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; 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 housing, 304SS 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).

**Mounting:** Clamped on pipe surface.

**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).

**Options:**
- Heat Resistant Cable with waterproof BNC connector for SX3-A and SX3-B
- Heat Resistant Cable with waterproof BNC connector for SX3-A and SX3-D
- Heat Resistant Cable with waterproof BNC connector for SX3-B and SX3-D

**Accessories**

<table>
<thead>
<tr>
<th>Model</th>
<th>Kind of Detector</th>
<th>Flow Pipe Size in (mm)</th>
<th>Acoustic Coupler</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-185</td>
<td>Silicone-based grease couplant, 3 oz tube</td>
<td>9.8 to 3.94 (25 to 100)</td>
<td>None</td>
<td>$112.00</td>
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<tr>
<td>A-187</td>
<td>Silicone RTV acoustic couplant, 4 oz tube</td>
<td>1.97 to 8.86 (50 to 225)</td>
<td>None</td>
<td>$199.00</td>
</tr>
<tr>
<td>A-188</td>
<td>Silicone-free acoustic couplant, 4 oz tube</td>
<td>1.97 to 8.86 (50 to 225)</td>
<td>None</td>
<td>$199.00</td>
</tr>
</tbody>
</table>

**Options:**
- Heat Resistant Cable with waterproof BNC connector for SX3-A and SX3-B
- Heat Resistant Cable with waterproof BNC connector for SX3-A and SX3-D
- Heat Resistant Cable with waterproof BNC connector for SX3-B and SX3-D