



U. S. Department of Homeland Security
United States Coast Guard
Certificate of Approval

Coast Guard Approval Number: 162.018/105/2

Expires: 18 March 2019

LIQUIFIED COMPRESSED GAS SAFETY RELIEF VALVE

LESER GmbH & Co.
 Postfach 26 16 51
 Hamburg 20506
 GERMANY

Types 4412, 4414, 4415, 4422, 5262, 5263, 5264.

Description: Spring-loaded, compressed gas service in liquid or gas phase. This certificate applies to the valve types listed above with restrictions listed below.

Acceptable materials for valve body and bonnet and the corresponding minimum and maximum service temperatures are as follows:

	Minimum Operating Temperature	Maximum Operating Temperature
ASME SA-351 CF8M stainless steel	-450° F	1000° F
ASME SA-216 WCB steel	-20° F	800° F
ASME SA-352 LCB steel	-30° F	650° F
ASTM A-395 ductile iron	14° F	650° F

The service pressure shall not exceed the pressure-temperature ratings prescribed by ANSI/ASME B16.34, Valves-Flanged, Threaded, and Welding End.

After machining, ASTM A-395 ductile iron castings must be hydrostatically tested to twice their maximum allowable working pressure and must show no leaks as specified in 46 CFR 56.60-15(c)

Acceptable range of inlet diameters is 0.75 inch through 6 inches as specified in 46 CFR 162.018-4(d). Springs may not be reset for any pressure more than 10% above or 10% below that for which the valve is marked. Safety relief valves having adjustable blow-down construction shall be adjusted to close after blowing down not more than 5 percent of the adjusted set pressure. Valves shall be fitted with a drain, not less than 0.25 inch in diameter at the lowest practicable point where liquid can collect. Valves must be marked in accordance with 46 CFR 162.018-6.

*** END ***

THIS IS TO CERTIFY THAT the above named manufacturer has submitted to the undersigned satisfactory evidence that the item specified herein complies with the applicable laws and regulations as outlined on the reverse side of this Certificate, and approval is hereby given. This approval shall be in effect until the expiration date hereon unless sooner canceled or suspended by proper authority.



GIVEN UNDER MY HAND THIS 18th DAY OF
 MARCH 2014, AT WASHINGTON D.C.

C. K. Marcy
 C. K. MARCY
 COMMANDER, U.S. COAST GUARD
 CHIEF, SYSTEMS ENGINEERING DIVISION
 BY DIRECTION OF THE COMMANDANT