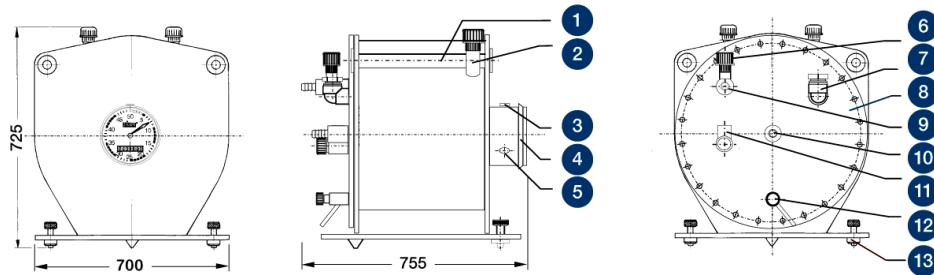


RITTER Data sheet TG 50 Plastic

Technical Drawing



Legend

1. Handle
2. Support unit for:
 - Thermometer (gas)
 - Thermometer (packing liquid)
 - Manometer
3. Level
4. Removable cover
5. Pulse generator port (option)
6. Manometer connection
7. Filling nozzle
8. Rear plate, detachable
9. Gas inlet
10. Gas outlet
11. Liquid level indicator
12. Drainage faucet
13. Levelling foot

Performance Data

Minimum flow Q_{\min}	100	ltr/h
Standard flow Q_{standard}	10,000	ltr/h
Maximum flow Q_{\max}	18,000	ltr/h
Measurement accuracy at standard flow	± 0.2	%
Measurement accuracy across measuring range	± 0.5	%
Measuring drum volume	50	ltr/U
Packing liquid quantity, approx	91	ltr

Maximum gas inlet pressure	50	mbar
Minimum differential pressure ⁽¹⁾	0.1	mbar
Minimum dial division	0.5	ltr
Maximum indication value ⁽²⁾	999,999,990	ltr
Connection gas in/outlet	hose barb	
Inside-Ø hose barb	31.8	mm
Outside-Ø hose barb	40	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
5	PVC-transparent	PVC-grey	700 mm	725 mm	755 mm	57.0 kg	40 °C
6	PP-grey	PP-grey	700 mm	725 mm	755 mm	32.0 kg	80 °C
7	PVDF	PVDF	700 mm	725 mm	755 mm	73.3 kg	80 °C
8	PE-el	PE-el	700 mm	725 mm	755 mm	40.7 kg	60 °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 measuring drum and counter: Casing absolutely liquid-tight, for an absolutely liquid-tight casing
- › Multi-Chamber Measuring Drum
- › Supports for Thermometer and Manometer
- › Viton sealing

Built-in Options

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

Accessories

- › **Thermometer Gas (TG)**, measuring range 0 °C to +60 °C
- › **Thermometer Packing Liquid (TG)**, measuring range 0 °C to +60 °C
- › **Manometer for pressure p_{max} ≤ 50 mbar**, measuring range 0-10 / 0-20 / 0-50 mbar
- › **Electronic Display Unit »EDU 32 FP«**, displays volume and calculates flow rate via RS232 and analog-output in realtime (pulse generator required)

V 2.1 / Rev. 2023-04-26 / Subject to alterations.

The most recent version of this data-sheet can be found at ...

<https://www.ritter.de/en/tg-50-plastic/>

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For questions please contact mailbox@ritter.de or your local distribution partner ([on our overview page](#))