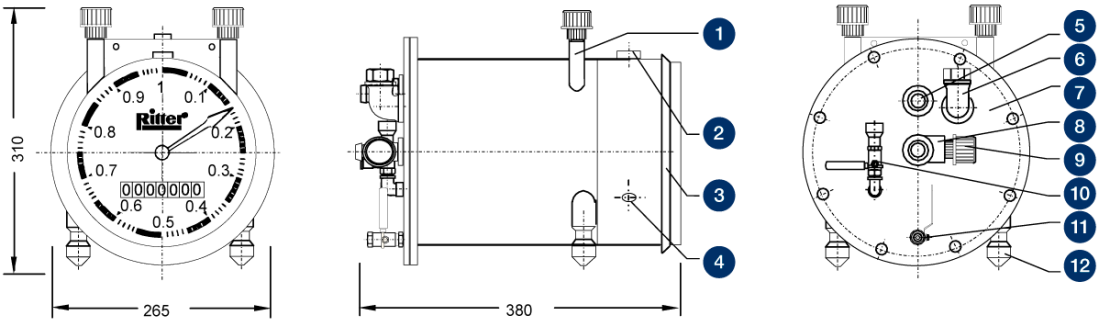
DRUM-TYPE GAS METERS
TG 1 STAINLESS STEEL 1 BAR • DATA-SHEET



Legend

1. Support unit for:
   thermometer
   (gas)
   thermometer
   (packing fl.)
   manometer
2. Level
4. Puls generator port (option)
6. Filling nozzle
8. Gas inlet
10. Filling level indicator
12. Levelling foot
3. Removable cover
5. Gas outlet
7. Removable rear plate
9. Manometer connection
11. Drainage faucet

Performance Data

Minimum flow Q_{min}	2	ltr/h
Standard flow $Q_{standard}$	100	ltr/h
Maximum flow Q_{max}	120	ltr/h
Measurement accuracy at standard flow	0.2	%
Measurement accuracy across measuring range	0.5	%
Measuring drum volume	1	ltr/U
Packing liquid quantity, approx	3	ltr

Maximum gas inlet pressure	**1**	**bar**
Minimum differential pressure (1)	0.2	mbar
Minimum dial division	0.01	ltr
Maximum indication value (2)	99,999,999	ltr
Connection gas in/outlet	hose barb	
Inside-Ø hose barb		
Outside-Ø hose barb	12	mm

(1) Differential pressure (= pressure loss) gas inlet gas outlet
(2) Standard Totalizing Roller Counter

Models (materials)

Model	Casing	Measuring drum	Width	Height	Depth	Weight (without packing liquid)	Max. constant use temperature
1	Stainless Steel	PVC-grey	265 mm	310 mm	380 mm	8.5 kg	40 °C
2	Stainless Steel	PE-el	265 mm	310 mm	380 mm	8.3 kg	60 °C
3	Stainless Steel	PP-grey	265 mm	310 mm	380 mm	8.3 kg	80 °C

Model	Casing	Measuring drum	Width	Height	Depth	Weight (without packing liquid)	Max. constant use temperature
4	Stainless Steel	PVDF	265 mm	310 mm	380 mm	8.9 kg	80 °C

Caution

Before and after measurements with **oxygen** purge the meter with an inert gas to avoid the danger of **explosion**!

For chemical resistance properties please contact your RITTER distribution partner!

Standard Equipment

- 8-digit Totalizing Roller Counter
- Bubble level for levelling
- Level and Levelling Feet
- Magnetic Coupling (between the measuring drum and counting mechanism) , for an absolutely liquid-tight casing
- Multi-Chamber Measuring Drum
- Supports for Thermometer and Manometer
- Viton sealing

Built-in Options

- Pulse Generator , standard or Ex-proof version (for connecting Electronic Display Unit/Computer
- LCD Display , resettable, 8-digit (replaces Totalizing Roller Counter)
- High Precision Packing Liquid Level Indicator »HPLI« , for packing liquid level

Accessories

- Data Acquisition Software »RIGAMO« , (for Windows)
- Thermometer Gas (TG) , measuring range 0 °C to +60 °C
- Thermometer Packing Liquid (TG) , measuring range 0 °C to +60 °C
- Manometer for pressure pmax ≤ 1 bar , measuring range 0-600 mbar / 0-1 bar
- Electronic Display Unit »EDU 32 FP« , displays volume and calculates flow rate via RS232 and analog-output in realtime (pulse generator required)

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The most recent version of this data-sheet can be found at https://www.ritter.de/en/data-sheets/tg-1-stainless-steel/

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