



Inspection Certificate

Project:

Client: **Zwick Armaturen GmbH,
Ennepetal / Germany**Office: **Dortmund**

Client's Order Number:

Date: **23 June 2015**Order Status: **incomplete**

Inspection Dates

First: **17 June 2015**Final: **17 June 2015**

This certificate is issued to **the above client, that a surveyor to Lloyd's Register did, at their request, attend a test laboratory in Herford/Germany, for the purpose of testing and inspecting the product listed below.**

Description: Fire type-testing of Butterfly Valves

Type: TRI-CON Model A1 8" ANSI600
Pressure Rating: Class 600
Nominal Bore: 8"
Manufacturer's Drawing: ZUSA1G551

Body/Bonnet Material: ASTM A216 WCB
Disc Material: ASTM A216 WCB
Stem Material: ASTM A276 Type 431
Sealing Elements: Carbon Fibre / Graphite / ASTM A582 Type 303


Test Requirements: DIN EN ISO 10497:2010-06 and API 607, 6th edition

Qualified Sizes: 8" and above, DN 200 and above
Qualified Pressure Ratings: Class 600, Class 800, Class 900, PN 100 and PN 150

Conclusion: All test results are satisfactory and fulfil the requirements of DIN EN ISO 10497:2010-06 and API 607, 6th edition, in every respect.

For further details please refer the attached test report IBB-1302, dated 17.06.2015.

EN/Fbe



For G. Milke: R. Spriesterbach
Surveyor to Lloyd's Register EMEA

A subsidiary of Lloyd's Register Group Limited

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.



Inspection Certificate

Project:

Client: **Zwick Armaturen GmbH,
Ennepetal / Germany**Office: **Dortmund**

Client's Order Number:

Date: **23 June 2015**Order Status: **incomplete**

Inspection Dates

First: **17 June 2015**Final: **17 June 2015**

This certificate is issued to **the above client, that a surveyor to Lloyd's Register did, at their request, attend a test laboratory in Herford/Germany, for the purpose of testing and inspecting the product listed below.**

Description: Fire type-testing of Butterfly Valves

Type: TRI-CON Model A1 8" ANSI600
Pressure Rating: Class 600
Nominal Bore: 8"
Manufacturer's Drawing: ZUSA1G551

Body/Bonnet Material: ASTM A216 WCB
Disc Material: ASTM A216 WCB
Stem Material: ASTM A276 Type 431
Sealing Elements: Carbon Fibre / Graphite / ASTM A582 Type 303

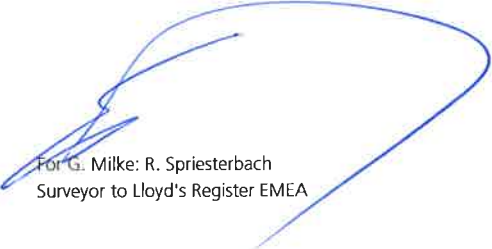
Test Requirements: DIN EN ISO 10497:2010-06 and API 607, 6th edition

Qualified Sizes: 8" and above, DN 200 and above
Qualified Pressure Ratings: Class 600, Class 800, Class 900, PN 100 and PN 150

Conclusion: All test results are satisfactory and fulfil the requirements of DIN EN ISO 10497:2010-06 and API 607, 6th edition, in every respect.

For further details please refer the attached test report IBB-1302, dated 17.06.2015.

EN/Fbe



For G. Milke: R. Spriesterbach
Surveyor to Lloyd's Register EMEA

A subsidiary of Lloyd's Register Group Limited

EINGEGANGEN

Certificate no: DTM1520895/2
Page 1 of 1

23 Juni 2015



Inspection Certificate

Project:

Client: **Zwick Armaturen GmbH,
Ennepetal / Germany**

Office: **Dortmund**

Client's Order Number:

Date: **23 June 2015**

Order Status: **complete**

Inspection Dates

First: **17 June 2015**

Final: **17 June 2015**

This certificate is issued to **the above client, that a surveyor to Lloyd's Register did, at their request, attend a test laboratory in Herford/Germany, for the purpose of testing and inspecting the product listed below.**

Description: Fire type-testing of Butterfly Valves

Type: TRI-CON Model A1 8" ANSI150
Pressure Rating: Class 150
Nominal Bore: 8"
Manufacturer's Drawing: ZUSA1G548

Body/Bonnet Material: ASTM A216 WCB
Disc Material: ASTM A216 WCB
Stem Material: ASTM A276 Type 431
Sealing Elements: Carbon Fibre / Graphite / ASTM A582 Type 303


Test Requirements: DIN EN ISO 10497:2010-06 and API 607, 6th edition

Qualified Sizes: 8" and above, DN 200 and above
Qualified Pressure Ratings: Class 150, Class 300, PN 10, PN 16, PN 25 and PN 40

Conclusion: All test results are satisfactory and fulfil the requirements of DIN EN ISO 10497:2010-06 and API 607, 6th edition, in every respect.

For further details please refer the attached test report IBB-1304, dated 17.06.2015.

EN/Fbe


For G. Milke: R. Spriesterbach
Surveyor to Lloyd's Register EMEA

A subsidiary of Lloyd's Register Group Limited

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.



Inspection Certificate

Project:

Client: **Zwick Armaturen GmbH,
Ennepetal / Germany**

Office: **Dortmund**

Client's Order Number:

Date: **23 June 2015**

Order Status: **complete**

Inspection Dates

First: **17 June 2015**

Final: **17 June 2015**

This certificate is issued to **the above client, that a surveyor to Lloyds's Register did, at their request, attend a test laboratory in Herford/Germany, for the purpose of testing and inspecting the product listed below.**

Description: Fire type-testing of Butterfly Valves

Type: TRI-CON Model A1 8" ANSI150

Pressure Rating: Class 150

Nominal Bore: 8"

Manufacturer's Drawing: ZUSA1G548

Body/Bonnet Material: ASTM A216 WCB

Disc Material: ASTM A216 WCB

Stem Material: ASTM A276 Type 431

Sealing Elements: Carbon Fibre / Graphite / ASTM A582 Type 303

Test Requirements: DIN EN ISO 10497:2010-06 and API 607, 6th edition

Qualified Sizes: 8" and above, DN 200 and above

Qualified Pressure Ratings: Class 150, Class 300, PN 10, PN 16, PN 25 and PN 40

Conclusion: All test results are satisfactory and fulfil the requirements of DIN EN ISO 10497:2010-06 and API 607, 6th edition, in every respect.

For further details please refer the attached test report IBB-1304, dated 17.06.2015.

EN/Fbe

For G. Milke: R. Spriesterbach
Surveyor to Lloyd's Register EMEA

A subsidiary of Lloyd's Register Group Limited

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.