

**DARVALL**

**Smooth-Wall Circuits**

Efficient & Responsive Anesthesia Breathing Systems

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**Corrugated 3/4” hose compared to 1/2” & 5/8” ID smooth wall hose**

**3/4” molded end connects to circle system**

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**Reduce breathing hose volume by up to 70%**

- Use circle systems with smaller animals & Save $
- Easy to clean & dries fast!
- Molded ends - reliable connection
- **Circle Systems** reduce heat-loss
- **Economical** low gas flows

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**SWT Sizes for Anesthesia of Dogs & Cats**

<table>
<thead>
<tr>
<th></th>
<th>Weight</th>
<th>Tubing ID</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Medium/Large Dog</strong></td>
<td>45lb+</td>
<td>5/8</td>
<td>5</td>
</tr>
<tr>
<td><strong>Cat/Small Dog</strong></td>
<td>5 - 45lb</td>
<td>1/2</td>
<td>5</td>
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*use with Darvall Low Volume CO2 Absorber

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**Stress relief protects hose at molded junction**

**5/8” molded end connects to pediatric Y piece**

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**Smooth Wall Tubing has Low Resistance & Low Volume**

You don’t need 3/4” (22mm) corrugated hose to anesthetize dogs & cats

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**Darvall Smooth Wall Tubing (SWT) reduces tube volume by up to 70% for faster circle system response in very small animals.** Tubing accounts for up to 1/2 the resistance of circle absorber systems. Darvall’s small diameter, smooth wall tubing has been shown to produce less resistance than typical 22mm(3/4”) corrugated tubing. Darvall SWT 16mm(5/8”)ID x 1.6M(5’) long can support animals up to 80kg(175lb) with less than 0.5cm H2O pressure drop; Darvall SWT 12mm(1/2”)ID x 1.6M(5’) long can support animals up to 40kg(90lb) [see graph]1-2.

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**Efficient & Responsive Breathing Systems**

SWT offers a huge efficiency advantage (volume of gas relative to the size of animal) requiring as little as 63% (SWT 16) and 32% (SWT 12) the volume of 22mm(3/4”) ID corrugated tubing or Universal F tubing. SWT reduce volume and enable circle systems to be used on very small animals down to 2kg (5lb) at economical low gas flows.

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**References**


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**Pressure drop flowing medical air through straightened hoses with 1.6M(5’) patient length. Flows between 10 and 50 L/min were used to simulate peak flow rates in animals with weights in the range 7kg-80kg (15lb-175lb).**