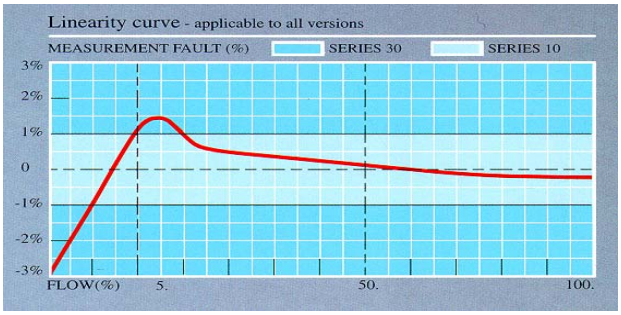
Specifications of the ***IR-Opflow*** turbine flowmeter

Technical specifications

Accuracy:	*IR-Opflow* 10 series: ± 1% of **measured** value *IR-Opflow* 30 series: ± 3% of **measured** value
Repeatability:	± 0, 1 % of measured value.
Calibrated linearity:	± 1% or ± 3% of measured value (depending on selected calibration series).
Measurement range:	See table 1.
Temperature range:	-40° to + 85° Celcius.
Maximum pressure:	10 bar.
Viscosity:	Max. 15 cSt (depending on the measurement range).
Process connection:	BSP, NPT or flexible hose fitting, see tables 2 and 3.
Materials:	All wetted parts are manufactured from PVDF.
Power supply:	5 - 12 VDC, 6 - 33 mA. 8 – 24 VDC, 18 – 30 mA.
Pulse output:	Push-Pull.
Max. load:	2k2Ω.
Frequency:	15 - 1200 Hz, see table 1.
Signal generation:	Optoelectronic (infrared).
Signal cable:	1 metre cable, other lengths on request.



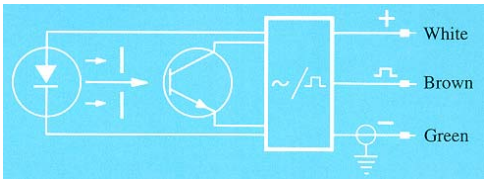
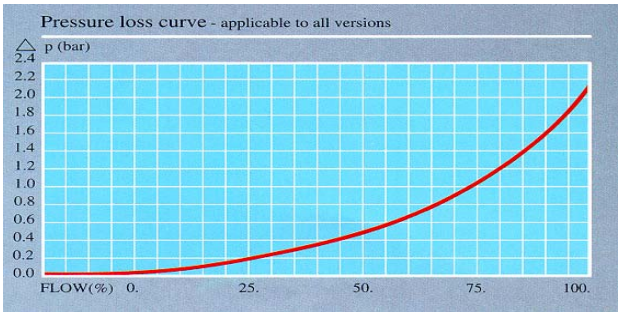


Table 1: Measurement range

Size	Range (L/min)	K- factor (pulses/L)	Output (Hz)
1 *	0.1 - 2.0	36000	60 - 1200
2 *	0.3 - 9.0	8000	40 - 1200
3 *	0.5 - 15.0	3200	26.66 - 800
3 *	0.5 - 15.0	1070	8.88 - 266.66
4	1.0 - 30.0	1200	20 - 600
5	2.5 - 75.0	450	18.75 - 562
6	4.0 - 120.0	225	15 - 450



* available with replaceable turbine in combination with hose fitting connection (see table 3)

Table 2: BSP or NPT connection

Type	Dimensions (mm) A	D	d	L
1	9.5	1/4"	6.5	39
2	12.7	1/2"	13	47
3	12.7	1/2"	13	47
4	18.5	3/4"	17	63
5	24.5	1 1/4"	29	80
6	24.5	1 1/4"	29	80

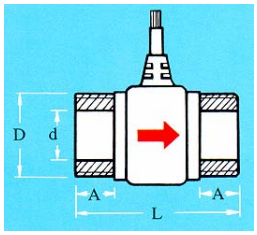
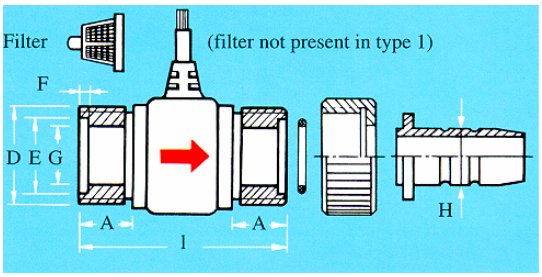


Table 3: Flexible hose fitting connection

Type	Dimensions (mm) A	D	E	F	G	H	l	Tot. L
1 *	9.0	M12 x 1.5	8.7	1.5	6.5	6.9	39	96
2 *	12.0	M20 x 2	16.0	1.8	12.0	9.0	43	112
3 *	12.0	M20 x 2	16.0	1.8	12.0	12.0	43	116
4	16.0	M27 x 2	21.0	2.3	16.0	16.0	57	136
5	16.5	BSP 1" Pl	29.4	1.6	24.5	19.5	80	182
6	16.5	BSP 1" Pl	29.4	1.6	24.5	24.5	80	183



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