Series SX3 Ultrasonic Flowmeter Detectors are paired with Series UXF2 converters and employ a clamp-on type design for permanent use based on transit time measuring method. These detectors are ideal for clean liquids containing no air bubbles such as pure water. The easy-to-use compact and lightweight design is intended for integration into mechanical devices. It is applicable for small to medium size pipes of diameter range from 1 to 23 in (25 to 600 mm) and provides superior cost performance.

Series SX3 Ultrasonic Flowmeter Detectors:
• Helps ensure pumping efficiency
• Provides accurate leak detection
• Not influenced by fluid’s temperature or pressure

SPECIFICATIONS
Service: Clean liquids that pass ultrasound and do not contain air bubbles (such as pure water and chemical solution).

Turbidity: 10000 deg (mg/L) or less.

Type of Flow: Well-developed turbulent or laminar flow in a fluid-filled pipe.

Permissible Air Volume Rate: Up to 2% at 1 m/s (inversely proportional to velocity).

Range: 0 to ± 32.8 fps (0 to ±10 m/s).

Flow Pipe Sizes:
SX3A: 0.98 to 3.94 in (25 to 100 mm) for plastic piping
1.97 to 3.94 in (50 to 100 mm) for metal piping;
SX3B: 1.97 to 8.86 in (50 to 225 mm);
SX3C: 1.97 to 11.81 in (50 to 300 mm);
SX3D: 11.81 to 23.62 in (300 to 600 mm).

Accuracy: 1.5 to 2% of rate.

Response Time:
System cycle: 0.2 s; Dead time: 0.2 s or less; Time constant: 0.1 s.

Temperature Limits:
Ambient -4 to 140°F (-20 to 60°C); Fluid Temperature:
SX3A/SX3B: -4 to 212°F (-20 to 100°C); SX3C/SX3D w/ silicone rubber for acoustic couplant: -4 to 176°F (-20 to 80°C), w/ silicone free grease for acoustic couplant: 32 to 140°F (0 to 60°C).

Enclosure Rating:
SX3A and SX3B: IP65 (jetproof) when using waterproof BNC connector; SX3C and SX3D: IP67 (immersion-proof) when the terminal block is filled with silicone rubber after wiring.

Materials:
For SX3A and SX3B: Plastic PBT for sensor housing, 304SS for guide frame;
For SX3C and SX3D: Plastic PBT for sensor cover, 304SS and PBT for guide rail.

Electrical Connection:
Coaxial cable up to 98.4 ft (30 m) and thermal stability of 212°F (100°C).

Weight:
SX3A: 10.6 oz (0.3 kg); SX3B: 14.1 oz (0.4 kg); SX3C: 2.2 lb (1 kg); SX3D: 14.1 oz (0.4 kg).

ACCESSORIES

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
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<tbody>
<tr>
<td>A-186</td>
<td>Silicone-based grease acoustic couplant, 3 oz tube</td>
</tr>
<tr>
<td>A-187</td>
<td>Silicone RTV acoustic couplant, 4 oz tube</td>
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<tr>
<td>A-188</td>
<td>Silicone-free acoustic couplant, 4 oz tube</td>
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Option-Consult factory for other cable lengths.