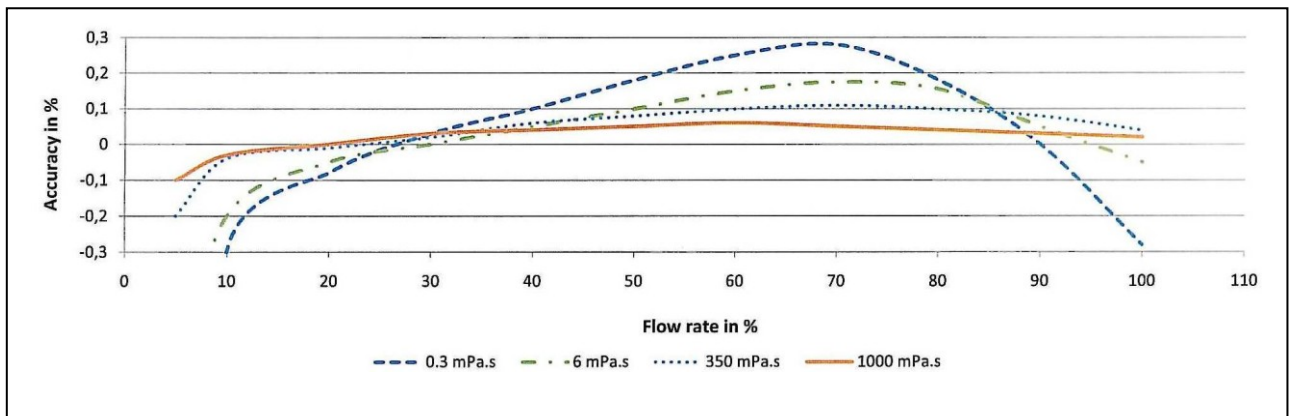
For measuring materials with Newtonian flowing properties. Oval gears with normal gearing.

Viscosity mm <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	20	16	14	12	14	12	12	10	9	7.5
max	80	84	140	140	140	140	120	120	90	90

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

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	12	10	10	8	6.5	5	4	3	2	1.5
max	120	120	100	100	65	65	40	40	20	20

## Typical measuring accuracy in various liquids



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