



## CHARGING & DISCHARGING PROCEDURE FOR NITROGEN GAS CYLINDERS

### CAUTION:

NITROGEN GAS SPRINGS OPERATE WITH VERY HIGH INTERNAL PRESSURE. WHEN WORKING WITH A GAS SPRING, NEVER POINT ROD IN ANY UNSAFE DIRECTION AND/OR TOWARDS PEOPLE. NEVER POSITION YOUR FACE IN DIRECT ALIGNMENT WITH THE PORT WHEN CHARGING OR DISCHARGING. NEVER CHARGE A GAS SPRING WITHOUT PULLING THE ROD OUT TO THE FULLY EXTENDED POSITION.

### Charging:

1. Select the proper charging adapter for the Standfast nitrogen spring to be charged. Consult the Standfast product catalog, web site or call the factory for clarification.
2. Remove the sealing screw from the charging port.
3. Thread the charging adapter into the port. Use only light finger pressure to seal the O-ring. Do not over tighten.
4. Next, grasp the end of the rod and pull it out until it stops.
5. Connect the female quick disconnect on the nitrogen supply line to the male quick disconnect of the charging adapter and then charge the cylinder to desired pressure.

### DO NOT CHARGE BEYOND THE ALLOWABLE MAXIMUM PRESSURES!

Maximum allowable charge pressures are:  
2600 psi or 177 bar for CH119's and CH125's.  
2175 psi or 150 bar for all larger sizes

6. When charged, use the brass in-line shut-off valve to stop the flow of nitrogen to the adapter, disconnect the nitrogen line and slowly unscrew the charging adapter from the charge port. A small amount of nitrogen will be released from the fitting itself and you will hear a quick "POP!" when the O-ring on the adapter is pushed out of the way by the existing nitrogen.
7. Replace the sealing screw and place the spring into service.