GENERAL CHARACTERISTICS

This transmitter is designed for use with viscous fluids and in any case with lubricant power.
The mechanism is constituted by a rotor gear, set in rotation by the passage of the fluid. The measurement is detected by a Hall sensor outside the flow chamber. The output signal (frequency), obtained by counting the number of teeth of the rotor, is directly proportional to the flow rate. The measure has high precision in a wide range of viscosities. There are versions with integrated electronics for display, alarm and signal repetition.

- Hermetic separation between flow chamber and sensor.
- Measurement independent of fluid viscosity.
- Bidirectional operation.
- Compact design.
- Degree of protection IP65

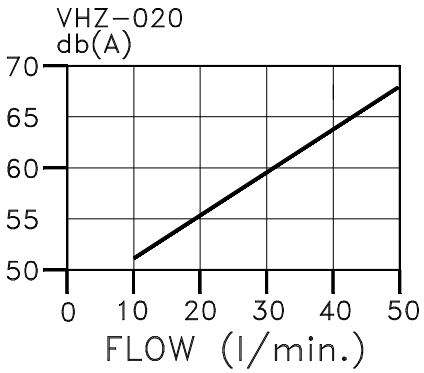
TECHNICAL DATA Tab.1

DN Ø	DN Code	Measuring range l/min	Frequency L/min	Frequency Hz	P max bar	Weight Kg	Measuring range code
1/4"	**008**	0,02 - 2	2	833	160	0,5	**002**
3/8"	**010**	0,1 - 6	6	500	200	0,5	**006**
3/4"	**020**	0,5 - 50	50	417	200	1,6	**050**
1"	**025**	3 - 150	150	479	100	6,3	**150**

Process connections	UNI 228/1 - Female	**G**
Accuracy	± 3% of measured value	
Repeatability	± 0,3%	

		DN 008		DN 010 ÷ 025	
Power supply		24 Vdc ±10%	NPN	10 – 30 VDC	NPN
			PNP		PNP
		4,5 – 24 VDC	2 wires	12 VDC	2 wires
Output	**N**	NPN		NPN	
	P	PNP		PNP	
	Z	2 wires	On request	2 wires	On request
Connection		DIN 43650-A		DIN 43650-A	
Medium Temp.	°C	-25 / +80		-25 / +80	
Ambient Temp.	°C	-25 / +60		-25 / +60	

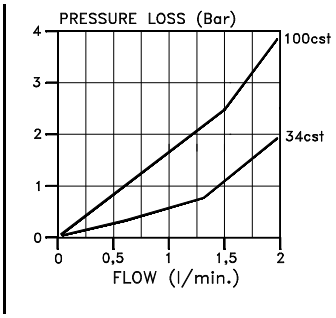
Noise level		
DN	**l/min**	**db**
008	2	50
010	6	50
020	50	60
025	150	70



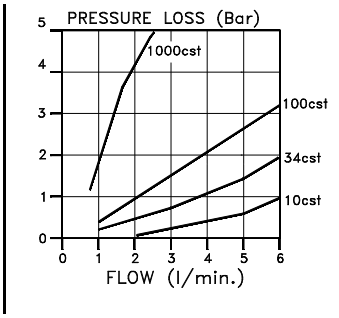
MATERIALS Tab.2

		Code
Body	Anodized aluminium	**A**
	Stainless steel – 1.4404	**K**
Gear rotor	Stainless steel - 1.44621	**-**
Axes	Stainless steel - 1.44621	**-**
Supports	Iglidur	**-**
Gaskets	Viton	**-**

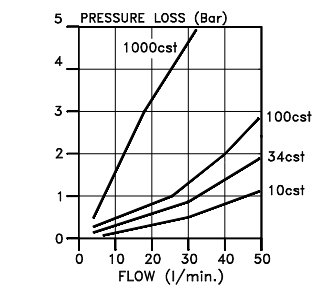
PRESSURE LOSSES



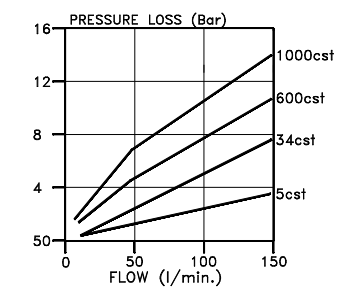
DN 008



DN 010



DN 020

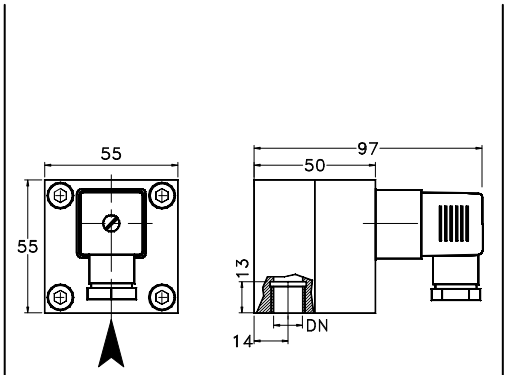


DN 025

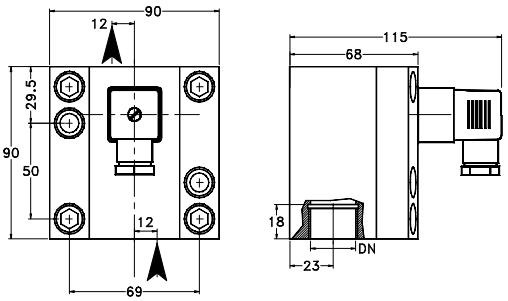
We reserve the right to change the data without notice

BE#120/1-06/2011

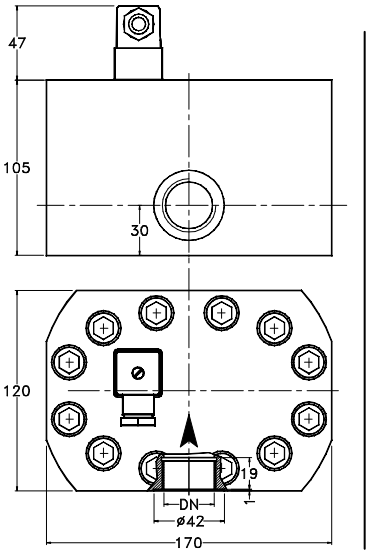
DIMENSIONS



DN 008 - 010



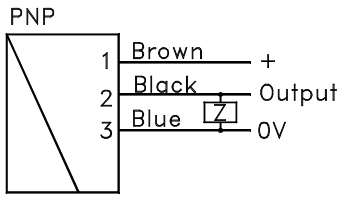
DN 020



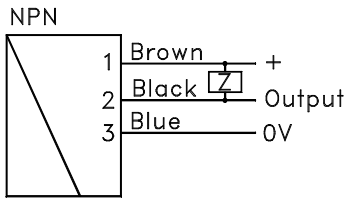
DN 025

Dimensions in mm.

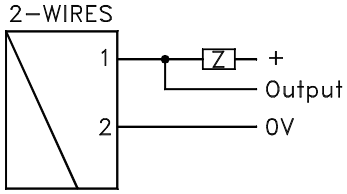
WIRING



PNP = P



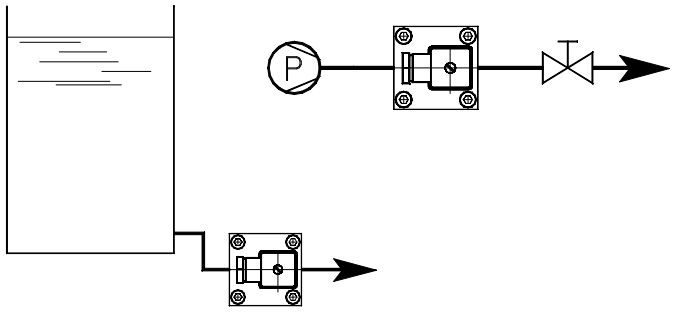
NPN = N



TWO-WIRE = Z

INSTALLATION

The flow transmitters VHZ can be installed in any position. Their operation is independent of the direction of flow.
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 works in conditions of clean fluid, if necessary provide to protect the instrument with a 30µ filter.
Valves and / or other auxiliary components of the circuit should be preferably installed downstream of the transmitter.



NOMENCLATURE

VHZ	020	G	A	050	P		
•						-	Name - Type
	•					Tab.1	Process connections - DN
		•				Tab.1	Connections thread
			•			Tab.2	Body material
				•		Tab.1	Measuring range
					•	Tab.1	Output signal

VHZO	Option with sight glass built into the body	-	Name - Type

We reserve the right to change the data without notice