



Lloyd's
Register

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

This certificate supersedes certificate number 01/20020 (E2) issued on 15.11.2010 which is hereby cancelled.

This certificate is issued to:

PRODUCER	LESER GmbH & Co. KG Wendenstrasse 133-135 20537 Hamburg Germany
DESCRIPTION	Angled type, direct spring loaded standard safety valve; Disc: 437 - metal seated 438 - soft seal 439 - vulcanized soft seal Connections: Flanged or threaded Lifting device: Packed lever H4 Plain lever H3 Cap (gas tight) H2
TYPES	437 / 438 / 439
APPLICATION	As safety features for steam, liquids and gases including LNG and LPG systems in marine and offshore installations.
RESTRICTIONS	The valves are not to be used on boilers and steam generators.
STANDARDS	Lloyd's Register Rules and Regulations for the Classification of Ships, 2016; AD2000-Merkblatt; VdTÜV SV100; DIN EN ISO 4126-1; ISO 21013-1: 2008, Part 1;
Certificate No.	01 / 20020 (E3)
Issue Date	12 May 2016
Expiry Date	14 November 2020
Sheet	1 of 2



Torsten Schröder
Hamburg Technical Support Office

Lloyd's Register EMEA

LR031.1.2013.12

Torsten Schröder
Hamburg Technical Support Office
Lloyd's Register EMEA

Lloyd's Register EMEA
71 Fenchurch Street, London EC3M 4BS

Lloyd's Register EMEA
Is a subsidiary of Lloyd's Register Group

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.



RATINGS

Connection sizes: DN 15 to DN 25
Internal diameter do: 6 mm and 10 mm

Pressure ratings: PN 40 – PN 400 (CL 150 - CL 2500)
Set pressure: 0,10 to 400 bar
437 up to 400 bar
438 up to 180 bar
439 up to 16 bar

Material and temperature range:

Types:	Body material:	Temperature range:
4373	1.4104 / 430	-60°C to +400°C
4383 / 4393	1.4104 / 430	-45°C to +250°C
4384 / 4394	1.4404 / 316L	-45°C to +250°C
4374	1.4404 / 316L or	-196°C to +400°C
	1.4404 stellite / 316L stellite	

**PLACE OF
PRODUCTION**


LESER GmbH & Co. KG
Itzehoer Strasse 63-65
24594 Hohenwestedt
Germany

The Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.

If the specified standards are amended during the validity of this certificate, the product is to be re-approved prior to it being supplied to vessels to which the amended standards apply.

The Design Appraisal Document No. HMD 5907-01, Issue No. 3 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

Certificate No. 01 / 20020 (E3)
Issue Date 12 May 2016
Expiry Date 14 November 2020
Sheet 2 of 2



Torsten Schröder
Hamburg Technical Support Office

Lloyd's Register EMEA

LR031.1.2013.12

Torsten Schröder
Hamburg Technical Support Office
Lloyd's Register EMEA

Lloyd's Register EMEA
71 Fenchurch Street, London EC3M 4BS

Lloyd's Register EMEA
Is a subsidiary of Lloyd's Register Group