

### INSTALLATION

### STORAGE

Keep the "MEGA SUPERVENTIX" safety relief valve in original packaging, until ready to use. This prevents ingress of dust and protects against impact damage.

### OPERATING

The pressure relief valve (PRV) is designed to be installed on pressurized tanks static or transportation application. The main function of the relief valve is to quickly evacuate the over pressure of the tank specially in case of fire, the high flow capacity of the valve allow this quick flow relief (refer to specification sheet for flow rate values).

Check the compatibility between safety relief valve material and fluid before operating.

The valve operates as following :

The pressure setting is admitted to be 1,1 x tank pressure service. This pressure setting is attained by the spring set compression on the pressure plate. When the set pressure is reached, the pressure plate opens and allows the over pressure to be evacuated, then where the pressure balance is reached the pressure plate closes.

In case of high pressure increase, the pressure plate translation is about 23 mm to open a maximum of surface to allow a high flow evacuation. The set pressure range is 0,5 to 7,4 bar. Service temperature -40°C to 190°C. A vacuum relief function can also be added and set from 0,05 to 0,41 bar.

### ASSEMBLY

Before assembly check the PRV set pressure is compatible with tank MAWP and the carried cargo with PRV material.

**The relief valve should be installed in protected area where there is no risk for an operator to be in contact with the gas or liquid when valve opens in case of over pressure in the tank.**

Make sure the "Mega-SUPERVENTIX" safety relief valve is compatible with the working pressure of the tank.

The valve set pressure is 1.1 x Tank MAWP.

1. Remove the protective cap from the 2 1/2 " BSP thread.
2. Remove the gauze temporarily fitted on the valve.
3. Make sure that no dirt or grit is present on the receiving flange & gasket and that the threads are perfectly clean.
4. Manually screw on the valve with gasket (or bursting disc ND65). Then keep turning until firmly tight using a 'C' Spanner. Tightening torque settings depend on the setting gasket material:

Perbunan / PTFE gasket : **80 N.m ± 5**

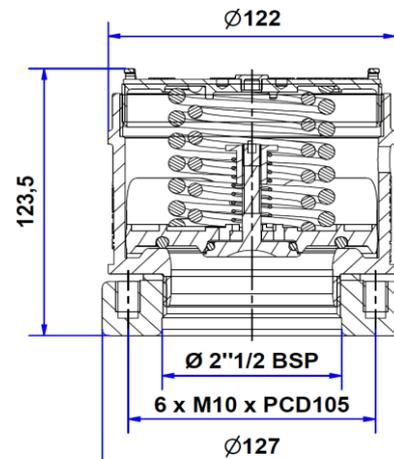
Composite / PTFE gasket: **230 N.m ± 5**

PTFE gasket: **240 N.m ± 5**

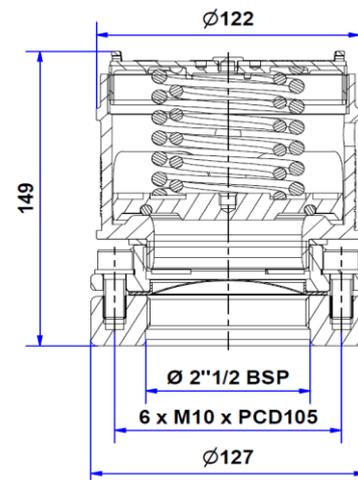
**CAUTION : Do not remove the wire weld seal between the body and cover to avoid to lose the warranty before first periodical check.**

The valve can be sealed to the tank using the wiring clamps located on the valve cover.

In case of installation of bursting disc and adaptor flange, the 6 screws M10 of adaptor flange should be tightened with **30 N.m ± 5**



Without Bursting Disc



Bursting Disc Assembly

