

# CERTIFICATE



**Certificate of Conformity with Technical Requirements In:  
API STD 607 Sixth Edition, September 2010**

**Fire Test for Quarter-turn Valves  
and Valves Equipped with Nonmetallic Seats**

Certificate No.: 228825

Ref. Test report No.: P-228825

**Name of Applicant:** FITOK GmbH  
**Address:** Spremlinger Landstr. 115 ,63069 Offenbach, Germany

**Name of Manufacturer:** FITOK Incorporated  
**Address:** 1-4F,Block C,Zone E,Yingtai Industrial Park,Dalang Street,  
Bao'an District, Shenzhen, Guangdong, 518109, China

We hereby certify that the fire test on below valves have been conducted for above mentioned manufacturer and witnessed by TÜV SÜD Engineer according to requirements of API Std 607 Sixth Edition, September 2010. The testing results of valves meet the requirements of API Std 607 Sixth Edition, September 2010.

**1. Description of Test Valve \* :**

|                              |                              |                                  |
|------------------------------|------------------------------|----------------------------------|
| Type of Test Valve           | BISS-FJ32-1500-P50G-I        | DBBSS-BBN5-FJ321500-V4-F-I       |
| Description of Test Valve *  | 2 PCS Flanged End Ball Valve | 3 PCS Flanged End Ball Valve     |
| Valve Size ( bore), NPS      | 2                            |                                  |
| Pressure Rating (ANSI Class) | 1500                         |                                  |
| Valve Body Material          | ASTM A182 F316               |                                  |
| Weight of Test Valve ( Kgs)  | 47 Kgs                       | 70 Kgs                           |
| Drawing No. / Rev.           | BISS-FJ32-1500-P50G-I Rev.1  | DBBSS-BBN5-FJ321500-V4-F-I Rev.1 |

**2. Qualified Range of Valves :**

| Type   | BI  | DBB                 |
|--|---|---------------------|
| Description of Valves  | 2 PCS Ball Valves   | 3 PCS Ball Valves   |
| Qualified Pressure Ratings(Class)<br><i>( according to API 607 Table 5 )</i> | 1500 ; 2500   |                     |
| Qualified Sizes ( NPS )<br><i>( according to API 607 Table 3 )</i>           | 2 and below ; 2-1/2 ; 3 ; 4   |                     |
| Qualified Valve Material<br><i>( according to API 607 Para.7.2 )</i>         | Austenitic ( with Alloy and Austenitic steel bolting )                                  |                     |
| Qualified Valves Mass<br><i>( according to API 607 Para.7.1 e )</i>          | 35.25 kgs and larger  | 52.5 kgs and larger |
| Remark:  | * The technical data of test valve is described in details on back of this certificate. |                     |

This certificate is issued according to API STD 607 Sixth Edition, September 2010 based upon the result of testing report on above mentioned test valves. The additional valve qualification shall be limited to similar valves of same basic design (including calculation method) and construction as the test valves and of the same nonmetallic materials as the test valve in the seat-to-closure member seal, seat-to-body seal, stem seal, and body joint and seal, etc. according to API STD607 Sixth Edition September 2010.

Beijing, Jan., 12<sup>th</sup> , 2016

*(Place, date)*

  
 Mr. Qianjian Wu  
 TÜV SÜD Industrie Service GmbH

Certificate No.: 228825

Ref. Test report No.: P- 228825



Industrie Service

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**Address:** Spremlinger Landstr. 115 ,63069 Offenbach, Germany

**Name of Manufacturer:** FITOK Incorporated  
**Address:** 1-4F,Block C,Zone E,Yingtai Industrial Park,Dalang Street,  
 Bao'an District, Shenzhen, Guangdong, 518109, China

**Fire Testing Location:** Hefei General Machinery & Electrical Products Inspection Institute  
 No.888, West Changjiang Road, Hefei, Anhui, P.R. China

**Technical Data of Test Valves**

**Description of Test Valve:**

|                              |  |  |
|------------------------------|--|--|
| Type of Test Valves          | BISS-FJ32-1500-P50G-I                        | DBBSS-BBN5-FJ321500-V4-F-I                   |
| Description of Valves        | 2 PCS Flanged End Ball Valve without Gearbox | 3 PCS Flanged End Ball Valve without Gearbox |
| Test Valve SN.               | MJd151011979                                 | LFE151008081                                 |
| Design Standard              | ASME B16.34 edition 2013                     |  |
| Flanged End Standard         | ASME B16.5 edition 2013                      |  |
| Inspection and Test Standard | API 598 edition2009                          |  |

| Part Name                         | Material                    | Materials                        |
|-----------------------------------|-----------------------------|----------------------------------|
| Handle                            | ASTM A693 Type 630          | ASTM A693 Type 630               |
| Stop Pin                          | GB/T119.1 304               | GB/T119.1 304                    |
| Hexagon Thin Nut /Stem Nut        | GB/T6172.1 A4-035           | GB/T6172.1 A4-035                |
| Stem Spring Washer /Spring Washer | GB/T93 1Cr18Ni9Ti           | GB/T93 1Cr18Ni9Ti                |
| Gland Bridge                      | ASTM A240 304               | ASTM A240 304                    |
| Set Bolt /Screw                   | GB/T70.1 A2-70              | GB/T70.1 A2-70                   |
| Body                              | ASTM A182 F316              | ASTM A182 F316                   |
| Bolt                              | ASTM A193 B8M               | ASTM A193 B8M                    |
| Hexagon Nut                       | GB/T6170 A2-70              | GB/T6170 A2-70                   |
| Body Gland                        | ASTM A182 F316              | ASTM A182 F316                   |
| Seal Ring                         | Graphite                    | Graphite                         |
| Seat                              | PEEK                        | PEEK                             |
| Ball                              | ASTM A479 316               | ASTM A479 316                    |
| Stem                              | ASTM A564 Type 630          | ASTM A564 Type 630               |
| Packing Gland                     | ASTM A564 Type 630          | ASTM A564 Type 630               |
| Knit Packing Washer               | Graphite                    | Graphite                         |
| Packing                           | Graphite                    | Graphite                         |
| Packing Washer                    | ASTM A276 316               | ASTM A276 316                    |
| Bearing                           | ASMT A479 Type 410          | ASMT A479 Type 410               |
| Gasket                            | PEEK                        | PEEK                             |
| Plug                              | --                          | ASTM A276 316                    |
| Round Bar Handle                  | --                          | ASTM A276 321                    |
| Set Screw                         | --                          | GB/T79 A2                        |
| Packing Gland                     | --                          | ASTM A276 304                    |
| Upper Stem                        | --                          | ASTM A276 316                    |
| Lock Nut                          | --                          | ASTM B783 Type 630               |
| Bonnet                            | --                          | ASTM A479 316                    |
| Gland ( Part No.-29 )             | --                          | ASTM A276 316                    |
| Lower Stem                        | --                          | ASTM A276 316                    |
| Weight of Test Valve              | 47 Kgs                      | 70 Kgs                           |
| Drawing No./ Rev. :               | BISS-FJ32-1500-P50G-I Rev.1 | DBBSS-BBN5-FJ321500-V4-F-I Rev.1 |

Beijing, Jan.,12<sup>th</sup> , 2016

(Place, date)

Mr. Qinjian Wu

TÜV SÜD Industrie Service GmbH

