

# Cryogenic Vessel Shut-off Valve Re-Setting Tool & Valve Notes

**MG-97 valves are cryogenic valves with a spring loaded release sensor, housed under the stainless steel protection cap. The release unit keeps the valve in the open position at all times unless the sensor is tripped on seeing a pressure higher than the Cryoguard set pressure. On tripping, the valves MUST only be re-opened using the MG97-RT tool.**

## PART NUMBERS

**MG-97-RT** Stainless steel MG97 Re-Setting Tool

## RE-SETTING PROCEEDURE

- Remove hood following unscrewing of the 2 screws of the manufacturer's name plate.
- Insert the pin at the brass knob of the clamping device into the vent valve and de-pressurize the pneumatic switch. At the end of the venting process, the pneumatic switch is reset
- Put the positive-locking plug socket of the clamping device on the spindle and turn by 90°.
- Lift the spindle up to the lift limiter with the clamping lever (noticeable deflection) and slowly release it again. The spindle now locks into place and the safety shut-off valve remains in its open position.

## INSTALLATION & OPERATIONAL NOTES

**VALVE** - The valve forms part of the filling line after the filling connection and before the fill valves. If the MG-97 is installed on the tank in a deflection-resistant and torsion-proof manner, the influence of valve closure by rough handling of the coupling is minimized.

**VALVE SET PRESSURE** - The valve set pressure is typically set at the mid-pressure between the safety valve and bursting disc pressures.

**SENSOR** - The valve sensor has an A-LOK 1/4" connection. The connecting line to the release unit should be as direct as possible to minimize pressure losses, be free of tension and be tamper-resistant. The sensing gas pressure line should be taken from the gas space of the storage vessel. Should maintenance of the valve be required then a LOCKABLE full flow valve can be installed in the sensing line.

**VESSEL FILLING NOTE:** At a differential pressure of  $\geq 37$ psi any liquid trapped between the fill valves and the MG97 will be relieved as the MG97 opens as a check valve.

**VALVE SET PRESSURE** - The valves are supplied at the ordering closing pressure and are NOT adjustable unless returned to the factory in the original sealed bag.

## RE-SETTING THE VALVE

Note: It is recommended to record inspection results and the causes of any release in writing:

1. Clamping device
2. Plug socket
3. Valve spindle
4. Release unit (pneumatic switch)
5. Pin (inserted into the vent valve)
6. The MG97

