



Installation and Repair Manual

Bladder Accumulator SHBS/BS

GB

SERVI GROUP
+47 64 97 97 97
post@servi.no
www.servi.no

Installation and Repair Order Bladder Accumulator SHBS/HBS

General remarks

This installation and repair instruction for the bladder accumulator SHPS/HBS assumes that the operating instructions (1_HBS_Betriebsanleitung_xxx-de-eng) are taken into account. The installation and repair instruction only serves as additional information.

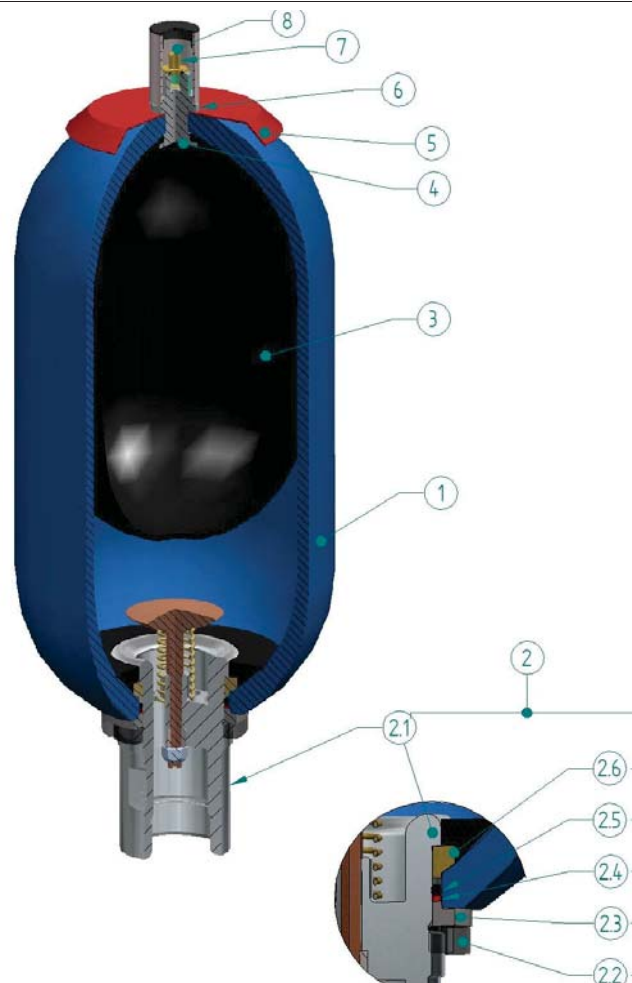
The standard bladder accumulator HBS has been designed, manufactured and tested in accordance with the European Pressure Equipment Directive PED 2014/68 /EU. International regulations or special applications may require c.c. Special acceptances and / or further instructions (ATEX storage no. RL2014 / 34 / EU).

Strict adherence to the instructions and recommendations are provided in this document and all other relevant documents are absolutely necessary to operate the accumulator. The supplier assumes no responsibility for direct or indirect property damage or other personal injury as well as for consequential damage, as follows: operational failure resulting from non-compliance with the following instructions.

For commissioning and operation, all instructions must be followed and according to the valid, national requirements of the installation site. The adherence of the current instructions underlie the responsibility of the operator. The documentation supplied with the hydraulic accumulator must be stored carefully. They are necessary for operation, audits and inspections.

Work on hydraulic accumulators may only be carried out by qualified personnel.

Improper handling can result serious or even fatal accidents.

Installation and Repair Order Bladder Accumulator SHBS/HBS


Pos.	Art-gruppe / group	Bezeichnung / Designation	Stk. / pcs.	Zeichnung / Drawing	Werkstoff / Material
1	HBS-K	Speicherkörper / shell	1	EPU_100100_A	Normalstahl
2	HOV	Ölventil komplett / fluid valve complete	1	EPU_100102_A	Normalstahl / Edelstahl * / Elastomer
2.1	HOV-K	Ölventil montiert / valve corp assembled	1		Normalstahl / Edelstahl *
2.2	HOV-M	Nutmutter / lock nut	1		Normalstahl / Edelstahl *
2.3	HOV-Z	Distanzring / spacer	1		Normalstahl / Edelstahl *
2.4	Typ 90	Stützring / backup ring	1		PTFE
2.5	R00_	O-Ring	1		Elastomer
2.6	HOV-R	Haltering / divided ring	1		Normalstahl / Edelstahl * / Elastomer
3	HBS-B	Blase / bladder	1		Elastomer
4	HGV-K	Gasventilkörper / valve corp	1		Normalstahl / Edelstahl *
5	HBS-T	Typenschild / name plate	1		Aluminium / Edelstahl *
6	HGV-M	Haltemutter / holding nut	1		Normalstahl / Edelstahl *
7	HGV	Gasfüllventil / gas charging valve	1		Normalstahl / Edelstahl *
8	HGV-S	Schutzkappe / protection cap	1		Normalstahl / Edelstahl * / Plastik

Note: Normalstahl = Carbon steel Elastomer = Elastomer
 Edelstahl = Stainless steel Plastik = Plastic

Installation and Repair Order Bladder Accumulator

5) The liquid valve is completed with the O-ring, support ring, spacer ring and locknut (please keep the order!). After screwing on the locknut, center the parts by carefully slapping the fluid valve from different sides with a plastic hammer and at the same time screwing the locknut on the external thread of the fluid valve by hand. (Fig. 4)
Then tighten the locknut with a suitable tool.

Optional: For liquid valves with bleed screw:
Install bleed screw with sealing ring on the fluid valve. (Fig. 5)



(Fig. 5)



(Fig. 6)

6) Secure the nameplate and retaining nut on the gas valve body with a suitable and calibrated torque wrench. The tightening torque of the retaining nut is 100 Nm.
Then the gas filling insert should be screwed in with a valve wrench and fixed appropriately (0.45 Nm). (Fig. 6)

7) Screw on the testing and filling device and carefully fill the bladder with nitrogen under a pressure of about 1 - 1.5 bar until the movement of the valve lifter causes the closing of the liquid valve.
(Handling of the testing and filling device according to the operating instructions!)

8) Check the tightness of the gas valve by using a leakage search spray. Small protection cap for gas valve body and install outer protective cap.

9) In order to avoid contamination of the accumulator interior, a protective cap at the internal thread of the liquid valve have to be attached in case of a storage of the accumulators.

Final inspection:

- Visual inspection, regarding the completeness of the hydraulic accumulator