

ACCESSORIES GAS SIDE

VG U TESTER AND PRESSURISER

OSP 746

Description VG U

The universal tester and pressuriser unit is used for checking, charging and emptying the most commonly used accumulators. It is screwed onto the shock absorber gas valve and connected to a nitrogen source and its pressure reduced by means of a high pressure charging hose. If only the pre-charge pressure needs to be checked, the connection of the charging hose is not necessary.

The VG U unit is delivered in a case comprising:

Universal tester and pressuriser unit with a threaded connector

- M 28 x 1,5. • A manometer
- An adaptor to connect the unit to the gas intake valve
- (G ¼^{*}, ⁷/₈", ⁵/₈", 8V1, M 28 x 1,5).
 A high pressure charging hose of 2,5 m to connect the unit to a
- nitrogen source.
- An Allen key 6
- Spare seals
- Manuals in English, French and German.

The following items can be ordered optionally:

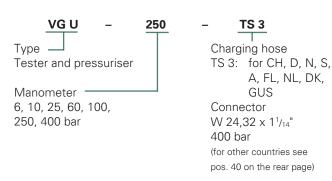
- Manometers with different scale graduations: ø 63 with glycerin filling, G¼" connection and direct connection for Minimess. Graduations: 0 to 6, 0 to 10, 0 to 25, 0 to 60, 0 to 100, 0 to 160, 0 to 250, 0 to 400 (accuracy = 1,6 %).
- High pressure charging hoses of various lengths with adaptors for connection to gas cylinders of various countries (please indicate the country).

Maximum permitted operating pressure:

Limited to the maximum operating pressure of the connected components. Maximum 400 bar. For higher charging pressures up to 550 bar use type TS6 charging hoses.



Type code



Handling VG U

Preparation

Before any pre-charge check and/or nitrogen pressurising, the hydraulic fluid of the accumulator must be discharged.

Accumulator with gas valve:

- Turn the star knob (pos. 6) anti-clockwise until the stop.
- Remove the protective and/or seating cap of the gas valve.
 Screw the tester and pressuriser unit onto the gas valve using the
- Screw the tester and pressuriser unit onto the gas valve using the adapters pos. 25, 30 or 48 (+ connector pos. 36 when using Schreder valves).
- Move the manometer into a convenient position for reading and tighten spigot nut (pos. 5) by hand.
- Check that the relief valve is closed (turn centre-grooved dowel pin pos. 20 clockwise).

Accumulator with screw valve:

- Turn the star knob (pos. 6) clockwise until the stop.
- Remove plastic cover of screw valve.
- Loosen the screw valve with Allen screw width A/F 6.
 Screw the tester and pressuriser unit without adapter on the screw
- valve.
 Move the manometer into a convenient position for reading and tighten the spigot nut (pos. 5) by hand.
- Check that the relief valve is closed (turn centre-grooved dowel pin pos. 20 clockwise).

Checking the pre-charge pressure

Turn the star knob (pos. 6) anti-clockwise to open the gas valve or the Allen screw to read the pressure on the manometer.

Reducing the pre-charge pressure

Turn centre-grooved dowel pin (pos. 20) of the relief valve slowly anticlockwise to exhaust nitrogen.

Pressurizing / Raising the pre-charge pressure

- Attach the charging hose to the non-return valve (pos. 7) and to the nitrogen cylinder.
- Open the stop valve on the nitrogen cylinder carefully. Let the nitrogen flow slowly into the accumulator, until the desired pre-charge pressure is reached.
- Close the stop valve on the nitrogen cylinder. After 5 to 10 minutes (temperature compensation), check the pre-charge pressure again and correct, if necessary as indicated in the following paragraph.

For pre-charge pressures higher than the existing nitrogen cylinder pressure the nitrogen charging unit SLG 1.1 (up to 400 bar) can be used - see data sheet OSP 761.

Removing

- Turn the star knob (pos. 6) anti-clockwise.
- Turn centre-grooved dowel pin (pos. 20) anti-clockwise.
- Remove the unit.
- Tighten the screw valve with Allen screw width A/F 6.
- Check the gas valve or the screw valve for leaks using a leak detection foam.
- Replace the protective and/or seating cap of the gas valve by hand.

Caution:

- Never use oxygen to prefill the shock absorber.
- Where the nitrogen cylinder pressure is higher than the permitted accumulator working pressure, a pressure reducing valve must be used in between!

Spare part list

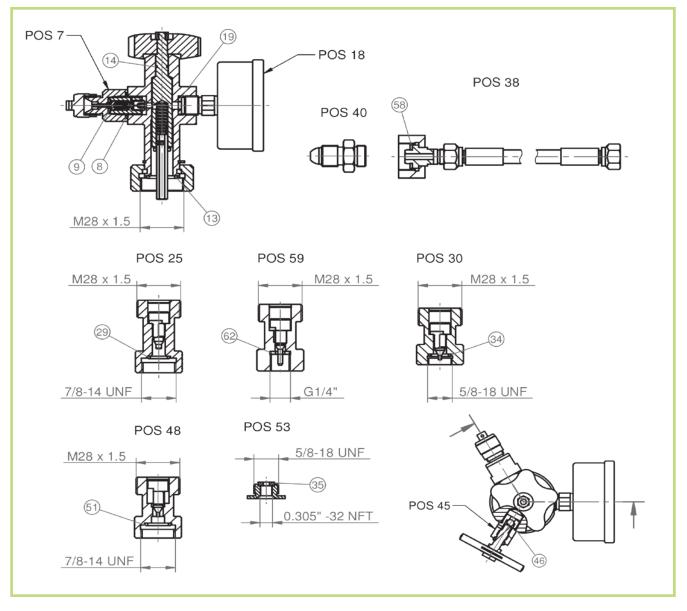
For VG U Tester and Pressuriser.

Pos.	Designation			
7	Non-return valve			
18	Manometer			
25	Adaptor SAE 7/8" - 14 UNF compl.			
30	Adaptor SAE 5/8" - 18 UNF compl.			
37	Gasket set			
38	Charging hose TS3			
40	Connectors for foreign nitrogen cylinders			
45	Relief valve			
48	Adaptor SAE 7/8" - 14 UNF to accumulator 690 bar			
53	Connector 0.305" – 32 NFT compl.			
59	Adaptor G¼" compl.			

Gaskets Pos. 37

Gaskets can only be ordered as a set.

Pos. 37	contains the following gaskets
8	O-Ring
9	Flat seal
13	O-Ring
14	O-Ring
19	Copper seal
29	O-Ring
34	O-Ring
35	Flat seal
46	O-Ring
51	O-Ring
58	Flat seal
62	Flat seal



Connection	Pos. / Reference	For accumulators
M28 x 1,5	incl. in VG U	Diaphragm accumulator with gas screw valve
⁷ /8"-14 UNF	Pos. 25 / Ref. 202127-00233	Bladder accumulator including connection 7/8"-14 UNF and integrated Schrader valve
⁵ /8"-18 UNF	Pos. 30 / Ref. 202130-00223	Bladder accumulator 0,2; 0,5; 1,6 litre / 10K at 50 litre / 100 to 530 litre
⁷ /8"-14 UNF	Pos. 48 / Ref. 202135-00223	Bladder accumulator 1; 2,5; 4; 5; 6; 10 litre / 1 to 50 litre, 690 bar
0,305"-32 NFT	Pos. 53/ Ref. 202140-00200	Half-bladder accumulator ELG type membrane (with Schrader valve)
G1⁄4"	Pos. 59/ Ref. 202211-00220	FCH Accumulator

Used to determine the tester and pressuriser unit adaptor.