



# Inspection Certificate

Project: ---

Client: **müller co-ax ag**  
**Forchtenberg / Germany**

Office: **Dortmund**

Client's Order Number: ---

Date: **30 November 2009**

Order Status: **incomplete**

Inspection Dates

First: **23 September 2009**

Final: **23 September 2009**

This Certificate is issued to the above client to certify, that a surveyor to Lloyd's Register did, at their request, attend the testing laboratory of Dr.-Ing. T. Bäumer GmbH - Ingenieurbüro -, Herford / Germany for the purpose of inspecting the product listed below:

Description: **Flame resistance test of -2- Butterfly Valves**  
Type: **QUADAX**  
Nominal bore: **DN 80**  
Pressure rating: **Class 150**  
Weight (each): **15 kg**  
Manufacturer's drawing: **ETQ80 06010**

Materials: **Body material: P265GH**  
**Plate: P265GH**  
**Operating stem material: 1.4057**  
**Sealing elements: Graphite**  
**Stem seal material: Graphite**

Test requirements: **DIN EN ISO 10497, 2004 and API 607, 5<sup>th</sup> edition**  
Qualified pressure ratings: **Class 150, Class 300, PN10, PN16, PN20, PN40**

The flame resistance tests have been carried out at the independent laboratories of Dr.-Ing. T. Bäumer GmbH.

Conclusion: **All test results, witnessed by the Lloyd's Register Surveyor, were found to be satisfactory and fulfil the requirements of DIN EN ISO 10497, 2004 in every respect. Tested in both flow directions. For details please refer to the attached signed and stamped test reports (12 pages).**

Remarks: **Butterfly valve DN 80, pressure rating Class 150 also covers DN 100, DN 125 and DN 150.**

  
G. Milke  
Surveyor to Lloyd's Register EMEA

MA/Dwe

A member of the Lloyd's Register Group



# Inspection Certificate

Project: ---

Client: **müller co-ax ag**  
**Forchtenberg / Germany**

Office: **Dortmund**

Client's Order Number: ---

Date: **18 November 2009**

Order Status: **complete**

Inspection Dates

First: **23 September 2009**

Final: **23 September 2009**

This Certificate is issued to the above client to certify, that a surveyor to Lloyd's Register did, at their request, attend the testing laboratory of Dr.-Ing. T. Bäumer GmbH - Ingenieurbüro -, Herford / Germany for the purpose of inspecting the product listed below:

Description: **Flame resistance test of -2- Butterfly Valves**  
Type: **QUADAX**  
Nominal bore: **DN 80**  
Pressure rating: **PN 40**  
Weight (each): **18 kg**  
Manufacturer's drawing: **ETQ80 01010**

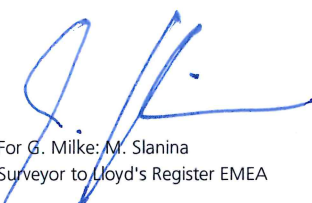
Materials: **Body material: P265GH**  
**Plate: P265GH**  
**Operating stem material: 1.4057**  
**Sealing elements: Graphite**  
**Stem seal material: Graphite**

Test requirements: **DIN EN ISO 10497, 2004 and API 607, 5<sup>th</sup> edition**  
Qualified pressure ratings: **Class 300, Class 400, Class 600, PN 40, PN 63, PN 100,**

The flame resistance tests have been carried out at the independent laboratories of Dr.-Ing. T. Bäumer GmbH.

Conclusion: **All test results, witnessed by the Lloyd's Register Surveyor, were found to be satisfactory and fulfil the requirements of DIN EN ISO 10497, 2004 in every respect. Tested in both flow directions. For details please refer to the attached signed and stamped test reports (12 pages).**

Remarks: **Butterfly valve DN 80, pressure rating PN 40 also covers DN 80, DN 100, DN 125 and DN 150.**

  
For G. Milke: M. Slanina  
Surveyor to Lloyd's Register EMEA

MA/Dwe

A member of the Lloyd's Register Group



# Inspection Certificate

Project: ---

Client: **müller co-ax ag**  
**Forchtenberg / Germany**

Office: **Dortmund**

Client's Order Number: ---

Date: **24 November 2009**

Order Status: **incomplete**

Inspection Dates

First: **17 November 2009**

Final: **17 November 2009**

This Certificate is issued to **the above client to certify, that a surveyor to Lloyd's Register did, at their request, attend the testing laboratory of Dr.-Ing. T. Bäumer GmbH - Ingenieurbüro -, Herford / Germany for the purpose of inspecting the product listed below:**

Description: **Flame resistance test of -1- Butterfly Valve**  
Type: **QUADAX**  
Nominal bore: **DN 200**  
Pressure rating: **Class 150**  
Weight (each): **50 kg**  
Manufacturer's drawing: **ETQ200 06010**

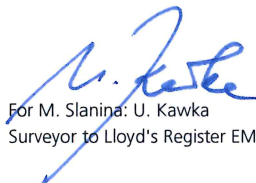
Materials: **Body material: P265GH**  
**Plate: GP240GH**  
**Operating stem material: 1.4057**  
**Sealing elements: Graphite**  
**Stem seal material: Graphite**

Test requirements: **DIN EN ISO 10497, 2004 and API 607, 5<sup>th</sup> edition**  
Qualified pressure ratings: **Class 150, Class 300, PN10, PN16, PN20, PN40**

The flame resistance tests have been carried out at the independent laboratories of Dr.-Ing. T. Bäumer GmbH.

Conclusion: **All test results, witnessed by the Lloyd's Register Surveyor, were found to be satisfactory and fulfil the requirements of DIN EN ISO 10497, 2004 in every respect. Tested in both flow directions. For details please refer to the attached signed and stamped test reports (12 pages).**

Remarks: **Butterfly valve DN 200, pressure rating Class 150 also covers DN 200 and larger.**

  
For M. Slanina: U. Kawka  
Surveyor to Lloyd's Register EMEA

A member of the Lloyd's Register Group

MA/Dwe



# Inspection Certificate

Project: ---

Client: **müller co-ax ag**  
**Forchtenberg / Germany**

Office: **Dortmund**

Client's Order Number: ---

Date: **24 November 2009**

Order Status: **complete**

Inspection Dates

First: **17 November 2009**

Final: **17 November 2009**

This Certificate is issued to **the above client to certify, that a surveyor to Lloyd's Register did, at their request, attend the testing laboratory of Dr.-Ing. T. Bäumer GmbH - Ingenieurbüro -, Herford / Germany for the purpose of inspecting the product listed below:**

Description: **Flame resistance test of -1- Butterfly Valve**  
Type: **QUADAX**  
Nominal bore: **DN 200**  
Pressure rating: **PN 40**  
Weight (each): **68 kg**  
Manufacturer's drawing: **ETQ200 01010**

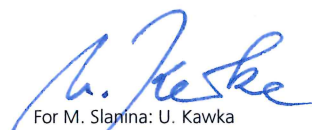
Materials: **Body material: P265GH**  
**Plate: GP240GH**  
**Operating stem material: 1.4057**  
**Sealing elements: Graphite**  
**Stem seal material: Graphite**

Test requirements: **DIN EN ISO 10497, 2004 and API 607, 5<sup>th</sup> edition**  
Qualified pressure ratings: **Class 300, Class 400, Class 600, PN 40, PN 63, PN 100**

The flame resistance tests have been carried out at the independent laboratories of Dr.-Ing. T. Bäumer GmbH.

Conclusion: **All test results, witnessed by the Lloyd's Register Surveyor, were found to be satisfactory and fulfil the requirements of DIN EN ISO 10497, 2004 in every respect. Tested in both flow directions. For details please refer to the attached signed and stamped test reports (12 pages).**

Remarks: **Butterfly valve DN 200, pressure rating PN 40 also covers DN 200 and larger.**



For M. Slanina: U. Kawka  
Surveyor to Lloyd's Register EMEA

MA/Dwe

A member of the Lloyd's Register Group