

**21.1 General**

If the accumulator has to be stripped for any reason, the following procedure **must be followed in the sequence shown**.

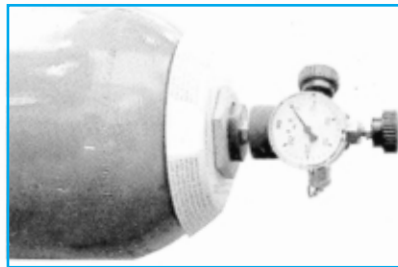
Before removing accumulators for servicing, the gas **pressure must be reduced to zero**. As the liquid connections for the high pressure and low pressure ranges differ (fig. A and B), the procedures will be slightly different. While the bladder is exactly the same in the two types.

**21.2 Dismantling of the accumulator**

First, the accumulator must be cut off and discharged from the liquid pressure and removed from the hydraulic circuit, after that place the accumulator horizontally in a vice then proceed, for both the types, as follows:

- **Remove** the protection **cap** of gas valve.
- **Discharge completely the gas** from the bladder by means of the PC250 unit.
- **Dismantle** the gas-fill valve.

Only at this point the liquid connection can be dismantled.



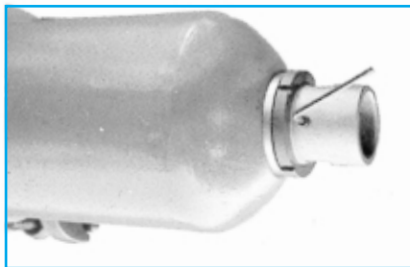
LOW PRESSURE RANGE

HIGH PRESSURE RANGE

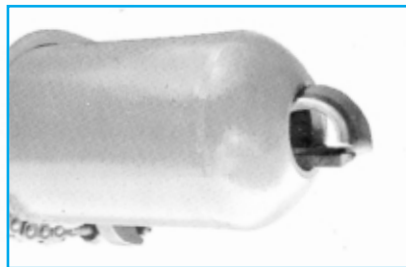


fig. A

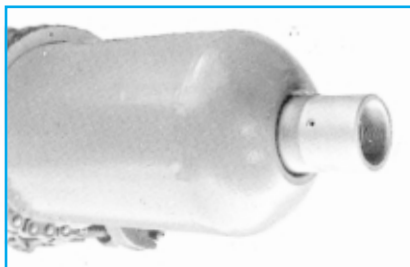
fig. B



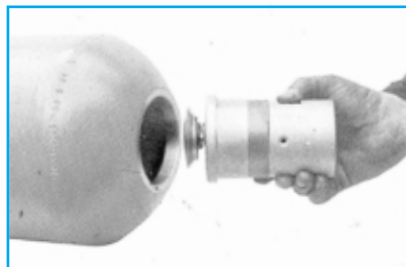
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**HIGH PRESSURE RANGE**

- 1) Remove the bleed screw.
- 2) Remove the ring nut and the spacer ring.
- 3) Push the fluid port body into the vessel and remove gaskets.
- 4) Remove by bending the rubber coated retaining ring.
- 5) Remove the fluid port body.
- 6) Remove the nut that tightens the gas valve and the name plate.
- 7) Remove the bladder from the liquid side by slightly twisting.



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**LOW PRESSURE RANGE**

The opening of the fluid side is released removing:

- The bleed screw
- The spring ring
- The anti-extrusion plate

At this point proceed as for the high pressure range removing the nut that tightens the gas valve and the name plate and, finally, removing the bladder with the gas valve from the liquid side.

### 21.3 Cleaning and inspection

Clean carefully all the components including the bladder and the inside of the accumulator body.

Mainly check that:

- THE BLADDER is not **worn, damaged** or **with bulges** due to not suitable liquids.

- THE POPPET VALVE slides freely, that the **spring** is not damaged and that the **selflocking nut** fixing the brake bushing is tighten carefully.

- GASKETS AND SEALS are not worn.

- THE INTERIOR SURFACE of accumulator body doesn't have cracks or signs of failure.

**REPLACE ALL SUSPECT AND WORN PARTS. THE BLADDER CANNOT BE REPAIRED.**

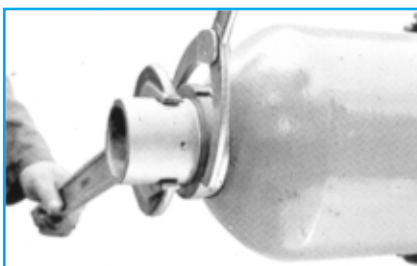
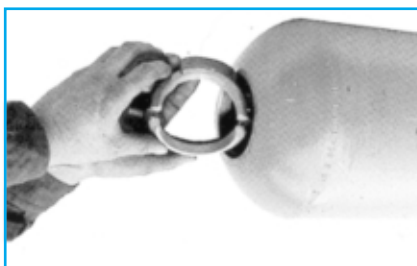
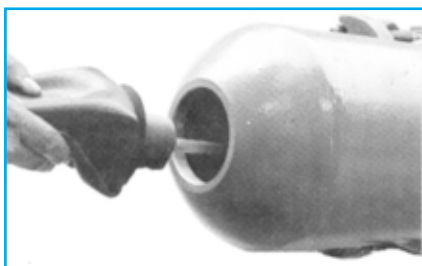
### 21.4 Bladder - gas valve assembly

If the bladder have to be replaced and the gas valve is in good condition, it is possible to fit the new bladder to the old gas valve (or viceversa) taking care to ensure that the edge of the mouth piece makes a **perfect fit** with the valve seat. Then the valve is put into place, by means of hands, pressing on the rubber coated washer until it is no longer possible to remove it unless force is used. The bladder can now be inserted into the accumulator.



### 21.5 Assembling of accumulator

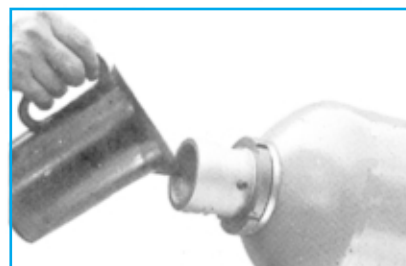
Ensured that all components are in good conditions and **perfectly clean**, reassemble in the following order:



#### HIGH PRESSURE RANGE

- 1) Insert the bladder (for large sizes use a threaded tube M 12 x 1,5).
- 2) Mount the name plate and the nut of the gas valve body.
- 3) Tighten the nut holding the gas valve stem with a spanner.
- 4) Insert the liquid valve and then the rubber coated retaining ring.
- 5) Locate the valve on to the support ring fit gaskets and spacer ring.
- 6) Tighten the ring nut making sure the assembly is centrally located.
- 7) Fit the bleed screw with gasket. Pour a small quantity of liquid into the accumulator in order to lubricate the inside.

Finally mount the gas-fill valve, precharge the accumulator according to instructions of section 20.4 and tighten again the gas valve nut.



#### LOW PRESSURE RANGE

Proceed as for the high pressure range introducing the bladder and fitting it with the proper nut.

**Then insert** the anti-extrusion plate into the liquid connection, fastened by the spring ring (ensure perfect location on the seat).

Finally fill according to instructions section 16.4 and **tighten again the gas valve nut**.

The accumulator can now be installed in the system (ref. section 19.3 and 19.4).