Certificate no: Page 1 of 1 DTM 1820807-2



EBRO Armaturen Gebr. Bröer GmbH

Office:

Hamburg

Date:

19 October 2018

This Certificate is issued to the above client to certify that a surveyor to Lloyd's Register did, at their request, attend the undermentioned manufacturer for the purpose of inspecting and witnessing tests on the product listed below.

FLAME – RESISTANCE TEST CERTIFICATE Butterfly Valve HP111/HP111-E, HP112, HP114/HP114-E/HP114-C/HP114-K3 Seat Inconel DN 50 (2") and below to DN 200 (8") and above

Test requirements: DIN EN ISO 10497:2010

API 607, 7th edition

Tested sizes of butterfly valve:

1.) HP111 DN 50 class150 2.) HP111 DN 125 class150

3.) HP111 DN 125 class150 - Body 1.4408

4.) HP111 DN 200 class150

Body material:

1.0619 and 1.4408

Seat material:

Inconel

Drawing nos.:

to 1.) DHPH-050-0068-00, rev. 0, dated 18.09.2018 to 2. and 3.) DHPH-125-0109-00, rev. 0, dated 20.09.2018 to 4.) DHPH-200-0348-00, rev. 0, dated 20.09.2018

Part list nos.:

to 1.) 6008581 to 2.) 6112074 to 3.) 6008592 to 4.) 4090022

Qualified Sizes:

DN 50 (2") and below to DN 200 (8") and above

Qualified Pressure Ratings:

Class 150, Class 300 PN10, PN16, PN25, PN40

Test procedure and results:

as per test reports IBB-2088, IBB-2096, IBB-2098 and IBB-2100

dated 16.10.2018 and 17.10.2018

The following examinations were carried out with satisfactory results in accordance with the above specification:

- Reviewed test specification and accepted test facilities.
- Verified selected butterfly valve against drawing and visual inspection to compliance to above stated type.
- Checked calibration status of used test gauges.
- Witnessed of flame-resistance tests, results: OK.
- Reviewed and endorsed documentation.

For further details please refer to attached documentation.



M. Di Blasi

Surveyor to Lloyd's Register EMEA

a member of the 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 '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.