

HySense QL 100 / QL 110

Turbine volume flow sensor with load valve

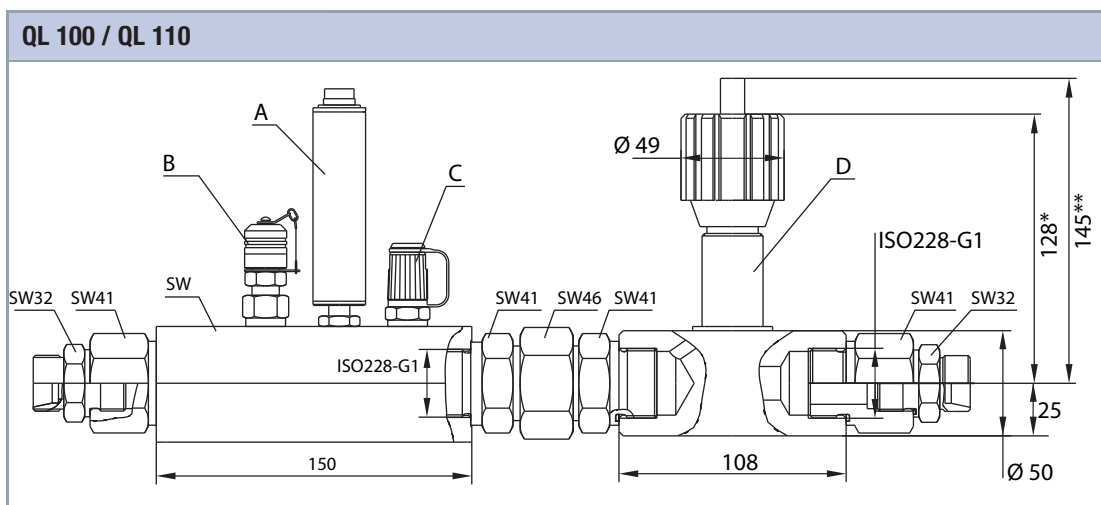


Qualities	
Measuring principle	volume flow
Viscosity range	1 ... 100 mm ² /s (cSt)
Medium temperature	max. +120 °C
Environmental temperature	-20 ... +85 °C (short-term up to +100 °C)
Storage temperature	-20 ... +85 °C
Output signal	frequency (rectangular signal) / 4 ... 20 mA
Supply voltage U _b	12 ... 24 VDC
Error limit	± 2.5 % of current value
Electrical measuring connector	5 pole device connector, M16 x 0.75
Protection type (EN 60529 / IEC 529)	IP 40
Tightening torque (sensor)	10 Nm (± 2 Nm)
Calibration viscosity	30 mm ² /s (cSt)
Material turbine casing	Aluminium (AlZnMgCu 1,5)
Material turbine wheel	1.0718
Material sealings	FKM
Material sensor casing	3.1645 (QL 100) / 1.4301 (QL 110)
Suitable measuring cable	MK 01

Pin assignment	QL 100 (frequency)	QL 110 (4 ... 20 mA)
	Pin 1 = signal +	Pin 1 = signal +
	Pin 2 = - U _b / signal - / GND	Pin 2 = signal - / GND
	Pin 3 = + U _b	Pin 3 = + U _b
	Pin 4 = free	Pin 4 = free
	Pin 5 = free	Pin 5 = free

Version	Measuring range	Max. working pressure		Weight	Order number
		bar	MPa		
QL 100	15 ... 300 l/min	350	35	4,324 g	31VB-71-35.030
QL 110	15 ... 300 l/min	350	35	4,461 g	31GB-71-35.030

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Decoding „L“ and „G“ see order data

- A f/l-converter 4 ... 20 mA
- B MINIMESS® p/T-test point for pressure and temperature, series 1620
- C MINIMESS® test point, series 1215
- D throttle valve NG 20
- * closed
- ** opened

Q = 15 ... 300 l/min

