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ITIS Certificate  
 201700178-C002

# 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 : Zwick Armaturen GmbH  
 Address : Egerstrasse 1 & 25, D-58256 Enneptal, Germany  
 Nominal size : NPS4  
 Pressure rating : Class 300  
 Valve Type : Butterfly valve  
 Drawing number : ZUSA1G632 (19-04-2017)  
 Prod. number : 17-02-73267  
 Body material : P355NL2 / A516 Gr.70  
 Body gaskets mat. : SS316Ti  
 Stem material : A276 T431  
 Stem seal material 1<sup>st</sup> : Carbon Fibre  
 Stem seal material 2<sup>nd</sup> : Graphite  
 Stem diameter (OD<sub>stem</sub>) : 22mm  
 Gland Stud bolt material : A193 Gr.B8  
 Gland Nut material : A194 Gr.8

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

Description	Tested valve	Scope
Stem Seal Material 1 <sup>st</sup>	Carbon Fibre	Carbon Fibre
Stem Seal Material 2 <sup>nd</sup>	Graphite	Graphite
Stem Diameter	22mm	11mm up to 44mm
Stem motion	¼ turn stem	¼ turn stem
Body seal	Graphite	Graphite
Class	300	300 and below
Endurance Class	CO3	CO3 or less severe
Temperature Class	RT to 200°C	RT to +200°C
Tightness Class	BH	BH or less severe

**Performance class: ISO FE BH — CO3 — SSA 2 — t200°C — CL300 — ISO 15848-1**

This certificate is only valid in conjunction with the full ITIS BV test report number 201700178-R002

<p><b>Name operator (ITIS)</b></p> <p><input type="checkbox"/> TESTED  <input checked="" type="checkbox"/> REVIEW  <input type="checkbox"/> WITNESSED          Date/Signature</p> <p><i>J. van der Hoef</i></p> <p>J. van der Hoef 16-05-2017</p>		<p><b>Agree (ITIS)</b></p> <p><input type="checkbox"/> TESTED  <input checked="" type="checkbox"/> REVIEW  <input type="checkbox"/> WITNESSED          Date/Signature</p> <p><i>P. van Tol</i></p> <p>P. van Tol 16-05-2017</p>
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