

Pre-Loading & Checking Set

Type : PC

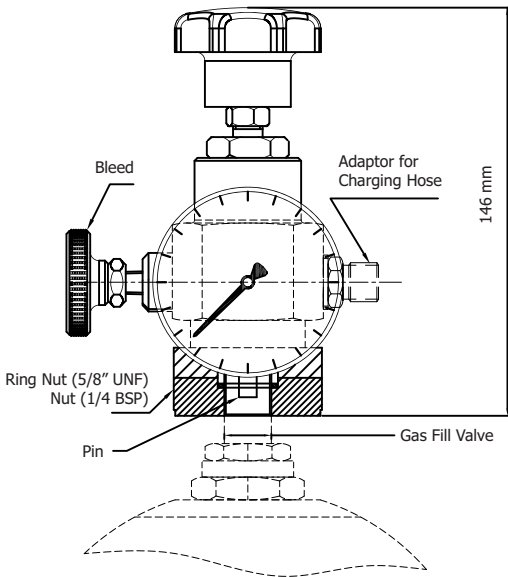
[690 Bar]

General

Used for charging of Accumulators with gas as well as pressure checking and adjustment. When charging, the nitrogen bottles must be capable of delivering pressure higher than the desired accumulator gas pressure.

Construction

Standard version comprises Valve body complete with ring nut connection to accumulator gas valve, pressure gauge, interface adaptor from body to gas bottle, bleed and nitrogen bottle connection. High pressure hose complete with connections. Two pressure gauges (HP & LP) Set of spare gaskets. Carrying case. Adaptor to connect to nitrogen bottle.



Spare Parts

Gasket Set	W40094
Charging Adaptor	BBBBXX
Complete Bleed Assy.	X40057
Charging Hose	010017/(Mtr)
Pressure Gauge	122401/(Bar)

Technical Features

Max. Working pressure :	690 Bar.
Accumulator Connection :	5/8" UNF , 1/4" BSP
Bottle Connection :	Standard - 5/8" BSP
Pressure gauges :	Ø63. Connection - 1/4" BSP(M) HP - 700 bar. LP - 400 bar.
Weight :	1.95 kg (carrying case included)

Identification Code

PC	700/400	-	-	-
Type	Pressure Gauges (full scale range)	Connection to Accumulator	Connection to Bottle	Hose (Mtrs)
PC (Pre-Loading & Checking Set)	700/400 (Standard) On request High Pressure 400-280-210 Low Pressure 700-280-210	- = 5/8" UNF C = 1/4" BSP	- = 5/8" BSP	- = Standard (2 mtrs) On request 1.5 - 2.5 4 - 6 mtrs

General

It is important to keep gas pressure in the accumulator constant and it should therefore be checked periodically by means of **Pre-loading & Checking Unit (PC)**.

The same equipment is used for re-inflating the bladder after serving or replacement.

Connection is made by a special minimess hose to the dry nitrogen bottle with an adaptor.

Pressure Checks

This is a simple operation, the correct procedure is as follows:

- * **Isolate** the Accumulator from the system and reduce the liquid **pressure to Zero**.
- * Remove the protective and sealing caps from the gas valve.
- * Prior to mounting the PC unit ensure that Valve Knob "**A**" is **unscrewed**, Bleed Valve "**B**" is **closed** and adaptor "**C**" is connected to Gas Bottle using Minimess Hose & Bottle Adaptor.
- * Keep the cylinder **shut**.
- * Attach PC unit to the gas-fill valve by means of Ring Nut "**D**" for 5/8" UNF Valves or Nut "**D**" for 1/4" BSP Valves.
- * Screw Valve Knob "**A**" to a point where pressure is registered.

If the pressure is OK remove the PC Kit as follows:

- * Unscrew the Valve Knob "**A**".
- * Open the Bleed Valve "**B**" and unscrew the Ring Nut "**D**".

Pressure reduction

- * Fit PC Unit as described above.
- * Reduce the nitrogen pressure by opening Bleed Valve "**B**" **slowly** while the Valve Knob "**A**" is screwed in until the correct pressure is registered on the gauge.

Increase or reset pre-charge pressure

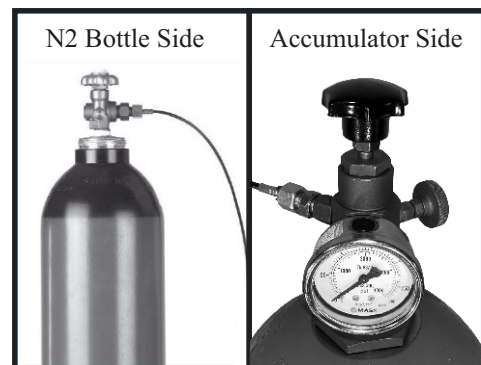
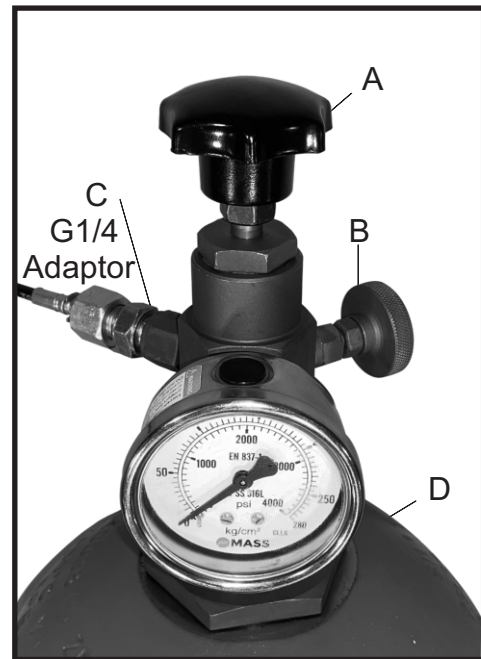
If it is necessary to fill, or to increase the gas pressure, proceed as follows:

- * Fit the PC unit as described above.
- * Fit the bottle adaptor to the nitrogen cylinder.
- * Connect the minimess hose between the cylinder and "**C**".
- * **Slowly** open the valve on the cylinder until the gauge registers a pressure slightly higher than the one desired, then **shut**.
- * Unscrew Knob "**A**" and reduce the pressure on PC Kit to Zero by means of the Bleed Valve "**B**".
- * Close the Bleed Valve "**B**" and wait approximately 5 mins. for the temperature to stabilise.
- * Screw Valve Knob "**A**" until the pressure can be read. This should be slightly higher than the desired pressure.
- * Adjust by means of the Bleed Valve "**B**".
- * Disconnect the hose from the unit, replace cap on "**C**" and remove the filling unit.
- * Use soapy water test for leaks.
- * Replace the valve cover and protection caps.

The Accumulator is now precharged as per the requirement.

IMPORTANT :

ONLY NITROGEN MUST BE USED FOR CHARGING. AIR OR OXYGEN COULD CAUSE AN EXPLOSION.



WARNING

A PRESSURE REDUCING VALVE MUST BE INSTALLED BETWEEN THE NITROGEN GAS CYLINDER AND THE ACCUMULATOR WHEN THE GAS CYLINDER PRESSURE IS HIGHER THAN MAX PERMISSIBLE PRESSURE OF ACCUMULATOR.

Note : Standard equipment PC-700/400 is supplied with two pressure gauges

The high pressure gauge (700 bar) is used for charging and for checking pre-charge pressures higher than 300 bar.

The low pressure gauge (400 bar) is used for pre-charge pressures lower than 300 bar.