BAMa Modular Sensor Bypass Assembly

Flexible process connection for all ProMinent sensors for water treatment

The BAMa modular sensor bypass assembly accommodates ProMinent sensors for water treatment. The assembly is simply installed in a bypass of the main process line. It is available in various variants, each perfectly designed for special water treatment applications – from drinking water, water for pool & wellness to industrial water.

Depending on the application, the modular bypass armature can be selected in different variants:

For saving sample water: This variant of the BAMa allows all flow-dependent sensors in the 5...25”l/h range to be operated for clear water. This is very beneficial for applications, where sample water cannot or must not be returned to the process, e.g. drinking water monitoring or product water during the manufacture of beverages.

For process water which is clear or has low levels of solids where the sample water is returned to the process: This design can be operated between 20...60”l/h as a result of which self-cleaning of armatures and sensors is improved. Typical applications include water treatment processes in the pool & wellness sector.

For process water which has moderate levels of solids and/or for higher temperatures and/or pressure requirements: This BAMa configuration is designed for operation with flows of 20...100”l/h and is ideally suited for many applications, e.g. in industrial water treatment. The modular bypass armature BAMa and its various components can be perfectly combined for individual sample water conditioning. Additionally, a flow controller can be installed as well as can components for taking and treating sample water, such as a filter, flow limiter, metering module, ventilation, potential equalisation and earthing. For amperometric sensors without diaphragm, an integrated hydrodynamic cleaning unit can be ordered.

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Application	Drinking water or similar with sample water drained	Water from Pool & Wellness or similar with sample water returned to process	Industrial water or similar with a solids content and higher temperature and pressure requirements
Flow through the BAMa fitting	5…25"l/h	20…60"l/h	20…100"l/h
Minimum priming pressure without flow limiter and with clean filter, for a total of 9 modules	0.025"bar	0.05"bar	0.5"bar
Minimum priming pressure with flow limiter and with clean filter, for a total of 9 modules	1.5"bar	1.5"bar	2.0"bar
Maximum operating pressure	7.0"bar at 20"°C	7.0"bar at 20"°C	7.0"bar at 20"°C
Maximum operating temperature	60"°C at 3.5"bar	60"°C at 3.5"bar	70"°C at 3.0"bar
Surrounding temperature	-10…60°C	-10…60°C	-10…60°C
Particle mobility (proved with non-agglomerating, non-sedimentary model particles)	<"300 µm	<"300 µm	<"1,000 µm

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