

GENERAL CHARACTERISTICS

Built entirely of PVDF, its use is particularly indicated for the chemical and medical electronics industries. The sensor consists of a turbine rotor that enters in rotation with the passage of fluid. The fluid is forced into a helical motion by a special conveyor. The speed of rotation is proportional to the flow. The measurement is detected by an IR sensor external to the flow chamber. The particular shape of the turbine and of the flow conveyor determines a high measurement precision and a repeatability of 0.1%.

- Construction in PVDF.
- Hermetic separation between flow chamber and IR sensor.
- High accuracy and repeatability of measurement.
- Mechanics with interchangeable cartridge (KTI) on request.



TECHNICAL DATA

Tab.1

Type	Q max l/min	Measuring range l/min H ₂ O	Filter µm	KTI	Pulses liter	Frequency Hz	
10	2,0	0,1 - 2,0	-	•	36000	60 - 1200	Accuracy
20	9,0	0,3 - 9,0	60	•	8000	40 - 1200	Repeatability
30A	15,0	0,5 - 15,0	60	•	3200	26,6 - 800	Pressure
30B	15,0	0,5 - 15,0	60	•	1050	8,9 - 266,7	Temperature
40	30,0	1,0 - 30,0	60	-	1200	20 - 600	Viscosity
50	75,0	2,5 - 75,0	60	-	450	18,7 - 562	Materials
60	120,0	4,0 - 120,0	60	-	225	15 - 450	KTI option

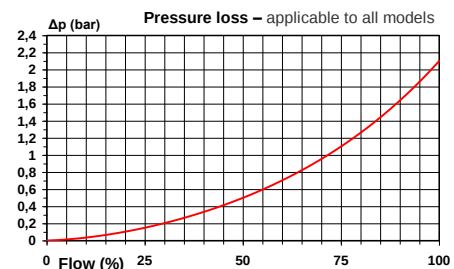
Accuracy	10 Series ± 1% 30 Series ± 3%
Repeatability	± 0,1% of measured value
Pressure	6 bar max.
Temperature	- 40 / +85 °C
Viscosity	15 cSt max.
Materials	PVDF
KTI option	• Interchangeable mechanics

ELECTRICAL DATA

Tab.2

Power supply	5 ÷ 12 Vdc	6 ÷ 33 mA	-
Output	Open collector		
Signal	Frequency	Square wave	0
		Sinusoidal wave	5
Max. load	500 ohm		
Connection	1 m cable	Other lengths on request	1M
Protection	IP65 - Encapsulated electronics		

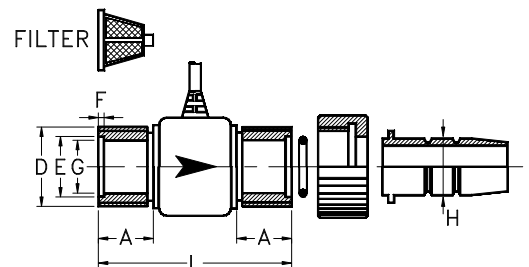
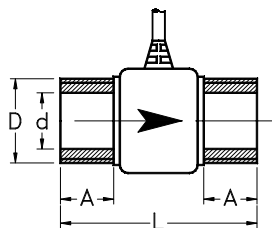
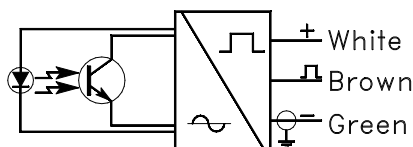
PRESSURE LOSS



DIMENSIONS AND WIRING

Tab.3

B BSP N NPT Dimensions mm					H Connections with hose adapters Dimensions mm								
Type	A	D	d	L	Type	A	D	E	F	G	H	I	L Tot.
10	9,5	1/4 "	6,5	39	10	9,0	M12x1,5	8,7	1,5	6,5	6,5	39	96
20	12,7	1/2 "	13	47	20	12,0	M20x2	16,0	1,8	9,0	9,0	43	112
30A	12,7	1/2 "	13	47	30A	12,0	M20x2	16,0	1,8	12,0	12,0	43	116
30B	12,7	1/2 "	13	47	30B	12,0	M20x2	16,0	1,8	12,0	12,0	43	116
40	18,5	3/4 "	17	63	40	16,0	M27x2	21,0	2,3	16,0	16,0	57	136
50	24,5	1.1/4 "	29	80	50	16,5	BSP 1"	29,4	1,6	24,5	19,5	80	182
60	24,5	1.1/4 "	29	80	60	16,5	BSP 1"	29,4	1,6	24,5	24,5	80	183



NOMENCLATURE

AFM	10 0	2 0	H	1M	KTI	
•						Name
	• •					Tab.1-2 Precision (Series) and Signal
		•				Tab.1-3 Type / dimensions
			•			Tab.3 Process connections
				•		Tab.2 Cable length
					•	Tab.1 Mechanics with interchangeable cartridge (KTI) option