

## Forged Steel Gate Valve– Screwed, Socket Weld, Flanged



| Model             | Type            | End Connection                              |
|-------------------|-----------------|---------------------------------------------|
| WFG800R           | Screwed End     | Reduced Port                                |
| WFG801R           | Socket Weld End | Reduced Port                                |
| WFG815R           | Flanged         | Reduced Port                                |
| WFG830R           | Flanged         | Reduced Port                                |
| WFG860R           | Flanged         | Reduced Port                                |
| Workin Condition  | 10K             | 1.0 MPa at 280°C / 5.18 MPa at -7°C ~ -38°C |
|                   | 20K             | 2.1 MPa at 450°C / 5.18 MPa at -7°C ~ -38°C |
|                   | 30K~40K         | 4.2 MPa at 450°C / 10.3 MPa at -7°C ~ -38°C |
| Hydraulic Testing | 10K             | Body 8.3 MPa<br>Seat 6.1 MPa                |
|                   | 20K             |                                             |
|                   | 30K~40K         |                                             |
| Leak Testing      | 10K             | Seat 0.56MPa                                |
|                   | 20K             |                                             |
|                   | 30K~40K         |                                             |
| Body & Bonnet     |                 | Carbon Steel – ASTM A105                    |
| Trim              | 13 Cr.          |                                             |
|                   | 13 Cr.          |                                             |
|                   | 304 S.S         |                                             |
|                   | 316 S.S         |                                             |

| Screwed / Socket Weld |      |           |           |     |      |               |           |           |       |
|-----------------------|------|-----------|-----------|-----|------|---------------|-----------|-----------|-------|
| Port                  | Size | φD        | L         | H   | φd   | Weight (Kg)   | Cv        |           |       |
| Reduced               | 15A  | 100       | 76        | 143 | 9.5  | 1.5           | 6.0       |           |       |
|                       | 20A  | 100       | 86        | 153 | 12.7 | 2.0           | 11.3      |           |       |
|                       | 25A  | 125       | 102       | 186 | 18.0 | 2.8           | 26.3      |           |       |
|                       | 32A  | 125       | 117       | 238 | 31.0 | 5.2           | 78.0      |           |       |
|                       | 40A  | 155       | 117       | 238 | 31.0 | 5.1           | 78.0      |           |       |
|                       | 50A  | 175       | 133       | 267 | 37.0 | 8.2           | 115.0     |           |       |
| Flanged               |      |           |           |     |      |               |           |           |       |
| Size                  | φD   | L         |           |     | H    | Weight (Kg)   |           |           | Cv    |
|                       |      | 150 (10K) | 300 (20K) | 600 |      | (Full opened) | 150 (10K) | 300 (20K) |       |
| 15A                   | 100  | 108       | 108       | 165 | 152  | 2.5           | 3.0       | 3.3       | 6.0   |
| 20A                   | 100  | 117       | 117       | 190 | 155  | 3.1           | 4.0       | 4.6       | 11.3  |
| 25A                   | 122  | 127       | 127       | 216 | 187  | 4.7           | 6.0       | 6.6       | 26.3  |
| 32A                   | 140  | 140       | 140       | 229 | 199  | 8.7           | 11.0      | 12.2      | 78.0  |
| 40A                   | 140  | 165       | 165       | 241 | 238  | 8.7           | 11.0      | 12.2      | 78.0  |
| 50A                   | 165  | 178       | 178       | 292 | 275  | 12.2          | 14.0      | 15.8      | 115.0 |

## Forged Steel Globe Valve– Screwed, Socket Weld, Flanged



| Model             | Type            | End Connection                              |
|-------------------|-----------------|---------------------------------------------|
| WFL800R           | Screwed End     | Reduced Port                                |
| WFL801R           | Socket Weld End | Reduced Port                                |
| WFL815R           | Flanged         | Reduced Port                                |
| WFL830R           | Flanged         | Reduced Port                                |
| WFL860R           | Flanged         | Reduced Port                                |
| Workin Condition  | 10K             | 1.0 MPa at 280°C / 5.18 MPa at -7°C ~ -38°C |
|                   | 20K             | 2.1 MPa at 450°C / 5.18 MPa at -7°C ~ -38°C |
|                   | 30~40K          | 4.2 MPa at 450°C / 10.3 MPa at -7°C ~ -38°C |
| Hydraulic Testing | 10K             | Body 8.3 MPa<br>Seat 6.1 MPa                |
|                   | 20K             |                                             |
|                   | 30~40K          |                                             |
| Leak Testing      | 10K             | Seat - 0.56 MPa                             |
|                   | 20K             |                                             |
|                   | 30~40K          |                                             |
| Body & Bonnet     |                 | Carbon steel - ASTM A105                    |
| Trim              | 13 Cr.          |                                             |
|                   | 13 Cr.          |                                             |
|                   | 304 S.S         |                                             |
|                   | 316 S.S         |                                             |

| Screwed / Socket Weld |      |           |           |               |               |             |           |      |       |
|-----------------------|------|-----------|-----------|---------------|---------------|-------------|-----------|------|-------|
| Port                  | Size | ø D       | L         | H<br>(Opened) | ø d           | Weight (Kg) | Cv        |      |       |
| Reduced               | 15A  | 100       | 76        | 149           | 9.5           | 1.8         | 2.0       |      |       |
|                       | 20A  | 100       | 86        | 157           | 12.7          | 2.1         | 3.0       |      |       |
|                       | 25A  | 125       | 102       | 181           | 17.5          | 2.9         | 5.5       |      |       |
|                       | 32A  | 125       | 152       | 232           | 22.5          | 6.4         | 17.0      |      |       |
|                       | 40A  | 155       | 152       | 232           | 29.5          | 6.4         | 17.0      |      |       |
|                       | 50A  | 175       | 172       | 276           | 35.0          | 9.7         | 21.0      |      |       |
| Flanged               |      |           |           |               |               |             |           |      |       |
| Size                  | ø D  | L         |           |               | H<br>(Opened) | Weight (Kg) |           |      | Cv    |
|                       |      | 150 (10K) | 300 (20K) | 600           |               | 150 (10K)   | 300 (20K) | 600  |       |
| 15A                   | 102  | 108       | 108       | 165           | 158           | 2.5         | 3.0       | 3.3  | 6.0   |
| 20A                   | 102  | 117       | 117       | 190           | 162           | 3.1         | 4.0       | 4.6  | 11.3  |
| 25A                   | 114  | 127       | 127       | 216           | 201           | 4.7         | 6.0       | 6.6  | 26.3  |
| 32A                   | 140  | 140       | 140       | 229           | 215           | 8.7         | 11.0      | 12.2 | 78.0  |
| 40A                   | 140  | 165       | 165       | 241           | 241           | 8.7         | 11.0      | 12.2 | 78.0  |
| 50A                   | 165  | 203       | 203       | 292           | 290           | 12.2        | 14.0      | 15.8 | 115.0 |

## Forged Steel Check Valve (Swing, Lift) –Screwed,Socket Weld,Flanged



| Model            | Type                                       | End Connection |
|------------------|--------------------------------------------|----------------|
| WLC800R          | Screwed End                                | Reduced Port   |
| WLC801R          | Socket Weld End                            | Reduced Port   |
| WSC800R          | Screwed End                                | Reduced Port   |
| WSC801R          | Socket Weld End                            | Reduced Port   |
| WLC815R          | Flanged                                    | Reduced Port   |
| WLC830R          | Flanged                                    | Reduced Port   |
| WLC860R          | Flanged                                    | Reduced Port   |
| WSC815R          | Flanged                                    | Reduced Port   |
| WSC830R          | Flanged                                    | Reduced Port   |
| WSC860R          | Flanged                                    | Reduced Port   |
| Workin Condition | 5.6MPa at 454 °C / 14 MPa at -7 °C ~ -38°C |                |
|                  | Body                                       | 8.3 MPa        |
|                  | Seat                                       | 6.1 MPa        |
| Leak Testing     | Seat                                       | 0.56MPa        |
| Body & Bonnet    | Carbon steel – ASTM A105                   |                |
| Trim             | 13 Cr.                                     |                |
|                  | 13 Cr.                                     |                |
|                  | 304 S.S                                    |                |
|                  | 316 S.S                                    |                |

| Screwed / Socket Weld (Lift Check) |      |     |     |            |             |      | Screwed / Socket Weld (Swing Check) |      |     |      |            |             |    |
|------------------------------------|------|-----|-----|------------|-------------|------|-------------------------------------|------|-----|------|------------|-------------|----|
| Port                               | Size | φ D | L   | H (Opened) | Weight (Kg) | Cv   | Port                                | Size | φ D | L    | H (Opened) | Weight (Kg) | Cv |
| Reduced                            | 15A  | 76  | 48  | 9.5        | 1.0         | 1.0  | 15A                                 | 76   | 48  | 9.5  | 0.9        | 6.0         |    |
|                                    | 20A  | 86  | 54  | 12.7       | 1.3         | 2.7  | 20A                                 | 86   | 54  | 12.7 | 1.1        | 11.3        |    |
|                                    | 25A  | 102 | 63  | 17.5       | 2.3         | 5.4  | 25A                                 | 102  | 63  | 18.0 | 2.0        | 26.3        |    |
|                                    | 32A  | 152 | 81  | 22.5       | 5.0         | 16.0 | 32A                                 | 117  | 86  | 31.0 | 4.4        | 78.0        |    |
|                                    | 40A  | 152 | 81  | 29.5       | 5.0         | 16.0 | 40A                                 | 117  | 86  | 31.0 | 4.4        | 78.0        |    |
|                                    | 50A  | 172 | 102 | 35.0       | 7.0         | 20.0 | 50A                                 | 133  | 102 | 37.0 | 6.2        | 115.0       |    |

| Flanged |           |           |     |             |           |      |       |  |  |
|---------|-----------|-----------|-----|-------------|-----------|------|-------|--|--|
| Size    | φ D       |           |     | Weight (Kg) |           |      | Cv    |  |  |
|         | 150 (10K) | 300 (20K) | 600 | 150 (10K)   | 300 (20K) | 600  |       |  |  |
| 15A     | 108       | 108       | 165 | 2.5         | 3.0       | 3.3  | 6.0   |  |  |
| 20A     | 117       | 117       | 190 | 3.1         | 4.0       | 4.6  | 11.3  |  |  |
| 25A     | 127       | 127       | 216 | 4.7         | 6.0       | 6.6  | 26.3  |  |  |
| 32A     | 140       | 140       | 229 | 8.7         | 11.0      | 12.2 | 78.0  |  |  |
| 40A     | 165       | 165       | 241 | 8.7         | 11.0      | 12.2 | 78.0  |  |  |
| 50A     | 178       | 178       | 292 | 12.2        | 14.0      | 15.8 | 115.0 |  |  |