

GENERAL CHARACTERISTICS

The primary sensor is constituted by a rotor with paddles which enters in rotation at the passage of fluid. The speed of rotation is proportional to the flow. The measurement is detected by means of different sensors depending on the type of mechanical construction and materials of the body of the transmitter.

- Flow meter for pipes from DN32 to DN100.
- Hermetic separation between flow chamber and sensor.
- Design in plastic and metal.
- IP67 protection.

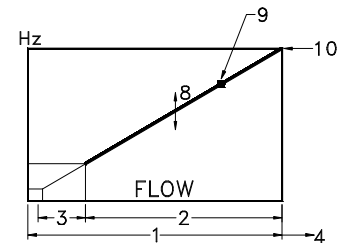
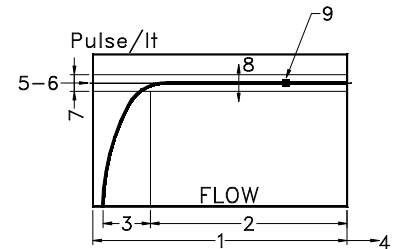


TECHNICAL DATA Tab.1

DN Pipe	Q max l/min	Measure range l/min			Pulses / liter (6)	Hz (10)
		(1)	(2)	(3)		
32	220	15 - 200	30 - 200	15 - 30	90	300
40	360	15 - 300	60 - 300	15 - 60	48	240
50	480	25 - 400	80 - 400	25 - 80	34	227
65	600	40 - 500	100 - 500	40 - 100	24	200
80	840	50 - 700	100 - 700	50 - 100	17,5	204
100	1200	85 - 1000	100 - 1000	85 - 100	10,5	175

Swivel connection	1.1/4" UNI 228/1 - Female	RM	Mounting fittings as per Tab.3
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1	Total measuring range	
2	Linear measuring range	See measuring range table
3	Non linear measuring range	
4	Flow in excess of the value of F.S.	increased usury $\Delta p > 0,5$ bar
5	Pulses / liter	Measurements with H ₂ O a 20°C
6	Pulses / liter mean value	
7	Accuracy	$\pm 3\%$ Ref. to pulses / liter of measured value
8	Pulses / liter variation	$\pm 10\%$ Ref. to the value at point 5
9	Repeatability	$\pm 1\%$ Ref. to F.S. frequency
10	Max. frequency	Value at F.S. Value at F.S.



	RRI - 032		RRH - 032	
	Inductive		HALL	
Detection sensor				
Power supply	5 - 30 Vdc	PNP	5 - 30 Vdc	PNP
Current		NPN		NPN
	5 - 30 Vdc	Namur	5 - 30 Vdc	Namur
Max. load	10 mA		30 mA	
Short circuit protection	200 mA		100 mA	
Reverse polarity protection	No		Yes	
Detection sensor	No		Yes	
Output	P	PNP	PNP	
	N	NPN	NPN	
	A	Namur	-----	
Connection	S	M12x1 4 poles	M12x1	4 poles
Max. pressure	10 Bar		100 Bar	
Medium temperature	-20 / +60 °C		-20 / +100 °C	
Ambient temperature	-20 / +60 °C		-20 / +60 °C	
Degree of protection	IP67		IP67	

MATERIALS Tab.2

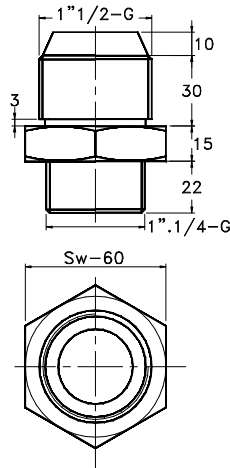
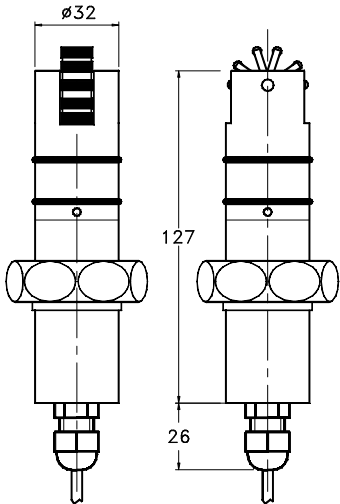
	RRI - 032		RRH - 032	
Body	PVC	H	S.S. 1.4305	K
Rotor	PVDF	-	PVDF	-
Rotor inserts	N.10 S.S.	10K	N.5 magnets	05M
Supports - axes	Iglidur - Ceramic	-	Iglidur - Ceramic	-
Gaskets	Viton	V	Viton	V

INSTALLATION FITTING Tab.3

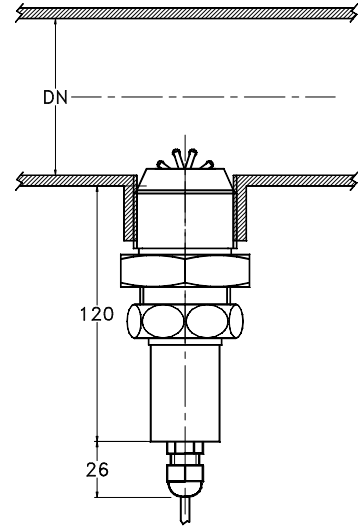
	RR 32	
Process side connection	1.1/2"	40
Material	PVC	P
	Stainless steel 1.4571	K
Thread	UNI 228/1 - Male	V
Accessory on request		

DIMENSIONS

Measures in mm.



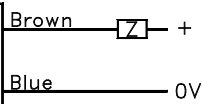
RR32 nut on request



WIRING

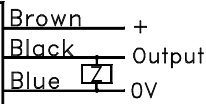
Tab.4

NAMUR



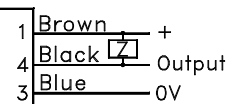
NAMUR = A

PNP



PNP = P

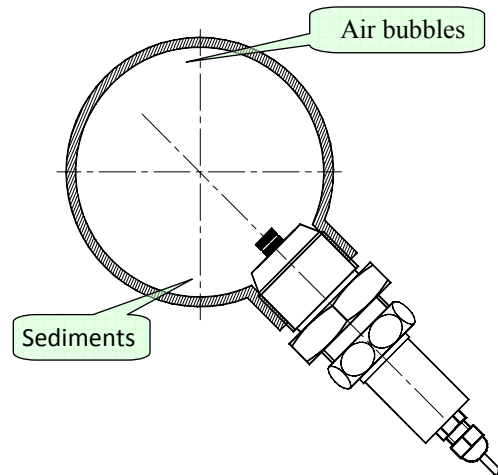
NPN



NPN = N

INSTALLATION

The flow transmitters RR32 are easily mounted in line by means of the swivel connection and relative mounting nut. 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. 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 taking into account, in this case, of a start-up time of about 0,5 sec and a response delay of approximately 3 sec. Electronic interface units are available to display the flow rate and the alarm signaling.



NOMENCLATURE

RR	032	RM	H	000	V	10K	P	S
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-	Name – Type of sensor
Tab.1	Suitable for pipes from DN32 a DN100
Tab.1	Swivel connection 1.1/4"
Tab.2	Body material
Tab.1	Measuring range in function of DN pipe
Tab.2	Gasket material
Tab.2	N. and type of the rotor inserts (if present)
Tab.1-4	Output signal type and wiring
Tab.1	Electrical connection

RR	32	40	P	V	Mounting nut 1.1/2"	PVC	Accessory on request	Tab.3
RR	32	40	K	V	Mounting nut 1.1/2"	S.S. 1.14571	Accessory on request	
K	PU	02	S	G	Connection cable 2m length with M12x1 plug		Accessory on request	