

GENERAL CHARACTERISTICS

The primary sensor is constituted by a propeller that enters in rotation with the passage of fluid. The speed of rotation is proportional to the flow rate. The measurement is detected by an inductive sensor. The body is transparent for a local view of the passage of the fluid. A version with blind body is available (TCO).



- Hermetic separation between flow chamber and sensor
- Good resolution and linearity
- Bi-directional operation
- IP67 protection



TECHNICAL DATA

Tab.1

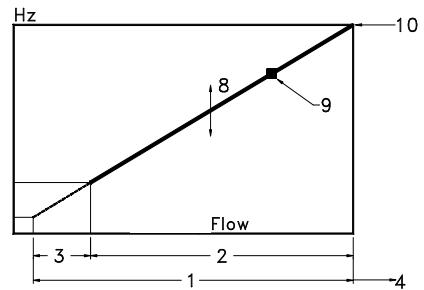
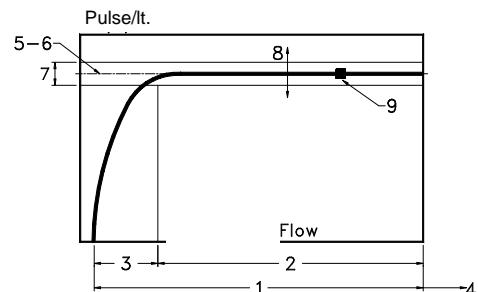
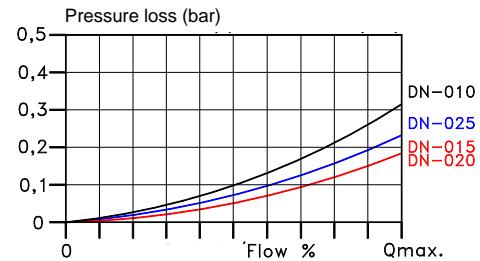
Ø (*)	DN	PN bar	T max °C	Q max l/min (4)	Measuring range l/min			Pulses liter (6)	Hz (10)	Weight Kg		Code Measuring range
					(1)	(2)	(3)			TCV	TCO	
3/8"	010	10	100	20	1,2 - 20	3 - 20	1,2 - 3	136	45	0,23	0,23	1,2 - 20 020
1/2"	015	10	100	40	1,2 - 40	3 - 40	1,2 - 3	128	86	0,23	0,23	1,2 - 40 040
3/4"	020	10	100	60	2,1 - 60	5 - 60	2,1 - 5	30	30	0,75	0,75	2,1 - 60 060
1"	025	10	100	80	2,1 - 80	5 - 80	2,1 - 5	35	48	0,65	0,65	2,1 - 80 080

(*) Thread UNI 228/1 – Female

1	Total measuring range
2	Linear measuring range
3	Non linear measuring range
4	Flow in excess of the value of F.S.
5	Pulses / liter
6	Pulses / liter mean value
7	Accuracy $\pm 3\%$
8	Pulses / liter variation $\pm 10\%$
9	Repeatability $\pm 3\%$
10	Max. frequency Value at F.S.

See measuring range table

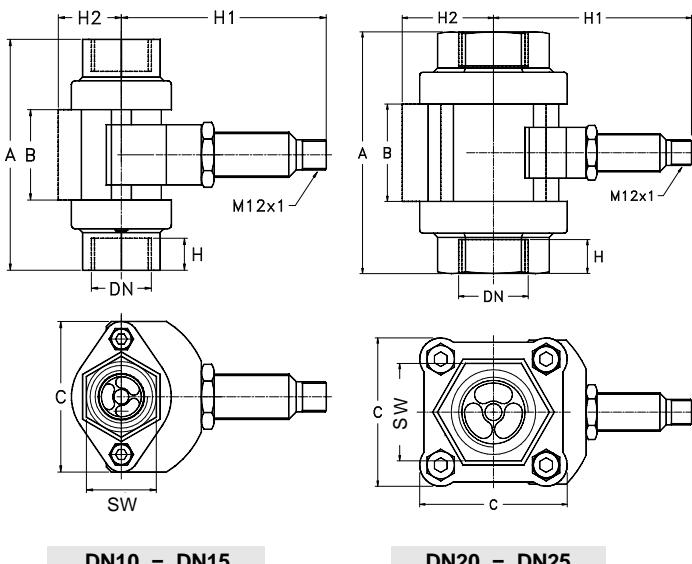
increased usury	$\Delta p > 0,5$ bar
Measurements with H ₂ O a 20°C	
Detected with different sensors	
Ref. to pulses / liter of measured value	
Ref. to the value at point 5	
Ref. to F.S. frequency	
Value at F.S.	



MATERIALS

Tab.2

		Code	
		PSO	PSK
Body		Latene	Latene
Process connections		Brass	S.S. AISI-316
Viewer pipe	TCV	Tempered glass	Tempered glass
Blind pipe	TCO	PA66 + GF	PA66 + GF
Rotor		Red PP	Red PP
Rotor inserts		N.2 stainless steel	N.2 stainless steel
Gaskets		NBR	Viton



DN10 – DN15

DN20 – DN25

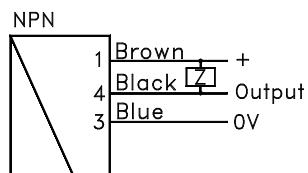
DIMENSIONS

DN	A	B	C	SW	H	H1
010	3/8"	92	36	60	28	15
015	1/2"	92	36	60	28	15
020	3/4"	114	46	70	46	20
025	1"	114	46	70	46	20
						94

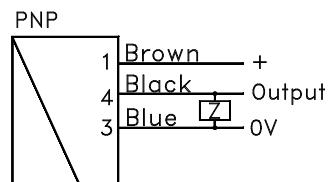
Dimensions in mm.

WIRING

Tab.3



NPN = N



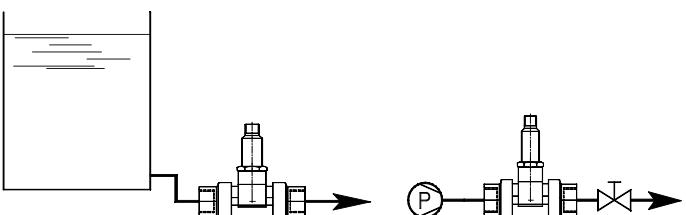
PNP = P

INSTALLATION

Before installing the transmitter the hydraulic circuit must be purged to avoid that contaminants can interfere with the proper functioning of the rotor. It is important that the rotor always work in conditions of clean fluid.

Attention: the presence of air bubbles in the fluid can be a source of error in the measurement. Valves and / or other auxiliary components of the circuit must be installed downstream of the transmitter.

Electronic interface units are available to display the flow rate and the alarm signaling.



Always in contact with the flow.

Upstream of valves / accessories

NOMENCLATURE

TCV	025	PSO	080	P	S3
•					
	•				
		•			
			•		
				•	
					•

Tab.1-2 Name - Type

Tab.1 Process connections - DN

Tab.2 Body and process connections material

Tab.1 Measuring range

Tab.1-3 Output signal and wiring

Tab.1 Electrical connection

K PU 02 S G Connection cable 2m length with M12x1 plug

Accessory on request