# TURBINE FLOWMETERS

## SM SERIES 304 SS BODY TURBINE FLOWMETERS

s-meter®
Flow Instruments

## SPECIFICATIONS

- S-Meter SM Series Stainless Steel Turbine flow meters are made of SS 304 material. SS-316 can also be made as an option.

- With its steel turbine structure, it is a robust, sensitive measurement product for many areas of the industry.

- Standard models have a working temperature of 120 ° C and 150 ° C models are optional.

- SM model turbine meters can also connect with various display options, automation systems such as counters, PLCs.

- Special display models are available for Ex-Proof environments.

## APLICATIONS

- Food, water, demineralized water, etc. They can be used in clean liquids up to 200 cst viscosity.

- Measuring hygienic liquids such as milk and fruit juice in the food industry with its stainless steel structure,

- Textile, dye, in cosmetics and pharmaceutical industries, in paper production facilities,

- Chemicals that require Ex-Proof properties and in petrochemical environment applications,

- In applications that require vertical and horizontal mounting,

- They can be used in filling control applications where a certain amount is requested automatically.

# SM SERIES TURBINE FLOWMETERS

SM 304 Stainless Steel Turbine meters have high efficiency ranges especially due to low pressure loss value.

High temperature resistant (120 ° C or 150 ° C) Thanks to its steel body, its resistance to heavy working and environmental conditions is extremely high.

At the same time, it can be connected to automation systems with different display variants, with local or remote mounting displays, or with signal output only. Thanks to these features, they can be used both in normal environments and in many applications that require Ex-Proof.

# SM SERIES DISPLAY TYPES

### Local Mounted Display

- In models with battery powered local display, the total and instantaneous flow rate can be seen on the screen.
- Since these models are used in simple applications, there is no possibility to reset it.
- It can be used in systems up to 120 ° C.

### Remote Mount Display

- 20 VAC / 24 VDC supply options can be selected for models with remote type panel.
- In remote type models, if desired, they can be used as a filling system by adding a valve to the system.
- In addition, there are options of Pulse, 4-20 mA or RS 485 output.
- It can be used in systems up to 120/150 ° C.

### Ex-Proof Display

- In Ex-Proof type models used especially in hazardous environments, the necessary settings can be made on the Touch-Screen screen.
- Depending on the application, they can be selected with Battery or 24 DVC supply. They can be used in all kinds of automation, filling control, PLC, remote control applications with many different indicator types.
- It is a user-friendly product with its backlit LCD display that contains very detailed information and touch key feature.
- Local model can be used in systems up to 70° C, remote model up to 120/150 ° C.
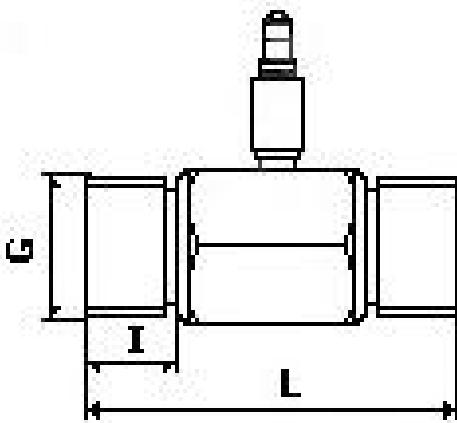
# TECHNICIAL SPECIFICATIONS

## 2.1 THREADED CONNECTION MODELS

| SIZES | | DN 4 | DN 6 | DN 10 | DN 15 | DN 20 | DN 25 |
|---|---|---|---|---|---|---|---|
| Flowrate | m³/h | 0,04 - 0,25 | 0,1 - 0,6 | 0,2 - 1,2 | 0,6 - 6 | 0,8 - 8 | 1 - 10 |
| Puls Value | p/lt | 9900 | 10000 | 3600 | 900 | 600 | 336 |
| Working Pressure | Bar | 60 | 60 | 60 | 60 | 60 | 60 |
| Ambient temperature | °C | -20 °C / +55 °C | | | | | |
| Working temperature | °C | -20 °C / +120 °C (Option 150 °C) * | | | | | |
| Accuracy | ± % | %1 | | | | %0,5 | |
| MATERIALS | Gövde | 304 SS (Option 316 SS) | | | | | |
| | Support | 304 SS (Option 316 SS) | | | | | |
| | Türbin | 329 SS | | | | | |
| | Şaft | Tungsten Carpide (Option 316 SS) | | | | | |
| | Yataklar | PTFE | | | | | |
| DIMENSIONS | G | 1/4" | 3/8" | 1/2" | 1" | 1¼" | 1¼" |
| | I (mm) | 7 | 11 | 16 | 18 | 23 | 23 |
| | L (mm) | 40 | 50 | 60 | 75 | 100 | 100 |
| Weight | kg | 0,4 | 0,4 | 0,5 | 0,8 | 0,9 | 0,9 |

* The locally mounted display can be used in systems up to 120 ° C.
* The remote mounted indicator can be used in systems up to 120/150 ° C.
* Ex-Proof Indicator can be used in systems up to 85 ° C local model and 120/150 ° C remote model.
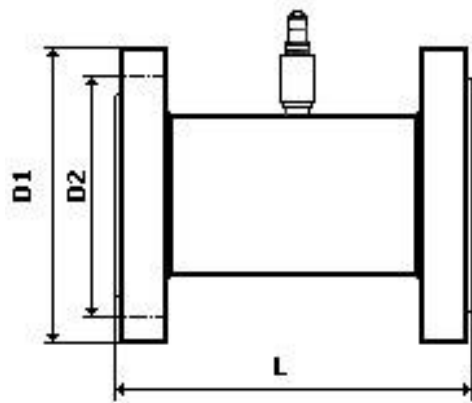
## 2.2 FLANGE CONNECTIONS MODELS

| SIZES | | DN 32 | DN 40 | DN 50 | DN 65 | DN 80 | DN 100 | DN 150 | DN 200 |
|---|---|---|---|---|---|---|---|---|---|
| Flowrate | m³/h | 1,6 - 16 | 2,5-25 | 4 - 40 | 6 - 60 | 10 - 100 | 16 - 160 | 40-400 | 80 - 800 |
| Pulse Value | p/lt | 135 | 89 | 41 | 17 | 11 | 7,5 | 2,1 | 1,8 |
| Working Pressure | Bar | 25 | 25 | 25 | 25 | 25 | 16 - 25 | 16 - 25 | 16 |
| Ambient temperature | °C | -20 °C / +55 °C | | | | | | | |
| Working Temperature | °C | -20 °C / +120 °C  (Option 150 °C) * | | | | | | | |
| Accuracy | ± % | %0,5 | | | | | | | |
| MATERIALS | Body | 304 SS (Optionel 316 SS) | | | | | | | |
| | Support | 304 SS (Option 316 SS) | | | | | | | |
| | Türbine | 329 SS | | | | 430 SS | | | |
| | Shaft | Tungsten Carpide (Option 316 SS) | | | | Tungsten Carpide | | | |
| | Bearings | PTFE | | | | Tungsten Carpide | | | |
| DIMENSIONS | D1 (mm) | 138 | 150 | 160 | 182 | 200 | 235 | 275 | 340 |
| | D2 (mm) | 100 | 110 | 125 | 145 | 160 | 180 | 240 | 295 |
| | L (mm) | 140 | 140 | 150 | 180 | 200 | 220 | 300 | 360 |
| Weights | kg | 4,5 | 6 | 6,5 | 7,5 | 8,5 | 11 | 14 | 19 |

* The locally mounted display can be used in systems up to 120 ° C.
* Remote mounted indicator can be used in systems up to 120/150 ° C
* Ex-Proof Indicator can be used in systems up to 85 ° C local model and 120/150 ° C remote mode.