

General Test Procedure for 20-L-Apparatus

Production and Distribution: **TÜV SÜD Schweiz AG**
Mattenstrasse 24, CH-4002 Basel, Switzerland
www.tuev-sued.ch products.bs@tuev-sued.ch

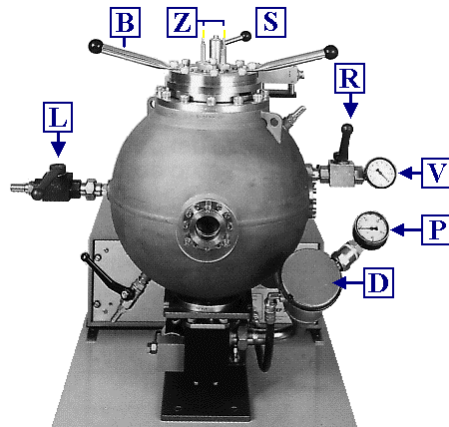
Development and Software: **Cesana AG**
Baiergasse 56, CH-4126 Bettingen, Switzerland
www.cesana-ag.ch info@cesana-ag.ch



Procedure for the CaRo-Test

- **Indices**

- **B** - Bayonet ring
- **D** - Storage container
- **L** - Outlet Ball valve
- **P** - Pressure manometer
- **R** - Vacuum Ball valve
- **S** - Safety switch
- **V** - Vacuum manometer
- **Z** - Ignition lines



- **Connect to the water supply.**

- Open the inlet water ball-valve.



- **Connect exhaust**
to the outlet ball-valve (L).



- **Set air pressure:**

- The air pressure must read 20 bar.



- **Turn on KSEP332.**



- **Start the program KSEP 7.1**



Before starting with the test dust, it's recommended to do first a test check.

see KSEP-manual

- **ESD Protection.**



- **For manipulations with the chemical-igniters you must be ESD-protected**



- **Placing of the igniters.**

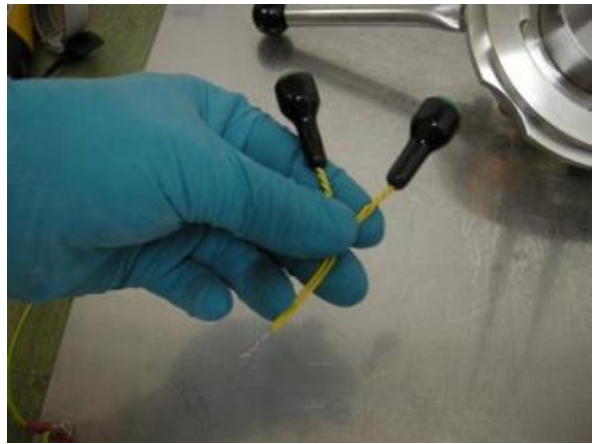
- Remove the bayonet-ring (B) from the sphere-20L.



- **When manipulating the chemical-igniters, they should never be pointing towards your body !**



- That's how it should be done.



- **Don't connect the ignitor this way !**

➤ Damage of the wire is possible.



- **This is the correct way to connect the chemical-ignitors.**



- **Don't place the ignitors this way**



- **This is the correct way to place the chemical-ignitors. The two ignitors are firing horizontally and in opposite directions.**



- Turn the bayonet-ring (B) on the sphere until final position.
 - The safety switch (S) can be closed now.



- Plug the ignition-lines into the electrodes (Z).



Start with the Test dust. see KSEP-manual

- **Weigh the dust accurately.**



- **Fill dust into the storage container (D).**



- **Try to put the dust as deep as possible into the storage container(D).**



- **Close cover of Storage container (D).**

- Make sure it is well closed.



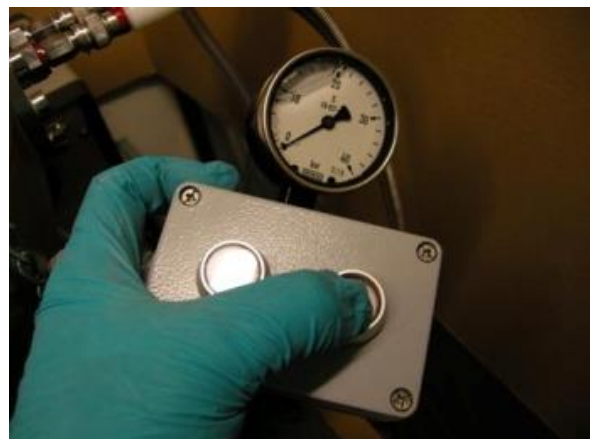
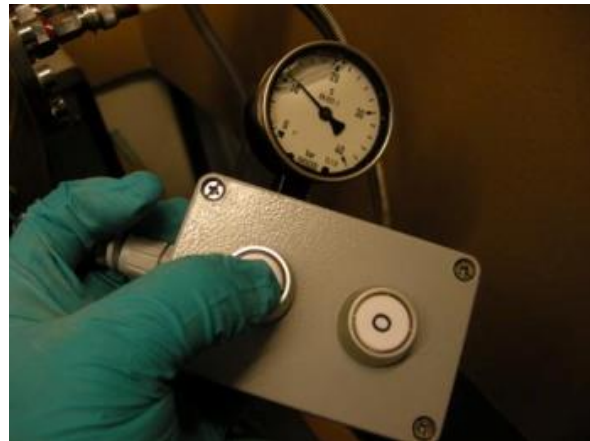
- **Procedure after each shot.**

- **To clean after the shot, rinse the sphere:**

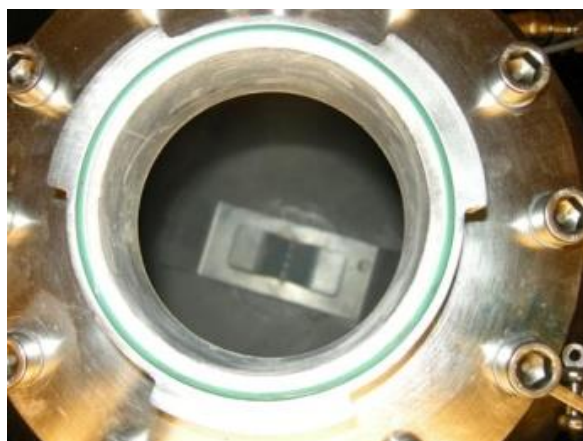
- Open the ball valve (L) – venting.



- Rinse the apparatus with compressed air by alternately pushing the buttons (I) and (O) on the manual control (approx. 3 times)



- **Open the sphere and remove residues with a vacuum cleaner.**



- storage container (D): remove remaining dust with a vacuum cleaner.

