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Accumulator accessories control set VG3

Description

The control set VG 3 is used for charging bladder- and piston accumulators with nitrogen and for testing or changing the existing precharge pressure. It is screwed on the gas valve of the accumulator and connected with the attached hose to a commercial nitrogen vessel. If the maximum allowable operating pressure of the accumulator is lower than the maximum allowable operating pressure of the nitrogen vessel, a pressure-reducing valve with gas relief valve must be inserted

The complete control set consists of:

- control set with manometer
- Check valve at the filling connection
- inserted relief valve
- Valve stem to open the gas valve at the accumulator
- Charging hose, length 2 m
- plastic protection suit-case

Handling

Preparation

- Before each examination or before filling up and/or refilling with nitrogen the accumulator is to be relieved on the liquid side.
- unscrew the protection cap of the gas valve
- screw control set with adaptor on the gas valve
- move manometer into convenient position for reading and tighten the knurl nut by hand
- check if the relief valve is closed. Close T-handle in the clockwise direction.

Check of gas pressure

Turn the knurled knob in the clockwise direction. Thus will open the gas valve and the pressure can be read off on the manometer.

Reduction of the gas pressure

Adjust the T-handle of the relief valve slowly counter-clockwise direction. The nitrogen is released into the surrounding air.

Increase/Filling up of the gas pressure

- connect the charging hose on end to the connector piece and the other to a commercial nitrogen bottle.
- Open the stop valve on the nitrogen bottle carefully. Allow the nitrogen to flow into the accumulator slowly until the desired precharge pressure is reached.
- close the stop valve of the nitrogen bottle. After 5 – 10 minutes (temperature equalizing) check the charge pressure as described above and correct when necessary.

Dismantling

- turn the knurled knob back.
- rotate the T-handle in the counter-clockwise direction to depressurize the system.
- unscrew the instrument.
- check the gas valve with a foam-forming substance.
- screw the protection cap again and tighten by hand.

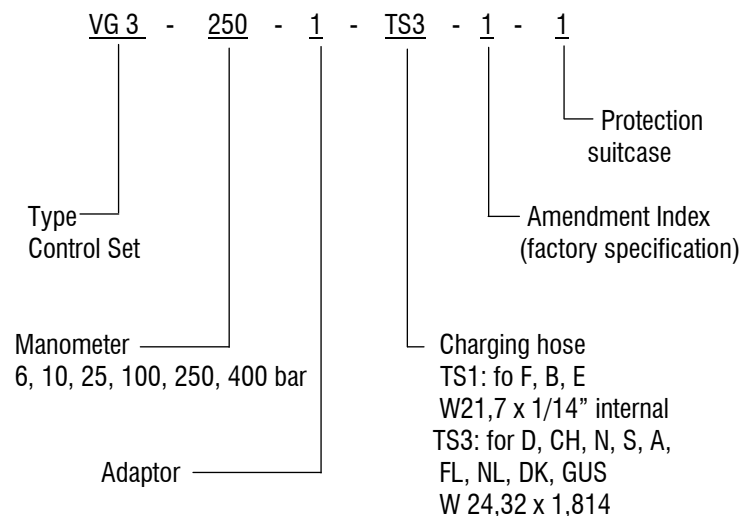
Attention!!!

For filling use only inert gases , never oxygen or air!
DANGER OF EXPLOSION!!

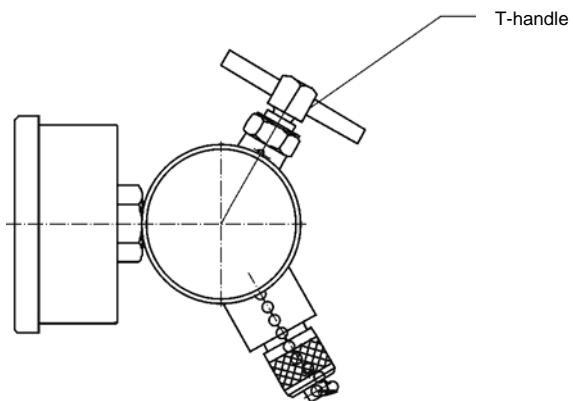
If the pressure of the nitrogen bottle is higher than the allowable working pressure of the accumulator a pressure limitation valve must be fitted.



Type Designation



The following connecting adaptors for foreign nitrogen bottles are available:



| | |
|-----------------|------------------------|
| GB/AUS | R 5/8" external |
| USA | 24,51 x 1/14" external |
| Italy | 21,7 x 1/14" external |
| Japan | 22 x 1/14" internal |
| Japan | W 23 x 1/14" external |
| Brazil | R 1/2" internal |
| F,B,E | 21,7 x 1/14" internal |
| China | M 22 x 1,5 internal |
| China | 5/8" internal |
| Malaysia | G 7/8" external |
| Trinidad | 7/8" - 14 UNF external |
| Bulgaria | 3/4" internal |
| The Philippines | W 23 x 1/14" left |

