

## 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:

**APPLICANT:** GROTH Corporation, LLC  
13650 Promenade Blvd  
Stafford TX 77477 USA

**PRODUCT DESCRIPTION:** FRP Safety Valves, model 1760A [with Hetron 800 (Furan) Resin]

**PRODUCT TYPE:** Safety Accessory

**DESIGN STANDARD:** AD-2000 Merkblatt N1 Code, June 2014

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/HSN1720049/1  
Original Approval: 05 March 2018  
Current Certificate: 30 March 2021  
Certificate Expiry: 05 March 2028  
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/HSN1720049/1 issued on 05 March 2018 which is now under the responsibility of EU Notified Body No. 0343 (LRNL).*

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**EU TYPE EXAMINATION CERTIFICATE  
PRODUCTION TYPE (MODULE B)  
GROTH Corporation, LLC  
FRP Safety Valves, Model 1760A  
CERTIFICATE NO. 0343/PED/ROT/HSN1720049/1 SCHEDULE**

**Equipment data**

<b>Type:</b>	<b>Safety Accessory</b>
<b>Maximum Design Pressure:</b>	<b>100 psi(g)</b>
<b>Capacity:</b>	<b>2"</b>

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

AD-2000 Merkblatt N1 Code, June 2014

**Technical File Contents**

<b>Title</b>	<b>Document Number</b>	<b>Revision / Date</b>
Description of the Equipment (Assembly)	Groth-PED-TCF-Furan 1760A #1	0 / -
PED Categorization Table per 2014/68/EU Annex II	Groth-PED-TCF-#2	0 / -
Experimental Test Results	Groth-PED-TCF-Furan 1760A #3	0 / -
Essential Safety Requirements Check List	Groth-PED-TCF-#4	0 / -
Result of Hazard/Risk Analysis	Groth-PED-TCF-#5	0 / 10 May 2017
Body, 1760A, 2", 150# ANSI, High MAWP, FBG	BDY-1760-02-T9-00-A-H	B / 23 September 2016
Cover, 2", 1200A, FBG	A-87415	F / 12 February 2003
PMA (Approved by TUV SUD, NoBo 0036)	ISO 2559 and Owen's Corning TP-698	- / -
PMA (Approved by TUV SUD, NoBo 0036)	Ashland Technical Data Sheet 2144 V2 F2	- / -
PMA (Approved by TUV SUD, NoBo 0036)	Ashland Hetron 800 EN13121-3, Fiberglass composite material	- / -

**LR Reports**

<b>Title</b>	<b>Document Number</b>	<b>Date</b>
Design Appraisal Document	HSN1720049/001/GN, Issue No 0	09 February 2018
Inspection Certificate	HSN1720049/01	27 February 2018

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.