Nitrogen Gas Spring Accessories

The DADCO Surge Tank with Filling Assembly Kit is designed as an auxiliary filling station for DADCO Nitrogen Gas Springs. Used with DADCO’s Compact Nitrogen Gas Booster System (DGB.100), to capture high pressure nitrogen gas, this assembly regulates the nitrogen to a usable pressure, allowing for rapid and transportable filling of gas springs. DADCO offers three assembly kit configurations for your new or existing surge tank.

Step One: Choose a Surge Tank

Choose the size and length for the Surge Tank. Mount option B29 (shown below), is the preferred mount for this assembly. For detailed information on Surge Tank volume refer to the Linked Systems Components Catalog (C09118E).

<table>
<thead>
<tr>
<th>Surge Tank</th>
<th>CYL REF</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
<th>K</th>
<th>X</th>
</tr>
</thead>
<tbody>
<tr>
<td>ST.30</td>
<td>3000</td>
<td>95</td>
<td>3.74</td>
<td>50</td>
<td>197</td>
<td>75</td>
<td>2.95</td>
<td>4 x M10</td>
<td>3/8</td>
</tr>
<tr>
<td>ST.50</td>
<td>5000</td>
<td>120</td>
<td>4.72</td>
<td>90</td>
<td>3.54</td>
<td>120</td>
<td>4.72</td>
<td>4 x M10</td>
<td>3/8</td>
</tr>
<tr>
<td>ST.75</td>
<td>7500</td>
<td>150</td>
<td>5.91</td>
<td>90</td>
<td>3.54</td>
<td>120</td>
<td>4.72</td>
<td>4 x M10</td>
<td>3/8</td>
</tr>
<tr>
<td>ST.100</td>
<td>10000</td>
<td>195</td>
<td>7.67</td>
<td>100</td>
<td>3.94</td>
<td>150</td>
<td>5.97</td>
<td>4 x M12</td>
<td>1/2</td>
</tr>
</tbody>
</table>

Y = Surge Tank Length: 50, 100, 150, 200, 250, 300, 400

Step Two: Choose a Filling Assembly Kit

All Filling Assembly Kits come standard with a 90.700 (Y-700) hose assembly at 2.1 m (7 ft) length, a Bleed Valve, a Rupture Disk, Fittings (90.503.830 & 90.505.102) and a Quick Disconnect Filler Valve. For more information on DADCO’s filling hardware see bulletin B16118.

- **FA.040**
  - Pressure Regulator: 90.310.203
  - DIN-477 #10
  - 9/16-18 Seal-Lok
  - Standard Quick Disconnect Filling Assembly: 90.310.338
  - SV-3G Shut-off Valve

- **FA.041**
  - High Pressure Regulator: 90.310.205
  - CGA-680 (10/40-14-RH-EXT)
  - 9/16-18 Seal-Lok
  - Standard Quick Disconnect Filling Assembly: 90.310.338
  - FA-3 Female Quick Disconnect

- **FA.044**
  - High Pressure Regulator: 90.310.205
  - CGA-680 (10/40-14-RH-EXT)
  - 9/16-18 Seal-Lok
  - Quick Disconnect Filling Assembly Self-Venting Capable: 90.310.340
  - SV-4 Shut-off Valve

Note: The Filling Assembly Kit can be ordered separately and paired with an existing Surge Tank. To order a Filling Assembly Kit use the order codes ST.FA.040 for the FA.040, ST.FA.041 for the FA.041, or ST.FA.044 for the FA.044. When ordered separately the Filling Assembly Kits include assembly instructions. The Pressure Regulator tank connection end is removed for installation purposes.

**Ordering Example:**

- **Surge Tank Model:** 30, 50, 75, 100
- **Surge Tank Length (Y):** 50, 100, 150, 200, 250, 300, 400
- **Mount Option:** B29 recommended, TO = Basic Model (no mount)
- **Filling Assembly Kit:** FA.040, FA.041, FA.044

Example Shown: ST.50.150.B29.FA.040

Example Shown: ST.50.150.B29.FA.040