## Charging Nitrogen Gas Springs

**CAUTION:** Always wear safety goggles when performing any maintenance work. All gas springs should be inspected before recharging. Do not recharge gas springs if damaged.

- Before charging, verify the rod is fully extended to its proper stroke length, ensuring that the housing is seated properly. Use a DADCO T-Handle to extend the rod. Hold the spring vertically at all times during filling. When filling a gas spring that does not have a rod end thread (*for example: Micro Series*) initially fill with low pressure (< 70 psi or 4 bar) to extend rod fully; then fill to desired pressure.</li>
- 2. Prepare the Filling Port:

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## **Self-Contained Operation**

- a. Remove the protective screw/flush plug.
- b. Thread the appropriate DADCO Filler Valve into the port.
- c. Connect the female quick disconnect adapter on the charging assembly to the filler valve.

## **Linked System Operation**

- a. Pipe all gas springs to the control panel or multi panel following proper assembly guidelines.
- b. Make sure all hoses and fittings are tight.
- c. Attach the charging assembly to the filler valve on the control panel or multi panel.
- 3. Open the main valve on the nitrogen tank.
- 4. Set the desired charging pressure on the regulator.
- 5. Slowly open the shut-off valve and allow each gas spring to reach the desired charging pressure.
- 6. After each spring has been charged to the desired pressure, CLOSE THE HOSE SHUT-OFF VALVE AND TANK SHUT-OFF VALVE. Disconnect the charging assembly from the gas spring or the control panel. The small amount of nitrogen trapped between the shut-off valve and filler valve will bleed off as you disconnect the fitting.

**NOTE:** If not using a DADCO Charging Assembly, make sure your charging assembly consists of high pressure thermo plastic hose, o-ring face seal fittings, and a high pressure valve.

 Verify the internal pressure by using a DADCO Load Cell, contact DADCO for load cell instructions and additional information. DADCO recommends periodic checking of internal gas spring pressure as a preventive maintenance measure.



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