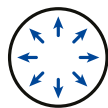


High Precision Flow Turbine Meter

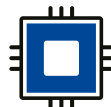
FLT series



Calibrated frequency output (TTL)



Operating pressure up to 500 bar



Identification memory

Functional description

The VCT rotor geometry is further optimized and supported by a high-performance hybrid ball bearing. Those improvements resulting in a wide turndown and excellent repeatability. The turbine speed is detected with no drag to the rotor and converted into a common TTL frequency output. A dynamically integrated temperature sensor in the pickoff measures the media temperature. Turbine parameters and calibration data are stored in an integrated memory.

The FLT series is designed for operating pressures of up to 500 bar. In combination with the intelligent flow computers of the VCA and VCA-T series, self-parametrizing flow measurement systems are created, operating with linearity correction and viscosity independence.

Flow ranges and process connections

see table

Output signal flow

Frequency 2 kHz (TTL) max

Metrological properties Flow

(at viscosity 1 mm²/s, app.)

Repeatability ± 0,025 % of reading

Response time 2 ms app.

Metrological properties Temperature

Isolated thermocouple T-type (DIN EN 60584 class 2)

Supply voltage

9 to 32 V DC reverse polarity protected

Power consumption

≤ 8 mA

Material wetted parts

stainless steel and ceramic

Operating temperature range

Process media -40 °C to +150 °C

Ambient -40 °C to +125 °C

Process pressure at +20 °C

500 bar max.

Electrical connection

high temperature shielded cable, length 50 cm
with push-pull connector size 0

Degree of protection

IP67

EMV

EN 55011

EN 61000-4-2 to EN 61000-4-6

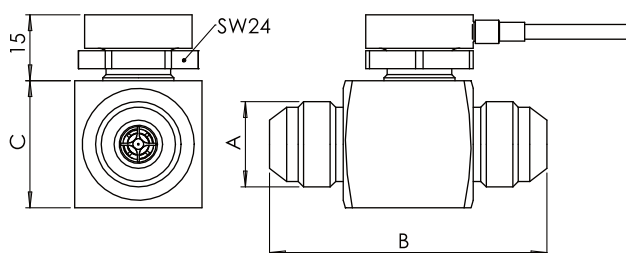
Calibration certificate

included

Accessories

high temperature shielded cable, length 5 m to connect
VCT turbine meter with VCA or VCA-T flow computer,
other accessories see separate data sheet

Dimensions (mm)



Type	Measuring range (liters/minute)		Nominal	Ermeto (EO) cutting ring DIN 3861				AN-thread - 37° Flared ISO 8434-2		
	min.	max.		A	B	C	EO	A	B	C
FLT2-8	0,06	5	3/8"	M18×1,5	55	28,4	10-S	AN8 / 3/4" -16UNJF	62	28,4
FLT4-8	0,1	10	1/2"	M18×1,5	55	28,4	10-S	AN8 / 3/4" -16UNJF	62	28,4
FLT6-8	0,2	20	1/2"	M20×1,5	55	28,4	12-S	AN8 / 3/4" -16UNJF	62	28,4
FLT8-8	0,3	30	1/2"	M22×1,5	55	28,4	14-S	AN8 / 3/4" -16UNJF	62	28,4
FLT10	0,6	60	5/8"	M24×1,5	62	32	20-S	AN10 / 7/8" -14UNJF	69	32
FLT12	1	100	3/4"	M30×2,0	75	37	20-S	AN12 / 1-1/16" -12UNJ	83	37
FLT16	2	250	1"	M36×2,0	85	41	28-L	AN16 / 1-5/16" -12UNJ	91	41
FLT20	3	350	1 1/4"	M52×2,0	100	48	38-S	AN20 / 1-5/8" -12UNJ	103	48
FLT24	5	550	1 1/2"	-	-	-	-	AN24 / 1-7/8" -12UNJ	117	57
FLT32	9	1.200	2"	-	-	-	-	AN32 / 2-1/2" -12UNJ	154	70