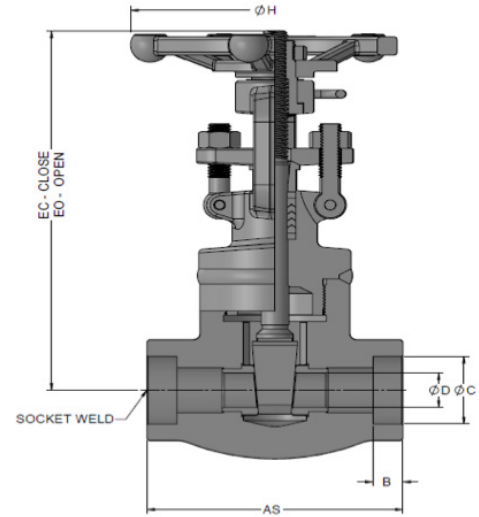
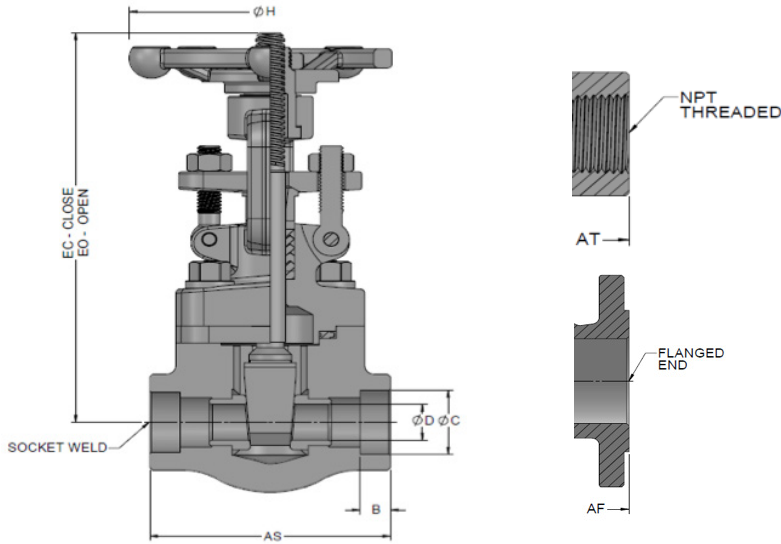


# Gate Valve Standard Port



## 501 Series: Bolted Bonnet

## 505 Series: Welded Bonnet

| STANDARDS       |                               |                      |              |                    |
|-----------------|-------------------------------|----------------------|--------------|--------------------|
| DESIGN:         | API 602                       | TESTING:             | API 598      |                    |
|                 | ASME B16.34                   |                      | CONNECTIONS: | NPT - ASME B1.20.1 |
|                 | FACE-TO-FACE - ASME B16.10    |                      |              | SW - ASME B16.11   |
| PRESSURE CLASS: | NPT, SW & BW - 800, 1500      | BW- ASME B16.25      |              |                    |
|                 | FLANGED - 150, 300, 600, 1500 | FLANGED - ASME B16.5 |              |                    |

| SIZE  |      | DIMENSIONS |        |        |        |         |         |                |           |                 |                 |                 |                 |             |             | WGT (lb/kg) |           |           |           |           |           |           |           |           |      |
|-------|------|------------|--------|--------|--------|---------|---------|----------------|-----------|-----------------|-----------------|-----------------|-----------------|-------------|-------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------|
|       |      | AT/AS 800  | AF-150 | AF-300 | AF-600 | B (Min) | C (Min) | D (Min)-NPT/SW | D(Min)-RF | EC-NPT/SW (501) | EO-NPT/SW (501) | EC-NPT/SW (505) | EO-NPT/SW (505) | EC RF (501) | EO RF (501) | H           | 150 (501) | 150 (505) | 300 (501) | 300 (505) | 600 (501) | 600 (505) | 800 (501) | 800 (505) |      |
| 1/4   | Inch | 3.11       | /      | /      | /      | 0.39    | 0.56    | 0.30           | /         | 5.59            | 6.18            | 5.63            | 6.22            | /           | /           | 3.94        | /         | /         | /         | /         | /         | /         | /         | 4.63      | 3.97 |
|       | mm   | 79.0       | /      | /      | /      | 10.0    | 14.2    | 7.5            | /         | 142.0           | 157.0           | 143.0           | 158.0           | /           | /           | 100.0       | /         | /         | /         | /         | /         | /         | /         | 2.1       | 1.8  |
| 3/8   | Inch | 3.11       | /      | /      | /      | 0.39    | 0.69    | 0.39           | /         | 5.59            | 6.18            | 5.63            | 6.22            | /           | /           | 3.94        | /         | /         | /         | /         | /         | /         | /         | 4.63      | 3.97 |
|       | mm   | 79.0       | /      | /      | /      | 10.0    | 17.6    | 10             | /         | 142.0           | 157.0           | 143.0           | 158.0           | /           | /           | 100.0       | /         | /         | /         | /         | /         | /         | /         | 2.1       | 1.8  |
| 1/2   | Inch | 3.11       | 4.25   | 5.51   | 6.50   | 0.39    | 0.86    | 0.51           | 0.37      | 5.59            | 6.18            | 5.63            | 6.22            | 5.51        | 6.02        | 3.94        | 5.95      | 7.50      | 7.72      | 8.31      | 8.60      | 9.26      | 4.41      | 3.75      |      |
|       | mm   | 79.0       | 108.0  | 140.0  | 165.0  | 10.0    | 21.8    | 13.0           | 9.5       | 142.0           | 157.0           | 143.0           | 158.0           | 140.0       | 153.0       | 100.0       | 2.7       | 3.4       | 3.5       | 3.8       | 3.9       | 4.2       | 2.0       | 1.7       |      |
| 3/4   | Inch | 3.62       | 4.61   | 5.98   | 7.48   | 0.51    | 1.07    | 0.51           | 0.51      | 5.59            | 6.18            | 5.79            | 6.38            | 5.59        | 6.18        | 3.94        | 7.50      | 8.77      | 10.14     | 10.78     | 11.90     | 12.79     | 4.85      | 4.41      |      |
|       | mm   | 92.0       | 117.0  | 152.0  | 190.0  | 13.0    | 27.2    | 13.0           | 13.0      | 142.0           | 157.0           | 147.0           | 162.0           | 142.0       | 157.0       | 100.0       | 3.4       | 4.0       | 4.6       | 4.9       | 5.4       | 5.8       | 2.2       | 2.0       |      |
| 1     | Inch | 4.37       | 5.00   | 6.50   | 8.50   | 0.51    | 1.33    | 0.71           | 0.71      | 6.50            | 7.28            | 7.01            | 7.80            | 6.50        | 7.28        | 4.72        | 11.68     | 13.49     | 14.77     | 15.94     | 16.53     | 19.40     | 7.72      | 8.38      |      |
|       | mm   | 111.0      | 127.0  | 165.0  | 216.0  | 13.0    | 33.9    | 18.0           | 18.0      | 165.0           | 185.0           | 178.0           | 198.0           | 165.0       | 185.0       | 120.0       | 5.3       | 6.1       | 6.7       | 7.2       | 7.5       | 8.8       | 3.5       | 3.8       |      |
| 1-1/4 | Inch | 4.72       | 5.51   | 7.01   | 9.02   | 0.51    | 1.68    | 0.94           | 0.94      | 7.87            | 8.90            | 8.03            | 9.06            | 7.87        | 8.90        | 6.30        | 16.98     | 19.93     | 21.16     | 23.26     | 24.91     | 29.50     | 12.13     | 12.79     |      |
|       | mm   | 120.0      | 140.0  | 178.0  | 229.0  | 13.0    | 42.7    | 24.0           | 24.0      | 200.0           | 226.0           | 204.0           | 230.0           | 200.0       | 226.0       | 160.0       | 7.7       | 9.0       | 9.6       | 10.6      | 11.3      | 13.4      | 5.5       | 5.8       |      |
| 1-1/2 | Inch | 4.72       | 6.50   | 7.48   | 9.49   | 0.51    | 1.92    | 1.14           | 1.14      | 8.23            | 9.49            | 8.39            | 9.61            | 8.27        | 9.49        | 6.30        | 20.94     | 22.93     | 26.68     | 27.87     | 31.97     | 34.39     | 14.11     | 14.11     |      |
|       | mm   | 120.0      | 165.0  | 190.0  | 241.0  | 13.0    | 48.8    | 29.0           | 29.0      | 209.0           | 241.0           | 213.0           | 244.0           | 210.0       | 241.0       | 160.0       | 9.5       | 10.4      | 12.1      | 12.6      | 14.5      | 15.6      | 6.4       | 6.4       |      |
| 2     | Inch | 5.51       | 7.01   | 8.50   | 11.50  | 0.65    | 2.41    | 1.44           | 1.44      | 9.02            | 10.75           | 9.65            | 11.18           | 9.45        | 11.02       | 8.66        | 30.86     | 34.17     | 37.70     | 39.68     | 45.86     | 42.99     | 20.50     | 22.05     |      |
|       | mm   | 140.0      | 178.0  | 216.0  | 292.0  | 16.5    | 61.2    | 36.5           | 36.5      | 229.0           | 273.0           | 245.0           | 284.0           | 240.0       | 280.0       | 220.0       | 14.0      | 15.5      | 17.1      | 18.0      | 20.8      | 19.5      | 9.3       | 10.0      |      |

| SIZE  |      | DIMENSIONS-1500 |             |          |          |         |         |                 |               |                 |                 |                 |                 |             |             | WGT (lb/kg) |            |              |              |          |  |
|-------|------|-----------------|-------------|----------|----------|---------|---------|-----------------|---------------|-----------------|-----------------|-----------------|-----------------|-------------|-------------|-------------|------------|--------------|--------------|----------|--|
|       |      | AT/AS (501)     | AT/AS (505) | AF (501) | AF (505) | B (Min) | C (Min) | D(Min)-RF (501) | D(Min)-NPT/SW | EC-NPT/SW (501) | EO-NPT/SW (501) | EC-NPT/SW (505) | EO-NPT/SW (505) | EC-RF (501) | EO-RF (501) | H-NPT/SW    | H-RF (501) | NPT/SW (501) | NPT/SW (505) | RF (501) |  |
| 1/2   | Inch | 4.37            | 4.37        | 8.50     | NA       | 0.39    | 0.86    | 0.39            | 0.51          | 6.50            | 7.09            | 7.13            | 7.72            | 6.50        | 7.09        | 4.72        | 4.72       | 8.38         | 8.60         | 16.53    |  |
|       | mm   | 111.0           | 111.0       | 216.0    | NA       | 10.0    | 21.8    | 10.0            | 13.0          | 165.0           | 180.0           | 181.00          | 196.00          | 165.0       | 180.0       | 120.00      | 120.0      | 3.8          | 3.9          | 7.5      |  |
| 3/4   | Inch | 4.37            | 4.37        | 9.02     | NA       | 0.51    | 1.07    | 0.51            | 0.51          | 6.50            | 7.09            | 7.13            | 7.72            | 6.50        | 7.09        | 4.72        | 4.72       | 8.16         | 8.38         | 20.94    |  |
|       | mm   | 111.0           | 111.0       | 229.0    | NA       | 13.0    | 27.2    | 13.0            | 13.0          | 165.0           | 180.0           | 181.00          | 196.00          | 165.0       | 180.0       | 120.00      | 120.0      | 3.7          | 3.8          | 9.5      |  |
| 1     | Inch | 4.72            | 4.72        | 10.00    | NA       | 0.51    | 1.33    | 0.71            | 0.71          | 7.87            | 8.66            | 8.07            | 8.86            | 7.87        | 8.66        | 6.30        | 6.30       | 13.01        | 13.23        | 31.97    |  |
|       | mm   | 120.0           | 120.0       | 254.0    | NA       | 13.0    | 33.9    | 18.0            | 18.0          | 200.0           | 220.0           | 205.00          | 225.00          | 200.0       | 220.0       | 160.00      | 160.0      | 5.9          | 6.0          | 14.5     |  |
| 1-1/4 | Inch | 4.72            | 4.72        | /        | NA       | 0.51    | 1.68    | /               | 0.94          | 8.23            | 9.25            | 8.39            | 9.41            | /           | /           | 6.30        | /          | 14.99        | 14.55        | /        |  |
|       | mm   | 120.0           | 120.0       | /        | NA       | 13.0    | 42.7    | /               | 24.0          | 209.0           | 235.0           | 213.00          | 239.00          | /           | /           | 160.00      | /          | 6.8          | 6.6          | /        |  |
| 1-1/2 | Inch | 5.51            | 5.51        | 12.01    | NA       | 0.51    | 1.92    | 1.14            | 1.14          | 9.25            | 10.47           | 9.76            | 10.98           | 10.55       | 11.77       | 8.66        | 8.66       | 21.38        | 24.25        | 61.29    |  |
|       | mm   | 140.0           | 140.0       | 305.0    | NA       | 13.0    | 48.8    | 29.0            | 29.0          | 235.0           | 266.0           | 248.00          | 279.00          | 268.0       | 299.0       | 220.00      | 220.0      | 9.7          | 11.0         | 27.8     |  |
| 2     | Inch | 6.30            | 7.01        | 14.49    | NA       | 0.65    | 2.41    | 1.44            | 1.44          | 11.14           | 12.68           | 11.02           | 12.56           | 12.40       | 13.94       | 8.66        | 10.24      | 35.93        | 33.73        | 102.95   |  |
|       | mm   | 160.0           | 178.0       | 368.0    | NA       | 16.5    | 61.2    | 36.5            | 36.5          | 283.0           | 322.0           | 280.00          | 319.00          | 315.0       | 354.0       | 220.00      | 260.0      | 16.3         | 15.3         | 46.7     |  |