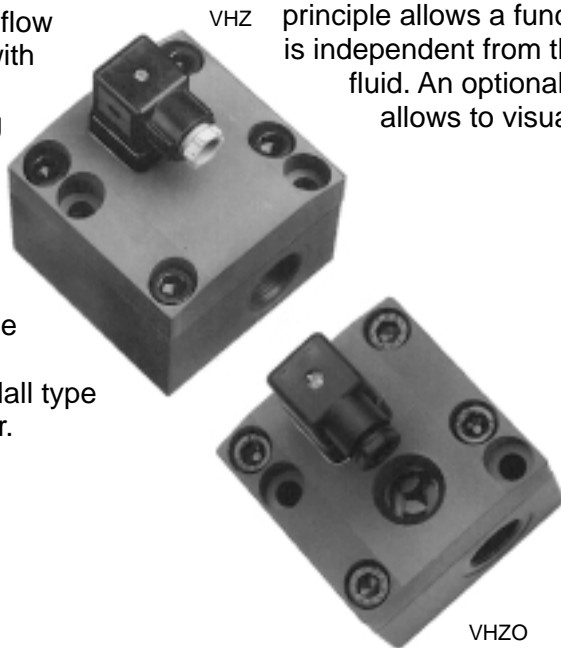


VHZ flow rate transmitters

are designed for flow measurements with viscous liquids. The fluid passing through a calibrated orifice moves a gear couple. Its rotation is proportional to the delivery and is registered by a Hall type preloaded sensor.



The volumetric functioning principle allows a functionality that is independent from the examined fluid. An optional observatory allows to visualise the fluid passage.

Use / Characteristics

- ◆ Assembling in any position.
- ◆ Independence from viscosity because of a volumetric functioning principle.
- ◆ Measurement range 1:100 starting from 0,1 l/min.
- ◆ Good precision $\pm 3\%$.
- ◆ No magnetic parts in the measurement chamber.

These instruments are mainly used in the field of oil-hydraulics and lubrication to control circuits with oil flow, i.e. oildynamic control units of the hydraulic pistons, mechanical transmissions, typographic machines, etc. Transmitters are fit to operate on fluids with lubricating properties.

G "	Type	H mm	B mm	B ₁ mm	L mm	Kg
$\frac{3}{8}$	VZH 10 Al	55	50	106	55	0,3
$\frac{3}{4}$	VHZ 20 Al	90	65	115	90	0,6
$\frac{3}{4}$	VHZO 20 Al	90	65	115	90	0,6

Materials	VHZ..Al	VHZO..Al
Body	Anodized alum.	Anodized alum.
Cover	Anodized alum.	Anodized alum.
Axle	Rectified steel	Rectified steel
Gears	Steel	Steel
Bearing	Iglidur	Iglidur
Seals	Viton	Viton
Inspection glass	-----	Glass

Electrical characteristics	
Power supply:	10 - 30V cc. $\pm 10\%$
Max. outlet current:	100 mA
Outlet frequency:	4 - 400 Hz onda quadra.
Outlet circuit:	PNP
Protection:	IP 65
Electrical connection	Connector
Guard against	Countercircuits and polarity inversion

Electrical diagram	

Connections: female screwed

G "	Type	Max. P. bar	Max. t. °C	Measur. range l/min	% Precision on the measured value	Viscosity range cst	Order n.
$\frac{3}{8}$	VZH 10 Al	200	90	0,1 - 6	± 3		931800
$\frac{3}{4}$	VHZ 20 Al	200	90	0,5 - 50	± 3	1÷20.000	931801
$\frac{3}{4}$	VHZO 20 Al con specula	100	90	0,5 - 50	± 3	non impiegabile con acqua e solventi	931802

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Assembling: the assembling must be carried out on already bled installations, avoiding couplings with pipes that are not in axle between them. Do not use with fluids containing abrasive substances and/or impurities with size bigger than 100 micron.