

EU TYPE EXAMINATION CERTIFICATE PRODUCTION TYPE

This is to certify that Lloyd's Register Verification, a Notified Body under the terms of:
The Pressure Equipment Directive 2014/68/EU;
The Pressure Equipment (Safety) Regulations 2016, UK Statutory Instrument 2016 No.1105, did
(in accordance with Module B of the Directive) undertake a 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
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 in order to maintain a valid certificate."

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

Certificate No: 0038/PED/HSN1720049/1

Original Approval: 05 March 2018

Current Certificate: 05 March 2018

Certificate Expiry: 05 March 2028

LRV Notified Body Number 0038



P. Mintzaridis on behalf of Lloyd's Register Verification

**EU TYPE EXAMINATION CERTIFICATE
PRODUCTION TYPE (MODULE B)
GROTH Corporation
FRP Safety Valves, Model 1760A
CERTIFICATE NO. 0038/PED/HSN1720049/1 SCHEDULE**

Equipment data

Type:	Safety Accessory
Maximum Design Pressure:	100 psi(g)
Capacity:	2"

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

AD-2000 Merkblatt N1 Code, June 2014

Technical File Contents

Title	Document Number	Revision / Date
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

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

Schedule Issue: 01
Date of Schedule Issue: 05 March 2018
LRV Notified Body Number 0038



P. Mintzaridis on behalf of Lloyd's Register Verification