

Prestolite Handraulic® Starter Systems, Type B35 & B50

Commissioning Instructions for Prestolite Accumulators Supplied Discharged of Nitrogen Pre-charge.

Important –

- Use only oxygen free dry nitrogen gas.
- Always use a nitrogen regulator valve when the maximum working pressure of the accumulator is lower than the gas pressure in the nitrogen cylinder.
- The discharged accumulator is pre-filled with sufficient lubricating fluid (system hydraulic fluid) and therefore it is not necessary to add fluid prior to charging with Nitrogen.

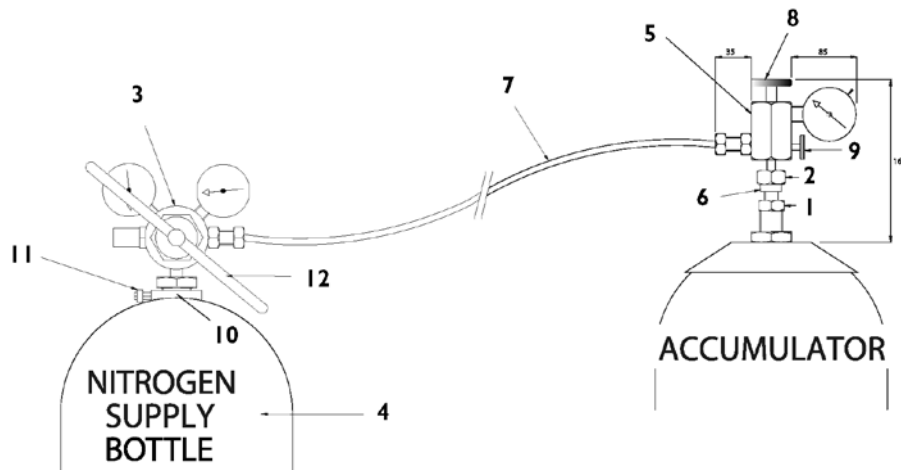
Pre-charging procedure:

The following procedure must be followed to ensure safe pre-charging of accumulators. The below describes the procedure using our pre-charging equipment which is available to purchase on request.

- a) Remove protective cap (1) and gas valve sealing cap (2).
- b) Attach nitrogen regulator (3) to nitrogen bottle (4) (see above).
- c) Ensure handwheel (8) on charging unit (5) is fully retracted & the bleed (9) is fully closed.
- d) Fit charging unit assembly (5) to accumulator gas valve (6).
- e) Connect charging hose (7) between nitrogen regulator (3) and charging unit assembly (5).
- f) Turn the nitrogen regulator handle (12) on the gas bottle anti-clockwise to its minimum/zero output.
- g) Slowly turn the hand-wheel (8) clockwise to depress and open the gas valve core.
- h) Open nitrogen cylinder valve (10) using bottle key (11) gas pressure will be indicated on the right and gauge of the regulator.
- i) Turn regulator handle (12) clockwise until gas pressure registers on left hand gauge. Gradually increase the regulator pressure setting until the pressure is 10% higher than the required accumulator pre-charge pressure.
- j) Check gas pre-charge pressure on charging unit assembly (5). When this is equal to the pressure on the pressure regulator close nitrogen bottle valve (10).
- k) Allow the gas pre-charge to pressure/temperature to stabilize.
- l) If the pressure is too high it can be reduced via the bleed (9).
- m) Turn handwheel (8) on the charging unit fully anticlockwise to seal gas valve (6).
- n) Open bleed valve (9) to vent gas from charging unit, hose & regulator (6).
- o) Remove charging assembly* (5) and connecting hose (7) from accumulator.
- p) Check accumulator gas valve for leaks using leak detection spray or soapy water.
- q) Dry valve & replace sealing cap (2) and protective cap.

The accumulator is now ready for service

***Make sure that you are not unscrewing the gas valve from the accumulator when unscrewing the charging assembly!**



Accumulator Information

Manufacturer:	Prestolite Electric Ltd.
Part Number:	6518-24 / 6518-31
Volume:	1.5 Litres
Test Pressure:	437.5 bar
Working Pressure:	350 bar
Pre-charge Pressure:	193 - 200 bar
Design Code:	PD-5500-2003

Charging Connection: ¼" BSP Male Schrader Valve

WARNING – NOTICE

- ! Isolate or exhaust accumulator before starting procedure.
- ! Exhaust liquid pressure before removing accumulator.
- ! Total gas pressure must be released before attempting maintenance.

This unit is subject to inspection under the Pressure Systems Safety Regulations 2000-SI 128 (PSSR)

Use Dry Nitrogen Only.