It is primarily used as a safety device for flame transmission proof in- and outbreathing on tanks, containers and other process equipment.

PROTEGO® UB/SF-IIB3

• approved for vapours in explosion group IIB3 and for set pressure/vacuum from 3.5 mbarg and greater
• type-approved according to ATEX Directive 2014/34/EU and EN ISO 16852
• protection against atmospheric deflagrations and endurance burning

Benefits

• high performance seal reducing product loss below EPA’s 500ppm rule preventing environmental pollution
• set pressure close to opening pressure enables optimum pressure maintenance in the system
• liquid column height is monitored by level indicators (see picture on the right)
• freeze protection at sub-zero conditions (see picture 1 on the back)
• hinged design – maintenance friendly (see picture 2 on the back)
• self draining function for condensate
• particularly suitable for problematic products such as monomers, polymerizing media and vapours with a tendency to condensate, etc.
Operation of UB/SF (Inbreathing)

- Vacuum chamber
- Pressure equalizing tube
- Diaphragm
- Flame filter option

Operation of UB/SF (Outbreathing)

- Vacuum chamber
- Pressure equalizing
- Pressure chamber
- Liquid load
- Diaphragm
- Flame filter option

Design of the PROTEGO® UB/SF-IIB3

1. Liquid level indicator
2. Vent cap
3. Pressure compensation pipe
4. Float
5. Valve top
6. Locking element
7. Diaphragm
8. PROTEGO® flame arrester unit
9. Housing

Feel free to contact us with any questions!
Our PROTEGO® team is happy to consult you!

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