



Small but versatile

Oval Wheel Meter OS2 AG53

for High Temperatures

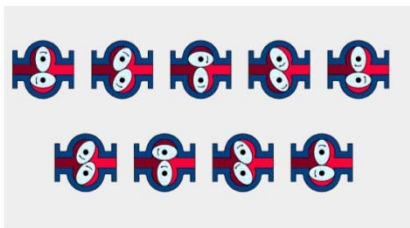
Robust and reliable design

For the precise measurement of the volume and flow rate of lubricants, oils and fuels

- Highest quality and precision for almost all volume and flow rate measurements in an extensive measuring range
- Robust and compact design
- Simple operation and installation
- Excellent load capacity due to double-sided axle attachment
- Suitable for measuring materials up to 130°C
- Blind version with an open collector pulse pick-up (resolution approx. 100 p/l)

Measuring Principle

Oval wheel meters are direct volumetric meters. The measuring element consists of two meshing precision oval wheels which are driven by the liquid. Therefore, each revolution of the oval wheels transports an exact quantity of liquid, defined by the geometry of the measuring chamber, through the meter.



The number of revolutions is directly proportional to the flow quantity. These are scanned by a pulse pick-up.



Technical Data

Measured error	+/- 1% of measured value with standard calibration +/-0.3% of measured value with special calibration	
Repeatability	better 0.05%	
Resolution	approx. 100 p/l	
Measuring temp.	-10°C to +130°C	
Ambient temp.	-20°C to +65°C	
Measuring pressure	16 bar	
Measured materials	only liquid media	
Viscosity	2 – 2000 mPas	
Elec. connection	Supply:	24 VDC
	Screw connection:	PG 13.5
	Output:	PNP
Material	Housing/Cover plate:	Aluminium, hard anodised
	Oval wheels:	Aluminium
	Axles:	Hardened steel (standard), stainless steel, if requested
	Bearing:	Bronze (standard), carbon bushings, if requested
	Gasket:	Fluorcarbon elastomer
	Connector housing:	Aluminium paint finish
Process connection	G 3/4" for screw in connection with elastic gasket	
System of protection	IP 65	
Pressure equipment directive	Classification according to pressure equipment directive 97/23/EG The OS 2 is suitable for liquids from group 1; classification according to Article 3, § 3	

Area of Application

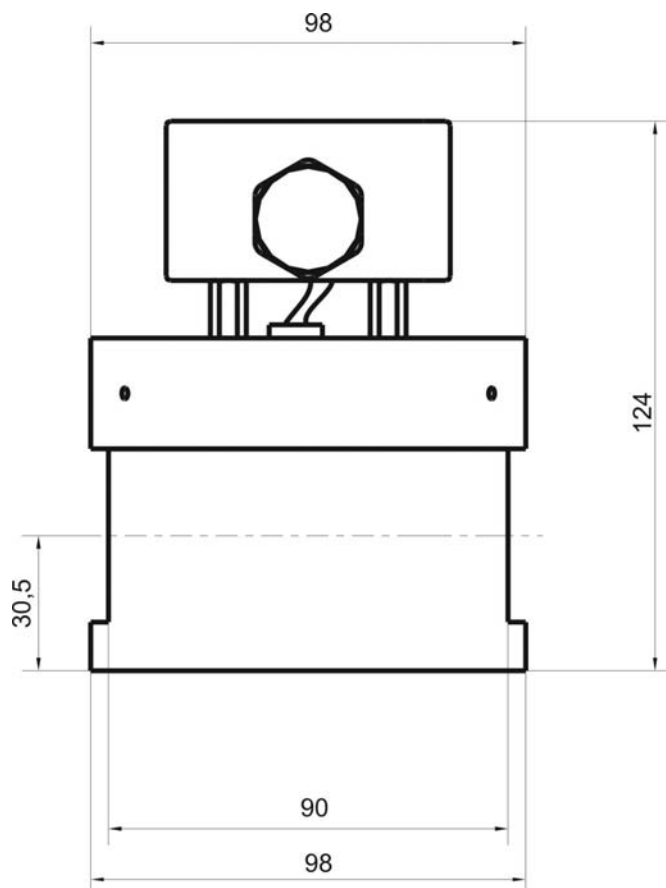
Applications, e.g. for measuring the volume and consumption of lubricating oil, mineral oil, fuel oil and hydraulic oil, of diesel in power units, burners and engines, of greases, paints, oil circuits and oil treatment plants, etc.

The device is suitable for industrial application due to its robustness and excellent accuracy. The oval wheel axles are pivoted on both sides, a feature which enables this meter to function perfectly during pressure surges, short overloads or with high viscosities.

Viscosity (mPa.s)	< 40	> 40
Measuring Range (l / min)	1 – 30	0.05 – 30

Model / Dimensions

All dimensions in mm

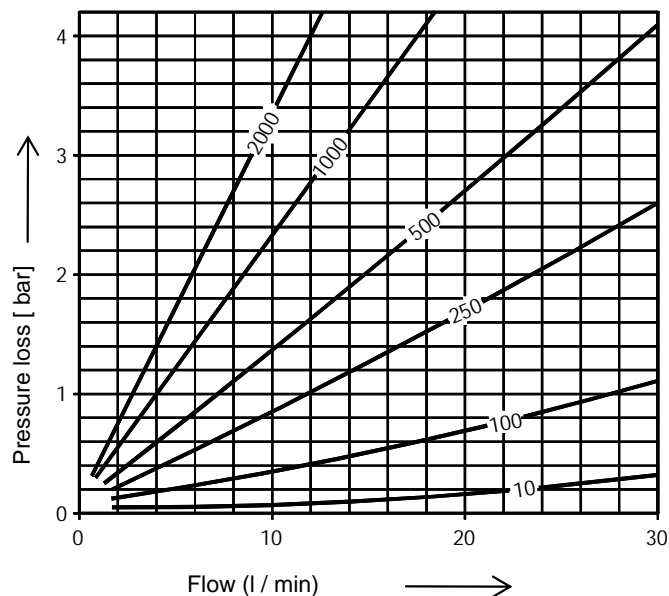


OS2 AG53

	Blind Version
Type	OS2 AG 53
Mounting Length	90 mm between the sealing surfaces
Height	124 mm
Weight	approx. 1.5 kg

Pressure Loss

Pressure loss depends on the dynamic viscosity
(in mPa.s) and flow



Subject to technical changes