

# CHARGING & MAINTENANCE



## Maintenance Tools

### Repair & Maintenance Tools

P/N	Description	
RT-01	Bladder Pull Rod 1PT - 2.5 Gal	
RT-02	5 Gal (2 Rods)	
RT-03	10 & 11 Gal (3 Rods)	
RT-04	15 Gal (4 Rods)	
RT-05	Spanner Wrench	
RT-06	Valve Core Repair Tool	

## Pre-charge Gas

Although any inert gas can be used to pre-charge the accumulator, we recommend to use high purity dry nitrogen gas only for pre-charge. Never use shop air or oxygen to avoid any risk of explosion. Accumulators are normally shipped with pre-charge pressure of 25 psi for shipping purpose only unless otherwise specified by the customer differently.

**Accumulator must be pre-charged to the required pressure prior to operation to avoid the risk of bladder failure when commissioning.**

Our general recommendations for nitrogen pre-charge varies by application and are as follows.

**Energy Storage** - 90% of the minimum system operating pressure.

**Shock Absorption** - 60%-75% of the normal working pressure.

**Pulsation Dampening** - 60%-80% of the normal working pressure.

The above recommended pressures must be adjusted taking operating temperatures into consideration. Pre-charge pressure must be checked during first week in operation. Subsequent maintenance should be done 3 to 6 months depending on the severity of the application. High cycling and high temperature applications require maintenance every 3 months.

Storage box included with Charging Kit



## Charging Kits

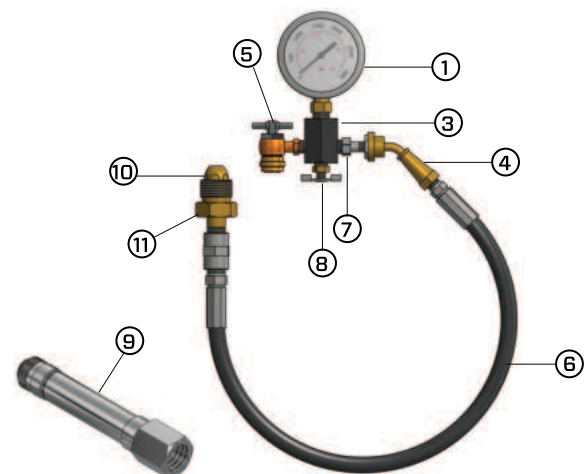
For optimum and reliable operation of accumulators, it is important to fill and maintain the correct nitrogen pre-charge pressure. We recommend checking pre-charge pressure regularly. Charging & gauging kits are designed to fit on a commercially available nitrogen bottles. Charging instructions are provided with charging kit for safe operation.

### Charging & Gauging Unit

Part #	Description
CKT-0030	Charging & Gauging Assy - 3000 PSI
CKT-0050	Charging & Gauging Assy - 5000 PSI
CKT-T-0030	C&G Assy kit - Top Rep. - 3000 PSI
CKM-0030	C&G Manifold Assy - 3000 PSI
CKM-0050	C&G Manifold Assy - 5000 PSI
CKT-US-250	Universal Charging Kit
CKM-026	Diaphragm Charging Kit

### Parts List

Item #	Part #	Description
1	CK-0030	Gauge - 3000 PSI
2	CK-001	Storage Box
3	CK-002	Manifold
4	CK-004	Swivel Connector
5	CK-005	Air Chuck
6	CK-006	Hose Assy - 3000 PSI
7	CK-010	Tank Valve
8	CK-011	Bleeder Valve
9	CK-013	Valve Extension
10	CK-009	Gland Nipple
11	CK-008	Gland Nut



Valve Extension (Required for charging 3000 psi Top Repairable units) included with CKT-T-0030 Kit