



Filters . Accumulators

### 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, bleed and non return snap-in connection.

High pressure hose complete with connections.

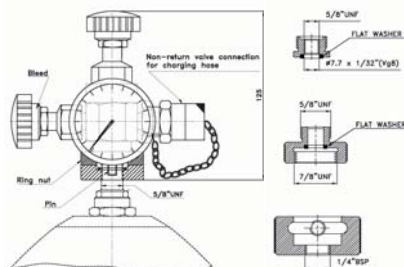
Two pressure gauges (HP & LP)

Set of spare gaskets.

Carrying case.

Adaptor to connect to nitrogen bottle.

**Important Note** : Accumulator connection to be specified (refer identification code)



### Spare Parts

Spare Part	Part No.
Gasket Set	2160
Non-return Valve	2162
Complete Bleed Assy.	2164
Charging Hose	2166/(mtrs)
Pressure Gauge	2163/(bar)
Adaptor-Vg8	50019
Adaptor-7/8" UNF	10143
Ring Nut-1/4" BSP	40054

## EPE PROCESS FILTERS & ACCUMULATORS PVT LTD

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## Pre-Loading & Checking Set, Type-PC



### Technical Features

Max. Working pressure :	400 Bar.
Accumulator Connection :	1) 5/8" UNF (Standard) 2) Ø7.7x1/32" - Vg8 (5/16" UNEF) 3) 7/8" UNF 4) 1/4" BSP
Bottle Connection :	Standard - 5/8" BSP (Internal)
Pressure gauges :	Ø63. Connection - 1/4" BSP(M) LP - 70 kg/cm <sup>2</sup> . HP - 280 kg/cm <sup>2</sup>
Weight :	1.75 kg (carrying case included)

### Identification Code

Type	Pressure Gauges (full scale range)	Connection to Accumulator	Connection to Bottle	Hose (Mtrs)
PC (Pre-loading & checking set)	280/70 (Standard)  On request High Pressure 400-350-210-140  Low Pressure 35-20-10-7	- = Standard (5/8" UNF)  A= 5/16" UNEF/Vg8 B= 7/8" UNF C= 1/4" BSP D= Universal	- = Standard (5/8" BSP)	- = Standard (2 mtrs)  On request 1.5-2.5 4-6 mtrs



Note : Technical specifications are subject to change.

Catalogue Ref. : EPE/NP/001 R-02

## 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 Non-Return Valve "**C**" is **screwed tight**.
- \* Attach PC unit to the gas-fill valve by means of Ring Nut "**D**".
- \* 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 the non-return valve "**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**".
- \* Disconnect the hose from the non-return valve and replace cap.
- \* 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**" & 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.



## WARNING

It is recommended that the gas line is fitted with a safety relief valve when charging accumulators with shell ratings of less than Nitrogen Cylinder pressure.

## Note :

Standard equipment PC-280/70 is supplied with two pressure gauges : the high pressure gauge (280 bar) is used for charging and for checking pre-charge pressures higher than 50 bar.

The low pressure gauge (70 bar) is used for pre-charge pressures lower than 50 bar.

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