

## EU TYPE EXAMINATION CERTIFICATE - PRODUCTION TYPE

This is to certify that Lloyd's Register Nederland B.V., a Notified Body under the terms of: The Pressure Equipment Directive 2014/68/EU, did (in accordance with Module B of the Directive) undertake an EU Type Examination on the stated pressure equipment to ensure its conformity with the requirements of the Directive which apply to it. The equipment identified below was shown to comply.

This certificate is issued to:

<b>APPLICANT:</b>	<b>GROTH Corporation, LLC 13650 Promenade Blvd Stafford TX 77477 USA</b>
<b>PRODUCT DESCRIPTION:</b>	<b>Pressure / Vacuum Relief Valves, series 1200, 1300, 1400, 1600, 1700 &amp; 1800</b>
<b>PRODUCT TYPE:</b>	<b>Safety Accessory</b>
<b>DESIGN STANDARD:</b>	<b>ASME Code, Section VIII, Div. 1, 2015 Edition; EN12516- 1:2014; EN12516-3:2002 and API2000:2014</b>

The attached Schedule details the content of the Technical Documentation and Specified Standards and shall form a part of this certificate.

**"This Certificate is not valid for pressure equipment, the design, ratings or operational parameters of which have been varied from the specimen tested. The manufacturer shall notify LRV of any modification or changes to the equipment to maintain a valid certificate."**

**"This certificate is valid for ten years from the date of issue."**

Certificate No:	0343/PED/ROT/HSN1720045/1
Original Approval:	17 August 2017
Current Certificate:	30 March 2021
Certificate Expiry:	17 August 2027

LR NL Notified Body Number 0343



Chris Webb on behalf of Lloyd's Register Nederland B.V.

*This certificate transfers LRV Ltd. (UK Notified Body 0038) Certificate No 0038/PED/HSN1720045/1 issued on 17 August 2017 which is now under the responsibility of EU Notified Body No. 0343 (LRNL).*

## EU TYPE EXAMINATION CERTIFICATE PRODUCTION TYPE (MODULE B)

**GROTH Corporation, LLC**

**Pressure / Vacuum Relief Valves, series 1200, 1300, 1400,  
1600, 1700 & 1800**

**CERTIFICATE NO. 0343/PED/ROT/HSN1720045/1 SCHEDULE**

### Equipment data

<b>Type:</b>	<b>Safety Accessory</b>
<b>Maximum Design Pressure:</b>	<b>6.894 bar(g)</b>
<b>Capacity:</b>	<b>2" through 12" for series 1200, 1300, 1400, 1600 &amp; 1800; 2", 3" &amp; 4" for series 1700;</b>

The undermentioned documents have been reviewed for compliance with the Pressure Equipment Directive 2014/68/EU and following Design Standard(s):

ASME Code, Section VIII, Div. 1, 2015 Edition; EN12516-1:2014;  
EN12516-3:2002 and API2000:2014

### Technical File Contents

<b>Title</b>	<b>Document Number</b>	<b>Revision / Date</b>
Description of the Equipment (Assembly)	Groth-PED-TCF-#1	0 / -
PED Categorization Table per 2014/68/EU Annex II	Groth-PED-TCF-#2	0 / -
Test Plan for 2014/68/EU Module B EU Type Examination – Production Type	Groth-PED-TCF-#3	1 / -
Essential Safety Requirements Check List	Groth-PED-TCF-#4	0 / -
Result of Hazard/Risk Analysis	Groth-PED-TCF-#5	0 / 10 May 2017
EU Declaration of Conformity (draft)	Groth-PED-TCF-#6	3 / -
Models and GA Drawings	Groth-PED-TCF-#7	1 / -
Description of the Pilot Operated Valve (POV)	Groth-PED-TCF-#8	0 / -
Pressure Equipment Directive (PED) Compliance		
PMA	Groth-B-PMA-S31603-A240-316L	A / -
PMA	Groth-F-PMA-A194-2	A / -
PMA	Groth-F-PMA-A194-2HM	A / -
PMA	Groth-F-PMA-G41400-A193-B7	A / -
PMA	Groth-F-PMA-N04400-F467-400	A / -
PMA	Groth-F-PMA-N04400-F468-400	A / -
PMA	Groth-F-PMA-N10276-F467-C276	A / -
PMA	Groth-F-PMA-N10276-F468-C276	A / -
PMA	Groth-F-PMA-S30400-A193-B8-C1	A / -
PMA	Groth-F-PMA-S30400-A193-B8-C2	A / -

Title	Document Number	Revision / Date
PMA	Groth-F-PMA-S30400-A194-8	A / -
PMA	Groth-F-PMA-S30400-A320-B8	A / -
PMA	Groth-F-PMA-S30400-A320-B8-C2	A / -
PMA	Groth-F-PMA-S31600-A193-B8M	A / -
PMA	Groth-F-PMA-S31600-A193-B8M-C2	A / -
PMA	Groth-F-PMA-S31600-A194-8M	A / -
PMA	Groth-F-PMA-S31600-A320-B8M	A / -
PMA	Groth-F-PMA-S31600-A320-B8M-C2	A / -
PMA	P-USA-12-09-106-002	0 / -
PMA (Approved by TUV SUD, NoBo 0036)	P-USA-12-09-106-003	0 / -
PMA (Approved by TUV SUD, NoBo 0036)	P-USA-12-09-106-004	1 / -
PMA (Approved by TUV SUD, NoBo 0036)	P-USA-12-09-106-015	0 / -
PMA (Approved by TUV SUD, NoBo 0036)	P-USA-14-01-106-001	0 / -
PMA (Approved by TUV SUD, NoBo 0036)	P-USA-14-01-106-002	0 / -
PMA (Approved by TUV SUD, NoBo 0036)	P-USA-14-01-106-003	0 / -

## LR Reports

Title	Document Number	Date
Design Appraisal Document	ECD1720045/001/GN, Issue No 0	27 July 2017
Inspection Certificate	HSN1720045/1	10 August 2017

Schedule Issue: 02  
 Date of Schedule Issue: 30 March 2021  
 LR NL Notified Body Number 0343

  
 \_\_\_\_\_  
 Chris Webb on behalf of Lloyd's Register Nederland B.V.