

Electromagnetic Flowmeter FXF2000 (COPA-XF)

The intelligent flow sensor for conductive fluids



- Compact, stainless steel magmeter
- Suitable for battery mounting
- User-oriented primary design
- Meter sizes from DN 3mm (1/8") up to DN 100mm (4")
- Varied process connections
- All-in-one converter for continuous measurements and batch processes

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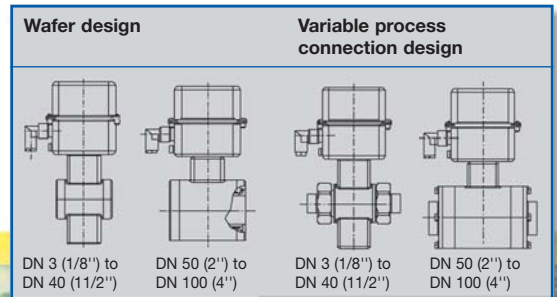
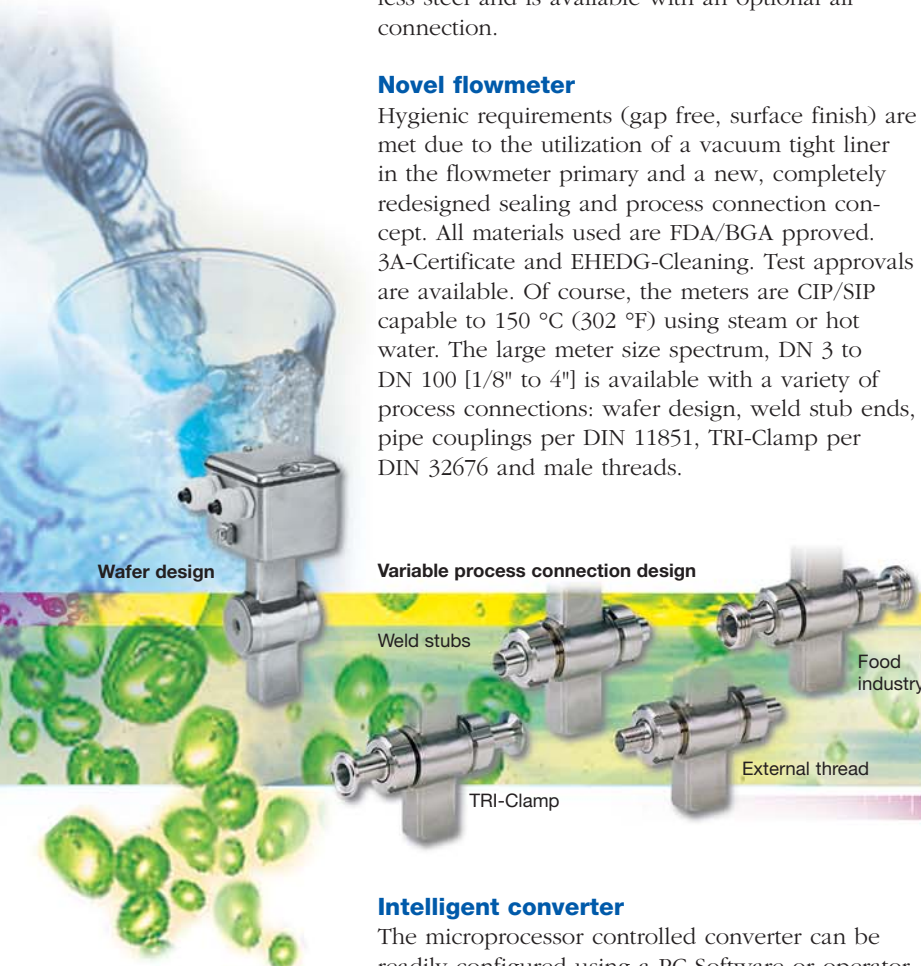
FXF2000 (COPA-XF) – the intelligent flow sensor for filling and dosing processes as well as for continuous flow metering

The FXF2000 (COPA-XF) is an electromagnetic flowmeter, which, due to its compact design is ideally suited for installation in filling systems, especially in battery mounting arrangements. During its design all aspects for sanitary and hygienic operation were considered. The housing is made entirely of stainless steel and is available with an optional air connection.

Novel flowmeter

Hygienic requirements (gap free, surface finish) are met due to the utilization of a vacuum tight liner in the flowmeter primary and a new, completely redesigned sealing and process connection concept. All materials used are FDA/BGA approved. 3A-Certificate and EHEDG-Cleaning. Test approvals are available. Of course, the meters are CIP/SIP capable to 150 °C (302 °F) using steam or hot water. The large meter size spectrum, DN 3 to DN 100 [1/8" to 4"] is available with a variety of process connections: wafer design, weld stub ends, pipe couplings per DIN 11851, TRI-Clamp per DIN 32676 and male threads.

The FXF2000 (COPA-XF) is available with different function modes: one mode for continuous flow measurement with current and scaled pulse output, another with a flow proportional frequency output (1, 2, 5 KHz). With the integrated batch software it is also suitable, to use the FXF2000 (COPA-XF) as a stand-alone filling system. In this function mode the fill cycle is controlled from an independent Start/Stop input and an anticipatory contact. The high reproducibility (typically < 0.2 % of rate) coupled with an accuracy of 0.5 % of rate ensure precision fillings. A synchronized output is available for valve control. The FXF2000 (COPA-XF) is suitable for batching time ≥ 2 sec.



Meter size Inch	DN	min. flow range flow velocity 0-0.5 m/s	max. flow range flow velocity 0-10 m/s
1/8	3	0 to 0.2 l/min	0 to 4 l/min
5/32	4	0 to 0.4 l/min	0 to 8 l/min
1/4	6	0 to 1.0 l/min	0 to 20 l/min
5/16	8	0 to 1.5 l/min	0 to 30 l/min
3/8	10	0 to 2.25 l/min	0 to 45 l/min
1/2	15	0 to 5.0 l/min	0 to 100 l/min
3/4	20	0 to 7.5 l/min	0 to 150 l/min
1	25	0 to 10 l/min	0 to 200 l/min
1-1/4	32	0 to 20 l/min	0 to 400 l/min
1-1/2	40	0 to 30 l/min	0 to 600 l/min
2	50	0 to 3 m³/h	0 to 60 m³/h
2-1/2	65	0 to 6 m³/h	0 to 120 m³/h
3	80	0 to 9 m³/h	0 to 180 m³/h
4	100	0 to 12 m³/h	0 to 240 m³/h

Intelligent converter

The microprocessor controlled converter can be readily configured using a PC-Software or operator unit. All parameter settings are stored in an EEPROM. Therefore if a failure should occur, the converter can be quickly and easily replaced without requiring a recalibration or disturbing the sanitary integrity of the system. The flow range can be selected between 0.5 and 10 m/s.



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