PROTEGO® Application Examples

Flame arresters and valves

PROTECTING LIFE & PRESERVING VALUE
1 Pressure and vacuum relief valve combination showing a deflagration and endurance burning proof PROTEGO® pressure relief valve and a deflagration proof PROTEGO® vacuum relief valve (end-of-line) for flame transmission proof venting of storage tanks.

2 PROTEGO® detonation flame arrester (in-line) in right angle design for installation in pipelines to protect plants with potentially explosive atmospheres to which pipe systems are connected.

3 Combined PROTEGO® pressure and vacuum relief valve (end-of-line) which is deflagration and endurance burning proof for safe venting of storage tanks.

4 Detonation proof pressure and vacuum relief system showing a PROTEGO® detonation flame arrester and a combined PROTEGO® pressure and vacuum relief valve (in-line) for closed tank venting and connection to off-gas or tank blanketing systems.

5 Detonation proof pipe away valve system showing a PROTEGO® detonation flame arrester (in-line) and a PROTEGO® pressure relief valve (in-line) with non-return valve for closed tank venting systems.

6 PROTEGO® end-of-line deflagration and endurance burning proof flame arrester for protection of tanks, gasometers and other plants with potentially explosive atmospheres.

7 PROTEGO® deflagration flame arrester (in-line) with a concentric housing design which prevents transmission of deflagrations in pipes and can be installed in front of incinerators or other potential ignition sources. It can be supplied with optional integrated measuring of pressure drop, temperature sensor and steam jet nozzles.

8 PROTEGO® pressure and vacuum diaphragm valve (end-of-line) for safety against deflagration and endurance burning in frostproof design for pressure or vacuum venting of storage tanks and plants with potentially explosive atmospheres.

9 Bidirectional PROTEGO® detonation flame arrester (in-line) with minimal pressure drop for protection of systems which have to be protected from both sides against possible deflagrations or detonations.

10 PROTEGO® liquid detonation flame arrester (in-line) for filling and drain lines (external installation) of storage tanks whose lines are not continuously filled with product and that sometimes contain a combustible mixture.

11 PROTEGO® liquid detonation flame arrester for filling lines (internal installation) of storage tanks whose lines are not continuously filled with product and potentially contain an explosive mixture.

12 Float-operated PROTEGO® swivel joint pipe system to suck off product below the surface in storage tanks.

13 Extremely easy to maintain PROTEGO® detonation flame arrester for the protection of storage tanks on tanker ships.

14 Pressure and vacuum relief valve system showing a deflagration and endurance burning proof PROTEGO® high velocity pressure relief valve and a deflagration proof PROTEGO® vacuum relief valve (end-of-line) for venting of storage tanks on tanker ships.

15 Combined PROTEGO® pressure and vacuum relief valve for venting of tanks.

16 Deflagration proof PROTEGO® pressure and vacuum relief valve for flame transmission proof venting of tanks.

alternative:

7 PROTEGO® deflagration flame arrester (in-line) with an eccentric housing design which prevents transmission of deflagrations in pipes and can be installed in front of incinerators or other potential ignition sources. It can be supplied with optional integrated measuring of pressure drop, temperature sensor and steam jet nozzles.

8 PROTEGO® pressure and vacuum diaphragm valve (end-of-line) for safety against deflagration and endurance burning in frostproof design for pressure or vacuum venting of storage tanks and plants with potentially explosive atmospheres.
**Explosion and environmental protection during processing, storage and transport of inflammable liquids and gases, in particular covering...**

PROTEGO® devices are tested and approved by various international authorities and testing agencies. They are continuously adapted to the state-of-the-art.

Our Research and Development Department is equipped with a certified state-of-the-art test rig which allows special tests for specific conditions of use.

Our specialist engineers will be happy to help you. Detailed documents can be provided on request.


Our production Quality Assurance System is certified for protective systems in accordance with the European Directive 2014/34/EU.

A wide range of certifications of PROTEGO® devices are available.

**YOUR SAFETY IS OUR BUSINESS**

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