



## SADDLE FOR LARGE PIPE SIZES

The AQUASONIC® meter takes our highly accurate Ultrasonic insert and adds our very popular Q9 Display. This meter provides an accurate reading of water flow rate and accumulative total. It is designed to support commercial and industrial applications. Our AQUASONIC is available in four saddle line sizes, 6, 8, 10, 12 in.

## FEATURES / BENEFITS

- Low-cost, effective and easy installation
- No moving mechanical parts (low-maintenance)
- Pin protection, four digit user selectable
- 2 Totals (Batch Total and Accumulative Total); Rate of Flow
- Diagnostic Meter show % of battery life
- High accuracy:  $\pm 2.0\%$  of reading (compared to full scale accuracy)
- Provides extended leak detection down to 0.1 fps (0.03 m/s)
- Patented design
- Many field configurable options for ease of operation

## SPECIFICATIONS

|                          |                                  |
|--------------------------|----------------------------------|
| Saddle Housing:          | Aluminum                         |
| Connection Type:         | Saddle                           |
| Saddle sizes Available:  | 6 in, 8 in, 10 in, 12 in         |
| Insert Wetted Materials: | Body: PPS (Ryton® R-4)           |
|                          | Sensor: PEI (Ultem 1000)         |
|                          | O-Ring: EPDM                     |
| Saddle Wetted Materials: | Gasket: Silicone                 |
|                          | Saddle and Collar: Aluminum      |
| Temperature Rating:      |                                  |
| Operating:               | 32°F to 140°F (0°C to 60°C)      |
| Storage:                 | -20°F to +160°F (-29°C to +71°C) |
| Flow Range:              | 0.1 to 15 fps (0.03 to 4.6 m/s)  |
| Accuracy:                | Typically $\pm 2\%$ of reading   |
| Operating Pressure:      | 150 psi @ 73°F (10 bar @ 23°C)   |
|                          | 100 psi @ 140°F (7 bar @ 60°C)   |
| Transducer Power:        | Battery Power - Lithium C        |
| Electronic Display:      | Battery-Powered                  |

## INSERT DESCRIPTION

Designed for above and below grade (IP67) applications, such as irrigation, municipal and underground monitoring where the flow rates are between 0.1 to 15 fps (0.03 to 4.6 m/s) and temperatures are below 140°F (60°C). Available in four saddle line sizes, 6, 8, 10, 12 in.

## APPLICATIONS

- Agriculture Irrigation
- Turf / Landscape Irrigation Systems
- Micro Irrigation Systems
- Groundwater Monitoring
- Sub-Metering Applications:
  - » High Rise Tenant Buildings
  - » Apartment Complex
  - » Universities
  - » Commercial Businesses
  - » Processing Facilities

## APPROVALS/WARRANTY



IP67 CE



Wichita / Sydney

GREAT PLAINS INDUSTRIES



# SADDLE ONLY SELECTION CHART



Representation  
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| Description           | Pipe Outside Diameter (in.) | Clamp Outside Diameter (in.) | Clamp Circumference (in.) | Operating Flow Range              | Maximum Water Pressure**       | Meter Material | Gasket Material | Saddle Material | Clamp Material  |
|-----------------------|-----------------------------|------------------------------|---------------------------|-----------------------------------|--------------------------------|----------------|-----------------|-----------------|-----------------|
| 6 in. Pipe (NPS/IPS)  | 6.625                       | 6.48 - 7.13                  | 20.36 - 22.40             | .1 to 15 ft/sec (9 to 1350 GPM)*  | 150 PSI @ 73°F (10 bar @ 23°C) | N/A            | Silicone        | Aluminum        | Stainless Steel |
| 8 in. Pipe (NPS/IPS)  | 8.625                       | 8.39 - 9.04                  | 25.36 - 28.40             | .1 to 15 ft/sec (15 to 2300 GPM)* | 150 PSI @ 73°F (10 bar @ 23°C) | N/A            | Silicone        | Aluminum        | Stainless Steel |
| 10 in. Pipe (NPS/IPS) | 10.750                      | 10.48 - 11.13                | 32.9 - 34.97              | .1 to 15 ft/sec (24 to 3650 GPM)* | 150 PSI @ 73°F (10 bar @ 23°C) | N/A            | Silicone        | Aluminum        | Stainless Steel |
| 12 in. Pipe (NPS/IPS) | 12.750                      | 12.46 - 13.11                | 39.14 - 41.19             | .1 to 15 ft/sec (35 to 5300 GPM)* | 150 PSI @ 73°F (10 bar @ 23°C) | N/A            | Silicone        | Aluminum        | Stainless Steel |
| 6 in. Tube            | 6.000                       | 5.91 - 6.56                  | 18.57 - 20.61             | .1 to 15 ft/sec (8 to 1230 GPM)*  | 150 PSI @ 73°F (10 bar @ 23°C) | N/A            | Silicone        | Aluminum        | Stainless Steel |
| 8 in. Tube            | 8.000                       | 7.79 - 8.44                  | 24.47 - 26.52             | .1 to 15 ft/sec (15 to 2200 GPM)* | 150 PSI @ 73°F (10 bar @ 23°C) | N/A            | Silicone        | Aluminum        | Stainless Steel |
| 10 in. Tube           | 10.000                      | 9.73 - 10.38                 | 30.57 - 32.61             | .1 to 15 ft/sec (23 to 3500 GPM)* | 150 PSI @ 73°F (10 bar @ 23°C) | N/A            | Silicone        | Aluminum        | Stainless Steel |
| 12 in. Tube           | 12.000                      | 11.72 - 12.37                | 36.82 - 38.86             | .1 to 15 ft/sec (34 to 5100 GPM)* | 150 PSI @ 73°F (10 bar @ 23°C) | N/A            | Silicone        | Aluminum        | Stainless Steel |
| 6 in. PIP             | 6.140                       | 5.91 - 6.56                  | 18.57 - 20.61             | .1 to 15 ft/sec (8 to 1230 GPM)*  | 150 PSI @ 73°F (10 bar @ 23°C) | N/A            | Silicone        | Aluminum        | Stainless Steel |
| 8 in. PIP             | 8.160                       | 7.79 - 8.44                  | 24.47 - 26.52             | .1 to 15 ft/sec (15 to 2200 GPM)* | 150 PSI @ 73°F (10 bar @ 23°C) | N/A            | Silicone        | Aluminum        | Stainless Steel |
| 10 in. PIP            | 10.200                      | 9.73 - 10.38                 | 30.57 - 32.61             | .1 to 15 ft/sec (23 to 3500 GPM)* | 150 PSI @ 73°F (10 bar @ 23°C) | N/A            | Silicone        | Aluminum        | Stainless Steel |
| 12 in. PIP            | 12.240                      | 11.72 - 12.37                | 36.82 - 38.86             | .1 to 15 ft/sec (34 to 5100 GPM)* | 150 PSI @ 73°F (10 bar @ 23°C) | N/A            | Silicone        | Aluminum        | Stainless Steel |

\*Nominal flow rate shown. Actual flow is dependent on pipe schedule (wall thickness).

\*\* Maximum water pressure for larger line sizes would be based on the material of the sensor, adapter, and pipe. Pressure is also derated due to temperature (1.20 psi / °F).

# SADDLE WITH SENSOR SELECTION CHART



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| Description           | Pipe Outside Diameter (in.) | Operating Flow Range              | Maximum Water Pressure**       | Meter Material | Gasket Material | Saddle Material | Clamp Material  |
|-----------------------|-----------------------------|-----------------------------------|--------------------------------|----------------|-----------------|-----------------|-----------------|
| 6 in. Pipe (NPS/IPS)  | 6.625                       | .1 to 15 ft/sec (9 to 1350 GPM)*  | 150 PSI @ 73°F (10 bar @ 23°C) | Ryton®         | Silicone        | Aluminum        | Stainless Steel |
| 8 in. Pipe (NPS/IPS)  | 8.625                       | .1 to 15 ft/sec (15 to 2300 GPM)* | 150 PSI @ 73°F (10 bar @ 23°C) | Ryton®         | Silicone        | Aluminum        | Stainless Steel |
| 10 in. Pipe (NPS/IPS) | 10.750                      | .1 to 15 ft/sec (24 to 3650 GPM)* | 150 PSI @ 73°F (10 bar @ 23°C) | Ryton®         | Silicone        | Aluminum        | Stainless Steel |
| 12 in. Pipe (NPS/IPS) | 12.750                      | .1 to 15 ft/sec (35 to 5300 GPM)* | 150 PSI @ 73°F (10 bar @ 23°C) | Ryton®         | Silicone        | Aluminum        | Stainless Steel |
| 6 in. Tube            | 6.000                       | .1 to 15 ft/sec (8 to 1230 GPM)*  | 150 PSI @ 73°F (10 bar @ 23°C) | Ryton®         | Silicone        | Aluminum        | Stainless Steel |
| 8 in. Tube            | 8.000                       | .1 to 15 ft/sec (15 to 2200 GPM)* | 150 PSI @ 73°F (10 bar @ 23°C) | Ryton®         | Silicone        | Aluminum        | Stainless Steel |
| 10 in. Tube           | 10.000                      | .1 to 15 ft/sec (23 to 3500 GPM)* | 150 PSI @ 73°F (10 bar @ 23°C) | Ryton®         | Silicone        | Aluminum        | Stainless Steel |
| 12 in. Tube           | 12.000                      | .1 to 15 ft/sec (34 to 5100 GPM)* | 150 PSI @ 73°F (10 bar @ 23°C) | Ryton®         | Silicone        | Aluminum        | Stainless Steel |
| 6 in. PIP             | 6.140                       | .1 to 15 ft/sec (8 to 1230 GPM)*  | 150 PSI @ 73°F (10 bar @ 23°C) | Ryton®         | Silicone        | Aluminum        | Stainless Steel |
| 8 in. PIP             | 8.160                       | .1 to 15 ft/sec (15 to 2200 GPM)* | 150 PSI @ 73°F (10 bar @ 23°C) | Ryton®         | Silicone        | Aluminum        | Stainless Steel |
| 10 in. PIP            | 10.200                      | .1 to 15 ft/sec (23 to 3500 GPM)* | 150 PSI @ 73°F (10 bar @ 23°C) | Ryton®         | Silicone        | Aluminum        | Stainless Steel |
| 12 in. PIP            | 12.240                      | .1 to 15 ft/sec (34 to 5100 GPM)* | 150 PSI @ 73°F (10 bar @ 23°C) | Ryton®         | Silicone        | Aluminum        | Stainless Steel |

\*Nominal flow rate shown. Actual flow is dependent on pipe schedule (wall thickness).

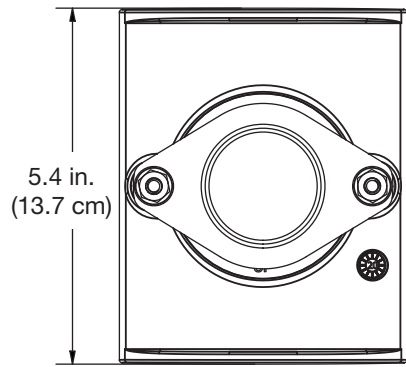
\*\* Maximum water pressure for larger line sizes would be based on the material of the sensor, adapter, and pipe.

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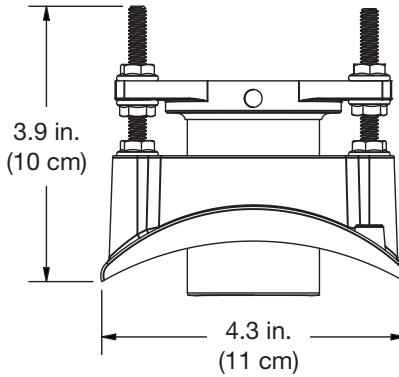
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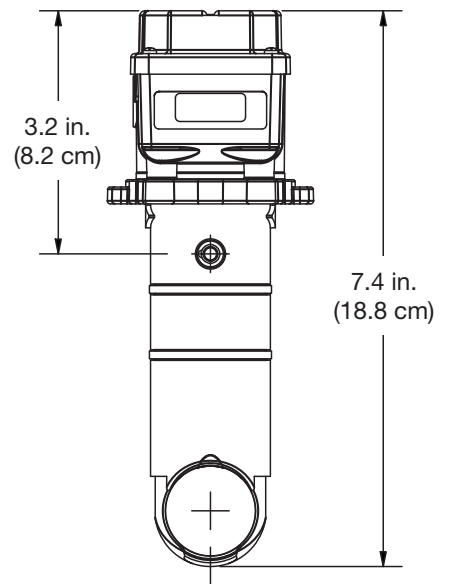
## DIMENSIONS



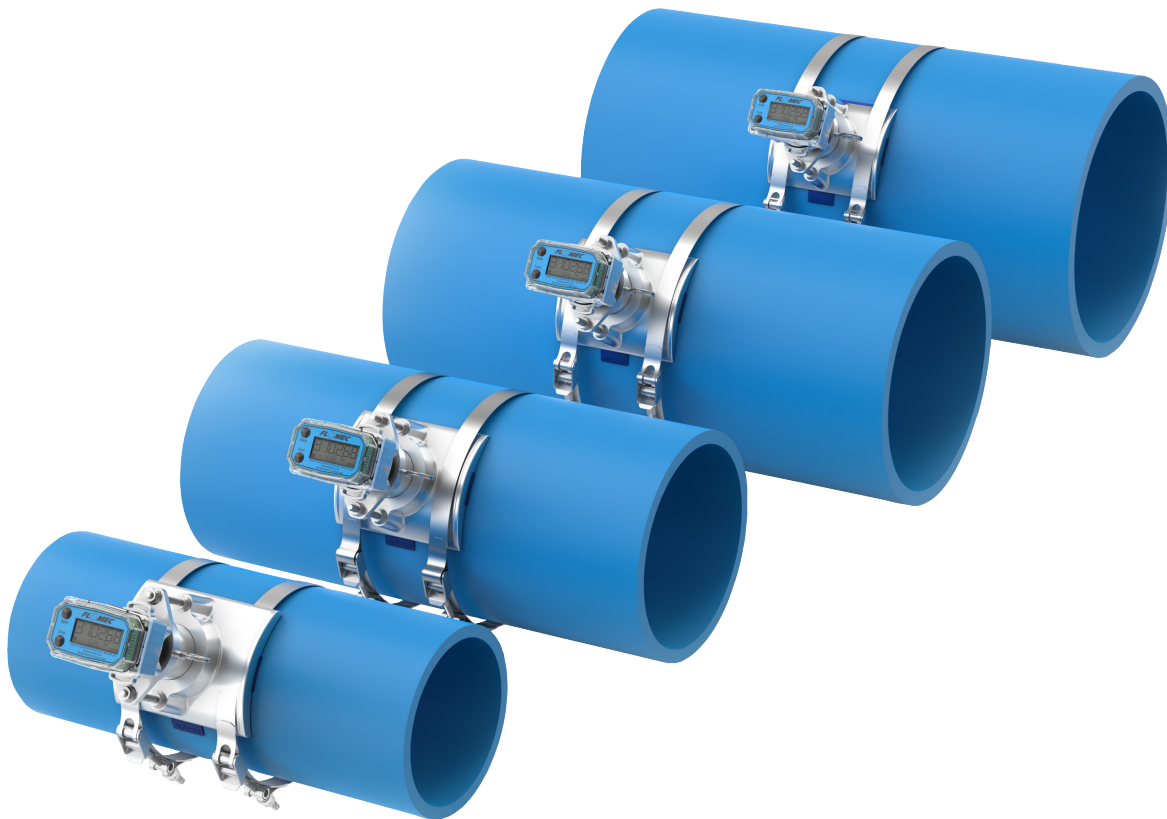
**SADDLE - TOP VIEW**



**SADDLE - FRONT VIEW**



**AQUASONIC® INSERT**



**SADDLE FAMILY LINE-UP** (Shown on pipe. Pipe not included.)