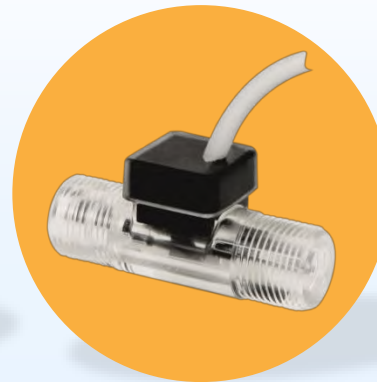
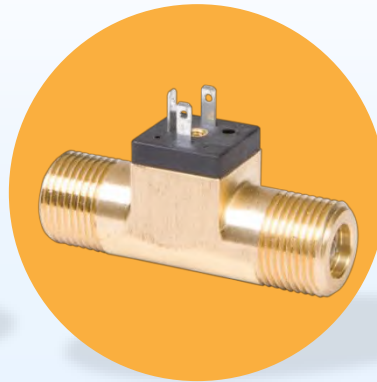


VISION TURBINE FLOW METERS

SPECIFICATIONS

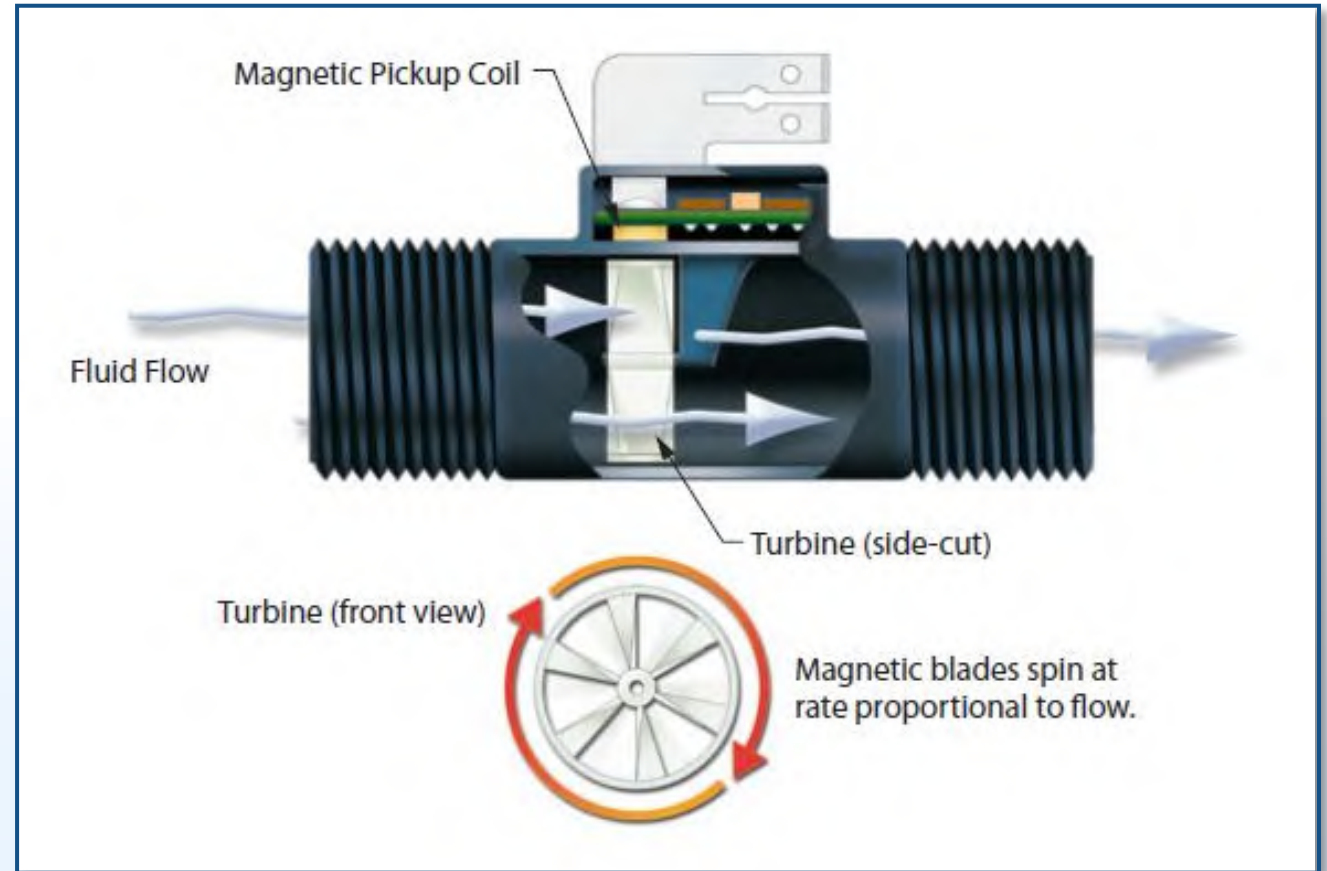


CONSTRUCTION AND OPERATING PRINCIPLE

Rotor (made of ferromagnetic PPS) is turned by the liquid force in proportion to the flow

Turbine and bearings: Fluid passes sideways

Hall effect sensor or coil supplies pulses for digital or analog signal processing



OPERATING PRINCIPLE

Liquid turns a bladed turbine inside the meter housing at an angular velocity directly in proportion to the velocity of the measured liquid.

As the blades pass beneath a magnetic pickup coil, a frequency signal is generated.

The provided pulses are specified as K factor.

Each pulse is equivalent to a discrete volume of liquid.

The frequency pulse is in direct proportion to the turbine angular velocity and the flow rate.

$$Q = \frac{f \times 60}{K}$$

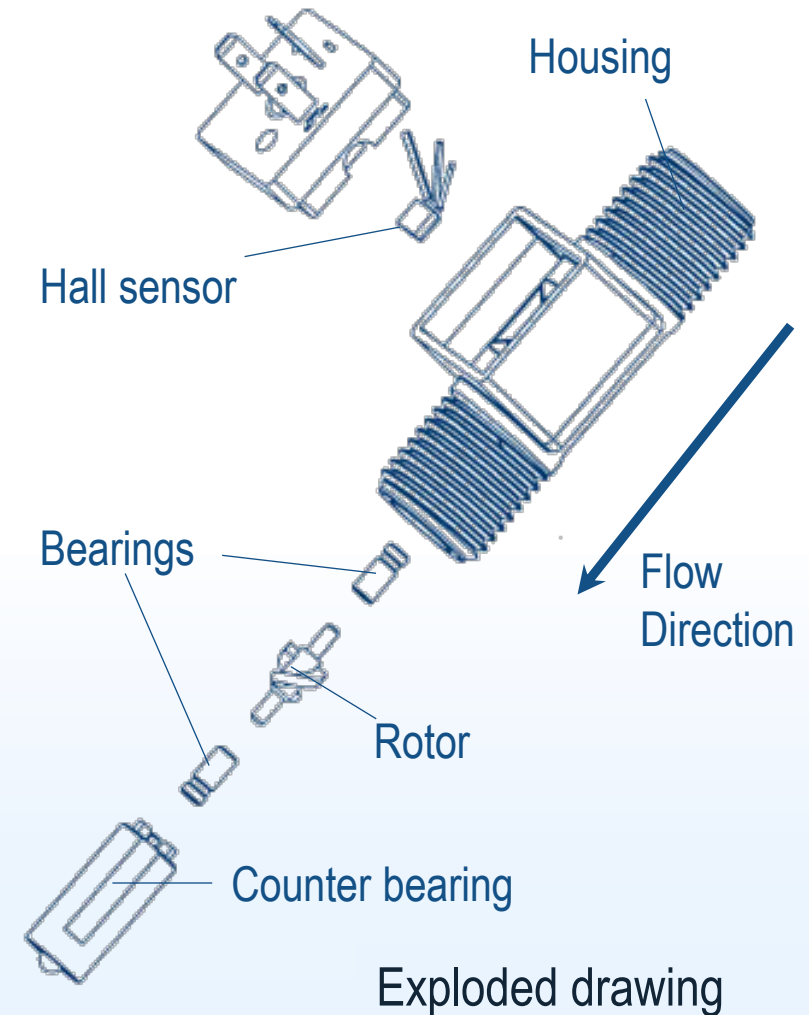
Q = Flow rate (l/min)

f = Frequency in Hz

K = K-factor (PPL)

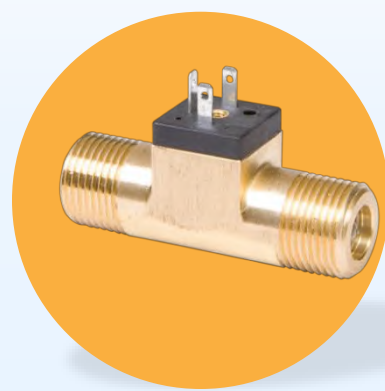
ADVANTAGES

- ✓ High resolution (large number of pulses)
- ✓ Fast response time (small mass)
- ✓ No flow straightener required
- ✓ No straight pipe run required
- ✓ Flexibility: Installation in any position
- ✓ Long lifespan without any loss of accuracy (simple mechanical construction)
- ✓ Pressure spikes (less than burst pressure rating) do not affect the measurements



PRODUCT RANGE

	VISION 1000	VISION 2000						VISION 3000
Type	1005 2F66	2006 4F44	2006 2F66	2008 4F17	2008 4F22	2008 4F44	2008 2F66	3012 4F16
Measuring range l/min	0.1 – 2.5	1 - 10	0.5 - 5	2 - 35	1 – 25	1 – 15	0.5 – 7.5	5 – 65
K factor PPL *	22,000	3,300	6,900	750	1,000	2,200	4,700	210
Size DN (mm)	5	6	6	8	8	8	8	12
*PPL = pulses/liter								



DISPLAYS – BATTERY POWERED

ILR 701T

ILR 750T

Electronic displays, meter mounted



Electronic display, remote with 3m cable



PICKUP OPTIONS

	Hall effect sensor	Coil
Input power:	5 – 24 VDC	2 – 5,5 V
Power consumption:	Approx. 8 mA	2,5 – 5 μ A
Output (Hz):	NPN sinking open collector	Push-Pull
Output current:	Max. 20 mA Pull-up resistor required	\pm 30 mA
Operation	All Standard VISION	For battery-powered displays



VISION with coil:
with Battery logo



THANK YOU!

Control. Manage. Optimize.

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