

LLOYD'S REGISTER TYPE APPROVAL – DESIGN APPRAISAL DOCUMENT

Issued by: Hamburg Technical Support Office (HPC 1661082)

Issued to: Armaturen-Wolff Friedrich H. Wolff GmbH & Co. KG

For: QUICK CLOSING AND OPENING VALVES

The undernoted documents have been reviewed for compliance with the requirements of the Lloyd's Register Type Approval System Procedure TA14 Version 03 (July 2017) and this Design Appraisal Document forms part of the Certificate.

COMMENTS

1. Where an electric actuator is intended for quick closing valves at fuel oil service tanks for single fuel supply to main propulsion engines or to essential auxiliary generator engines the double solenoid types are to be used with an uninterrupted power supply system.

APPROVAL DOCUMENTATION

-	Application Checklist	25.11.2019
-	Specification of electric QCV and requirements for corresp. control technology	13.11.2019
-	Numbering system of products, pgs. 48 - 51	-
332150200-3	Quick closing valve, PN25, DN200 with hydr./pneumatic actuator (fire safe)	24.09.2009
332150250-3	Quick closing valve, PN25, DN250 with hydr./pneumatic actuator (fire safe)	24.09.2009
333150200-3	Quick closing valve, PN25, DN200 with hydr./pneumatic actuator (fire safe)	01.02.2012
333150250-3	Quick closing valve, PN25, DN250 with hydr./pneumatic actuator (fire safe)	01.02.2012
334150200-3, A	Quick closing valve, PN16, DN200 with hydr./pneumatic actuator (fire safe)	24.09.2009
334150250-3, A	Quick closing valve, PN16, DN250 with hydr./pneumatic actuator (fire safe)	24.09.2009
335150200-3	Quick closing valve, PN16, DN200 with hydr./pneumatic actuator (fire safe)	01.02.2012
335150250-3	Quick closing valve, PN16, DN250 with hydr./pneumatic actuator (fire safe)	01.02.2012
3321F000-3	Quick closing valve, spring loaded, fire safe, DN125 – DN250, PN25	31.01.2012
3331F000-3	Quick closing valve, spring loaded, fire safe, DN125 – DN250, PN25	31.01.2012
3341F000-3	Quick closing valve, spring loaded, fire safe, DN125 – DN250, PN16	31.01.2012
3351F000-3	Quick closing valve, spring loaded, fire safe, DN125 – DN250, PN16	31.01.2012
33405_D1_d	Quick closing valve, PN 16, DN 15 - 50 with hydraulic actuator	20.03.2007
33415_D1_d	Quick closing valve, PN 16, DN 15 - 50 with hydraulic actuator	23.06.2006
33415_D2_d	Quick closing valve, PN 16, DN 65 - 150 with hydraulic actuator	23.06.2006
33416_D1_d	Quick opening valve with bellow, PN 16, DN 50 with hydr./pneumatic actuator	25.05.2007
34416_D1_d	Quick closing valve with bellow, PN 16, DN 50 with hydr./pneumatic actuator	29.05.2007
33516_D1_d	Quick closing valve with bellow, PN 16, DN 50 with hydr./pneumatic actuator	25.05.2007
34516_D1_d	Quick opening valve with bellow, PN 16, DN 50 with hydr./pneumatic actuator	29.05.2007
33515_D1_d	Quick closing valve, PN 16, DN 15 - 50 with hydraulic actuator	20.03.2007
33515_D2_d	Quick closing valve, PN 16, DN 65 - 150 with hydraulic actuator	20.03.2007
33404000_12_F	Actuator ø40, DN 15 – 50	03.05.2006
33404000_14a_F	Actuator ø52, DN 65 – 150	27.04.2006

TEST REPORTS

PRJ11100246056_3	Production Quality Assessment	23.01.2020
08-1937	Dust and water jet test for a valve – PRA 709 (elect. release unit with double solenoid) acc. DIN EN 60529 – IP 55 at PACONSULT / Hamburg, Germany	19.03.2019
GF 320 MB: E1348	Fire release function test for -TS thermal link of valve actuator with single or double solenoid aligned to EN ISO 15541:2001 to demonstrate of release at 700°C within 30 seconds at fire test laboratory of WTD Eckernfoerde, Germany	03.11.2014
07-1875	Vibration Test Report for valves and switch box at PACONSULT	06.02.2008
0710143 / 19174-07	Visit Report / Function and Performance Test without rubber seals	13.09.2007
137-03	Test Report, PACONSULT	13.03.2003

Torsten Schröder

Torsten Schröder
 Senior Specialist
 Engineering Systems
 Hamburg Technical Support Office
 Lloyd's Register EMEA
 T +49 (0)40 349 700 10 259
 E torsten.schroeder@lr.org

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Type Approval is based on the understanding that the manufacturer's recommendations and instructions and any relevant requirements of the Rules and Regulations are complied with.

Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations. Lloyd's Register EMEA reserves the right to cancel or withdraw this Type Approval Certificate in accordance with the Lloyd's Register Type Approval System Procedure.