

# EU-Type Examination Certificate

- [2] EQUIPMENT OR PROTECTIVE SYSTEM INTENDED FOR USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES DIRECTIVE 2014/34/EU
- [3] EU-Type Examination Certificate Number: Presafe 18 ATEX 13595X Issue 0
- [4] Product: Non-electrical valves, regulators, hatches, manometers, covers, and traps
- [5] Manufacturer: Groth Corporation
- [6] Address: 13650 N. Promenade Blvd  
Stafford, TX, 77477 USA
- [7] This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- [8] DNV GL Presafe AS, notified body number 2460, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.  
The examination and test results are recorded in confidential reports listed in section 16.
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:  
EN ISO 80079-36:2016 and EN ISO 80079-37:2016
- [10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.
- [11] This EU - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
- [12] The marking of the product shall include the following:



II 1 G Ex h IIC T6...T1 Ga  
II 2 G Ex h IIC T6...T1 Gb

-20°C ≤ Ta ≤ +40°C



Date of issue:  
2018-12-06



Asle Kaastad  
For DNV GL Presafe AS  
The Certificate has been digitally signed.  
See [www.presafe.com/digital\\_signatures](http://www.presafe.com/digital_signatures) for more info

*This certificate may only be reproduced in its entirety and without any change, schedule included.*

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[13]

## Schedule

[14] EU-TYPE EXAMINATION CERTIFICATE No.: Presafe 18 ATEX 13595X Issue 0

### [15] Description of Product

A range of non-electrical valves, regulators, hatches, manometers, covers, and traps, which are suitable for use in EPL Ga or EPL Gb hazardous areas. Equipment for EPL Ga is constructed of either stainless steel, carbon steel, coated aluminum, or fiberglass reinforced plastic (FRP). Equipment for EPL Gb is constructed of uncoated aluminum.

#### Type Designation

Model Number	Description	Operating Philosophy
1200A 1201B 1800A	Combination Pressure/Vacuum Relief Valve Vent to Atmosphere	A weight or spring-loaded vent to atmosphere pressure and vacuum relief valve which operates when tank pressure or vacuum exceeds the valve settings
1220A 1221B 1720A 1721B 1722B 1723A 1820A	Combination Pressure/Vacuum Relief Valve Vent to Pipe-Away	A weight or spring-loaded vent to pipe-away pressure and vacuum relief valve which operates when tank pressure or vacuum exceeds the valve settings
1830A 2300A 2301A	Pressure Relief Valve Vent to Atmosphere	A weight or spring-loaded vent to atmosphere pressure relief valve which operates when tank pressure exceeds the valve settings
1260A 1261A 1760A 1761A 1860A	Pressure Relief Valve Vent to Pipe-Away	A weight or spring-loaded vent to atmosphere relief valve with operates when the tank pressure exceeds the valve set pressure
1300A 1301A 1360A 1361A 1810A 1870A	Vacuum Relief Valve	A weight or spring-loaded vacuum relief vent which operates when the tank vacuum exceeds the valve vacuum setting

Model Number	Description	Operating Philosophy
1400 1401E 1401L 1420 1430 1460	Pilot Operated Pressure and Vacuum Vent to Atmosphere and Pipe Away	A pilot operated pressure and/or vacuum valve which senses tank pressure and the pilot valve opens the main valve to relieve the pressure or vacuum condition
1660A 1661A 1662A 1663A	Pilot Operated Pressure Relief Valve Vent to Pipe Away	A pilot operated pressure and/or vacuum valve which senses tank pressure and the pilot valve opens the main valve to relieve the pressure or vacuum condition
2000A 2100A 2050A 2400A 2450A	Emergency Relief Valves	A weight loaded vent to atmosphere valve which opens under emergency situations when tank pressure exceeds the valve set pressure
3011L 3011H 3011HP 3020A 3041L 3041H 3041HP	Blanket Gas Regulator	A spring-loaded valve which regulates the flow of an inert blanketing gas in the tank
6000 6100	Gauge Hatch	A simple hatch which can be manually opened to allow access into the tank for purposes of sampling tank media
8110	Back Pressure Check Valve	A check valve with a swinging pendulum pallet which actuates when back flow or pressure wave moves backwards through the piping system
8170	Well Type Manometer	A simple device which measures the flow of gas in the line
8200	Roof Manhole Cover	A simple device which is manually opened to allow access into the tank
8330	Sediment Trap	A manually operated tank with a visible sight glass which enables quick identification of fluid retention

Model Number	Description	Operating Philosophy
8450 8480A	Automatic Sediment Trap	An automatic trap actuated by an internal float device which opens when engaged by fluid retained inside the trap
8460 8470	Manual Sediment Trap	A manually operated trap actuated by moving the lever to release the trapped fluid
8530	Thermal Operated Shutoff Valve	A shut off valve where the valve pallet closes based on a fusible element which melts at a defined temperature and shuts the valve
8860	Back Pressure Regulator and Shutoff Valve	A shut off valve which is mechanically actuated by a pilot valve which senses back pressure
1200A-FRP 1201B-FRP 1220A-FRP 1221B-FRP 1720A-FRP 1721B-FRP 1722B-FRP 1723A-FRP 1800A-FRP 1820A-FRP 1830A-FRP 2300A-FRP 2301A-FRP	Combination Pressure/Vacuum Relief Valve made of Fiberglass Reinforced Plastic (FRP) Vent to Atmosphere and Vent to Pipe-Away configurations	A weight or spring-loaded vent to atmosphere pressure and vacuum relief valve which operates when tank pressure or vacuum exceeds the valve settings
1260A-FRP 1261A-FRP 1760A-FRP 1761A-FRP 1860A-FRP	Pressure Relief Valve made of Fiberglass Reinforced Plastic (FRP) Vent to Atmosphere and Vent to Pipe-Away Configurations	A weight or spring-loaded vent to atmosphere relief valve with operates when the tank pressure exceeds the valve set pressure
1300A-FRP 1301A-FRP 1360A-FRP 1361A-FRP 1810A-FRP 1870A-FRP	Vacuum Relief Valve made of Fiberglass Reinforced Plastic (FRP)	A weight or spring-loaded vacuum relief vent which operates when the tank vacuum exceeds the valve vacuum setting

**[16] Report No.:** 2018-3221, Issue 00  
**Project No.:** PRJC-148744-2009-PRC-USA

**[17] Specific Conditions of Use**

1. The maximum surface temperature depends entirely on the operating conditions and not the equipment itself. The combination of the maximum ambient and the maximum process medium temperature shall be used to determine the maximum surface temperature and corresponding temperature classification, considering the safety margins prescribed in EN ISO 80079-36, Clause 8.2.
2. Where the process medium is a liquid or semi-solid material with a surface resistance in excess of  $1G\Omega$ , special precautions shall be taken to ensure the process does not generate electrostatic discharge.
3. Special consideration shall be made regarding the filtration of the process medium if there is a potential for the process medium to contain solid particulates. Where particles are present, the process flow shall be  $<1m/s$  in order to prevent friction between the process medium and internal surfaces.
4. Effective earthing of the product shall be ensured during installation.
5. *EPL Ga Units Only:* Where coated aluminum is used, care shall be taken to protect from impact or abrasion which may cause an ignition hazard when used in a Category 1 / Zone 0 area.
6. *Fiberglass Reinforced Plastic (FRP) Units Only:* The enclosure material has a surface resistance  $>10^9\Omega$ . Care shall be taken to avoid the generation of a potentially dangerous electrostatic charge. Clean only with a water damp cloth.

**[18] Essential Health and Safety Requirements**

Essential Health and Safety Requirements (EHSRs) are covered by the standards listed at item 9

**[19] Drawings and documents**

Reference Appendix C of Technical Report 2018-3221, Issue 0 for a complete listing of all drawings associated with this certificate.

**[20] Certificate History**

Issue	Description	Issue date	Report no.
0	Original issue	2018-12-06	2018-3221, Issue 00

END OF CERTIFICATE