

# **Aviation Meters**

series SBM and BM

**Data sheet:** DS/CO/0012/EN Ed. 09-2025

ISOIL aviation PD meters sizes 3", 4" and 6" grant high accuracy in measurement  $(\pm 0,1\%)$  and a repeatability of 0,02%, over a large range of flow rates. This accuracy remains constant during long periods of use.

Measured flow rate can be displayed either on a mechanical or on an electronical counter (e.g. VEGA 3 or VEGA T2).

# **Applications**

- Loading/unloading of tank trucks (refueler), tank wagons and barges
- · aircraft refuelling
- pipelines
- calibration of other meters and tanks as Master Meter



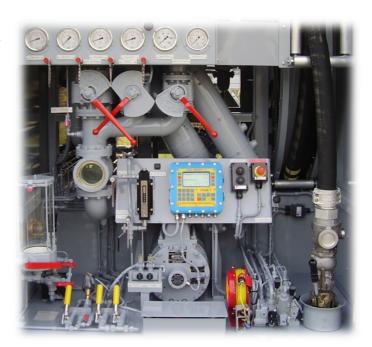
## **Operation**

When activated by the pressure inside piping, liquid flows into the measuring chamber of the PD meter thus setting the vanes into motion and, as a consequence, rotating the rotor. The vanes are always in contact with the internal surface of the measuring chamber. Product leakage is therefore avoided and high accuracy is granted.

When using a mechanical register, the calibration mechanism allows micrometric adjustment without need to change gears while with electronical counters the meter is equipped with a pulse emitter.



To assure a measuring accuracy and preserve the meter from damage, the fluid under measurement must be properly filtered and air or gas must be eliminated.





### **Master Meter**

All our meters can be used as master meters by providing them with specific accessories, calibration and configuration.

# **Technical data**

Working pressure: 1.000 kPaTest pressure: 1.700 kPa

• Working temperature: -10°+70°C standard

-30°+70°C low temperature

# **Compliance**

ISOIL aviation meters comply with PED and ATEX Directives.

### **Calibration certificate**

• Test fluid: water

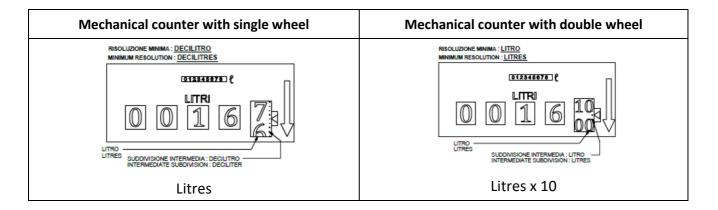
	SBM75	SBM150	BM 200	BM 400	BM 600
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Flow rate (L/min.):	[50; 500]	[100; 1300]	[120; 1.400]	[200; 2.600]	[300; 4.000] *
Accuracy	$\pm$ 0,15%	±0,10%	$\pm$ 0,10%	± 0,10%	$\pm$ 0,10%
Repeatabilit y	0,04%	0,02%	0,02%	0,02%	0,02%
Manifold and Flanges:	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium
Body:	Aluminium**	Aluminium	Carbon Steel**	Carbon Steel**	Carbon Steel**
Covers:	Carbon Steel**	Carbon Steel**	Carbon Steel**	Carbon Steel**	Carbon Steel**
Rotor:	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium
Vanes:	Xenia	Graphite	Graphite	Graphite	Graphite
Gaskets:	Nitril	Nitril	Nitril	Nitril	Nitril
Ball Bearings:	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Coupling:	Viton lip seal	Viton lip seal	Viton lip seal	Viton lip seal	Viton lip seal
Flanges (std):	square 90 x 90 mm	3" ANSI 150 FF	3" ANSI 150 FF	4'' ANSI 150 FF	6" ANSI 150 FF
Flange to flange:	210 mm	330 mm	356 mm	400 mm	400 mm
Readout:	litres	litres	litres	litres x10	litres x10

# Note:

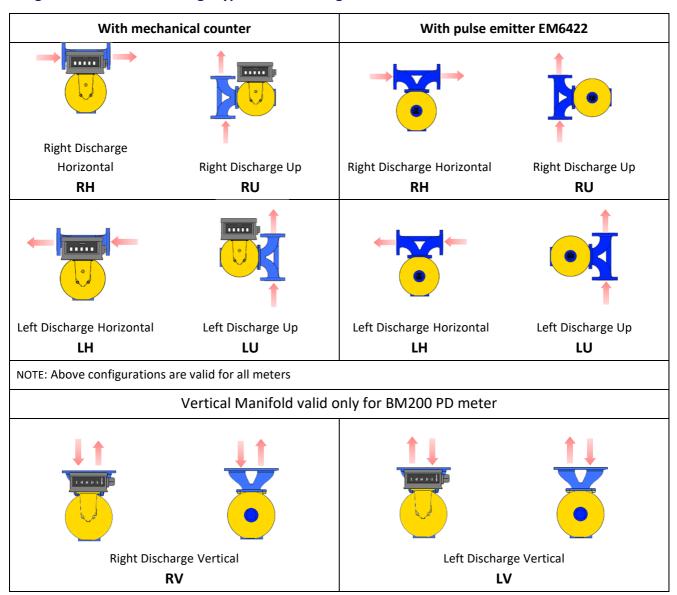
<sup>\*\*</sup> With corrosion prevention treatment.



<sup>\* 200-4.000</sup> l/min. available upon request. Evaluation certificate n° GB-1594 of NMO for MID systems.

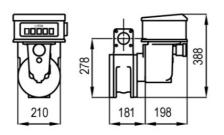


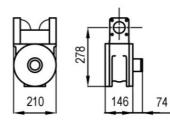
# Configuration: meters discharge type and mounting



# **Dimensions**

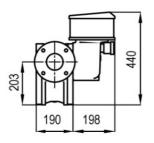
SBM 75

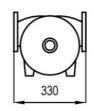


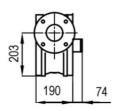


**SBM 150** 

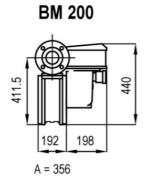


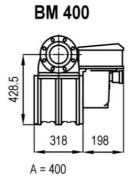


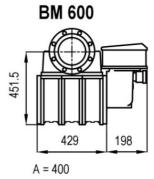




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