

MVF-2500

Marmonix Insertion Vortex Flow Meters Manufacturers

Overview:

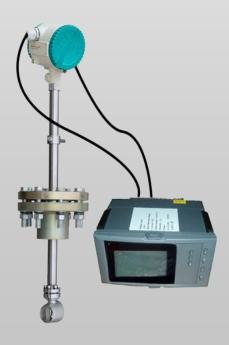
Marmonix Insertion Vortex Flow Meters Manufacturers works based on Carmen and Strouhal relevant spiral produce and on the theory of the flow relationship. As shown in picture, In the meter body vertical insert a triangular prism root namely the happening of the body, when eddies of medium flow through the table body, in triangular prism behind the alternate produce in opposite directions regular karman swirl, its spiral separation and the flow of the medium frequency F speed by sensing head is proportional to the V detected the number of spiral, can measure the flow velocity, again according to the table body mouth.

Application:

- ♦ Liquid
- Dry gas
- Wet gas
- ♦ Wet steam
- Saturated steam
- Superheated steam

Features:

- Flange& body: integrally forged pieces, it will avoid break down into pieces. 100% SS304 material, we can provide material report.
- Circuit Board: Digital circuit board, anti-most of the supplier use analog circuit board, digital circuit board enjoy the advantages of anti-vibration and antiinterference.
- Flow converter: Distinctive modular design, amateurs can operate, disassemble and assemble easily, it will avoid accident risks.
- Welding: adopt the advanced fish scale technology, which makes the welding seam looks nice and smooth.
- Our medium temperature sensor can measure highest temperature around 350 $^{\circ}$ C, normal it is -40 $^{\circ}$ 250 $^{\circ}$ C





SPECIFICATION

| Size | DN15-DN300mm (flange and flange card), DN100-DN2000mm (Insertion) | | | | | |
|---------------------|--|--|--|--|--|--|
| Medium Temperature | Liquid, Gas, Steam | | | | | |
| Accuracy | ±0.75% of read (liquid), ±1.0% of read (gas and steam) | | | | | |
| Nominal pressure | 1.6MPa,2.5MPa,4.0MPa | | | | | |
| Protection Grade | IP65 | | | | | |
| EX-proof Class | Ex d IIB T6 Gb | | | | | |
| Body Material | SS304,SS316 | | | | | |
| Medium Temperature | -20°C~+100°C, -20°C~+250°C, -20°C~+350°C | | | | | |
| Signal Output | 4~20 mA (two wire), pulse (three wires) | | | | | |
| Power supply | 24VDC, 3.6V lithium | | | | | |
| Ambient Temperature | -25℃ ~ +55℃ | | | | | |
| Humidity | 5∼90% RH | | | | | |
| Pressure loss | Resistance coefficient CD≤ 2.4 | | | | | |
| Connection | Flange: DN15-DN300 Flange Card: DN15-DN300 Insertion: DN100-DN2000 | | | | | |
| Communication | RS485 | | | | | |







MODEL SELECTION

| Table 1: Connection Model | | | | | | | | | | | |
|---------------------------|--------|-------------|---------------|--------|--|--|--|--|--|--|--|
| Mark No | 1 | 2 | 3 | 4 | | | | | | | |
| Connection | Flange | Flange card | Inserted type | others | | | | | | | |

| Table 2: Measured Medium | | | | | | | | | | |
|--------------------------|--------|------------|-----------------|-------------------|--------|--|--|--|--|--|
| Mark No | 1 | 2 | 3 | 4 | 5 | | | | | |
| Medium | Liquid | Common Gas | Saturated Steam | Superheated Steam | others | | | | | |

| Table 3: Caliber Size (mm) | | | | | | | | | | | | | | |
|-----------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Flange and flange card connection | | | | | | | | | | | | | | |
| Mark No | 150 | 200 | 250 | 320 | 400 | 500 | 650 | 800 | 101 | 125 | 151 | 201 | 251 | 301 |
| Caliber | 15 | 20 | 25 | 32 | 40 | 50 | 65 | 80 | 100 | 125 | 150 | 200 | 250 | 300 |

| Insertion ⁻ | Гуре | | | | | | | | | | | | | | | | | | |
|------------------------|------|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|
| Caliber | 10 | 12 | 15 | 20 | 25 | 30 | 35 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 120 | 140 | 160 | 180 | 200 |
| | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mark no | 10 | 12 | 15 | 20 | 25 | 30 | 35 | 40 | 50 | 60 | 70 | 80 | 90 | 102 | 122 | 142 | 162 | 182 | 202 |
| | | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | |

| Table 4: Special Mark | | | | | | | | | | |
|-----------------------|------------|------------------------------|---------------------------------------|----------------|------------------|-----------------------------|--------------------------|-----------------------------------|--|--|
| Mark No | Mo mark | М | В | Х | G | W | Υ | Z | | |
| Format | Common | Standard Signal Output | Intrinsically Safe Explosion-proof | Scene Shows | High Temperature | Temperature Compensation | Pressure Compensation | Temperature Pressure Compensation | | |



| Medium | Liqui | d (m³/h) | Gas (r | n³/h) | | | |
|-----------|------------|--------------|------------------------|-----------|--|--|--|
| Condition | (T=20°C ρc | =1000 Kg/m³) | (T=20°C 101325 Pa Air) | | | | |
| DN (mm) | Standard | Extend | Standard | Extend | | | |
| 20 | 1~8 | 0.6~12 | 5~50 | 5~60 | | | |
| 25 | 1.5~12 | 0.8~16 | 8~80 | 8~120 | | | |
| 40 | 2.5~30 | 1.5~40 | 20~200 | 18~300 | | | |
| 50 | 3~50 | 2~60 | 30~300 | 30~500 | | | |
| 65 | 5~80 | 3~90 | 50~500 | 50~900 | | | |
| 80 | 8~120 | 5~150 | 80~1000 | 60~1200 | | | |
| 100 | 12~200 | 6~240 | 100~1000 | 100~2000 | | | |
| 125 | 20~300 | 13~390 | 150~1600 | 150~3000 | | | |
| 150 | 30~400 | 15~600 | 250~2500 | 200~4000 | | | |
| 200 | 40~800 | 30~1200 | 400~4000 | 350~8000 | | | |
| 250 | 80~1200 | 40~1600 | 600~6000 | 500~12000 | | | |
| 300 | 100~1800 | 1000~10000 | 1000~10000 | 600~18000 | | | |