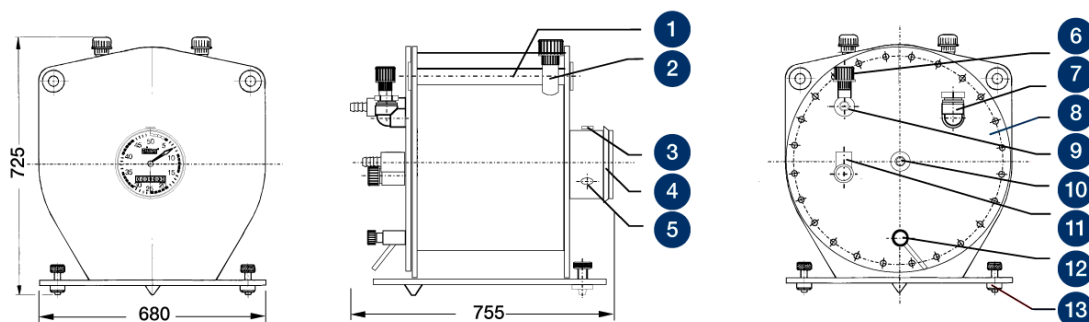


# DRUM-TYPE GAS METERS TG 50 PLASTIC • DATA-SHEET



Legend +

- |  |  |   |
|--|--|---|
| <p>1. Handle</p> <p>10. Gas outlet</p> <p>13. Levelling foot</p> | <p>2. Support unit for:</p> <p style="padding-left: 20px;">Thermometer<br/>gas</p> <p style="padding-left: 20px;">Thermometer<br/>packing<br/>liquid</p> <p style="padding-left: 20px;">Manometer</p> <p>11. Filling level indicator</p> | <p>3. Level</p> <p>4. Removable cover</p> <p>5. Pulse generator port (option)</p> <p>6. Manometer connection</p> <p>7. Filling nozzle</p> <p>8. Removable rear plate</p> <p>9. Gas inlet</p> <p>12. Drainage faucet</p> |
|--|--|---|

## Performance Data

Minimum flow $Q_{\min}$	100 ltr/h	<b>Maximum gas inlet pressure <sup>(1)</sup></b>	<b>50 mbar</b>
Standard flow $Q_{\text{standard}}$	10,000 ltr/h	Minimum differential pressure <sup>(2)</sup>	0.1 mbar
Maximum flow $Q_{\max}$	18,000 ltr/h	Minimum dial division	0.5 ltr
Measurement accuracy at standard flow	± 0.2 %	Maximum indication value <sup>(3)</sup>	999,999,990 ltr
Measurement accuracy across measuring range	± 0.5 %	Connection gas in/outlet	hose barb
Measuring drum volume	50 ltr/U	Inside-Ø hose barb	
Packing liquid quantity, approx	91 ltr	Outside-Ø hose barb	40 mm

<sup>(1)</sup> Standard version: 50 mbar – special versions up to 500 mbar available

<sup>(2)</sup> Differential pressure (= pressure loss) gas inlet gas outlet

<sup>(3)</sup> 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	680 mm	725 mm	755 mm	57.0 kg	40 °C
6	PP-grey	PP-grey	680 mm	725 mm	755 mm	32.0 kg	80 °C
7	PVDF	PVDF	680 mm	725 mm	755 mm	73.3 kg	80 °C
8	PE-el	PE-el	680 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 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  $p_{max} \leq 50$  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)

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The most recent version of this data-sheet can be found at <https://www.ritter.de/en/data-sheets/tg-50-plastic/>

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