Расходомеры газотурбинные ZTM

Технические характеристики

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ZENNER ZTM GAS TURBINE FLOWMETER

Product Overview:

ZTM series gas turbine flow meter is equipped with mechanical counter it's a kind of meter don't run slowly with high flow measurement accuracystrong anti-magnetic attack capability strong reliability. With unique lubrication system structure installation is not affected by pipeline stress. With structure modular design easy for maintenance and installation.
This series of products can directly measure the total volume of gas in working condition. When equipped with EVC volume corrector it can directly measure the pressure and temperature of gas and can display the volume flow and total amount of gas under standard condition. If the pipeline is equipped with a calorific value meter it can also convert the calorific value into calories. Its excellent low-pressure and high-pressure metering performance multiple signal output methods and low sensitivity to fluid disturbances make the ZTM series flow meters a particularly excellent commercial trade metering instrument.
It is widely used in city pipeline (network) gas measurement industrial gas measurement gas pressure regulating station measurement energy management and other non-corrosive gas measurement or flow control occasions.

Products Performace:

- Technical requirements meet ISO9951 standard

The length of the meter body is mainly 3DN (DN is the flow meter caliber DN250 and D300 caliber 1.5DN) and pass high and low level disturbance test.

- Wide flow range:

Flow range (Qmax / Qmin = 20: 1) good repeatability high accuracy(up to 1.0 level) low pressure loss low start flow.

- Integrated design

Adopt integrated pilot fluid: it can eliminate fluid disturbance and the rectification effect is obvious. The pressure loss is extremely small with low installation requirements for the front and back straight pipe sections (front straight pipe section is ≥2DN rearstraight pipe section is ≥1DN)

- Modular design

Adopting removable independent meter core assembly design(one caliber can provide three flow specifications S M L) compact structure easy to install and maintainnot affected by pipeline stress; modular mechanical counter assembly with strong gear adjustment capability and high adjustment accuracy (more than four thousand sets of adjustment gears).

- Unique lubrication system

Axial lubricating oil channel is adopted and the O-ring is axially compressed to seal to not be affected by pipeline stress.

- Strong anti-magnetic attack ability

The magnetic coupling is designed with a shield ring to prevent strong magnetic attacks.

Model and Parameters

<table>
<tr><th>Model</th><th>DN (mm)</th><th>Flow Range
(m³/h)</th><th>Pressure
(MPa)</th><th>Pulse equivalent
(m³/imp)</th><th>Pressure Loss
at Qmax
(kPa)</th><th>Casing Material</th></tr>
<tr><td>ZTM-50S
ZTM-50M
ZTM-50L</td><td>50</td><td>6 ~ 65
8 ~ 100
10 ~ 160</td><td rowspan="9">1.6
2.5
4.0</td><td>0.1</td><td>0.9
1.5
2.2</td><td rowspan="3">≤1.6 MPa
aluminium alloy

>1.6 MPa
Ductile iron,
Carbon steel ,
corrosion resistant
steel</td></tr>
<tr><td>ZTM-80S
ZTM-80M
ZTM-80L</td><td>80</td><td>8 ~ 160
13 ~ 250
20 ~ 400</td><td rowspan="3">1</td><td>1.2
1.6
2.3</td></tr>
<tr><td>ZTM-100S
ZTM-100M
ZTM-100L</td><td>100</td><td>13 ~ 250
20 ~ 400
32 ~ 650</td><td>0.8
1.6
2.4</td></tr>
<tr><td>ZTM-150S
ZTM-150M
ZTM-150L</td><td>150</td><td>32 ~ 650
50 ~ 1000
80 ~ 1600</td><td>0.45
0.9
2.2</td><td rowspan="4">Ductile iron
Carbon steel
Corrosion resistant
steel
stainless steel</td></tr>
<tr><td>ZTM-200S
ZTM-200M
ZTM-200L</td><td>200</td><td>50 ~ 1000
80 ~ 1600
125 ~ 2500</td><td>10</td><td>0.36
0.9
2.1</td></tr>
<tr><td>ZTM-250S
ZTM-250M
ZTM-250L</td><td>250</td><td>80 ~ 1600
125 ~ 2500
200 ~ 4000</td><td rowspan="2">1

10</td><td>0.3
0.6
1.6</td></tr>
<tr><td>ZTM-300S
ZTM-300M
ZTM-300L</td><td>300</td><td>125 ~ 2500
200 ~ 4000
320 ~ 6500</td><td>0.5
1.2
2.3</td></tr>
<tr><td colspan="7">The above data is tested under the max. pressure loss and Qmax flow rate, the medium is dry air.</td></tr>
</table>

Remark:

① The flow range listed in the table is the flow range of the product at the factory inspection (ρ = 1.205kg / m³ at normal temperature and normal pressure);

② As the pressure increases, the flow range also expands;

③ S, M, L respectively represent small, medium, and large flow ranges at the same caliber;

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