

Approval Certificate



This is to certify, that the undernoted products have been approved in accordance with the relevant requirements of the GL Approval System.

Certificate No. 61 696 - 14 HH
Company RITAG Ritterhuder Armaturen GmbH & Co. Armaturenwerk KG

Industriestraße 9
27711 Osterholz-Scharmbeck, GERMANY

Product Cryogenic Check Valves, Cryogenic Dual Plate Check Valves

Type ZRK 3, ZRD 3, SR 30.40, SR 50.40, SR 55.40, SR 99

Technical Data /
Application

TECHNICAL DATA

Materials:

Body 1.4404, 1.4408, 1.4571
Plate 1.4404, 1.4408, 1.4571
Spring 1.4571
Seal NBR, EPDM, FKM, PTFE, metallic

RANGE OF APPLICATION

The above mentioned type of check valve is type approved for the use in liquefied gas systems as follows:

- Type ZRK 3, ZRD 3, SR 30.40, SR 50.40, SR 55.40, SR 99
- Size range DN50-DN200; ZRK 3, ZRD 3
DN15-DN100; SR30.40, SR50.40, SR55.40, SR 99
- Pressure range PN 16 - PN 40
- Temperature range - 190°C to +20°C

Approval Standard VI-7-8 Guidelines for the Performance of Type Approvals for Components and Systems of Mechanical Engineering: 2013.

Documents

- Pressure test report-No.: 13-031254 , dated 17.12.2013
- Dye Penetrant test report-No.: 13-031254 , dated 17.12.2013
- Cold shock test report-No.: 13-031254 , dated 09.12.2013
- GL-Ref.-No.: 13-031254

Remarks - PRODUCTION PLACE, MARKING, REMARKS and Drawings see page 2

Valid until 2019-01-23

File No. XI.B.03

Germanischer Lloyd

Hamburg, 2014-01-27

A blue ink signature of Olaf Drews, consisting of a stylized 'O' and 'D'.

Olaf Drews

A blue ink signature of Peter Gierhan, written in a cursive style.

Peter Gierhan

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PRODUCTION PLACE

RITAG Ritterhuder Armaturen GmbH & Co. Armaturenwerk KG
Industriestraße 9I
27711 Osterholz-Scharmbeck
GERMANY

MARKING

For traceability to this type approval, each check valve is to be marked with:

- Manufacturer's name or trade mark
- Type designation
- Size
- Max. design pressure(s) or pressure class

REMARKS

Each valve is subject to final inspection at manufacturer's workshop in the presence of a GL Surveyor.

DRAWINGS

General drawings:

99211035, dated: 12.07.2006 / 99211006, dated: 28.12.2005 / 99214006, dated: 06.12.2005 / 99213026, dated: 17.12.2013

Germanischer Lloyd

Hamburg, 2014-01-27

A handwritten signature in blue ink, appearing to read 'i. v. Drews', positioned above a horizontal line.

Olaf Drews

A handwritten signature in blue ink, appearing to read 'i. A. P. Gierhan', positioned above a horizontal line.

Peter Gierhan