

## INSPECTION REPORT

IR No.: 086-03-011-02057  
Date of issue: 08/10/2018

<b>Project Name</b>	01	Module C2 certification for Ball Valve
<b>Owner</b>	02	ZHEJIANG GUOCHENG VALVE CO., LTD
<b>Contractor</b>	03	ZHEJIANG GUOCHENG VALVE CO., LTD
<b>Manufacturer Name &amp; Address</b>	04	ZHEJIANG GUOCHENG VALVE CO., LTD Hesan Industry Zone, DongOu Street, Yongjia County, Zhejiang Province, China
<b>Directive Applied / Module</b>	05	Pressure Equipment Directive 2014/68/EU Module C2
<b>Product Risk Category</b>	06	Category III
<b>Subject of inspection</b>	07	<p><b>Ball Valve</b></p> <p><b>Allowable pressure (PS):</b> 16 - 420 bar &amp; 150 LB - 2500 LB</p> <p><b>Size(PN):</b> DN 25 - 1500 &amp; NPS 1 - 60</p> <p><b>Volume (V):</b> NA</p> <p><b>Drawing No / Date:</b> Q41F/Q41N Series</p> <p><b>Test Pressure (PS):</b> 24 - 630 bar (1.5 * Allowable Pressure)</p> <p><b>Fluid:</b> Gas &amp; Liquid / Group 1 &amp; 2</p> <p><b>Design temperature range:</b> -29 °C - 180 °C</p> <p><b>Operating temperature (TS):</b> -29 °C - 180 °C</p> <p><b>EU Type Examination Certificate No:</b> 086-03-003-00188</p>
<b>Place of inspection</b>	08	Hesan Industry Zone, DongOu Street, Yongjia County, Zhejiang Province, China
<b>Date of inspection</b>	09	21/08/2018
<b>Requirements / Specifications / Norms</b>	10	Pressure Equipment Directive 2014/68/EU API SPEC 6D August 2014 GB/T 19672-2005
<b>Inspection activities</b>	11	<p>Check:</p> <ul style="list-style-type: none"> <li>• technical drawings and calculation sheets;</li> <li>• manual book according to ESR 3.4;</li> <li>• material certificates and related supplier qualification against ESR 4.3 and EN 10204;</li> <li>• calibration certificates;</li> <li>• rating plate based on ESR 3.3;</li> <li>• EU DoC according to Annex IV of PED</li> </ul> <p>witness:</p> <ul style="list-style-type: none"> <li>• final pressure test according to ESR 3.2 and ESR 7.4.</li> </ul>



<p><b>Inspection Remarks</b></p>	<p><b>12</b> ZHEJIANG GUOCHENG VALVE CO., LTD. appointed SWISS APPROVAL TECHNISCHE BEWERTUNG S.A. (No.Bo. 2221), for PED Module C2 certification of their valves manufactured by ZHEJIANG GUOCHENG VALVE CO., LTD. All the certification works are based on the Pressure Equipment Directive 2014/68/EU &amp; the products standards provided by the manufacturer. Inspector verified that manufacturer's products meet the ESR's requirements of the PED directive. The manufacturer should pay more attention on the supplier qualification according to PED ESR 4.3. It is recommended to issue the certificate.</p>
<p><b>Inspector (Name &amp; Signature)</b></p>	<p><b>13</b>  Simon Jiang</p> 
<p><b>Attachments</b> (Photos, docs, etc)</p>	<p><b>14</b> A1. Valves Specification A2. Design Calculations A3. Overall Drawings A4. Manufacture Quality Plan A5. Material Certificates A6. Witness Testing Reports A7. Calibration Certificates A8. In-Process Quality Inspection Record A9. User manual A10. Nameplate A11. EU Declaration of Conformity A12. Application Form A13. Photos ESRs Check list Hazard Analysis Checklist</p>

(END)

# CERTIFICATE

Cert No: 086-03-003-00364  
Date of issue: 08/10/2018  
Date of Expiry: 20/08/2019

## Conformity to Type

Based on internal production control plus supervised pressure equipment checks at random intervals According to Annex III, Module C2 of Directive 2014/68/EU

<b>Manufacturer / Holder:</b> (Name & Address of plant site)	<b>ZHEJIANG GUOCHENG VALVE CO., LTD</b> Hesan Industry Zone, DongOu Street, Yongjia County, Zhejiang Province, China
<b>Description of Pressure Equipment:</b>	<b>Ball Valve</b>
<b>Allowable pressure (PS):</b>	16 - 420 bar & 150 LB - 2500 LB
<b>Size(PN):</b>	DN 25 - 1500 & NPS 1 - 60
<b>Volume (V):</b>	NA
<b>Test Pressure (PS):</b>	24 - 630 bar (1.5 * Allowable Pressure)
<b>Drawing No / Date:</b>	Q41F/Q41N Series
<b>Fluid:</b>	Gas & Liquid / Group 1 & 2
<b>Design temperature range:</b>	-29 °C - 180 °C
<b>Operating temperature (TS):</b>	-29 °C - 180 °C
<b>EU Type Examination Certificate No:</b>	<b>086-03-003-00188</b>
<b>Inspection Test Report No:</b>	086-03-011-02057
<b>Module &amp; Category:</b>	<b>Module C2, Category III</b>
<b>Standards/ Norms applied:</b>	API SPEC 6D August 2014 GB/T 19672-2005


Swiss Approval Technische Bewertung (No.Bo. 2221), following the conformity assessment of the above mentioned manufacturer, verifies that the final assessment and the internal checks on the described pressure equipment are carried out according to the provisions of the Pressure Equipment Directive **2014/68/EU** as stated in **Annex III Module C2**.

The manufacturer has issued the declaration of conformity to the relevant EU-type certification as required by the Directive. This certificate is valid in any European Economic Area Member State

The manufacturer may affix the following marking **CE 2221**, being the SWISS APPROVAL TECHNISCHE BEWERTUNG Notified Body number, to the pressure equipment described above.

  
Inspector  
(Simon Jiang)



  
on behalf of Company  
(Tzaferis Meletis)

33-30-030-F005 rev. 2/12.01.2017

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