




HySense QT 218

Turbine volume flow sensor with increased IP protection

High-precision turbine volume flow sensor with inside thread connector in accordance to DIN ISO 228 and increased IP protection for use with water and watery media, preferably.

The turbines are equipped with flow bearings and factory calibrated for water at 1 cSt. Other calibration viscosities are available on request.

Qualities	
Measuring principle	volume flow
Viscosity range	1 ... 10 mm ² /s (cSt)
Medium temperature	max. +120 °C
Environmental temperature	-20 ... +85 °C
Storage temperature	-20 ... +85 °C
Output signal	4 ... 20 mA
Supply voltage Ub	12 ... 24 VDC
Electrical measuring connector	device connector AMP 3 pole, acc. to DIN 72585
Protection type (EN 60529 / IEC 529)	IP 69
Tightening torque	10 Nm (± 2 Nm)
Calibration viscosity	1 mm ² /s (cSt)
Material turbine casing	high-grade steel, passivated X12CrNiS18 8
Material turbine wheel	1.4122 (for measuring range 1.0 ... 10 l/min) 1.0718 (for all other measuring ranges)
Material sealings	FKM
Material sensor casing	1.4571
Suitable measuring cable	customer-specific

Pin assignment	4 ... 20 mA
	Pin 1 = signal +
	Pin 2 = signal - / GND
	Pin 3 = + Ub

Measuring range	Max. working pressure		Error limit	Weight	Order number
	l/min	bar			
1.0 ... 10.0	420	42	± 2.5 % of current value	736	33N7-01-35.001
2.0 ... 75.0	420	42	± 2.5 %	1,980	33N7-70-35.001G
15 ... 300	420	42	± 2.5 %	3,574	33N7-71-35.001G
25 ... 600	350	35	± 2.0 %	4,033	33N7-72-35.001G

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Range	L	SW	G
l/min	mm		
1.0 ... 10,0	120	41	ISO 228-G $\frac{1}{4}$
7.5 ... 75,0	130	46	ISO 228-G $\frac{3}{4}$
15 ... 300	150	55	ISO 228-G1
25 ... 600	174	60	ISO 228-G1 $\frac{1}{4}$

- A MINIMESS® p/T test point for pressure and temperature, series 1620
- B max. tightening torque $M = 10 \pm 2$ Nm
- C inductive sensor, amplifier
- D MINIMESS® test point, series 1620
- * depth of spot face

