

# Nitrogen Gas Spring Accessories

## Surge Tank with Filling Assembly Kit

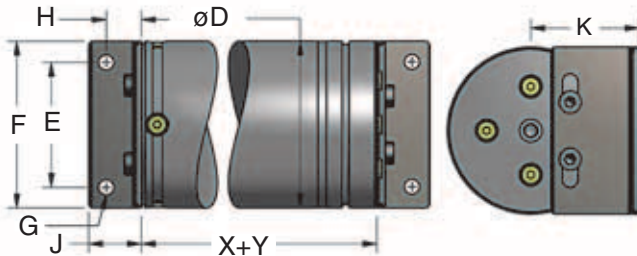
The DADCO Surge Tank with Filling Assembly Kit is designed as an auxiliary filling station for DADCO Nitrogen Gas Springs. Used with DADCO's Compact Nitrogen Gas Booster System (DGB.100), to capture high pressure nitrogen gas, this assembly regulates the nitrogen to a usable pressure, allowing for rapid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



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

### 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).



Surge Tank	CYL REF	D	E	F	G	H	J	K	X
ST.30	3000	95 3.74	50 1.97	75 2.95	4 x M10 3/8	25.4 1.00	38 1.50	50.5 1.99	117 4.61
ST.50	5000	120 4.72	90 3.54	120 4.72	4 x M10 3/8	25.4 1.00	38 1.50	78 3.07	137 5.39
ST.75	7500	150 5.91	90 3.54	120 4.72	4 x M10 3/8	25.4 1.00	38 1.50	85 3.35	152 5.98
ST.100	10000	195 7.67	100 3.94	150 5.91	4 x M12 1/2	31.8 1.25	50.8 2.00	98.5 3.88	157 6.18

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	FA.041	FA.044
<p>Pressure Regulator: 90.310.203</p> <p>Filling Pressures up to 150 bar (2175 psi)</p> <p>9/16-18 Seal-Lok</p> <p>DIN-477 #10 (24.32 mm x 1/14"-RH-EXT)</p>	<p>High Pressure Regulator: 90.310.205</p> <p>Filling Pressures up to 180 bar (2600 psi)</p> <p>9/16-18 Seal-Lok</p> <p>CGA-680 (1.040"-14-RH-EXT)</p>	<p>High Pressure Regulator: 90.310.205</p> <p>Filling Pressures up to 180 bar (2600 psi)</p> <p>9/16-18 Seal-Lok</p> <p>CGA-680 (1.040"-14-RH-EXT)</p>
<p>Standard Quick Disconnect Filling Assembly: 90.310.338</p> <p>SV-3G Shut-off Valve</p> <p>FA-3 Female Quick Disconnect</p>	<p>Standard Quick Disconnect Filling Assembly: 90.310.338</p> <p>SV-3G Shut-off Valve</p> <p>FA-3 Female Quick Disconnect</p>	<p>Quick Disconnect Filling Assembly Self-Venting Capable: 90.310.340</p> <p>SV-4 Shut-off Valve</p> <p>FA-3 Female Quick Disconnect</p>

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:

**ST.50. 150. B29. FA.040**

Surge Tank Model: 30, 50, 75, 100

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

Filling Assembly Kit: FA.040, FA.041, FA.044

Mount Option: B29 recommended, TO = Basic Model (no mount).