

OLAER INDUSTRIES GmbH Zum Gunterstal 4 D-66440 Blieskastel
 Tel.: 06842 / 92 04-0 Fax: 06842 / 92 04-15 E-Mail: info@olaer.de Web: www.olaer.de

Repair instructions bladder accumulator series IBV / EBV



Fig. 1



Fig. 2



Fig. 3

DISMANTLING THE ACCUMULATOR

- Disconnect and close the accumulator inlet and discharge the hydraulic fluid from the accumulator.
- Remove the accumulator from its mounting and lay it horizontally in a vice or other fixation system. Take care not to damage the accumulator.
- Unscrew the protective cap(s). If necessary remove the lead seal from the protective cap(s).
- Deflate the bladder using OLAER tester and pressurize instrument (**Fig. 1**). Operate the tester and pressurize instrument as described in its manual.
- Unscrew the gas inlet valve (**Fig. 2**).
- Release the gas inlet valve sub-assembly nut and remove the name plate (**Fig. 3**).
- Unscrew the flange or reduction from the hydraulic fluid end. Dismantle the venting screw (not used with every model), take care on the seal.
- With the accumulator completely free of pressure gas and fluid, a loose fit of the grid has to be detected.
- If this is not the case all further work has to be stopped! Please contact OLAER! (**Fig. 4**).
- Remove the spring ring (**Fig. 5**).
- Remove the grid (**Fig. 6**).

Fig. 4



Fig. 5



Fig. 6





Fig. 7



Fig. 8



Fig. 9

- Remove the bladder through the fluid end opening (Fig. 7).

CLEANING, INSPECTION AND REPAIRS

- Carefully clean all metallic parts of the accumulator with compressed air.
- Inspect the vessel for any internal damage.
- Check that the bladder has no sign of wear of major frictional wear or other damage.
- Under no circumstances attempt to repair the bladder.
- Replace all worn or damaged parts.

ASSEMBLY

- Ensure that no foreign bodies are in the accumulator.
- To facilitate the reassembling of bladder, smear it and vessel interior with the system hydraulic fluid.
- Press the upper part of the bladder together and feed in through the hydraulic end opening (Fig. 7).
- Lightly screw the name plate and gas inlet valve sub-assembly nut on (Fig. 8).
- Check that the bladder is either folded or twisted.
- Insert the grid into the accumulator shell until it reaches its stop (Fig. 9).
- Reinstall the spring ring (Fig. 10).

- Before mounting the reduction on the hydraulic end, inflate the bladder slowly with nitrogen to a pressure of 1 - 1,5 bar with the tester and pressurizer instrument. Operate the tester and pressurizer instrument as described in its manual (Fig. 11).
- Mount the venting screw (not used with every model) and gasket.
- Tighten the name plate and gas inlet valve sub-assembly nut fully (Fig. 12).
- Inflate the accumulator to the precharge pressure required by the system.

FIRST OPERATION

"Please note doc 6.120!"

Before pressurizing the system, vent via the venting screw if used. Retighten the screw carefully as soon as the hydraulic fluid has left the vessel finally

No welding/soldering or mechanical operations of any kind must be undertaken on the accumulator!

Hydropneumatic accumulators are subject to official pressure vessel regulations. These regulations demands, that the accumulator must be inspected on a regular basis. The interval between inspections varies from state to state.

Request the appertaining intervals for your operation from the authorities responsible.

Fig. 10



Fig. 11



Fig. 12

