



**Inspection Certificate and Material Test Report**  
(EN10204-1991 3.1.B / EN10204-2004 3.1)

DSI-Valve Solutions  
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Stafford TX 77477  
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www.dsi valve.com

**Certificate/Serial/Job No:** YD96 / 19

**Quality Department:** John Ho

| Quantity | Size (NPS) | Class | Product  | Description | Type | SONumber | Line | Sold to | Date      |
|----------|------------|-------|----------|-------------|------|----------|------|---------|-----------|
| 66       | 4          | 300   | / 103060 | DSI 23XUF   | GATE |          |      |         | 3/31/2012 |

|                              |  |   |  |  |  |
|------------------------------|--|---|--|--|--|
| <b>Pressure Test:</b> API598 | <input checked="" type="checkbox"/> Satisfactory | <b>Shell Pressure:</b> 1125 psi<br>7756.6 kPa | <b>BackSeat:</b> 825 psi<br>5688.2 kPa | <b>Seat Pressure:</b> 825 psi<br>5688.17 kPa | <b>Seat Air Pressure:</b> 80 psi<br>551.58 kPa |
|------------------------------|--|---|--|--|--|

| Part   | Specif.             | HEAT No | Chemical Composition [%] |      |      |       |       |       |       |       |       |       |    | Mechanical Properties |   |                           |                         |              |              |              |             |             |             |              |                     |      |   |
|--------|---------------------|---------|--------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|----|-----------------------|---|---------------------------|-------------------------|--------------|--------------|--------------|-------------|-------------|-------------|--------------|---------------------|------|---|
|        |                     |         | C                        | Si   | Mn   | P     | S     | Ni    | Cr    | Mo    | Cu    | V     | Nb | Al                    | N | Tensile<br>[ksi]<br>[MPa] | Yield<br>[ksi]<br>[MPa] | Elong<br>[%] | Reduc<br>[%] | Hard<br>[HB] | Ch.1<br>[J] | Ch.2<br>[J] | Ch.3<br>[J] | Ch. A<br>[J] | Temp.<br>[F]<br>[C] | Heat |   |
| BODY   | ASTM A216 WCB-2008  | A 11724 | 0.200                    | 0.43 | 0.84 | 0.024 | 0.011 | 0.030 | 0.059 | 0.002 | 0.030 | 0.005 |    | 0.029                 |   | 72.79                     | 42.78                   | 30           | 58           | 150          |             |             |             |              |                     |      | N |
| BONNET | ASTM A216 WCB-2008  | A 11112 | 0.220                    | 0.47 | 0.87 | 0.030 | 0.018 | 0.027 | 0.098 | 0.002 | 0.035 | 0.006 |    | 0.042                 |   | 72.50                     | 43.21                   | 30           | 58           | 149          |             |             |             |              |                     |      | N |
| WEDGE  | ASTM A217 CA15-2007 | D 7046  | 0.12                     | 0.90 | 0.81 | 0.025 | 0.011 | 0.129 | 12.60 | 0.093 | 0.035 |       |    |                       |   | 104.55                    | 73.95                   | 19.3         | 48           | 266          |             |             |             |              |                     | N    |   |
|        |                     |         |                          |      |      |       |       |       |       |       |       |       |    |                       |   | 720.85                    | 509.9                   |              |              |              |             |             |             |              |                     |      |   |

**Heat Treatment Codes:**

|                                |                              |                        |                         |                          |                    |
|--------------------------------|------------------------------|------------------------|-------------------------|--------------------------|--------------------|
| A : Annealing                  | AC : Air Cooling             | DA : Double Aged       | FT : Furnace Treatment  | N : Normalizing          | OQ : Oil Quenched  |
| Ph-3 : Precipitation Hardening | SA : Solution Annealed       | SQ : Solution Quenched | ST : Solution Treatment | T : Tempering            | WC : Water Cooling |
| WO : Water Quenched            | WT : Water Quenched/Tempered |                        |                         | NT : Normalized/Tempered |                    |

| Part               | Material                    |
|--------------------|-----------------------------|
| BACK SEAT          | ASTM A276 410               |
| BODY/BONNET        | ASTM A216 WCB               |
| BOLTING            | ASTM A193 B7 / ASTM A194 2H |
| DISC-WEDGE-CLAPPER | ASTM A217 CA15              |
| PACKING            | GRAPHITE                    |
| SEAT RING          | ASTM A105 + Stl.6 Faced     |
| STEM               | ASTM A182 F6A Cl. 3         |
| STEM NUT           | ASTM A439-D2                |

Valves Tested per API598

We hereby certify, that the material described above complies with the order requirements.

**EC Declaration of Conformity:** JEV (Jiangyin Eastern Valve Co. Ltd.), Jiangsu Province, 214423, P.R. China

According to Annex VII of Pressure Equipment Directive 97/23/EC, hereby declare that the products detailed above are in compliance with PED 97/23/EC and have been manufactured in accordance with conformity assessment module B+D as approved Det Norske Veritas Inspection AB as Identification No 0575 (formally 0409). The products may cover Category I, II and III of pressure equipment. For the most specific risks of this equipment, safety and compliance with essential requirements of the Directive has been based on API 600, API598, ASME B16.34, ASME B16.5, ASME B16.10 latest edition.

Undersigned by Liu Jian Qing, representing Jiangyin Eastern Valve company Ltd. :