

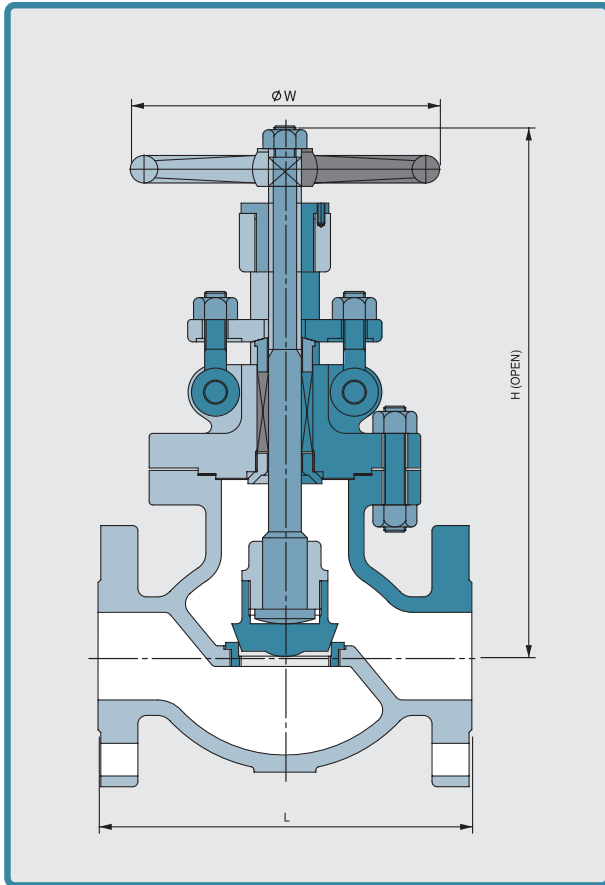
# S&S Cast Steel Globe Valve

# GLOBE VALVE

CLASS:#150 - 2500  
FIGURE NO.:S21R



CAST STEEL GLOBE VALVE  
FULL BORE. RF ENDS.  
BB. OS & Y. RISING STEM  
RISING HANDWHEEL



## MAIN COMPONENT MATERIAL

**BODY** A216-WCB  
**BONNET** A216-WCB  
**YOKE** A216-WCB  
**DISC** A216-WCB(8"OVER)  
**SEAT** A276-410  
**STEM** A479-410  
**GLAND PACKING** GRAPHITE  
**GLAND** A479-410  
**GASKET** GRAPHITE  
**BONNET BOLT** A193-B7  
**BONNET NUT** A194-2H

**\* BODY & BONNET STANDARD MATERIAL**

A216-WCB, A216-WC9, A351-CF3(M), A351-CF8(M)

**\* SEE TECH. DATA FOR OTHER MATERIAL AND TRIM OPTION.**

VALVE DESIGN CONFORM TO BS 5352,  
ANSI B16.34

VALVE ENDS CONFORM TO ANSI B16.10

SHELL AND SEAT LEAKAGE TEST  
ACCORDANCE WITH ANSI B16.34

RIGHT TABLE INDICATE THE ASTM A216-WCB  
OTHER MATERIAL ACCORDANCE  
WITH ANSI B16.34

| HYDROSTATIC SHELL & SEAT LEAKAGE TEST |                               |                               |                             |
|---------------------------------------|-------------------------------|-------------------------------|-----------------------------|
| CLASS                                 | SHELL                         | SEAT                          | AIR                         |
| 150 LBS                               | 32 PSI<br>kg/Cm <sup>2</sup>  | 23 PSI<br>kg/Cm <sup>2</sup>  | 6 PSI<br>kg/Cm <sup>2</sup> |
| 300 LBS                               | 80 PSI<br>kg/Cm <sup>2</sup>  | 58 PSI<br>kg/Cm <sup>2</sup>  |                             |
| 600 LBS                               | 157 PSI<br>kg/Cm <sup>2</sup> | 115 PSI<br>kg/Cm <sup>2</sup> |                             |
| 800 LBS                               | 211 PSI<br>kg/Cm <sup>2</sup> | 155 PSI<br>kg/Cm <sup>2</sup> |                             |
| 900 LBS                               | 236 PSI<br>kg/Cm <sup>2</sup> | 172 PSI<br>kg/Cm <sup>2</sup> |                             |
| 1500 LBS                              | 393 PSI<br>kg/Cm <sup>2</sup> | 287 PSI<br>kg/Cm <sup>2</sup> |                             |
| 2500 LBS                              | 653 PSI<br>kg/Cm <sup>2</sup> | 478 PSI<br>kg/Cm <sup>2</sup> |                             |

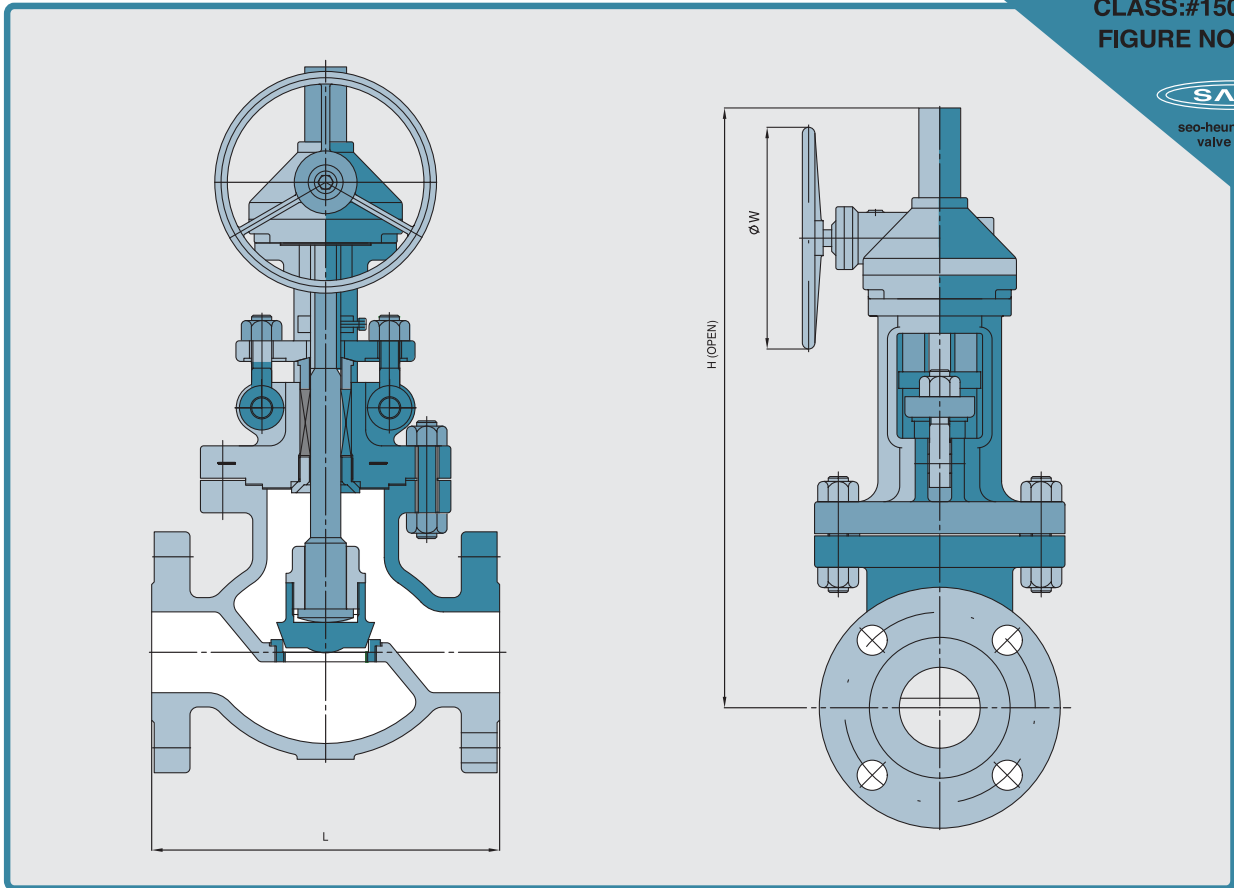
**\* WE RECOMMENDWD 6" AND OVER, GEAR OPERATED TYPE**

| SIZE | ENDS      | 2" (50A) | 2-1/2" (65A) | 3" (80A) | 4" (100A) | 5" (125A) | 6" (150A) | 8" (200A) | 10" (250A) | 12" (300A) | 14" (350A) | 16" (400A) | 18" (450A) | 20" (500A) | 24" (600A) |
|------|-----------|----------|--------------|----------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|
| #150 | L(RF,BW)  | 203      | 216          | 241      | 292       | 356       | 406       | 495       | 622        | 699        | 787        | 914        | 978        | 978        | 1295       |
|      | H         | 329      | 378          | 395      | 444       | 485       | 611       | 736       | 854        | 1011       | 1290       | 1398       | 1478       | 1692       | 2197       |
|      | W         | 180      | 200          | 224      | 250       | 280       | 315       | 355       | 400        | 450        | 350        | 350        | 450        | 560        | 560        |
|      | RF WT(Kg) | 22       | 32           | 37       | 58        | 82        | 109       | 184       | 298        | 480        | 670        | 890        | 1040       | 1410       | 1690       |
|      | BW WT(Kg) | 17       | 27           | 32       | 50        | 74        | 97        | 166       | 268        | 432        | 600        | 800        | 936        | 1270       | 1520       |
| #300 | L(RF,BW)  | 267      | 292          | 318      | 356       | 400       | 445       | 559       | 622        | 711        | 838        | 864        | 978        | 1016       | 1346       |
|      | H         | 375      | 390          | 480      | 559       | 615       | 671       | 786       | 912        | 1091       | 1341       | 1786       | 1872       | 2186       | 1667       |
|      | W         | 180      | 200          | 224      | 280       | 315       | 355       | 400       | 450        | 450        | 560        | 710        | 710        | 800        | 800        |
|      | RF WT(Kg) | 30       | 41           | 59       | 82        | 115       | 164       | 254       | 330        | 832        | 1020       | 1250       | 1490       | 1823       | 2050       |
|      | BW WT(Kg) | 28       | 35           | 50       | 71        | 104       | 137       | 229       | 297        | 748        | 918        | 1125       | 1340       | 1640       | 1845       |
| #600 | L(RF,BW)  | 292      | 330          | 356      | 432       |           | 559       | 660       | 787        | 838        | 889        | 991        | 1092       | 1194       | 1397       |
|      | H         | 447      | 480          | 511      | 567       |           | 753       | 898       | 1253       | 1475       | 1710       | 1890       | 2010       | 2470       | 2820       |
|      | W         | 200      | 224          | 250      | 315       |           | 400       | 450       | 450        | 450        | 560        | 710        | 800        | 800        | 800        |
|      | RF WT(Kg) | 39       | 53           | 69       | 118       |           | 255       | 370       | 720        | 900        | 970        | 1350       | 2020       | 2390       | 2867       |
|      | BW WT(Kg) | 33       | 43           | 60       | 100       |           | 210       | 315       | 612        | 765        | 824        | 1210       | 1818       | 2150       | 2436       |

# S&S Cast Steel Globe Valve

# GLOBE VALVE

CLASS:#150 - 2500  
FIGURE NO.:S21R



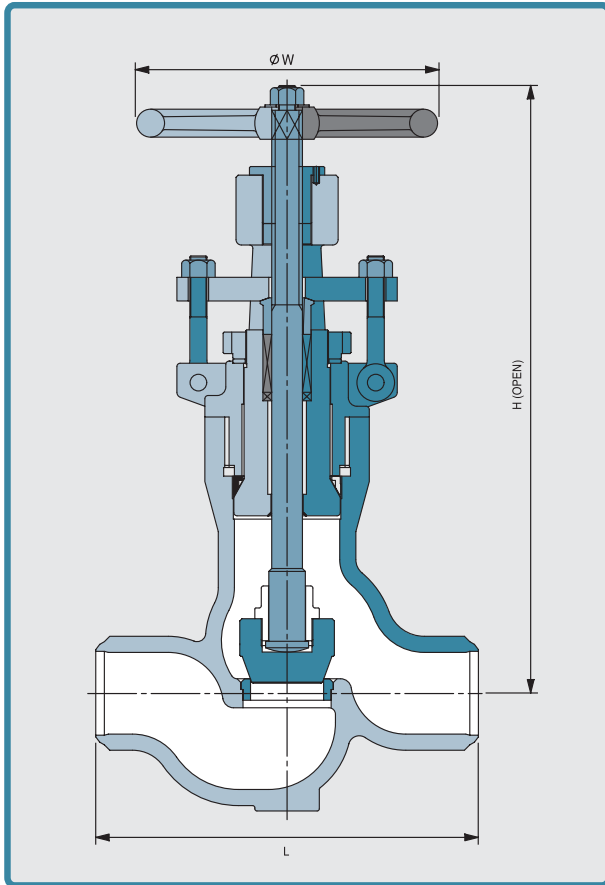
\* WE RECOMMEND 6" AND OVER, GEAR OPERATED TYPE

| SIZE  | ENDS      | 2" (50A) | 2-1/2" (65A) | 3" (80A) | 4" (100A) | 5" (125A) | 6" (150A) | 8" (200A) | 10" (250A) | 12" (300A) | 14" (350A) | 16" (400A) | 18" (450A) | 20" (500A) | 24" (600A) |
|-------|-----------|----------|--------------|----------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|
| #900  | L(RF,BW)  | 368      | 419          | 381      | 457       |           | 610       | 737       | 838        | 965        | 1029       | 1130       |            |            |            |
|       | H         | 673      | 695          | 710      | 842       |           | 1260      | 1563      | 1680       | 1740       | 2100       | 2520       |            |            |            |
|       | W         | 250      | 315          | 355      | 355       |           | 450       | 450       | 450        | 560        | 560        | 710        |            |            |            |
|       | RF WT(Kg) | 97       | 99           | 102      | 177       |           | 417       | 1140      | 1910       | 2450       | 3450       | 4155       |            |            |            |
|       | BW WT(Kg) | 82       | 84           | 87       | 150       |           | 354       | 1026      | 1720       | 2205       | 3105       | 3740       |            |            |            |
| #1500 | L(RF,BW)  | 368      | 419          | 470      | 546       |           | 705       | 832       | 991        | 1130       | 1257       | 1384       |            |            |            |
|       | H         | 697      | 720          | 805      | 1030      |           | 1360      | 1910      | 2300       | 2650       | 3150       | 4030       |            |            |            |
|       | W         | 250      | 315          | 355      | 400       |           | 450       | 450       | 560        | 710        | 710        | 710        |            |            |            |
|       | RF WT(Kg) | 97       | 145          | 209      | 340       |           | 652       | 1910      | 3115       | 4235       | 5155       | 6435       |            |            |            |
|       | BW WT(Kg) | 85       | 120          | 155      | 290       |           | 554       | 1624      | 2648       | 3599       | 4640       | 5792       |            |            |            |
| #2500 | L(RF,BW)  | 451      | 508          | 578      | 673       |           | 914       | 1022      | 1270       | 1422       |            |            |            |            |            |
|       | H         | 690      | 780          | 860      | 1210      |           | 1810      | 2390      | 2730       | 3450       |            |            |            |            |            |
|       | W         | 400      | 450          | 450      | 500       |           | 560       | 710       | 800        | 800        |            |            |            |            |            |
|       | RF WT(Kg) | 182      | 294          | 347      | 805       |           | 2220      | 4700      | 6745       | 8325       |            |            |            |            |            |
|       | BW WT(Kg) | 158      | 235          | 280      | 684       |           | 1887      | 3995      | 6000       | 7490       |            |            |            |            |            |

# S&S Cast Steel Globe Valve

# PSB GLOBE VALVE

CLASS:#600 - 2500  
FIGURE NO.:S51B



CAST STEEL PSB GLOBE VALVE FULL BORE.  
RF ENDS.  
OS & Y. RISING STEM  
RISING HANDWHEEL

## MAIN COMPONENT MATERIAL

**BODY** A216-WCB  
**BONNET** A216-WCB  
**YOKE** A216-WCB  
**DISC** A216-WCB(8"OVER)  
**SEAT** A276-410  
**STEM** A479-410  
**GLAND PACKING** GRAPHITE  
**GLAND** A479-410  
**GASKET** GRAPHITE  
**BONNET BOLT** A193-B7  
**BONNET NUT** A194-2H

**\* BODY & BONNET STANDARD MATERIAL**

A216-WCB, A216-WC9, A351-CF3(M), A351-CF8(M)

**\* SEE TECH. DATA FOR OTHER MATERIAL AND TRIM OPTION.**

VALVE DESIGN CONFORM TO BS 5352,  
ANSI B16.34

VALVE ENDS CONFORM TO ANSI B16.10

SHELL AND SEAT LEAKAGE TEST  
ACCORDANCE WITH ANSI B16.34

RIGHT TABLE INDICATE THE ASTM A216-WCB  
OTHER MATERIAL ACCORDANCE  
WITH ANSI B16.34

| HYDROSTATIC SHELL & SEAT LEAKAGE TEST |                               |                               |                             |
|---------------------------------------|-------------------------------|-------------------------------|-----------------------------|
| CLASS                                 | SHELL                         | SEAT                          | AIR                         |
| 150 LBS                               | 32 PSI<br>kg/Cm <sup>2</sup>  | 23 PSI<br>kg/Cm <sup>2</sup>  | 6 PSI<br>kg/Cm <sup>2</sup> |
| 300 LBS                               | 80 PSI<br>kg/Cm <sup>2</sup>  | 58 PSI<br>kg/Cm <sup>2</sup>  |                             |
| 600 LBS                               | 157 PSI<br>kg/Cm <sup>2</sup> | 115 PSI<br>kg/Cm <sup>2</sup> |                             |
| 800 LBS                               | 211 PSI<br>kg/Cm <sup>2</sup> | 155 PSI<br>kg/Cm <sup>2</sup> |                             |
| 900 LBS                               | 236 PSI<br>kg/Cm <sup>2</sup> | 172 PSI<br>kg/Cm <sup>2</sup> |                             |
| 1500 LBS                              | 393 PSI<br>kg/Cm <sup>2</sup> | 287 PSI<br>kg/Cm <sup>2</sup> |                             |
| 2500 LBS                              | 653 PSI<br>kg/Cm <sup>2</sup> | 478 PSI<br>kg/Cm <sup>2</sup> |                             |

**\* WE RECOMMENDWD 6" AND OVER, GEAR OPERATED TYPE**

| SIZE  | ENDS      | 2" (50A) | 2-1/2" (65A) | 3" (80A) | 4" (100A) | 5" (125A) | 6" (150A) | 8" (200A) | 10" (250A) | 12" (300A) | 14" (350A) | 16" (400A) | 18" (450A) | 20" (500A) | 24" (600A) |
|-------|-----------|----------|--------------|----------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|
| #600  | L(RF,BW)  | 178      | 216          | 254      | 305       |           | 457       | 584       | 711        | 813        | 889        | 991        |            |            |            |
|       | H         | 555      | 632          | 687      | 750       |           | 1165      | 1245      | 1390       | 1540       | 1805       | 2157       |            |            |            |
|       | W         | 200      | 224          | 250      | 315       |           | 400       | 450       | 450        | 450        | 560        | 710        |            |            |            |
|       | BW WT(Kg) | 50       | 60           | 84       | 132       |           | 310       | 640       | 1350       | 1900       | 2700       | 3200       |            |            |            |
| #900  | L(RF,BW)  | 216      | 254          | 305      | 356       |           | 508       | 660       | 787        | 914        | 991        | 1092       |            |            |            |
|       | H         | 620      | 648          | 730      | 855       |           | 1230      | 1345      | 1555       | 1742       | 2010       | 2300       |            |            |            |
|       | W         | 250      | 315          | 355      | 355       |           | 450       | 450       | 450        | 560        | 560        | 710        |            |            |            |
|       | BW WT(Kg) | 80       | 105          | 125      | 172       |           | 400       | 1050      | 1700       | 2310       | 3300       | 4000       |            |            |            |
| #1500 | L(RF,BW)  | 216      | 254          | 305      | 406       |           | 559       | 711       | 864        | 991        | 1067       |            |            |            |            |
|       | H         | 623      | 650          | 838      | 862       |           | 1237      | 1783      | 1995       | 2310       | 2698       |            |            |            |            |
|       | W         | 250      | 315          | 355      | 400       |           | 450       | 450       | 560        | 710        | 710        |            |            |            |            |
|       | BW WT(Kg) | 80       | 115          | 135      | 220       |           | 660       | 1690      | 2600       | 3420       | 4400       |            |            |            |            |
| #2500 | L(RF,BW)  | 279      | 330          | 368      | 457       |           | 610       | 762       | 914        | 1041       |            |            |            |            |            |
|       | H         | 625      | 788          | 810      | 1295      |           | 1372      | 2140      | 2520       | 2688       |            |            |            |            |            |
|       | W         | 400      | 450          | 450      | 500       |           | 560       | 710       | 800        | 800        |            |            |            |            |            |
|       | BW WT(Kg) | 105      | 160          | 200      | 495       |           | 1200      | 2420      | 3300       | 4200       |            |            |            |            |            |