

# TR-QS SERIES - TURBINE FLOW METER

Ideal for high performance flow measurement in aggressive environments, where space is limited and installation needs vary.



## TECHNICAL SPECIFICATIONS

**Measuring Accuracy**  
± 1.0% of reading or better

**Repeatability**  
± 0.1%

**Flow Measuring Range**  
5 to 2,500 GPM (gal/min)  
(per flange rating of install kit)

**Maximum Operating Pressure**  
Refer to ASME/ANSI B16.5-1996

**Maximum Operating Temperature**  
Fluid temperature of -150° to 300°F

**End Connections**  
Wafer-style ASME/ANSI B16.5-1996  
• Threaded, Flange, Galoc & Victaulic

*\*Actual pressure rating depends on installation connection.*

## MATERIALS OF CONSTRUCTION

|                                 |                     |
|---------------------------------|---------------------|
| <b>Body &amp; Rotor Support</b> | 316 Stainless Steel |
| <b>Bearings</b>                 | Tungsten Carbide    |
| <b>Rotor</b>                    | Stainless Steel     |
| <b>Rotor Shaft</b>              | Tungsten Carbide    |

## BENEFITS

### Accurate & Repeatable

The TR Series turbine meter is accurate to ±1% of reading with repeatability of better than ±0.1%.

### Smart & Simple Design

Unique design eliminates the need for mating flanges, resulting in lower costs and simplifying installation.

### Space-Saver

Wafer-style mounting configurations for limited space requirements.

### High Performance

This flow meter is made from superior materials of construction for high performance in aggressive environments.

### Improved Accuracy

The modified upstream and downstream flow straighteners allow for a higher accuracy and greater fluid dynamics.

## INSTALLATION KITS

Each kit includes studs, nuts, gaskets and spacer rings.

| Size | 150#          | 300#          | 600#          | 900#          | 1500#          |
|------|---------------|---------------|---------------|---------------|----------------|
| 1"   | TR-1110QS-150 | TR-1110QS-300 | TR-1110QS-600 | TR-1110QS-900 | TR-1110QS-1500 |
| 2"   | TR-1120QS-150 | TR-1120QS-300 | TR-1120QS-600 | TR-1120QS-900 | TR-1120QS-1500 |
| 3"   | TR-1130QS-150 | TR-1130QS-300 | TR-1130QS-600 | TR-1130QS-900 | TR-1130QS-1500 |
| 4"   | TR-1140QS-150 | TR-1140QS-300 | TR-1140QS-600 | TR-1140QS-900 | TR-1140QS-1500 |
| 6"   | TR-1160QS-150 | TR-1160QS-300 | TR-1160QS-600 | TR-1160QS-900 | TR-1160QS-1500 |

# TR-QS SERIES - TURBINE FLOW METER

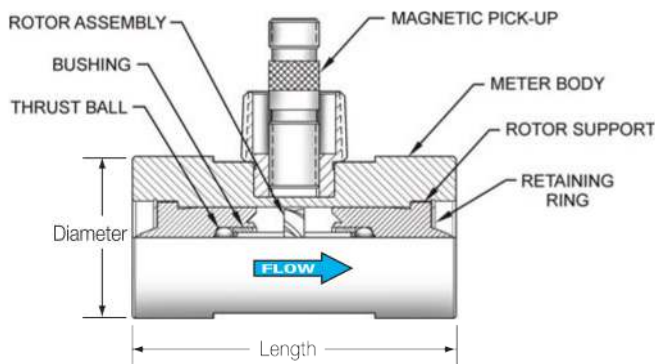
Ideal for high performance flow measurement in aggressive environments, where space is limited and installation needs vary.

## METER SPECIFICATIONS

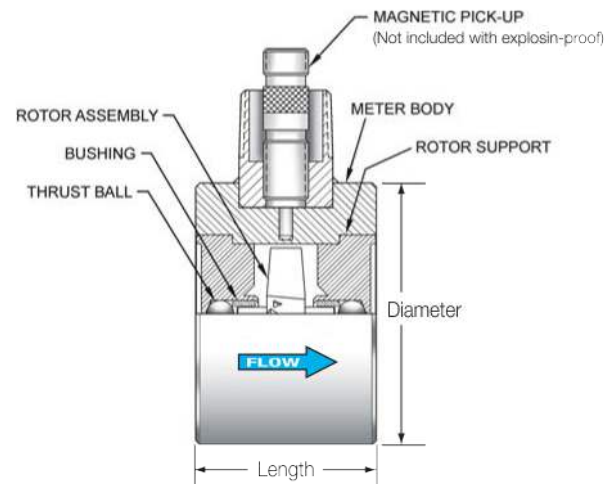
| Part Number | Flow Range (Gal/min) | K-Factor * (Pulses/gal) | Bore Size x Line Size | Filtration (micron) | Dimensions (Diam x Lngth) | Repair Kit Part Number |
|-------------|----------------------|-------------------------|-----------------------|---------------------|---------------------------|------------------------|
| TR-1110QS   | 5 - 50               | 870                     | 1" x 1"               | 250                 | 2" x 4"                   | TR-112QS               |
| TR-1115QS   | 5 - 50               | 870                     | 1" x 2"               | 250                 | 2" x 4"                   | consult factory        |
| TR-1118QS   | 15 - 180             | 330                     | 1½" x 2"              | 840                 | 3.62" x 2.5"              | consult factory        |
| TR-1120QS   | 40 - 400             | 52                      | 2" x 2"               | 840                 | 3.62" x 2.5"              | TR-220QS               |
| TR-1130QS   | 60 - 600             | 57                      | 3" x 3"               | 2000                | 5" x 4.25"                | TR-330QS               |
| TR-1140QS   | 100 - 1200           | 29                      | 4" x 4"               | 2000                | 6.18" x 5"                | TR-440QS               |
| TR-1160QS   | 200 - 2500           | 7                       | 6" x 6"               | 4500                | 8.5" x 5.75"              | TR-660QS               |

\*K-Factors given are averaged. A calibration sheet accompanies every meter sold.

Model TR1110QS only



Model TR1120QS through TR1160QS



Products may be subject to change without notice - Contact factory for the most up-to-date product information.