






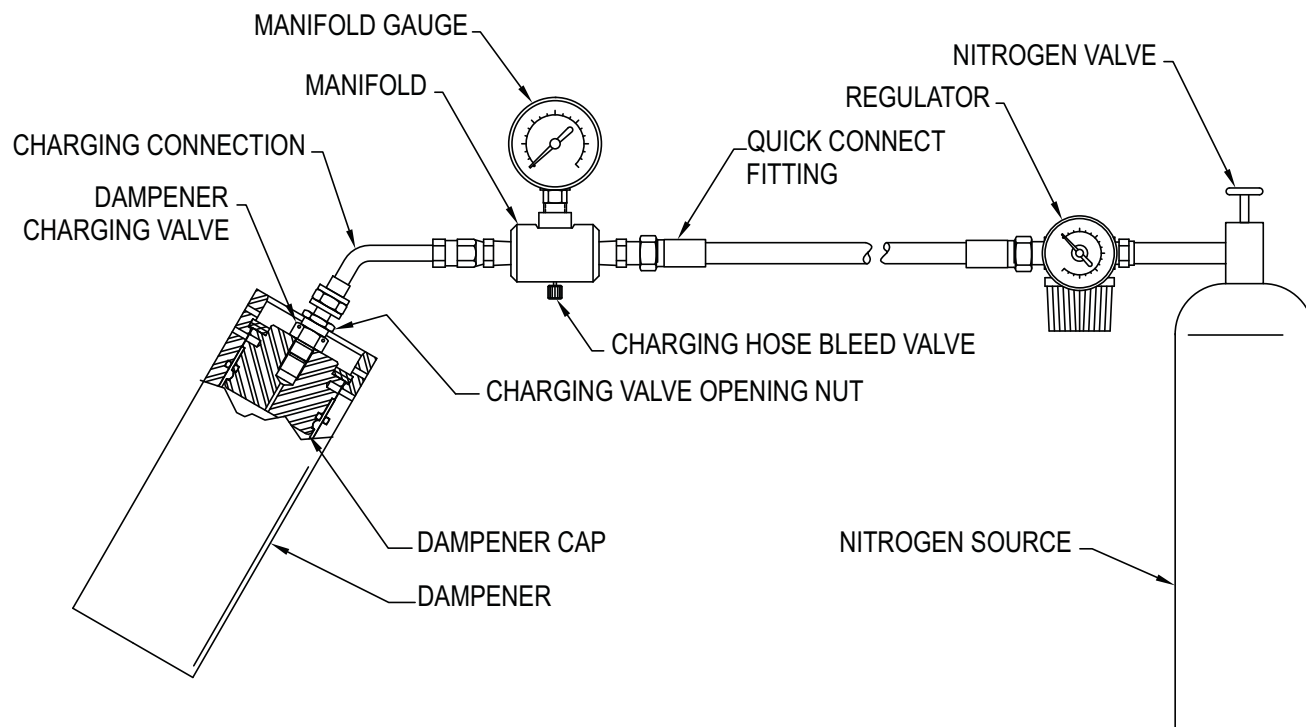


-  **HIGH PRESSURE CHARGING HOSE LIMITED TO 5,000 PSI (344.7 BAR) MAXIMUM CHARGE PRESSURE.**
-  **Only charging systems with components designed to be used at or above the maximum allowable working pressure (MAWP) specified on dampener can be used for charging. The source of Nitrogen (tank or bottle) must be equipped with a regulator set at no more than the MAWP specified on dampener.**
-  **IMPORTANT! High pressure is dangerous. Only qualified persons are allowed to charge, install and repair high pressure models.**
-  Use clean dry Nitrogen only to charge dampener. **DO NOT USE OXYGEN.**
-  **DO NOT exceed maximum allowable working pressure (MAWP) specified on dampener.**
-  Always wear safety glasses and other appropriate safety equipment when installing, charging or repairing dampener.
-  Read and observe all safety warnings and instructions in the dampener Installation and Operation Manual before charging.

1. Install 1/4" NPT fitting end of charging hose to a high pressure regulator at compressed Nitrogen source. Make sure valve at nitrogen source is closed to flow and regulator is set to zero.
2. Connect dampener hose charging connection to dampener charging valve. Tighten by hand and seal with light wrench pressure.
3. Open charging valve opening nut by turning **counter clockwise**.
4. Make sure charging hose bleed valve is closed by turning **clockwise** until tight.
5. Slowly open valve at Nitrogen source and charge dampener to 100 psi (6.8 bar). Close Nitrogen valve and inspect dampener charging valve and dampener cap for leaks by spraying with a solution of soap and water. Inspect retaining rings for proper placement in groove.
6. Slowly increase Nitrogen pressure in dampener until desired pressure (generally 80% of system pressure) is stabilized on charging hose gauge.
7. Close Nitrogen valve and observe manifold pressure gauge for one minute. It is normal for the pressure in the dampener to drop slightly. If pressure drop is more than 5%, repeat steps 3 through 5 above.
8. After desired pre-charge pressure is reached, close Nitrogen valve and reset pressure regulator to zero.
9. Tightly close charging valve opening nut by turning **clockwise**.
10. Slowly open charging hose bleed valve by turning **counter clockwise**.
11. Remove charging hose connection from dampener charging valve.
12. Tightly replace cap on dampener charging valve to prevent slow loss of pressure through charging valve.

FIGURE 1



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