DRUM-TYPE GAS METERS
TG 1 STAINLESS STEEL 35 BAR • DATA-SHEET

Legend
1. Filling level indicator
2. Handle
3. Support for gas & packing fluid thermometer
4. Filling nozzle
5. Level
6. Removable cover
7. Pulse generator port (option)
8. Manometer connection
9. Gas inlet
10. Gas outlet
11. Drainage faucet
12. Levelling foot

Performance Data

<table>
<thead>
<tr>
<th></th>
<th>Minimum flow $Q_{min}$</th>
<th>Standard flow $Q_{standard}$</th>
<th>Maximum flow $Q_{max}$</th>
<th>Measurement accuracy at standard flow</th>
<th>Measurement accuracy across measuring range</th>
<th>Measuring drum volume</th>
<th>Packing liquid quantity, approx</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2  ltr/h</td>
<td>100 ltr/h</td>
<td>120 ltr/h</td>
<td>0.2 %</td>
<td>0.5 %</td>
<td>1 ltr/U</td>
<td>4 ltr</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Maximum gas inlet pressure</th>
<th>35  bar</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum differential pressure</td>
<td>0.2  mbar</td>
</tr>
<tr>
<td>Minimum dial division</td>
<td>0.01  ltr</td>
</tr>
<tr>
<td>Maximum indication value</td>
<td>99,999,999  ltr</td>
</tr>
<tr>
<td>Connection gas in/outlet</td>
<td>hose barb</td>
</tr>
<tr>
<td>Inside-Ø hose barb</td>
<td></td>
</tr>
<tr>
<td>Outside-Ø</td>
<td>12  mm</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Model</th>
<th>Casing</th>
<th>Measuring drum</th>
<th>Width</th>
<th>Height</th>
<th>Depth</th>
<th>Weight (without packing liquid)</th>
<th>Max. constant use temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Stainless Steel</td>
<td>PVC-grey</td>
<td>270 mm</td>
<td>320 mm</td>
<td>400 mm</td>
<td>18.3 kg</td>
<td>40 °C</td>
</tr>
<tr>
<td>2</td>
<td>Stainless Steel</td>
<td>PE-el</td>
<td>270 mm</td>
<td>320 mm</td>
<td>400 mm</td>
<td>18.1 kg</td>
<td>60 °C</td>
</tr>
<tr>
<td>3</td>
<td>Stainless Steel</td>
<td>PP-grey</td>
<td>270 mm</td>
<td>320 mm</td>
<td>400 mm</td>
<td>18.1 kg</td>
<td>60 °C</td>
</tr>
<tr>
<td>4</td>
<td>Stainless Steel</td>
<td>PVDF</td>
<td>270 mm</td>
<td>320 mm</td>
<td>400 mm</td>
<td>18.7 kg</td>
<td>60 °C</td>
</tr>
</tbody>
</table>

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 ≤ 10 bar, measuring range 0-6 / 0-10 bar; available for higher pressure ranges
- Electronic Display Unit «EDU 32 FP», displays volume and calculates flow rate via RS232 and analog-output in realtime (pulse generator required)

The most recent version of this data-sheet can be found at https://www.ritter.de/en/data-sheets/tg-1-stainless-steel-35-bar/

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For questions please contact mailbox@ritter.de or your any local distributor at https://www.ritter.de/en/worldwide/