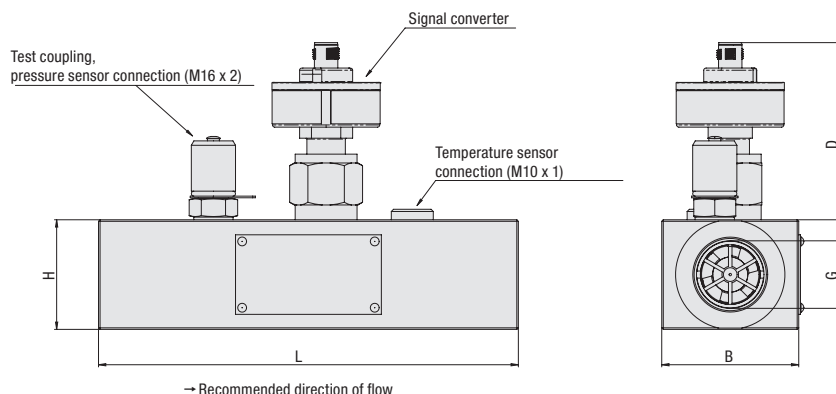


CAN Flow Turbine ■ Type Flow-meter-PPC-CAN-SFM



Order Codes

Flow-meter-PPC-CAN - SFM-015 - CAL

①

②

③

① Series and Type

CAN Flow Turbine **PPC-CAN**

② Version

1 ... 15 l/min / .27 ... 3.90 US GPM	SFM-015
3 ... 60 l/min / .79 ... 15.90 US GPM	SFM-060
5 ... 150 l/min / 1.32 ... 39.60 US GPM	SFM-150
8 ... 300 l/min / 2.11 ... 79.00 US GPM	SFM-300
15 ... 600 l/min / 3.96 ... 158.00 US GPM	SFM-600

③ Calibration

Without calibration certificate **(none)**
With calibration certificate (factory calibration) **CAL**

UNF version available on request.

Technical Data

Materials

- Housing: Aluminium (black anodised)
- Gaskets: FKM (Viton®)
- 5-pin connection plug
- Pressure measurement connection: SMK-20 (M16 x 2)
- Temperature measurement connection: M10 x 1 (standard screw plug)

Electrical Data

- Response time: 50 ms

Process Connection

- Please see table below

Protection Rating

- IP 66 protection rating: Dust protected and protected against strong jets of water

Ambient Conditions

- Media temperature: -20 °C ... +90 °C / -4 °F ... +176 °F
- Ambient temperature: -10 °C ... +50 °C / +14 °F ... +122 °F
- Storage temperature: -20 °C ... +80 °C / -4 °F ... +176 °F
- Rel. humidity: < 80%
- Permissible particle size: <10 Micron for SFM-015 (CAN), <25 Micron for others
- Viscosity range: 10 ... 100 cSt

Product Description

The CAN Flow Turbine Flow-meter-PPC-CAN-SFM is specially designed for the use with the CAN Hydraulic Testers and has to be installed permanently in the pipeline where the oil flow rotates the internal axial turbine. The generated frequencies are processed by digital electronics (a signal converter). Interferences caused by flow effects are compensated by this process. The signal converter is now directly integrated into the CAN Flow Turbine. This allows even simpler operation and supports permanent coupling of the turbine and signal converter components that are matched to one another.

The CAN Flow Turbine also improves the response times/ reaction times (from a previous 400 ms to 50 ms) and increases measurement accuracy.

The CAN Flow Turbine is available in five versions for various flow speeds. A CAN Pressure Sensor-PPC-CAN-P (see page 37) can be connected parallel to the CAN Flow Turbine by the way of the integrated test coupling. In addition, the oil temperature can also be measured using the connection of the Temperature Sensor-PPC-CAN-T (see page 39).

In general, the CAN Flow Turbine can handle flows in either direction. The specified technical data and the calibration (available as an option) apply only when the flow through the CAN Flow Turbine matched the recommended flow direction. A double-headed arrow is shown on the nameplate of the Flow-meter-PPC-CAN-SFM. The thicker end of the double-headed arrow specifies the recommended direction of the flow.

Connecting the CAN Flow Turbine to the CAN Hydraulic Tester a CAN Connection Cable and a CAN Terminating Resistor is needed. See page 47 for further information.

Dimensions and Measuring Range

Version	Measuring Range						Dimensions (mm/in)						
Flow-meter- PPC-CAN	Measuring Range (l/min / US GPM)	Max. Flow (l/min / US GPM)	Operating Pressure (bar / PSI)	Max. Pressure (bar / PSI)	Accuracy (at 21 cSt)	Max. Pressure Drop (at FS*) (bar / PSI)	G ** (BSP)	G (UNF)	B	D	L	H	Weight (kg / lbs)
SFM-015	1 ... 15	16,5	350	420	±1 (% FS*)	1,5	G1/2	3/4–16	37	78,8	136	37	650
	.26 ... 3.90	4.4	5076	6091		21.8			1.46	3.10	5.35	1.46	1.43
SFM-060	3 ... 60	66	350	420	±1 (% of the displayed value)***	1,5	G3/4	1-1/16–16	62	79,4	190	50	750
	.79 ... 15.90	17.4	5076	6091		21.8			2.44	3.13	7.48	1.97	1.65
SFM-150	5 ... 150	165	350	420	±1 (% of the displayed value)***	1,5	G3/4	1-1/16–16	62	79,4	190	50	750
	1.32 ... 39.60	43.6	5076	6091		21.8			2.44	3.13	7.48	1.97	1.65
SFM-300	8 ... 300	330	350	420	±1 (% of the displayed value)***	4	G1	1-5/16–16	62	81,3	190	50	1200
	2.11 ... 79.00	87.2	5076	6091		58			2.44	3.20	7.48	1.97	2.65
SFM-600	15 ... 600	660	290	348	±1 (% of the displayed value)***	5	G1-1/4	1-5/8–12	62	76,2	212	75	1800
	3.96 ... 158.00	174.4	4206	5047		72.5			2.44	3	8.35	2.95	3.97

* FS = Full Scale

** Standard option *** for measured values ≥ 15% FS; for measured values < 15% FS accuracy 0.15% FS

Dimensional drawings: All dimensions in mm (in).