Options

- Available Size Range: 1/4” (6.4mm) thru 1” (25.4mm)
- Optional 5 Micron Sintered Filter
Evans E-Series

Features

- Oxygen cleaned and packaged
- Self-relieving regulator design
- Low Cost
- Stainless ball valve with locking handles
- High flow medical grade Aluminum regulator with NBR (Nitrile/Buna N) diaphragm
- Push to lock regulator adjustment knob
- Reduced number of mechanical connections and potential leak points
- Stainless compression end connections, 1/4" - 1" (6.4 mm-25.4 mm)
- Full port ball valve design
- Gauge: 0-160 psig (0 - 11 bar), 2” dial, stainless steel design
- 100% Helium leak tested to 1 X 10-7 scc/sec
- Designed with enough clearance between components for Unistrut mounting with Cush Clamp
- Regulator can be isolated upstream with ball valve and removed from service if necessary

<table>
<thead>
<tr>
<th>Series</th>
<th>Size Range</th>
<th>Max Inlet Pressure</th>
<th>Operating Temperature</th>
<th>Outlet Pressure Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>ES</td>
<td>1/4&quot; - 1/2&quot;</td>
<td>230 psig (16 Bar)</td>
<td>32°F to 140°F (0°C to 60°C)</td>
<td>5 - 175psig (0.5 - 12 Bar)</td>
</tr>
<tr>
<td>EM</td>
<td>1/2&quot; - 3/4&quot;</td>
<td>230 psig (16 Bar)</td>
<td>32°F to 140°F (0°C to 60°C)</td>
<td>5 - 175psig (0.5 - 12 Bar)</td>
</tr>
<tr>
<td>EL</td>
<td>1&quot;</td>
<td>230 psig (16 Bar)</td>
<td>32°F to 140°F (0°C to 60°C)</td>
<td>5 - 175psig (0.5 - 12 Bar)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SERIES</th>
<th>Cv</th>
<th>Kv</th>
</tr>
</thead>
<tbody>
<tr>
<td>ES</td>
<td>2.03</td>
<td>1.76</td>
</tr>
<tr>
<td>EM</td>
<td>8.13</td>
<td>7.03</td>
</tr>
<tr>
<td>EL</td>
<td>12.19</td>
<td>10.54</td>
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Regulator Materials of Construction

<table>
<thead>
<tr>
<th>No.</th>
<th>Item</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Pressure Knob</td>
<td>POM</td>
</tr>
<tr>
<td>2</td>
<td>Regulator cap</td>
<td>POM</td>
</tr>
<tr>
<td>3</td>
<td>Regulator nut</td>
<td>S35C</td>
</tr>
<tr>
<td>4</td>
<td>Adjusting spindle</td>
<td>S35C</td>
</tr>
<tr>
<td>5</td>
<td>Pressure spring</td>
<td>SWC</td>
</tr>
<tr>
<td>6</td>
<td>Fixed ring</td>
<td>6061-T6</td>
</tr>
<tr>
<td>7</td>
<td>One part of membrane</td>
<td>NBR (Nitrile)</td>
</tr>
<tr>
<td>8</td>
<td>O-ring</td>
<td>NBR</td>
</tr>
<tr>
<td>9</td>
<td>Flange-IN</td>
<td>Zinc alloy</td>
</tr>
<tr>
<td>10</td>
<td>Spool</td>
<td>Brass</td>
</tr>
<tr>
<td>11</td>
<td>O-ring</td>
<td>NBR</td>
</tr>
<tr>
<td>12</td>
<td>O-ring</td>
<td>NBR</td>
</tr>
<tr>
<td>13</td>
<td>Fasteners</td>
<td>Brass</td>
</tr>
<tr>
<td>14</td>
<td>Locker cover</td>
<td>Zinc alloy</td>
</tr>
<tr>
<td>15</td>
<td>Wearing sheet</td>
<td>Insulation sheet</td>
</tr>
<tr>
<td>16</td>
<td>Sheet</td>
<td>NBR</td>
</tr>
<tr>
<td>17</td>
<td>Overflow base</td>
<td>6061-T6</td>
</tr>
<tr>
<td>18</td>
<td>One part of diaphragm</td>
<td>SPCC</td>
</tr>
<tr>
<td>19</td>
<td>Diaphragm</td>
<td>NBR+Nylon</td>
</tr>
<tr>
<td>20</td>
<td>O-ring</td>
<td>NBR (Nitrile)</td>
</tr>
<tr>
<td>21</td>
<td>OR Body</td>
<td>Zinc alloy</td>
</tr>
<tr>
<td>22</td>
<td>Plug</td>
<td>POM</td>
</tr>
<tr>
<td>23</td>
<td>O-ring</td>
<td>NBR</td>
</tr>
<tr>
<td>24</td>
<td>Flange-OUT</td>
<td>Zinc alloy</td>
</tr>
<tr>
<td>25</td>
<td>Allen screw</td>
<td>S35C</td>
</tr>
<tr>
<td>26</td>
<td>Spring</td>
<td>SWPB</td>
</tr>
</tbody>
</table>
Evans E-Series

Ball Valve Materials of Construction

<table>
<thead>
<tr>
<th>No.</th>
<th>Item</th>
<th>Material</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Body</td>
<td>CF8</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>Cap2 (Lok)</td>
<td>CF8</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>Ball</td>
<td>CF8</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>Seat</td>
<td>PTFE</td>
<td>2</td>
</tr>
<tr>
<td>5</td>
<td>Gasket</td>
<td>PTFE</td>
<td>2</td>
</tr>
<tr>
<td>6</td>
<td>Stem</td>
<td>SS304</td>
<td>1</td>
</tr>
<tr>
<td>7</td>
<td>Stem Seal</td>
<td>PTFE</td>
<td>1</td>
</tr>
<tr>
<td>8</td>
<td>Stem Packing</td>
<td>PTFE</td>
<td>1</td>
</tr>
<tr>
<td>9</td>
<td>Gland Nut</td>
<td>SS304</td>
<td>1</td>
</tr>
<tr>
<td>10</td>
<td>Handle</td>
<td>SS304</td>
<td>1</td>
</tr>
<tr>
<td>11</td>
<td>Handle Sleeve</td>
<td>VINYL</td>
<td>1</td>
</tr>
<tr>
<td>12</td>
<td>Locking Device</td>
<td>SS304</td>
<td>1</td>
</tr>
<tr>
<td>13</td>
<td>Handle Washer</td>
<td>SS304</td>
<td>1</td>
</tr>
<tr>
<td>14</td>
<td>Handle Nut</td>
<td>SS304</td>
<td>1</td>
</tr>
<tr>
<td>15</td>
<td>Body Bolt</td>
<td>SS304</td>
<td>4</td>
</tr>
<tr>
<td>16</td>
<td>Washer</td>
<td>SS304</td>
<td>4</td>
</tr>
<tr>
<td>17</td>
<td>Nut</td>
<td>SS304</td>
<td>4</td>
</tr>
</tbody>
</table>
Part Number Matrix

EXAMPLE: SA-EM-8C-160-5M
Medium E-Stick with 1/2” compression ends, 0-160 gauge, 5 micron filter

SA - Stainless/Aluminum

1. Series
   - ES Small (1/4” - 1/2”)
   - EM Medium (1/2” - 3/4”)
   - EL Large (1”)

2. Connection Size
   - 4 1/4” (6.4 mm)
   - 6 3/8” (9.6 mm)
   - 8 1/2” (12.7 mm)
   - 12 3/4” (19.1 mm)
   - 16 1” (25.4 mm)

3. Connection Type
   - C Compression (Stainless)
   - M Stainless tube stub
   - PL Presslok
   - M Male NPT
   - F Female NPT

4. Gauge
   - 160 0-160 psig (0-11 bar)
   - PT1 0-150psig (0-10.3 bar) Stainless pressure transducer, 4-20 mA

5. Options
   - 5M 5 Micron Filter

Dimensions

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Evans Components Inc.
7606 SW Bridgeport Road, Portland, OR 97224 USA
Phone 971.249.1600 | Fax 971.249.1601
www.evanscomponents.com
## Optional Filter Specifications

<table>
<thead>
<tr>
<th>Optional Filter</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Working Medium</strong></td>
<td>Compressed Filtered Air, N2</td>
</tr>
<tr>
<td><strong>Features of Structure</strong></td>
<td>Sintered Filter with Water Separator, Diaphragm Type</td>
</tr>
<tr>
<td><strong>Assembly Position</strong></td>
<td>Vertically +/- 5 degrees</td>
</tr>
<tr>
<td><strong>E-stick Size</strong></td>
<td>ES 1/4&quot; - 1/2&quot;</td>
</tr>
<tr>
<td><strong>Flow Rate / SLPM</strong></td>
<td>1200</td>
</tr>
<tr>
<td><strong>Grade of Filtration</strong></td>
<td>5 Micron</td>
</tr>
<tr>
<td><strong>Inlet Pressure Range</strong></td>
<td>14 - 174 psig (1 - 12 Bar)</td>
</tr>
<tr>
<td><strong>Working Pressure Range</strong></td>
<td>3 174 psig (0.2 - 12 Bar)</td>
</tr>
<tr>
<td><strong>Max. Condensate Capacity</strong></td>
<td>22 ml</td>
</tr>
<tr>
<td><strong>Temperature Range</strong></td>
<td>32 - 140F (0 - 60C)</td>
</tr>
</tbody>
</table>
Flow Curves
Evans E-Series

Learn more about related Evans Products

Evans PLT Series Presslok® Stainless Tube Fittings/Valves
"Tube Size Range: 1/8" Max."

Evans 90 Series "Full Flow" Mini Ball Valve

Evans PW/PWT Series 1/2" Flare F FPM/PSI made-up 1550 psi

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Supply and Return Manifolds

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Portland, Oregon 97224

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Fax 971.249.1601

NOTE: Product availability and specifications contained herein are subject to change without notice. Consult local distributor or factory for potential revisions.