

MILL CERTIFICATE

FINANCED UNDER A BLD
HONG LEONG BANK BERHAD

| CLIENT: UNIMECH ENGINEERING (M) SDN BHD WISMA UNIMECH, 4934 JALAN CHAIN FERRY, 12100 BUTTERWORTH PENANG, MALAYSIA | DESCRIPTION: 244 PCS SS 304 AND 316 BALL VALVE F/E 2PCS GATE VALVE F/E AS PER P/INV NO. FS0411 DRAWN UNDER HONG LEONG BANK BERHAD LC NO.LCPRA041735 DATED 15 MARCH 2021. | Client's Order No: ZPO-2012-0026 ZPO-2102-0011 ZPO-2101-0011 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|-------------------------------|-----------------------------------|--|---------------------------|-------------|--|---|-----------------------|-------------------|-----------------------|--|---|---|------|-------|-------|-------|--|---|------|-----|------|------|---|---|------|------|-------|-----|---|---|-----|------|------|------|------|------|------|-------|-------|------|------|-----|------|------|------|------|------|------|-------|-----|------|------|-----|--|
| STANDARD OF CHEMICAL COMPOSITION | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>C</th> <th>Si</th> <th>Mn</th> <th>P</th> <th>S</th> <th>Ni</th> <th>Cr</th> <th>Mo</th> <th>TENSILE σ b(Mpa)</th> <th>YIELD σ s(Mpa)</th> <th>ELONGATION δ (Mpa)</th> </tr> </thead> <tbody> <tr> <td>0.30</td> <td>0.60</td> <td>1.00</td> <td>0.04</td> <td>0.045</td> <td>-----</td> <td>-----</td> <td>-----</td> <td>485~655</td> <td>≥250</td> <td>≥22</td> </tr> <tr> <td>0.08</td> <td>1.50</td> <td>1.50</td> <td>0.04</td> <td>0.04</td> <td>9-12</td> <td>18-21</td> <td>2-3</td> <td>≥485</td> <td>≥205</td> <td>≥30</td> </tr> <tr> <td>0.08</td> <td>2.00</td> <td>1.50</td> <td>0.04</td> <td>0.04</td> <td>8-11</td> <td>18-21</td> <td>-----</td> <td>≥481</td> <td>≥206</td> <td>≥33</td> </tr> <tr> <td>0.08</td> <td>2.00</td> <td>1.50</td> <td>0.04</td> <td>0.04</td> <td>8-11</td> <td>18-21</td> <td>0.5</td> <td>≥485</td> <td>≥205</td> <td>≥35</td> </tr> </tbody> </table> | C | Si | Mn | P | S | Ni | Cr | Mo | TENSILE σ b(Mpa) | YIELD σ s(Mpa) | ELONGATION δ (Mpa) | 0.30 | 0.60 | 1.00 | 0.04 | 0.045 | ----- | ----- | ----- | 485~655 | ≥250 | ≥22 | 0.08 | 1.50 | 1.50 | 0.04 | 0.04 | 9-12 | 18-21 | 2-3 | ≥485 | ≥205 | ≥30 | 0.08 | 2.00 | 1.50 | 0.04 | 0.04 | 8-11 | 18-21 | ----- | ≥481 | ≥206 | ≥33 | 0.08 | 2.00 | 1.50 | 0.04 | 0.04 | 8-11 | 18-21 | 0.5 | ≥485 | ≥205 | ≥35 | |
| C | Si | Mn | P | S | Ni | Cr | Mo | TENSILE σ b(Mpa) | YIELD σ s(Mpa) | ELONGATION δ (Mpa) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.30 | 0.60 | 1.00 | 0.04 | 0.045 | ----- | ----- | ----- | 485~655 | ≥250 | ≥22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.08 | 1.50 | 1.50 | 0.04 | 0.04 | 9-12 | 18-21 | 2-3 | ≥485 | ≥205 | ≥30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.08 | 2.00 | 1.50 | 0.04 | 0.04 | 8-11 | 18-21 | ----- | ≥481 | ≥206 | ≥33 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.08 | 2.00 | 1.50 | 0.04 | 0.04 | 8-11 | 18-21 | 0.5 | ≥485 | ≥205 | ≥35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (TEST CONDITIONS TO API598 UNLESS OTHERWISE STATED) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DESCRIPTION | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>END CONNECTION</th> <th>SHELL TEST (Mpa)</th> <th>HIGH-PRESSURE RE TEST (Mpa)</th> <th>LOW-PRESSURE TEST (Mpa)</th> <th>BACKSEAT TEST (Mpa)</th> <th>TEMPERATURE</th> </tr> </thead> <tbody> <tr> <td>150LB/10K-ball valve <input checked="" type="checkbox"/></td> <td>FLGD <input checked="" type="checkbox"/> SCREW <input type="checkbox"/></td> <td>3.2</td> <td>0.6</td> <td></td> <td>-29°C -180°C (SS valve) -29°C -300°C (CS valve)</td> </tr> <tr> <td>PN16-ball valve <input checked="" type="checkbox"/></td> <td>FLGD <input checked="" type="checkbox"/> SCREW <input type="checkbox"/></td> <td>2.4</td> <td>0.6</td> <td></td> <td></td> </tr> <tr> <td>150LB-gate valve <input checked="" type="checkbox"/></td> <td>FLGD <input checked="" type="checkbox"/> SCREW <input type="checkbox"/></td> <td>3.1</td> <td>0.6</td> <td></td> <td></td> </tr> <tr> <td>150LB/10K-swing check <input checked="" type="checkbox"/></td> <td>FLGD <input checked="" type="checkbox"/> SCREW <input type="checkbox"/></td> <td>3.2</td> <td>2.1</td> <td></td> <td></td> </tr> <tr> <td>10K/150LB-globe valve <input checked="" type="checkbox"/></td> <td>FLGD <input checked="" type="checkbox"/> SCREW <input type="checkbox"/></td> <td>3.2</td> <td>2.1</td> <td></td> <td></td> </tr> </tbody> </table> | END CONNECTION | SHELL TEST (Mpa) | HIGH-PRESSURE RE TEST (Mpa) | LOW-PRESSURE TEST (Mpa) | BACKSEAT TEST (Mpa) | TEMPERATURE | 150LB/10K-ball valve <input checked="" type="checkbox"/> | FLGD <input checked="" type="checkbox"/> SCREW <input type="checkbox"/> | 3.2 | 0.6 | | -29°C -180°C (SS valve) -29°C -300°C (CS valve) | PN16-ball valve <input checked="" type="checkbox"/> | FLGD <input checked="" type="checkbox"/> SCREW <input type="checkbox"/> | 2.4 | 0.6 | | | 150LB-gate valve <input checked="" type="checkbox"/> | FLGD <input checked="" type="checkbox"/> SCREW <input type="checkbox"/> | 3.1 | 0.6 | | | 150LB/10K-swing check <input checked="" type="checkbox"/> | FLGD <input checked="" type="checkbox"/> SCREW <input type="checkbox"/> | 3.2 | 2.1 | | | 10K/150LB-globe valve <input checked="" type="checkbox"/> | FLGD <input checked="" type="checkbox"/> SCREW <input type="checkbox"/> | 3.2 | 2.1 | | | | | | | | | | | | | | | | | | | | | | |
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| 150LB/10K-ball valve <input checked="" type="checkbox"/> | FLGD <input checked="" type="checkbox"/> SCREW <input type="checkbox"/> | 3.2 | 0.6 | | -29°C -180°C (SS valve) -29°C -300°C (CS valve) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PN16-ball valve <input checked="" type="checkbox"/> | FLGD <input checked="" type="checkbox"/> SCREW <input type="checkbox"/> | 2.4 | 0.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 150LB-gate valve <input checked="" type="checkbox"/> | FLGD <input checked="" type="checkbox"/> SCREW <input type="checkbox"/> | 3.1 | 0.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 150LB/10K-swing check <input checked="" type="checkbox"/> | FLGD <input checked="" type="checkbox"/> SCREW <input type="checkbox"/> | 3.2 | 2.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10K/150LB-globe valve <input checked="" type="checkbox"/> | FLGD <input checked="" type="checkbox"/> SCREW <input type="checkbox"/> | 3.2 | 2.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| We hereby certify that all the valves of supplied are manufactured, assembled and tested in our company. Condition shown in the certification has been carried out and witness. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DATE: 2021/3/17 | | INSPECTION DEPARTMENT: WUXI FUSHENG VALVE INDUSTRIAL CO.,LTD.(QA DEPARTMENT) AS MILL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

