



ITIS B.V.
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ITIS Certificate
 201600123-C001

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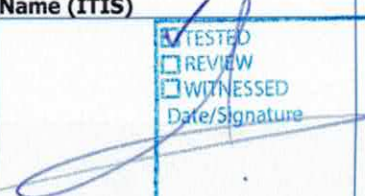

Industrie Service

ISO 15848-1 QUALIFICATION CERTIFICATE

This certificate is to certify that the valve below has been tested according to standard: Industrial valves - Measurement, test and qualification procedures for fugitive emissions - Part 1: Classification system and qualification procedures for type testing of valves (ISO 15848-1:2015)

Test valve details

Manufacturer : ATEC Armaturenbau und Technik GmbH
 Address : Raiffeisenße 29, 55270 Klein-Winternheim, Germany
 Nominal size : DN50
 Pressure rating : PN40
 Valve Type : Ball Valve
 Valve serial type : Alpha
 Drawing number : 2W050F-00-Type Alpha rev.1 date: 04-12-2013
 Body material : 1.4404
 Body seal mat. : O-ring Viton (88.57 x 2.62)
 Stem material : 1.4404
 Stem seal material 1st : O-ring Viton (15.54 x 2.62)
 Stem seal material 2nd : PTFE (27.9/19.5 x 3)
 Stem seal material 3rd : Graphite (28/19.5 x 4)
 Stem seal brand : Angst & Pfister
 Stem surface finish : Rz 3.2µm
 Stem diameter (OD_{stem}) : 19.5mm
 Stud bolt material : A2-70
 Gland torque : 20Nm at start of the tests.
 Actuator : n.a.

Name (ITIS)		Name authority (TÜV SÜD)
<div style="border: 1px solid black; padding: 5px;"> <input checked="" type="checkbox"/> TESTED <input type="checkbox"/> REVIEW <input type="checkbox"/> WITNESSED Date/Signature  J. Meijer  </div>		I. van Remoortere 06-02-2017



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ISO 15848-1 QUALIFICATION CERTIFICATE

Valve qualification range: (see par. 8 of ISO 15848-1)

Description	Tested valve	Scope
Stem Seal Material Type	Graphite / PTFE (Angst & Pfister)	Graphite / PTFE (Angst & Pfister)
Stem surface finish	Rz 3.2µm	Rz 3.2µm
Gland torque	20Nm	20Nm
Stem Diameter	19.5mm	9.75mm up to 39mm
Stem motion	Quarter turn	Quarter turn
Body seal	O-ring Viton	O-ring Viton
Class	PN40	PN40 and below
Endurance Class	CO1	CO1
Temperature Class	Room Temperature	Room Temperature
Tightness Class	AH	AH or less severe

Performance class:
ISO FE AH — CO1 — SSA 0 — tRT — PN40 — ISO 15848-1

This certificate must be read in conjunction with the full ITIS BV test report number 201600123-R001

<p>Name (ITIS)</p> <div style="border: 1px solid black; padding: 5px; width: fit-content;"> <input checked="" type="checkbox"/> TESTED <input type="checkbox"/> REVIEW <input type="checkbox"/> WITNESSED Date/Signature </div> <p style="text-align: right;"> J. Meijer Industrial Testing & Inspection 06-02-2017 </p>	<p>Name authority (TÜV SÜD)</p> <p style="text-align: right;"> I. van Remoortere 06-02-2017 </p>
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ITIS Certificate
 201600123-C002

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Industrie Service

ISO 15848-1 QUALIFICATION CERTIFICATE

This certificate is to certify that the valve below has been tested according to standard: Industrial valves - Measurement, test and qualification procedures for fugitive emissions - Part 1: Classification system and qualification procedures for type testing of valves (ISO 15848-1:2015)

Test valve details

Manufacturer : ATEC Armaturenbau und Technik GmbH
 Address : Raiffeisenße 29, 55270 Klein-Winternheim, Germany
 Nominal size : DN50
 Pressure rating : PN40
 Valve Type : Ball Valve
 Valve serial type : Beta
 Drawing number : E2W050F-00-Type Beta rev.1 date: 07-10-2014
 Body material : 1.4404
 Body seal mat. : O-ring Viton/FDA (88.57 x 2.62)
 Stem material : 1.4404
 Stem seal material 1st : O-ring Viton/FDA (15.54 x 2.62)
 Stem seal material 2nd : PTFE/FDA (28/19.5 x 11.4)
 Stem seal brand : Angst & Pfister
 Stem surface finish : Rz 3.2µm
 Stem diameter (OD_{stem}) : 19.5mm
 Stud bolt material : A2-70
 Gland torque : 20Nm at start of the tests.
 Actuator : n.a.

Name (ITIS)		Name authority (TÜV SÜD)
<input checked="" type="checkbox"/> TESTED <input type="checkbox"/> REVIEW <input type="checkbox"/> WITNESSED Date/Signature J. Meijer Industrial Inspection Services 06-02-2017		I. van Remoortere 06-02-2017



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Industrie Service


ISO 15848-1 QUALIFICATION CERTIFICATE

Valve qualification range: (see par. 8 of ISO 15848-1)

Description	Tested valve	Scope
Stem Seal Material Type	PTFE/FDA (Angst & Pfister)	PTFE/FDA (Angst & Pfister)
Stem surface finish	Rz 3.2µm	Rz 3.2µm
Gland torque	20Nm	20Nm
Stem Diameter	19.5mm	9.75mm up to 39mm
Stem motion	Quarter turn	Quarter turn
Body seal	O-ring Viton/FDA	O-ring Viton/FDA
Class	PN40	PN40 and below
Endurance Class	CO1	CO1
Temperature Class	Room Temperature	Room Temperature
Tightness Class	AH	AH or less severe

Performance class:
ISO FE AH — CO1 — SSA 0 — tRT — PN40 — ISO 15848-1

This certificate must be read in conjunction with the full ITIS BV test report number 201600123-R002

Name (ITIS)		Name authority (TÜV SÜD)
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ITIS Certificate
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Industrie Service

ISO 15848-1 QUALIFICATION CERTIFICATE

This certificate is to certify that the valve below has been tested according to standard: Industrial valves - Measurement, test and qualification procedures for fugitive emissions - Part 1: Classification system and qualification procedures for type testing of valves (ISO 15848-1:2015)

Test valve details

Manufacturer : ATEC Armaturenbau und Technik GmbH
 Address : Raiffeisenße 29, 55270 Klein-Winternheim, Germany
 Nominal size : DN50
 Pressure rating : PN16
 Valve Type : Ball Valve
 Valve serial type : Gamma
 Drawing number : Bo050L-00-Type Gamma rev.1 date: 29-08-2013
 Body material : 1.4404
 Body gaskets mat. : O-ring Viton (58.42 x 2.62)
 Stem material : 1.4404
 Stem seal material 1st : O-ring Viton (13.95 x 2.62)
 Stem seal material 2nd : Graphite
 Stem seal material 3rd : PTFE (28/19.5 x 3)
 Stem seal brand : Angst & Pfister
 Stem diameter (OD_{stem}) : 19.5mm
 Stud bolt material : A2-70
 Gland torque : 20Nm at start of the tests.
 Actuator : n.a.

<p>Name (ITIS)</p> <p><input checked="" type="checkbox"/> TESTED <input type="checkbox"/> REVIEW <input type="checkbox"/> WITNESSED Date/Signature</p> <p>J. Meijer Industrial Testing & Inspection 14-03-2017</p>	<p>Name authority (TÜV SÜD)</p> <p>I. van Remoortere 14-03-2017</p>
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Industrie Service

ISO 15848-1 QUALIFICATION CERTIFICATE

Valve qualification range: (see par. 8 of ISO 15848-1)

Description	Tested valve	Scope
Stem Seal Material Type 1 st	O-ring Viton	O-ring Viton
Stem Seal Material Type 2 nd	Graphite (Angst & Pfister)	Graphite (Angst & Pfister)
Stem Seal Material Type 3 rd	PTFE (Angst & Pfister)	PTFE (Angst & Pfister)
Gland torque	20Nm	20Nm
Stem Diameter	19.5mm	9.75mm up to 39mm
Stem motion	Quarter turn	Quarter turn
Body seal	O-ring	O-ring
Class	PN16	PN16 and below
Endurance Class	CO1	CO1
Temperature Class	Room Temperature	Room Temperature
Tightness Class	AH	AH or less severe

Performance class:
ISO FE AH — CO1 — SSA 0 — tRT — PN16 — ISO 15848-1

This certificate must be read in conjunction with the full ITIS BV test report number 201600123-R003 rev.1

<p>Name (ITIS)</p> <div style="border: 1px solid black; padding: 5px; width: fit-content;"> <input checked="" type="checkbox"/> TESTED <input type="checkbox"/> REVIEW <input type="checkbox"/> WITNESSED Date/Signature </div> <p>J. Meijer Industrial Testing & Inspection 14-03-2017</p>	<p>Name authority (TUV SUD)</p> <div style="text-align: center;">  </div> <p>I. van Remoortere 14-03-2017</p>
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