Certificate no:

DTM 1820807-1

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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"FIRESAFE" 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: Seat material: 1.0619 and 1.4408

"Firesafe" - PTFE / Inconel

Drawing nos.:

to 1.) DHPH-050-0067-00, rev. 0, dated 20.09.2018

to 2. and 3.) DHPH-125-0108-00, rev. 0, dated 20.09.2018

to 4.) DHPH-200-0350-00, rev. 0, dated 20.09.2018

Part list nos.:

to 1.) 6112066 to 2.) 6112070 to 3.) 6112073 to 4.) 6112071

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-2086, IBB-2090, IBB-2092 and IBB-2094

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.

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