



Additional Instructions for “CE” Marked Products – PROS Family

OVERVIEW: The information listed in this document must accompany the Installation Instructions for the OSECO Product Lines approved for the CE symbol. This information will address the possible residual hazards of OSECO’s approved products in accordance with the requirements of the PED and EN ISO 4126-2.

PROS, Reverse Acting, Compression Loaded, Sanitary Rupture Disk for Tubing Fittings, No Holder

This product line is not considered a fail-safe rupture disk design. Great care must be exerted to properly install the rupture disk. If this rupture disk is installed upside down in either the tubing fitting or installed correctly in the tubing fitting and the assembly is installed upside down, the disk will burst below the name plate rating. This rupture disk design has a ratio of no less than 4.0 for the conventional burst pressure (tension) over the reversal pressure.

Thus, if a pressure containing system is hydrostatically tested at 1.5 times the maximum allowable working pressure, this disk could subject the system to a pressure greater than the pressure observed during the hydrostatic testing if not installed properly. Thus, caution must be exercised to achieve a correct installation of this rupture disk.

Damage to this rupture disk design, i.e., some object impacts the rupture disk dome changing the stress resisting characteristics, will alter the name plate burst pressure rating. Examples of this type of damage are placing the disk dome down on a work surface, resting hand tools on the disk dome, dropping the disk on the edge, forcing the dome into the inlet instead of placing the outlet over the dome, etc. These examples are listed for illustration only and do not preclude other similar actions during handling of the PROS disk. These actions cause the disk to burst lower than the name plate rating.

The PROS rupture disk is a non-fragmenting rupture disk because of the scoring technology utilized in fabricating this rupture disk. This technology prevents PROS fabrication in the Titanium and Zirconium materials. It is also not available in Hastelloy C276 due to material availability.

Service life for the PROS rupture disk is defined as the number of cycles achieved from atmospheric pressure to ninety (90) percent of the disk rated pressure. This is typically the forming pressure used in the final stage of manufacturing to set the reversal pressure for a lot of rupture disks. PROS rupture disks will cycle approximately 1,000,000 times between the pressure limits illustrated above.