

# Nitrogen Gas Spring Technical Data

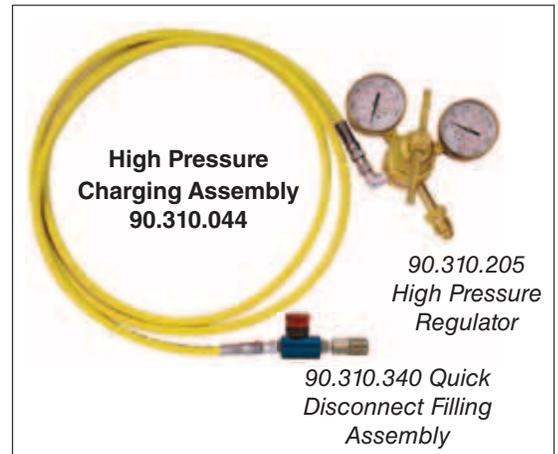
## 90.310.340 Quick Disconnect Filling Assembly

DADCO's new 90.310.340 Quick Disconnect Filling Assembly features a self-venting option. The vent releases residual pressure after charging self-contained or linked nitrogen gas spring systems for easy decoupling between the filling assembly and charging nipple or filler valve. This new, self-venting capable, filling assembly is ideal for high pressure charging and is now supplied as a standard component of the 90.310.044 High Pressure Charging Assembly.

### 90.310.340 Quick Disconnect Filling Assembly



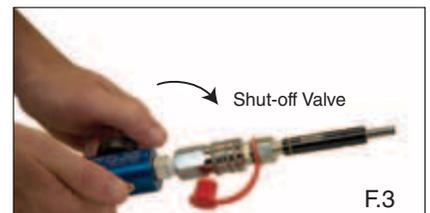
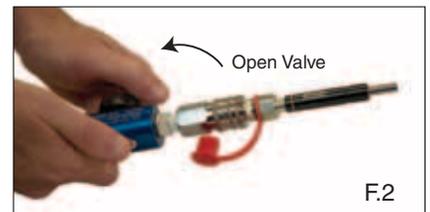
Self-vent not compatible with some components (see bulletin B15122 for details).



## Charging Self Contained 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.

1. Open the main valve on the nitrogen tank.
2. Set the desired charging pressure on the regulator.
3. 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. 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.
4. Prepare the Nitrogen Gas Spring Filling Port:
  - a. Remove the protective screw/flush plug.
  - b. Thread the appropriate DADCO Charging Nipple into the port; 90.310.143 (M6) or 90.310.111 (G 1/8).
5. Connect the Female Quick Disconnect (FA-3) end of the 90.310.340 assembly to the Charging Nipple (F.1).
6. Slowly open the 90.310.340 Shut-off Valve and allow the gas spring to reach the desired charging pressure (F.2).
7. Turn the 90.310.340 Shut-off Valve until it aligns with the **CLOSE AND VENTED** position located on the lower black knob. The small amount of nitrogen trapped between the shut-off valve and Charging Nipple will vent to the atmosphere (F.3).
8. Disconnect the charging assembly from the gas spring. Coupler will easily release with low force. (F.4).
9. If charging multiple gas springs repeat steps 3-8. When charging is complete **CLOSE THE TANK SHUT-OFF VALVE**.
10. Verify the internal pressure of the gas spring 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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