

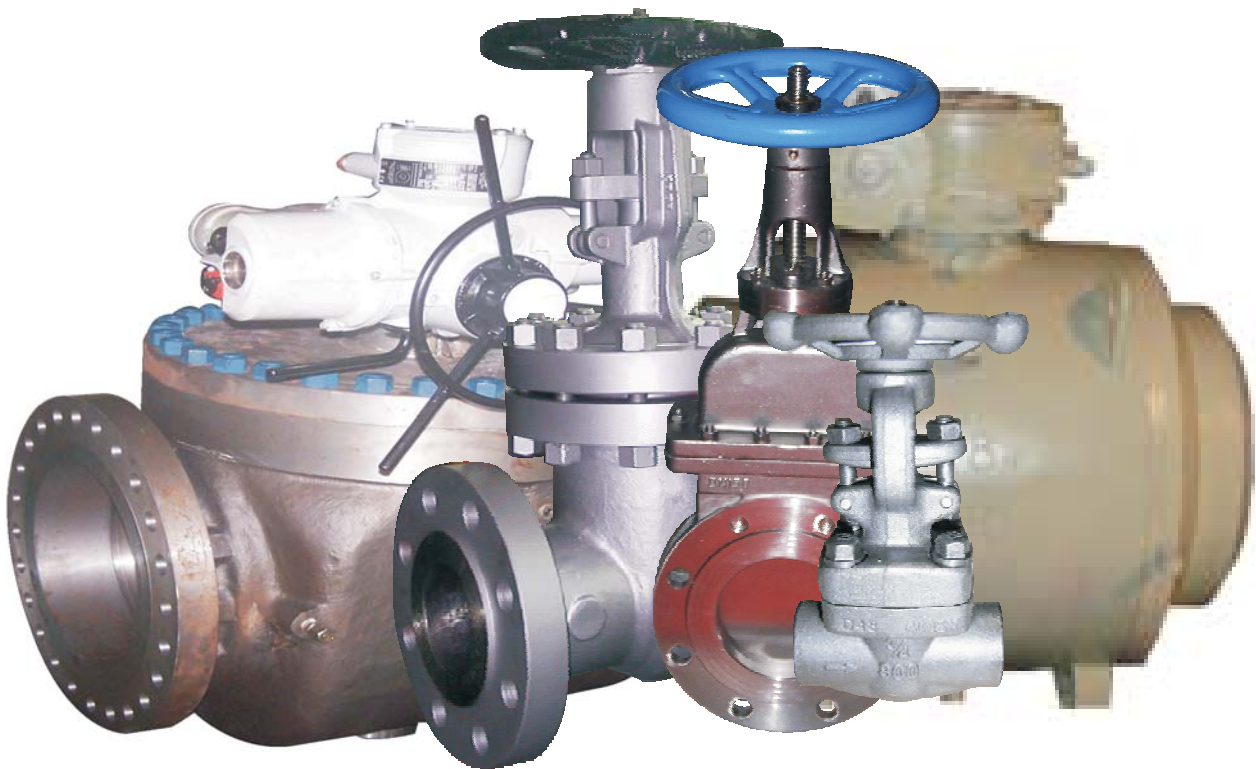


# SHANGHAI CIPHY VALVE

[Http://www.ciphy.cn](http://www.ciphy.cn)

**FORGED STEEL VALVE  
CAST STEEL VALVE**

Success is from opportunities and challenges.  
Let's catch very golden opportunity  
To continuously create eminence  
With insurgent ardor,  
Lofty ideal and boldness of vision



**SHANGHAI CIPHY INDUSTRY CO. , LTD**

## Company Profile

Shanghai Ciphy Industry Co., Ltd. are a specializing supplying various standards cast iron valves, fittings company in china; All sold product must be tested and inspected in test locale by our company colleague; we are very luck for Servericing our every customers.

Our product as follows:

Standard: ANSI Standard, BS Standard, DIN Standard, JIS Standard etc.

Material: Cast Steel(A216-WCB,A352-LCB,A217-WC1/WC5/WC6/WC9), Forged Steel(A105, F5, F11, F22,LF2), Stainless Steel(A351 CF8/CF8M/CF3/CF3, A182 F304/F316/F304L/F316L), Alloy steel(ALLOY20), Titanium alloy etc.

Size: from 1/2 inches to 48 inches from 15mm~1200mm.

Valve: Gate valve, Globe valve, Check valve, Ball valve, Butterfly valve, Plug valve, Chose valve, Needle valve, Knife gate valve, resilient gate valve, bellow globe valve etc.

Connect: Flanged ends, Butt-welding ends, Socket welding ends, Threaded ends etc.

Pressure grade: ANSI CLASS 150, CLASS 300, CLASS 600, CLASS 800, CLASS 900, CLASS 1500, CLASS 2500, DIN PN6, PN10, PN16, PN25, PN40, PN64, PN100, PN160, JIS 5K, 10K, 20K etc.

Moreover, we are also engage in processing trade; We can manufacture the products exactly as per the custormer's specific requirements such as nominated trademark and marking, the customer's own technical drawings, etc

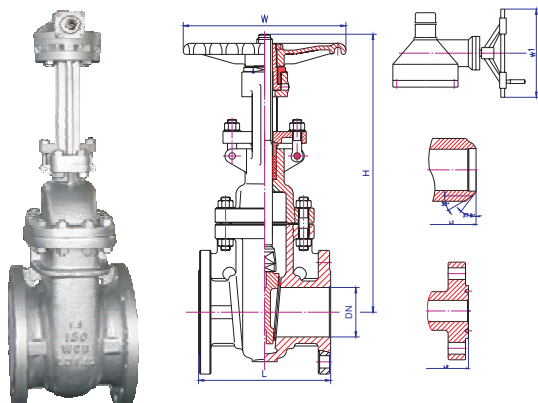
Look forward to having a chance to serve your esteemed company.



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## ANSI Class150 Rising Stem Gate Valve



### Standards:

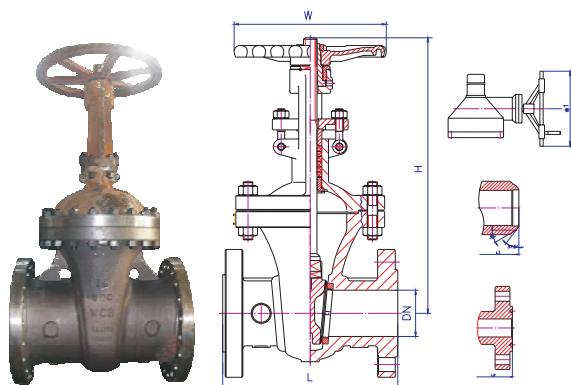
Design: API600/API 6D  
Face to Face: ANSI B16.10  
Flange: ANSI B16.5  
ASME B16.47 series A or API605(>24")  
BW: ASME B16.25  
Test and Inspect: API 598

### Main Part Name and Material:

|             |                                          |
|-------------|------------------------------------------|
| Body/Bonnet | Carbon Steel/Alloy Steel/Stainless Steel |
| Disc Seal   | 13CR/STL/SS304/SS316                     |
| Seat Seal   | 13CR/STL/SS304/SS316                     |
| Stem        | F6a/F304/F316                            |

|         |     |        |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |
|---------|-----|--------|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|
| DN      | 50  | 65     | 80  | 100 | 125 | 150 | 200 | 250  | 300  | 350  | 400  | 450" | 500  | 600  | 700  | 800  | 900  |
| NPS     | 2"  | 2-1/2" | 3"  | 4"  | 5"  | 6"  | 8"  | 10"  | 12"  | 14"  | 16"  | 18"  | 20"  | 24"  | 28"  | 32"  | 36"  |
| L       | 178 | 191    | 203 | 229 | 254 | 267 | 292 | 330  | 356  | 381  | 406  | 432  | 457  | 508  | 610  | 711  | 711  |
| L1      | 216 | 241    | 283 | 305 | 381 | 403 | 419 | 457  | 502  | 572  | 610  | 660  | 711  | 813  | 914  | 965  | 1016 |
| L2      | 191 | 203    | 216 | 241 | 267 | 279 | 305 | 343  | 368  | 394  | 419  | 445  | 470  | 521  | -    | -    | -    |
| W       | 200 | 200    | 250 | 280 | 280 | 300 | 350 | 400  | 450  | 500  | 500  | 500  | 600  | 600  | 860  | 860  | 860  |
| W1      | -   | -      | -   | -   | -   | 310 | 310 | 310  | 310  | 310  | 460  | 460  | 460  | 460  | 600  | 600  | 600  |
| H(Open) | 391 | 408    | 457 | 538 | 693 | 736 | 863 | 1036 | 1130 | 1272 | 1447 | 1701 | 1795 | 2189 | 2590 | 2870 | 2997 |

## ANSI Class300 Rising Stem Gate Valve



### Standards:

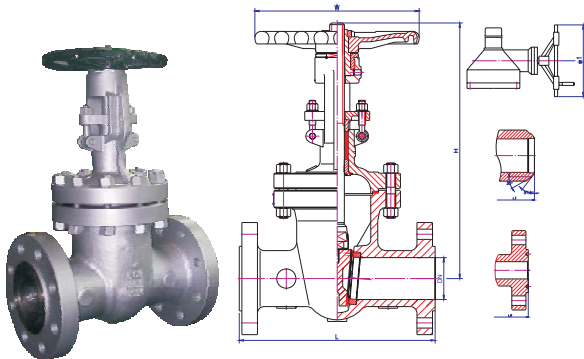
Design: API600/API 6D  
Face to Face: ANSI B16.10  
Flange: ANSI B16.5  
ASME B16.47 series A or API605(>24")  
BW: ASME B16.25  
Test and Inspect: API 598

### Main Part Name and Material:

|             |                                          |
|-------------|------------------------------------------|
| Body/Bonnet | Carbon Steel/Alloy Steel/Stainless Steel |
| Disc Seal   | 13CR/STL/SS304/SS316                     |
| Seat Seal   | 13CR/STL/SS304/SS316                     |
| Stem        | F6a/F304/F316                            |

|         |     |        |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
|---------|-----|--------|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|
| DN      | 50  | 65     | 80  | 100 | 125 | 150 | 200  | 250  | 300  | 350  | 400  | 450" | 500  | 600  | 700  | 800  | 900  |
| NPS     | 2"  | 2-1/2" | 3"  | 4"  | 5"  | 6"  | 8"   | 10"  | 12"  | 14"  | 16"  | 18"  | 20"  | 24"  | 28"  | 32"  | 36"  |
| L       | 216 | 241    | 283 | 305 | 381 | 403 | 419  | 457  | 502  | 762  | 838  | 914  | 991  | 1143 | 1346 | 1524 | 1727 |
| L1      | 216 | 241    | 283 | 305 | 381 | 403 | 419  | 457  | 502  | 762  | 838  | 914  | 991  | 1143 | 1346 | 1524 | 1727 |
| L2      | 232 | 257    | 298 | 321 | 397 | 419 | 435  | 473  | 518  | 778  | 854  | 930  | 1010 | 1165 | 1372 | 1553 | 1756 |
| W       | 200 | 200    | 250 | 280 | 300 | 350 | 400  | 450  | 450  | 600  | 600  | 750  | 750  | 750  | 860  | 860  | 860  |
| W1      | -   | -      | -   | 310 | 310 | 310 | 310  | 310  | 310  | 460  | 460  | 460  | 600  | 600  | 600  | 600  | 600  |
| H(Open) | 467 | 495    | 520 | 609 | 746 | 825 | 1009 | 1193 | 1282 | 1442 | 1549 | 1803 | 1955 | 2425 | 2641 | 2857 | 3048 |

## ANSI Class600 Rising Stem Gate Valve



### Standards:

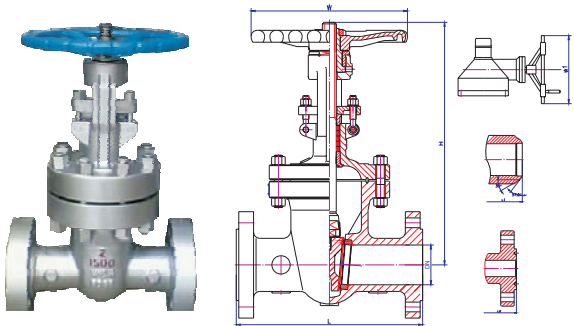
Design: API600/API 6D  
Face to Face: ANSI B16.10  
Flange: ANSI B16.5  
ASME B16.47 series A or API605(>24")  
BW: ASME B16.25  
Test and Inspect: API 598

### Main Part Name and Material:

|             |                                          |
|-------------|------------------------------------------|
| Body/Bonnet | Carbon Steel/Alloy Steel/Stainless Steel |
| Disc Seal   | 13CR/STL/SS304/SS316                     |
| Seat Seal   | 13CR/STL/SS304/SS316                     |
| Stem        | F6a/F304/F316                            |

|         |     |        |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
|---------|-----|--------|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|
| DN      | 50  | 65     | 80  | 100 | 125 | 150 | 200  | 250  | 300  | 350  | 400  | 450" | 500  | 600  | 700  | 800  | 900  |
| NPS     | 2"  | 2-1/2" | 3"  | 4"  | 5"  | 6"  | 8"   | 10"  | 12"  | 14"  | 16"  | 18"  | 20"  | 24"  | 28"  | 32"  | 36"  |
| L       | 292 | 330    | 356 | 432 | 508 | 559 | 660  | 787  | 838  | 889  | 991  | 1092 | 1194 | 1397 | 1549 | 1778 | 2083 |
| L1      | 292 | 330    | 356 | 432 | 508 | 559 | 660  | 787  | 838  | 889  | 991  | 1092 | 1194 | 1397 | 1549 | 1778 | 2083 |
| L2      | 295 | 333    | 359 | 435 | 511 | 562 | 664  | 791  | 841  | 892  | 994  | 1095 | 1200 | 1407 | 1562 | 1794 | 2099 |
| W       | 250 | 250    | 250 | 350 | 350 | 600 | 600  | 750  | 750  | 750  | 860  | 860  | 860  | -    | -    | -    | -    |
| W1      | -   | -      | -   | 310 | 310 | 310 | 310  | 310  | 310  | 460  | 460  | 460  | 600  | 610  | 610  | 720  | 720  |
| H(Open) | 444 | 500    | 558 | 665 | 760 | 868 | 1073 | 1263 | 1600 | 1705 | 1835 | 2020 | 2383 | 2500 | 2663 | 3100 | 3450 |

## ANSI Class900–1500 Rising Stem Gate Valve



### Standards:

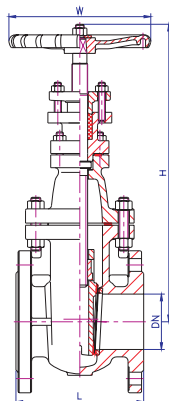
Design: API600/API 6D  
Face to Face: ANSI B16.10  
Flange: ANSI B16.5  
ASME B16.47 series A or API605(>24")  
BW: ASME B16.25  
Test and Inspect: API 598

### Main Part Name and Material:

|             |                                          |
|-------------|------------------------------------------|
| Body/Bonnet | Carbon Steel/Alloy Steel/Stainless Steel |
| Disc Seal   | 13CR/STL/SS304/SS316                     |
| Seat Seal   | 13CR/STL/SS304/SS316                     |
| Stem        | F6a/F304/F316                            |

|         |         |     |        |     |     |     |      |      |      |      |      |      |      |      |      |
|---------|---------|-----|--------|-----|-----|-----|------|------|------|------|------|------|------|------|------|
| CLASS   | DN      | 50  | 65     | 80  | 100 | 125 | 150  | 200  | 250  | 300  | 350  | 400  | 450  | 500  | 600  |
|         | NPS     | 2"  | 2-1/2" | 3"  | 4"  | 5"  | 6"   | 8"   | 10"  | 12"  | 14"  | 16"  | 18"  | 20"  | 24"  |
| 900LBS  | L-L1    | 368 | 419    | 381 | 457 | 559 | 610  | 737  | 838  | 965  | 1029 | 1130 | 1219 | 1321 | 1549 |
|         | L2      | 371 | 422    | 384 | 460 | 562 | 613  | 740  | 841  | 968  | 1038 | 1140 | 1232 | 1334 | 1568 |
|         | W       | 250 | 350    | 350 | 350 | 350 | 610  | 610  | 720  | 720  | 850  | -    | -    | -    | -    |
|         | W1      | -   | -      | 310 | 310 | 310 | 310  | 310  | 460  | 460  | 460  | 600  | 600  | 600  | 600  |
|         | H(Open) | 523 | 577    | 609 | 673 | 760 | 863  | 1079 | 1231 | 1384 | 1574 | 2159 | 2362 | 2463 | 3048 |
| 1500LBS | L-L1    | 368 | 419    | 470 | 546 | 673 | 705  | 832  | 911  | 1130 | 1257 | 1384 | 1537 | 1664 | 1943 |
|         | L2      | 371 | 422    | 473 | 549 | 676 | 711  | 841  | 1000 | 1146 | 1276 | 1407 | 1559 | 1686 | 1972 |
|         | W       | 250 | 350    | 350 | 350 | 450 | 610  | 720  | 850  | -    | -    | -    | -    | -    | -    |
|         | W1      | -   | -      | 310 | 310 | 310 | 460  | 460  | 460  | 600  | 600  | 760  | 760  | 860  | 860  |
|         | H(Open) | 582 | 635    | 781 | 876 | 915 | 1104 | 1142 | 1784 | 1955 | 2057 | 2311 | 2438 | 2590 | 2946 |

## ANSI Class150 Non-Rising Stem Gate Valve



### Standards:

Design: API600/ANSI B16.34

Face to Face: ANSI B16.10

Flange: ANSI B1.5

Test and Inspect: API 598

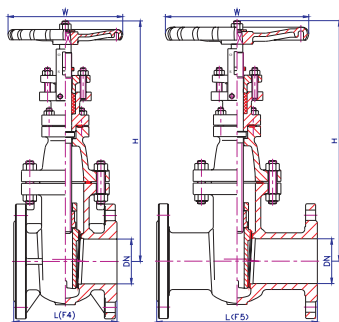
### Main Part Name and Material:

|             |                                          |
|-------------|------------------------------------------|
| Body/Bonnet | Carbon Steel/Alloy Steel/Stainless Steel |
| Disc Seal   | 13CR/STL/SS304/SS316                     |
| Seat Seal   | 13CR/STL/SS304/SS316                     |
| Stem        | F6a/F304/F316                            |

|         |     |        |     |     |     |     |     |     |     |      |      |      |
|---------|-----|--------|-----|-----|-----|-----|-----|-----|-----|------|------|------|
| DN      | 50  | 65     | 80  | 100 | 125 | 150 | 200 | 250 | 300 | 350  | 400  | 500  |
| NPS     | 2"  | 2-1/2" | 3"  | 4"  | 5"  | 6"  | 8"  | 10" | 12" | 14"  | 16"  | 20"  |
| L       | 178 | 191    | 203 | 229 | 254 | 267 | 292 | 330 | 356 | 381  | 406  | 457  |
| W       | 200 | 200    | 250 | 280 | 280 | 300 | 350 | 400 | 450 | 500  | 500  | 600  |
| H(Open) | 310 | 342    | 418 | 454 | 520 | 567 | 710 | 890 | 918 | 1100 | 1300 | 1680 |

## DIN-F4/ F5 PN10/ 16 Non-Rising Stem Gate Valve

3



### Standards:

Design: DIN3352

Face to Face: DIN3202-F4/ F5

Flange: DIN2532/ 2543/ 2501/ EN 1092-1

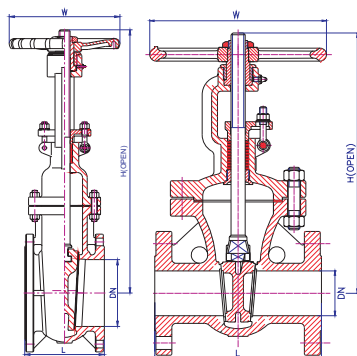
Test and Inspect: DIN3230

### Main Part Name and Material:

|             |                                          |
|-------------|------------------------------------------|
| Body/Bonnet | Carbon Steel/Alloy Steel/Stainless Steel |
| Disc Seal   | 13CR/STL/SS304/SS316                     |
| Seat Seal   | 13CR/STL/SS304/SS316                     |
| Stem        | F6a/F304/F316                            |

|         |     |        |     |     |     |     |     |     |     |      |      |     |      |     |
|---------|-----|--------|-----|-----|-----|-----|-----|-----|-----|------|------|-----|------|-----|
| DN      | 50  | 65     | 80  | 100 | 125 | 150 | 200 | 250 | 300 | 350  | 400  | 450 | 500  | 600 |
| NPS     | 2"  | 2-1/2" | 3"  | 4"  | 5"  | 6"  | 8"  | 10" | 12" | 14"  | 16"  | 18" | 20"  | 24" |
| L(F4)   | 150 | 170    | 180 | 190 | 200 | 210 | 230 | 250 | 270 | 290  | 310  | 330 | 350  | 390 |
| L(F5)   | 250 | 270    | 280 | 300 | 325 | 350 | 400 | 450 | 500 | 550  | 600  | 650 | 700  | 800 |
| W       | 200 | 200    | 250 | 280 | 280 | 300 | 350 | 400 | 450 | 500  | 500  | -   | 600  | -   |
| H(Open) | 310 | 342    | 418 | 454 | 520 | 567 | 710 | 890 | 918 | 1100 | 1300 | -   | 1680 | -   |

## DIN-F4/F5 PN10/16/25 Rising Stem Gate Valve



### Standards:

Design: DIN3352

Face to Face: DIN3202-F4/F5

Flange: DIN2532/2543/2544/2501/EN 1092-1

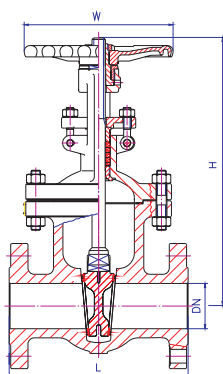
Test and Inspect: DIN3230

### Main Part Name and Material:

|             |                                          |
|-------------|------------------------------------------|
| Body/Bonnet | Carbon Steel/Alloy Steel/Stainless Steel |
| Disc Seal   | 13CR/STL/SS304/SS316                     |
| Seat Seal   | 13CR/STL/SS304/SS316                     |
| Stem        | F6a/F304/F316                            |

|         |        |     |        |     |     |     |     |     |     |      |      |      |     |      |      |
|---------|--------|-----|--------|-----|-----|-----|-----|-----|-----|------|------|------|-----|------|------|
| DN      | 40     | 50  | 65     | 80  | 100 | 125 | 150 | 200 | 250 | 300  | 350  | 400  | 450 | 500  | 600  |
| NPS     | 1-1/2" | 2"  | 2-1/2" | 3"  | 4"  | 5"  | 6"  | 8"  | 10" | 12"  | 14"  | 16"  | 18" | 20"  | 24"  |
| L(F4)   | 140    | 150 | 170    | 180 | 190 | 200 | 210 | 230 | 250 | 270  | 290  | 310  | 330 | 350  | 390  |
| W       | -      | 180 | 180    | 200 | 200 | 250 | 250 | 320 | 320 | 400  | 400  | 500  | -   | 600  | -    |
| H(Open) | -      | 330 | 357    | 408 | 457 | 543 | 600 | 760 | 890 | 1040 | 1170 | 1338 | -   | 1740 | -    |
| L(F5)   | 240    | 250 | 270    | 280 | 300 | 325 | 350 | 400 | 450 | 500  | 550  | 600  | 650 | 700  | 800  |
| W       | 200    | 220 | 250    | 250 | 280 | 300 | 320 | 350 | 400 | 450  | 500  | 550  | -   | 600  | 700  |
| H(Open) | 290    | 330 | 357    | 408 | 457 | 543 | 600 | 760 | 890 | 1040 | 1170 | 1338 | -   | 1740 | 2030 |

## DIN-F7 PN40/64 Rising Stem Gate Valve



### Standards:

Design: DIN3352

Face to Face: DIN3202-F7

Flange: DIN2545/2546/2501/EN 1092-1

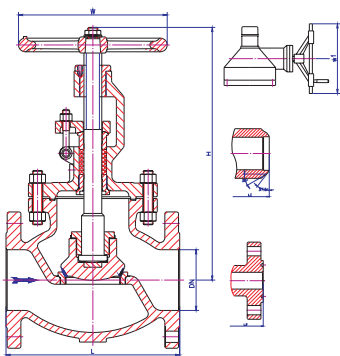
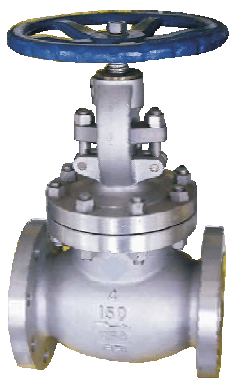
Test and Inspect: DIN3230

### Main Part Name and Material:

|             |                                          |
|-------------|------------------------------------------|
| Body/Bonnet | Carbon Steel/Alloy Steel/Stainless Steel |
| Disc Seal   | 13CR/STL/SS304/SS316                     |
| Seat Seal   | 13CR/STL/SS304/SS316                     |
| Stem        | F6a/F304/F316                            |

|         |        |     |        |     |     |     |     |      |      |      |      |      |     |      |      |
|---------|--------|-----|--------|-----|-----|-----|-----|------|------|------|------|------|-----|------|------|
| DN      | 40     | 50  | 65     | 80  | 100 | 125 | 150 | 200  | 250  | 300  | 350  | 400  | 450 | 500  | 600  |
| NPS     | 1-1/2" | 2"  | 2-1/2" | 3"  | 4"  | 5"  | 6"  | 8"   | 10"  | 12"  | 14"  | 16"  | 18" | 20"  | 24"  |
| L(F7)   | 240    | 250 | 290    | 310 | 350 | 400 | 450 | 550  | 650  | 750  | 850  | 950  | -   | 1150 | 1350 |
| W       | 180    | 200 | 220    | 250 | 280 | 300 | 350 | 400  | 500  | 550  | 600  | 700  | -   | 750  | 800  |
| H(Open) | 365    | 420 | 452    | 498 | 595 | 708 | 810 | 1010 | 1220 | 1440 | 1580 | 1780 | -   | 2200 | 2630 |

## ANSI Class150– 300 Globe Valve



### Standards:

Design: BS1873 OR ASME16. 34

Face to Face: ANSI B16.10

Flange: ANSI B16.5

ASME B16.47 series A or API605(>24")

BW: ASME B16.25

Test and Inspect: API 598

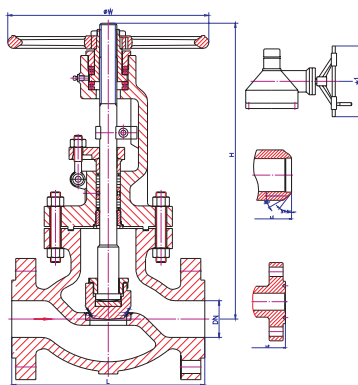
### Main Part Name and Material:

|             |                                          |
|-------------|------------------------------------------|
| Body/Bonnet | Carbon Steel/Alloy Steel/Stainless Steel |
| Disc Seal   | 13CR/STL/SS304/SS316                     |
| Seat Seal   | 13CR/STL/SS304/SS316                     |
| Stem        | F6a/F304/F316                            |

| CLASS  | DN      | 40     | 50  | 65     | 80  | 100 | 125 | 150 | 200 | 250 | 300 | 350  | 400  | 450  | 500  | 600  |
|--------|---------|--------|-----|--------|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
|        | NPS     | 1-1/2" | 2"  | 2-1/2" | 3"  | 4"  | 5"  | 6"  | 8"  | 10" | 12" | 14"  | 16"  | 18"  | 20"  | 24"  |
| 150LBS | L-L1    | 165    | 203 | 216    | 241 | 292 | 356 | 406 | 495 | 622 | 698 | 787  | 914  | 977  | 977  | 1295 |
|        | L2      | 178    | 216 | 229    | 254 | 305 | 369 | 419 | 508 | 635 | 711 | 800  | 927  | -    | -    | -    |
|        | W       | 200    | 200 | 250    | 250 | 250 | 350 | 350 | 400 | 450 | 500 | 610  | -    | -    | -    | -    |
|        | W1      | -      | -   | -      | -   | -   | -   | -   | -   | -   | -   | -    | 500  | 610  | 610  | 720  |
|        | H(Open) | 289    | 343 | 365    | 375 | 448 | 485 | 584 | 660 | 683 | 794 | 889  | 977  | 1066 | 1117 | 1295 |
| 300LBS | L-L1    | 229    | 267 | 292    | 318 | 356 | 400 | 444 | 559 | 622 | 711 | 838  | 863  | 977  | 1016 | 1346 |
|        | L2      | 241    | 283 | 308    | 333 | 371 | 416 | 460 | 575 | 638 | 727 | -    | -    | -    | -    | -    |
|        | W       | 200    | 200 | 250    | 250 | 350 | 350 | 450 | 450 | 720 | 720 | 860  | -    | -    | -    | -    |
|        | W1      | -      | -   | -      | -   | -   | -   | -   | -   | -   | -   | -    | 610  | 610  | 720  | 720  |
|        | H(Open) | 365    | 435 | 476    | 479 | 581 | 612 | 657 | 724 | 800 | 900 | 1092 | 1371 | 1473 | 1574 | 1803 |

## ANSI Class600– 900 Globe Valve

5



### Standards:

Design: BS1873 OR ASME16. 34

Face to Face: ANSI B16.10

Flange: ANSI B16.5

ASME B16.47 series A or API605(>24")

BW: ASME B16.25

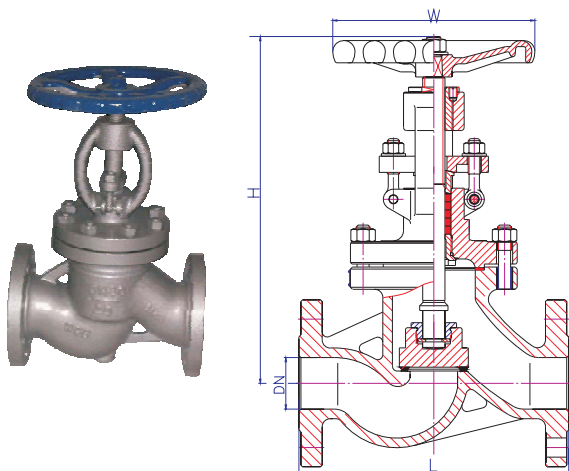
Test and Inspect: API 598

### Main Part Name and Material:

|             |                                          |
|-------------|------------------------------------------|
| Body/Bonnet | Carbon Steel/Alloy Steel/Stainless Steel |
| Disc Seal   | 13CR/STL/SS304/SS316                     |
| Seat Seal   | 13CR/STL/SS304/SS316                     |
| Stem        | F6a/F304/F316                            |

| CLASS  | DN      | 40     | 50  | 65     | 80  | 100 | 125 | 150  | 200  | 250  | 300  |
|--------|---------|--------|-----|--------|-----|-----|-----|------|------|------|------|
|        | NPS     | 1-1/2" | 2"  | 2-1/2" | 3"  | 4"  | 5"  | 6"   | 8"   | 10"  | 12"  |
| 600LBS | L-L1    | 241    | 292 | 330    | 356 | 432 | 508 | 559  | 660  | 787  | 838  |
|        | L2      | 241    | 295 | 333    | 359 | 435 | 511 | 562  | 664  | 791  | 841  |
|        | W       | 200    | 250 | 250    | 350 | 450 | 450 | 610  | 610  | -    | -    |
|        | W1      | -      | -   | -      | -   | -   | -   | -    | -    | 610  | 610  |
|        | H(Open) | 425    | 460 | 505    | 556 | 670 | 785 | 905  | 1060 | 1219 | 1570 |
| 900LBS | L-L1    |        | 368 | 419    | 381 | 457 | 559 | 610  | 737  | 838  |      |
|        | L2      |        | 371 | 422    | 384 | 460 | 562 | 613  | 740  | 841  |      |
|        | W       |        | 350 | 350    | 350 | 500 | 500 | 500  | 610  | -    |      |
|        | W1      |        | -   | -      | -   | -   | -   | -    | -    | 610  |      |
|        | H(Open) |        | 480 | 520    | 636 | 774 | 825 | 1041 | 1333 | 1625 |      |

## DIN-F1 PN10/16/PN25/PN40 Globe Valve



### Standards:

Design: DIN3352

Face to Face: DIN3202-F1

Flange: DIN2532/2543/2544/2545/2501/EN 1092-1

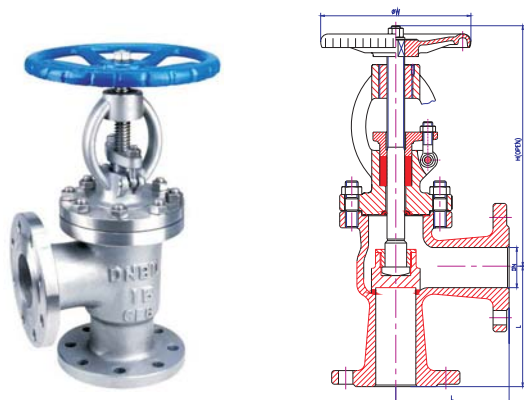
Test and Inspect: DIN3230

### Main Part Name and Material:

|             |                                          |
|-------------|------------------------------------------|
| Body/Bonnet | Carbon Steel/Alloy Steel/Stainless Steel |
| Disc Seal   | 13CR/STL/SS304/SS316                     |
| Seat Seal   | 13CR/STL/SS304/SS316                     |
| Stem        | F6a/F304/F316                            |

| PN    | DN      | 15   | 20   | 25  | 32     | 40     | 50  | 65     | 80  | 100 | 125 | 150 | 200 | 250 | 300 |
|-------|---------|------|------|-----|--------|--------|-----|--------|-----|-----|-----|-----|-----|-----|-----|
|       | NPS     | 1/2" | 3/4" | 1"  | 1-1/4" | 1-1/2" | 2"  | 2-1/2" | 3"  | 4"  | 5"  | 6"  | 8"  | 10" | 12" |
|       | L       | 130  | 150  | 160 | 180    | 200    | 230 | 290    | 310 | 350 | 400 | 480 | 600 | 650 | 750 |
| 10/16 | W       | 120  | 140  | 160 | 200    | 200    | 240 | 240    | 280 | 320 | 360 | 360 | 400 | 450 | 500 |
|       | H(Open) | 233  | 275  | 285 | 305    | 330    | 360 | 400    | 415 | 510 | 435 | 510 | 710 | 786 | 850 |
| 25    | W       | 120  | 140  | 160 | 200    | 200    | 240 | 240    | 280 | 320 | 360 | 360 | 400 | 450 | 500 |
|       | H(Open) | 233  | 275  | 285 | 305    | 330    | 360 | 400    | 415 | 510 | 435 | 510 | 710 | 786 | 925 |
| 40    | W       | 120  | 140  | 160 | 200    | 200    | 240 | 280    | 320 | 360 | 360 | 400 | 400 |     |     |
|       | H(Open) | 233  | 275  | 285 | 305    | 355    | 373 | 408    | 436 | 480 | 558 | 611 | 720 |     |     |

## DIN-F32 PN10/16/25/40 Angle Valve



### Standards:

Design: DIN3352

Face to Face: DIN3202-F32

Flange: DIN2532/2543/2544/2545/2501/EN 1092-1

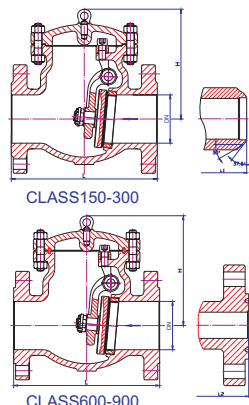
Test and Inspect: DIN3230

### Main Part Name and Material:

|             |                                          |
|-------------|------------------------------------------|
| Body/Bonnet | Carbon Steel/Alloy Steel/Stainless Steel |
| Disc Seal   | 13CR/STL/SS304/SS316                     |
| Seat Seal   | 13CR/STL/SS304/SS316                     |
| Stem        | F6a/F304/F316                            |

| PN    | DN      | 15   | 20   | 25  | 32     | 40     | 50  | 65     | 80  | 100 | 125 | 150 | 175 | 200 | 250 |
|-------|---------|------|------|-----|--------|--------|-----|--------|-----|-----|-----|-----|-----|-----|-----|
|       | NPS     | 1/2" | 3/4" | 1"  | 1-1/4" | 1-1/2" | 2"  | 2-1/2" | 3"  | 4"  | 5"  | 6"  | 7"  | 8"  | 10" |
|       | L       | 90   | 95   | 100 | 105    | 115    | 125 | 145    | 155 | 175 | 200 | 225 | 250 | 275 | 325 |
| 10/16 | W       | 120  | 120  | 160 | 160    | 200    | 200 | 220    | 250 | 300 | 350 | 400 | 400 | 450 | 500 |
|       | H(Open) | 210  | 222  | 225 | 260    | 275    | 286 | 330    | 358 | 402 | 442 | 508 | 520 | 730 | 860 |
| 25    | W       | 120  | 120  | 160 | 160    | 200    | 200 | 220    | 250 | 300 | 350 | 400 |     |     |     |
|       | H(Open) | 210  | 222  | 225 | 260    | 275    | 286 | 330    | 358 | 402 | 442 | 508 |     |     |     |
| 40    | W       | 120  | 120  | 160 | 160    | 200    | 240 | 280    | 320 | 360 | 400 | 450 |     |     |     |
|       | H(Open) | 210  | 222  | 225 | 260    | 275    | 286 | 330    | 358 | 402 | 442 | 508 |     |     |     |

## ANSI Class150-900 Swing Check Valve



### Standards:

Design: Bs1868 OR ASME16. 34

Face to Face: ANSI B16.10

Flange: ANSI B16.5

ASME B16.47 series A or API605(>24")

BW: ASME B16.25

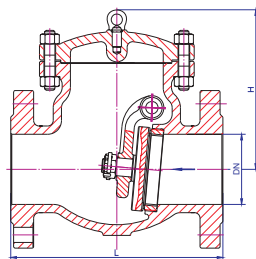
Test and Inspect: API 598

### Main Part Name and Material:

|             |                                          |
|-------------|------------------------------------------|
| Body/Bonnet | Carbon Steel/Alloy Steel/Stainless Steel |
| Disc Seal   | 13CR/STL/SS304/SS316                     |
| Seat Seal   | 13CR/STL/SS304/SS316                     |
| Stem        | F6a/F304/F316                            |

| CLASS | DN   | 50  | 65     | 80  | 100 | 125 | 150 | 200 | 250 | 300 | 350  | 400  | 450  | 500  | 600  | 700  | 800  | 900  |
|-------|------|-----|--------|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|
|       | NPS  | 2"  | 2-1/2" | 3"  | 4"  | 5"  | 6"  | 8"  | 10" | 12" | 14"  | 16"  | 18"  | 20"  | 24"  | 28"  | 32"  | 36"  |
| 150   | L-L1 | 203 | 216    | 241 | 292 | 330 | 356 | 495 | 622 | 699 | 787  | 864  | 978  | 978  | 1295 | 1448 | 1727 | 1955 |
|       | L2   | 216 | 229    | 254 | 305 | 343 | 368 | 508 | 635 | 711 | 800  | 876  | 991  | 991  | 1308 | -    | -    | -    |
|       | H    | 151 | 164    | 178 | 190 | 208 | 228 | 292 | 304 | 342 | 406  | 508  | 584  | 622  | 711  | 838  | 1016 | 1092 |
| 300   | L-L1 | 267 | 292    | 318 | 356 | 400 | 445 | 533 | 622 | 711 | 838  | 864  | 978  | 1016 | 1346 | 1499 | 1727 | 2083 |
|       | L2   | 283 | 308    | 333 | 371 | 416 | 450 | 549 | 638 | 727 | 854  | 879  | 994  | 1035 | 1368 | 1524 | 1619 | -    |
|       | H    | 161 | 175    | 203 | 228 | 252 | 279 | 342 | 381 | 431 | 482  | 508  | 584  | 660  | 762  | 889  | 1016 | 1143 |
| 600   | L-L1 | 292 | 330    | 356 | 432 | 508 | 559 | 660 | 787 | 838 | 889  | 991  | 1092 | 1194 | 1397 | 1600 | -    | -    |
|       | L2   | 295 | 333    | 359 | 435 | 511 | 562 | 664 | 791 | 841 | 892  | 994  | 1095 | 1200 | 1407 | 1613 | -    | -    |
|       | H    | 161 | 175    | 203 | 228 | 254 | 304 | 406 | 469 | 533 | 609  | 660  | 774  | 889  | 965  | 1066 | -    | -    |
| 900   | L-L1 | 368 | 419    | 381 | 457 | 559 | 610 | 737 | 838 | 965 | 1029 | 1130 | 1219 | 1321 | 1549 | 1828 | -    | -    |
|       | L2   | 371 | 422    | 384 | 441 | 562 | 613 | 740 | 841 | 968 | 1038 | 1140 | 1232 | 1334 | 1568 | 1850 | -    | -    |
|       | H    | 225 | 240    | 254 | 279 | 312 | 381 | 533 | 558 | 609 | 736  | 762  | 863  | 939  | 1066 | 1193 | -    | -    |

## DIN-F6/ F1 PN10/ 16/ 25/ 40 Swing Check Valve



### Standards:

Design: DIN3352

Face to Face: DIN3202-F1 (PN10-25), F6 (PN40)

Flange: DIN2543/2544/2545/2501/EN 1092-1

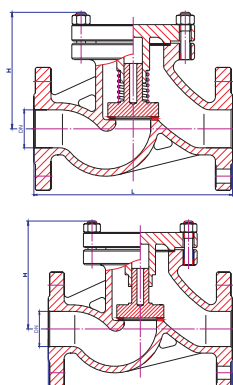
Test and Inspect: DIN3230

### Main Part Name and Material:

|             |                                          |
|-------------|------------------------------------------|
| Body/Bonnet | Carbon Steel/Alloy Steel/Stainless Steel |
| Disc Seal   | 13CR/STL/SS304/SS316                     |
| Seat Seal   | 13CR/STL/SS304/SS316                     |
| Stem        | F6a/F304/F316                            |

| PN    | DN  | 40     | 50  | 65     | 80  | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 400  | 500  | 600  |
|-------|-----|--------|-----|--------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|
|       | NPS | 1-1/2" | 2"  | 2-1/2" | 3"  | 4"  | 5"  | 6"  | 8"  | 10" | 12" | 14" | 16"  | 20"  | 24"  |
| 10/16 | L   | 180    | 200 | 240    | 260 | 300 | 350 | 400 | 500 | 600 | 700 | 800 | 900  | 1100 | 1300 |
|       | H   | 140    | 150 | 168    | 180 | 210 | 230 | 275 | 340 | 355 | 410 | 475 | 552  | 660  | 740  |
| 25    | L   | 180    | 200 | 240    | 260 | 300 | 350 | 400 | 500 | 600 | 700 | 800 | 900  | 1100 | 1300 |
|       | H   | 140    | 150 | 168    | 180 | 210 | 230 | 275 | 340 | 355 | 410 | 475 | 552  | 660  | 740  |
| 40    | L   | 200    | 230 | 290    | 310 | 350 | 400 | 480 | 600 | 730 | 850 | 980 | 1100 | 1250 | 1450 |
|       | H   | 140    | 155 | 172    | 185 | 215 | 235 | 285 | 350 | 360 | 425 | 490 | 565  | 680  | 760  |

## DIN-F1 PN16/PN25/PN40 Lift Check Valve



### Standards:

Design: DIN3352

Face to Face: DIN3202-F1

Flange: DIN2532/2543/2544/2545/2501/EN 1092-1

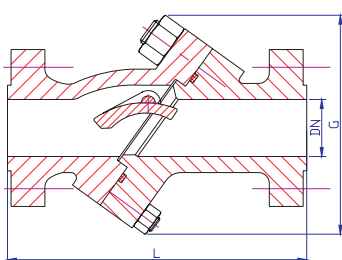
Test and Inspect: DIN3230

### Main Part Name and Material:

|             |                                          |
|-------------|------------------------------------------|
| Body/Bonnet | Carbon Steel/Alloy Steel/Stainless Steel |
| Disc Seal   | 13CR/STL/SS304/SS316                     |
| Seat Seal   | 13CR/STL/SS304/SS316                     |
| Stem        | F6a/F304/F316                            |

| PN    | DN  | 15   | 20   | 25  | 32     | 40     | 50  | 65     | 80  | 100 | 125 | 150 | 200 | 250 | 300 |
|-------|-----|------|------|-----|--------|--------|-----|--------|-----|-----|-----|-----|-----|-----|-----|
|       | NPS | 1/2" | 3/4" | 1"  | 1-1/4" | 1-1/2" | 2"  | 2-1/2" | 3"  | 4"  | 5"  | 6"  | 8"  | 10" | 12" |
|       | L   | 130  | 150  | 160 | 180    | 200    | 230 | 290    | 310 | 350 | 400 | 480 | 600 | 650 | 750 |
| 10/16 | H   | 105  | 110  | 115 | 120    | 140    | 145 | 160    | 170 | 200 | 230 | 255 | 285 | 330 | 382 |
| 25    | H   | 105  | 110  | 115 | 120    | 140    | 145 | 160    | 170 | 200 | 230 | 255 | 285 | 330 | 382 |
| 40    | H   | 105  | 110  | 115 | 120    | 140    | 145 | 160    | 170 | 200 | 230 | 255 | 285 | 330 | 382 |

## ANSI CLASS150-600 Tilting Check Valve



### Standards:

Design: API594 OR API6D

Face to Face: API594

Flange: ANSI B16.5 OR ASME B16.47

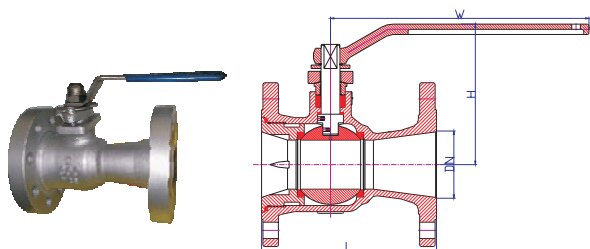
Test and Inspect: API 598

### Main Part Name and Material:

|             |                                          |
|-------------|------------------------------------------|
| Body/Bonnet | Carbon Steel/Alloy Steel/Stainless Steel |
| Disc Seal   | 13CR/STL/SS304/SS316                     |
| Seat Seal   | 13CR/STL/SS304/SS316                     |
| Stem        | F6a/F304/F316                            |

| CLASS | NPS | 2"  | 2-1/2" | 3"  | 4"  | 6"  | 8"  | 10" | 12" | 14" | 16" | 18"  | 20"  | 24"  | 26"  | 28"  | 30"  | 32"  |
|-------|-----|-----|--------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|
|       | DN  | 50  | 65     | 80  | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450  | 500  | 600  | 650  | 700  | 750  | 800  |
| 150   | L   | 203 | 216    | 241 | 292 | 356 | 495 | 622 | 698 | 787 | 864 | 978  | 978  | 1295 | 1295 | 1143 | 1143 | 1194 |
|       | G   | 160 | 182    | 196 | 230 | 300 | 390 | 432 | 510 | 540 | 635 | 700  | 770  | 900  | 930  | 991  | 1020 | 1150 |
| 300   | L   | 267 | 292    | 318 | 356 | 444 | 533 | 622 | 711 | 838 | 864 | 978  | 1016 | 1346 | 1346 | 1295 | 1372 | 1448 |
|       | G   | 170 | 196    | 214 | 245 | 320 | 400 | 460 | 540 | 580 | 660 | 725  | 800  | 940  | 970  | 1040 | 1080 | 1210 |
| 600   | L   | 292 | 330    | 356 | 432 | 559 | 660 | 787 | 838 | 889 | 991 | 1092 | 1194 | 1397 |      |      |      |      |
|       | G   | 185 | 196    | 210 | 270 | 340 | 440 | 520 | 570 | 610 | 690 | 755  | 850  | 990  |      |      |      |      |

## ANSI Class150-300 1-PC Floating Ball Valve



### Standards:

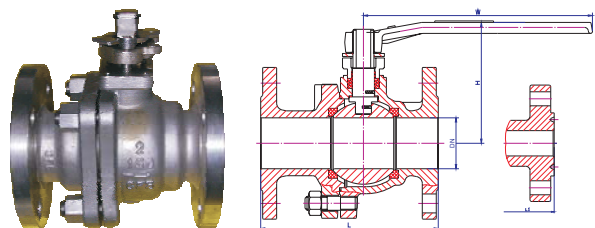
Design: BS 5351 OR API6D  
 Face to Face: ANSI B16.10  
 Flange: ANSI B16.5  
 BW: ASME B16.25  
 Test and Inspect: API 598 OR API6D

### Main Part Name and Material:

|             |                                          |
|-------------|------------------------------------------|
| Body/Bonnet | Carbon Steel/Alloy Steel/Stainless Steel |
| Disc Seal   | 13CR/STL/SS304/SS316                     |
| Seat Seal   | PTFE/R-PTFE                              |
| Stem        | F6a/F304/F316                            |

| CLASS | DN  | 40     | 50  | 65     | 80  | 100 | 125 | 150 |
|-------|-----|--------|-----|--------|-----|-----|-----|-----|
|       | NPS | 1-1/2" | 2"  | 2-1/2" | 3"  | 4"  | 5"  | 6"  |
| 150   | L   | 165    | 178 | 190    | 203 | 229 | 356 | 394 |
|       | H   | 100    | 132 | 142    | 163 | 178 | 215 | 230 |
|       | W   | 150    | 200 | 250    | 300 | 350 | 400 | 500 |
| 300   | L   | 190    | 216 | 241    | 283 | 305 | 381 | 403 |
|       | H   | 100    | 132 | 142    | 163 | 178 | 215 | 230 |
|       | W   | 150    | 200 | 250    | 300 | 350 | 400 | 500 |

## ANSI Class150-600 2-PC Floating Ball Valve



### Standards:

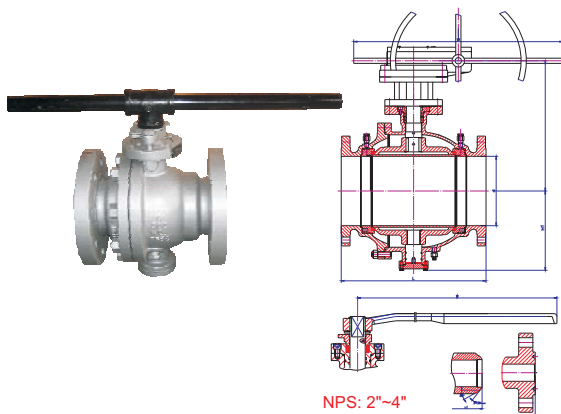
Design: BS 5351 OR API6D OR API608  
 Face to Face: ANSI B16.10  
 Flange: ANSI B16.5  
 BW: ASME B16.25  
 Fireproofing Test: API607 OR API6FA  
 Test and Inspect: API 598 OR API6D

### Main Part Name and Material:

|             |                                          |
|-------------|------------------------------------------|
| Body/Bonnet | Carbon Steel/Alloy Steel/Stainless Steel |
| Disc Seal   | 13CR/STL/SS304/SS316                     |
| Seat Seal   | PTFE/R-PTFE                              |
| Stem        | F6a/F304/F316                            |

| CLASS | DN  | 15   | 20   | 25  | 32     | 40     | 50  | 65     | 80  | 100 | 125 | 150 | 200  | 250 |
|-------|-----|------|------|-----|--------|--------|-----|--------|-----|-----|-----|-----|------|-----|
|       | NPS | 1/2" | 3/4" | 1"  | 1-1/4" | 1-1/2" | 2"  | 2-1/2" | 3"  | 4"  | 5"  | 6"  | 8"   | 10" |
| 150   | L   | 108  | 117  | 127 | 140    | 165    | 178 | 190    | 203 | 229 | 356 | 394 | 457  | 533 |
|       | L1  | 119  | 130  | 140 | 153    | 178    | 191 | 203    | 216 | 242 | 369 | 407 | 470  | 546 |
|       | H   | 85   | 90   | 99  | 105    | 126    | 140 | 165    | 178 | 230 | 280 | 310 | 350  | 706 |
|       | W   | 140  | 140  | 150 | 180    | 200    | 250 | 300    | 350 | 500 | 800 | 800 | 1000 | 400 |
| 300   | L   | 140  | 152  | 165 | 178    | 190    | 216 | 241    | 283 | 305 | 381 | 403 | 502  | -   |
|       | L1  | 151  | 165  | 178 | 191    | 203    | 232 | 257    | 299 | 321 | 397 | 419 | 518  | -   |
|       | H   | 85   | 90   | 99  | 105    | 126    | 142 | 165    | 178 | 230 | 280 | 310 | 350  | -   |
|       | W   | 140  | 140  | 150 | 180    | 200    | 250 | 300    | 350 | 500 | 800 | 800 | 1000 | -   |
| 600   | L   | 165  | 190  | 216 | 229    | 241    | 292 | 330    | 356 | 432 | -   | -   | -    | -   |
|       | L1  | 165  | 190  | 216 | 229    | 241    | 295 | 333    | 359 | 435 | -   | -   | -    | -   |
|       | H   | 79   | 83   | 114 | 120    | 125    | 156 | 172    | 220 | 250 | -   | -   | -    | -   |
|       | W   | 140  | 140  | 200 | 200    | 250    | 300 | 350    | 500 | 650 | -   | -   | -    | -   |

## ANSI Class150-300 2-PC Trunnion Ball Valve



### Standards:

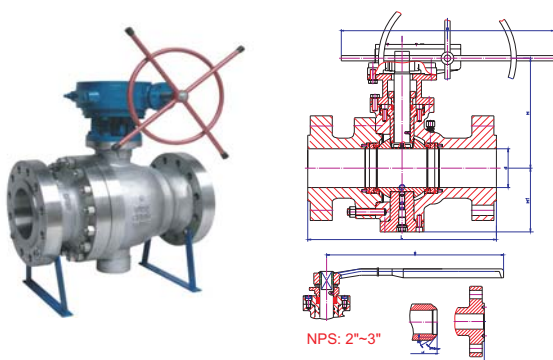
Design: BS 5351 OR API6D OR API608  
Face to Face: ANSI B16.10  
Flange: ANSI B16.5  
BW: ASME B16.25  
Fireproofing Test: API607 OR API6FA  
Test and Inspect: API 598 OR API6D

### Main Part Name and Material:

|             |                                          |
|-------------|------------------------------------------|
| Body/Bonnet | Carbon Steel/Alloy Steel/Stainless Steel |
| Disc Seal   | 13CR/STL/SS304/SS316                     |
| Seat Seal   | PTFE/R-PTFE                              |
| Stem        | F6a/F304/F316                            |

| Class | DN   | 50  | 65     | 80  | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 400 | 450 |
|-------|------|-----|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|       | NPS  | 2"  | 2-1/2" | 3"  | 4"  | 5"  | 6"  | 8"  | 10" | 12" | 14" | 16" | 18" |
| 150   | L    | 178 | 190    | 203 | 229 | 356 | 394 | 457 | 533 | 610 | 686 | 762 | 864 |
|       | L1   | 216 | 241    | 283 | 305 | 381 | 457 | 521 | 559 | 635 | 762 | 838 | 914 |
|       | L2   | 191 | 203    | 216 | 242 | 369 | 407 | 470 | 546 | 622 | 699 | 775 | 876 |
|       | H    | 170 | 193    | 208 | 227 | 338 | 377 | 421 | 482 | 549 | 582 | 687 | 731 |
|       | H1   | 108 | 124    | 140 | 157 | 180 | 211 | 252 | 309 | 345 | 440 | 478 | 478 |
|       | W    | 230 | 400    | 400 | 500 | 600 | 600 | 600 | 600 | 800 | 800 | 800 | 800 |
| 300   | L-L1 | 216 | 241    | 283 | 305 | 381 | 403 | 502 | 568 | 648 | 762 | -   | -   |
|       | L2   | 232 | 257    | 299 | 321 | 397 | 419 | 518 | 584 | 664 | 778 | -   | -   |
|       | H    | 170 | 193    | 208 | 227 | 338 | 377 | 421 | 482 | 549 | 582 | -   | -   |
|       | H1   | 108 | 124    | 140 | 157 | 180 | 211 | 252 | 309 | 345 | 386 | -   | -   |
|       | W    | 230 | 400    | 400 | 500 | 600 | 600 | 600 | 600 | 800 | 800 | -   | -   |

## ANSI Class600-1500 2-PC Trunnion Ball Valve



### Standards:

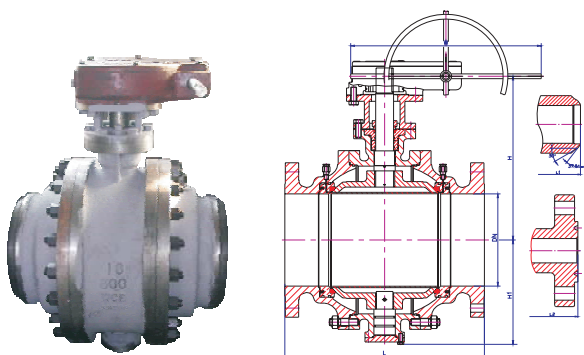
Design: BS 5351 OR API6D OR API608  
Face to Face: ANSI B16.10  
Flange: ANSI B16.5  
BW: ASME B16.25  
Fireproofing Test: API607 OR API6FA  
Test and Inspect: API 598 OR API6D

### Main Part Name and Material:

|             |                                          |
|-------------|------------------------------------------|
| Body/Bonnet | Carbon Steel/Alloy Steel/Stainless Steel |
| Disc Seal   | 13CR/STL/SS304/SS316                     |
| Seat Seal   | R-PTFE/Lylon/Peek                        |
| Stem        | F6a/F304/F316                            |

| Class | DN   | 50  | 65     | 80  | 100 | 125 | 150 | 200 | 250 | 300 |
|-------|------|-----|--------|-----|-----|-----|-----|-----|-----|-----|
|       | NPS  | 2"  | 2-1/2" | 3"  | 4"  | 5"  | 6"  | 8"  | 10" | 12" |
| 600   | L-L1 | 292 | 330    | 356 | 432 | 508 | 559 | 660 | 787 | 838 |
|       | L2   | 295 | 333    | 359 | 435 | 511 | 562 | 664 | 791 | 841 |
|       | H    | 192 | 215    | 231 | 243 | 387 | 402 | 459 | 557 | 610 |
|       | H1   | 108 | 124    | 140 | 157 | 192 | 227 | 286 | 328 | 371 |
|       | W    | 230 | 400    | 400 | 600 | 600 | 800 | 800 | 800 | 800 |
| 900   | L-L1 | 368 | 419    | 381 | 457 | 559 | 610 | 737 | 838 | -   |
|       | L2   | 371 | 422    | 384 | 460 | 562 | 613 | 740 | 841 | -   |
|       | H    | 195 | 221    | 245 | 367 | 387 | 435 | 528 | 581 | -   |
|       | H1   | 118 | 131    | 143 | 178 | 192 | 230 | 286 | 328 | -   |
|       | W    | 400 | 400    | 400 | 600 | 600 | 800 | 800 | 800 | -   |
| 1500  | L-L1 | 368 | 419    | 470 | 546 | 673 | 705 | -   | -   | -   |
|       | L2   | 371 | 422    | 473 | 549 | 676 | 711 | -   | -   | -   |
|       | H    | 195 | 221    | 267 | 367 | 387 | 435 | -   | -   | -   |
|       | H1   | 118 | 131    | 148 | 178 | 192 | 238 | -   | -   | -   |
|       | W    | 400 | 400    | 700 | 600 | 600 | 800 | -   | -   | -   |

## ANSI Class150-300 3-PC Trunnion Ball Valve



### Standards:

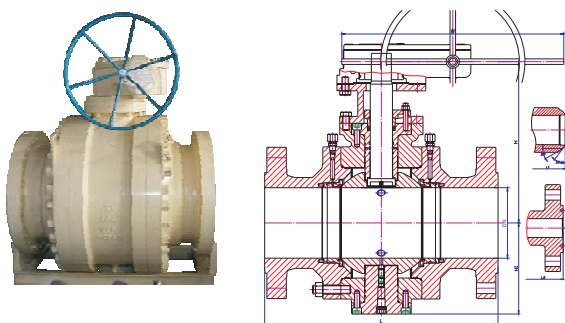
Design: BS 5351 OR API6D OR API608  
 Face to Face: ANSI B16.10  
 Flange: ANSI B16.5 OR API605  
 BW: ASME B16.25  
 Fireproofing Test: API607 OR API6FA  
 Test and Inspect: API 598 OR API6D

### Main Part Name and Material:

|             |                                          |
|-------------|------------------------------------------|
| Body/Bonnet | Carbon Steel/Alloy Steel/Stainless Steel |
| Disc Seal   | 13CR/STL/SS304/SS316                     |
| Seat Seal   | PTFE/R-PTFE                              |
| Stem        | F6a/F304/F316                            |

| Class | DN   | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500  | 600  | 700  | 750  | 800  | 900  |
|-------|------|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|
|       | NPS  | 6"  | 8"  | 10" | 12" | 14" | 16" | 18" | 20"  | 24"  | 28"  | 30"  | 32"  | 36"  |
| 150   | L    | 394 | 457 | 533 | 610 | 686 | 762 | 864 | 914  | 1067 | 1245 | 1295 | 1372 | 1524 |
|       | L1   | 457 | 521 | 559 | 635 | 762 | 838 | 914 | 991  | 1143 | 1346 | 1397 | 1524 | 1727 |
|       | L2   | 407 | 470 | 546 | 622 | 699 | 775 | 876 | 927  | 1080 | -    | -    | -    | -    |
|       | H    | 377 | 421 | 482 | 549 | 582 | 687 | 731 | 772  | 995  | 865  | 994  | 1088 | 1122 |
|       | H1   | 211 | 252 | 309 | 345 | 440 | 478 | 478 | 542  | 630  | 697  | 734  | 814  | 860  |
|       | W    | 600 | 600 | 600 | 800 | 800 | 800 | 800 | 800  | 1000 | 1000 | 1000 | 1000 | 1000 |
| 300   | L-L1 | 403 | 502 | 568 | 648 | 762 | 838 | 914 | 991  | 1143 | 1346 | 1397 | 1524 | 1727 |
|       | L2   | 419 | 518 | 584 | 664 | 778 | 854 | 930 | 1010 | 1165 | 1372 | 1422 | 1553 | 1756 |
|       | H    | 377 | 421 | 482 | 549 | 582 | 687 | 731 | 772  | 995  | 865  | 994  | 1088 | 1122 |
|       | H1   | 211 | 252 | 309 | 345 | 386 | 478 | 478 | 542  | 630  | 697  | 734  | 814  | 860  |
|       | W    | 600 | 600 | 600 | 800 | 800 | 800 | 800 | 800  | 1000 | 1000 | 1000 | 1000 | 1000 |

## ANSI Class600-1500 3-PC Trunnion Ball Valve



### Standards:

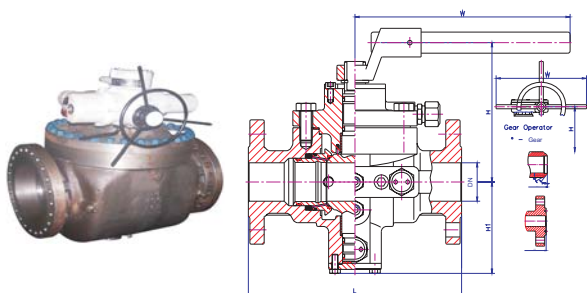
Design: BS 5351 OR API6D OR API608  
 Face to Face: ANSI B16.10  
 Flange: ANSI B16.5 OR API605  
 BW: ASME B16.25  
 Fireproofing Test: API607 OR API6FA  
 Test and Inspect: API 598 OR API6D

### Main Part Name and Material:

|             |                                          |
|-------------|------------------------------------------|
| Body/Bonnet | Carbon Steel/Alloy Steel/Stainless Steel |
| Disc Seal   | 13CR/STL/SS304/SS316                     |
| Seat Seal   | R-PTFE/Lylon/Peek                        |
| Stem        | F6a/F304/F316                            |

| Class | DN   | 150 | 200 | 250  | 300  | 350  | 400  | 450  | 500  | 600  | 700  | 750  | 800  | 900  |
|-------|------|-----|-----|------|------|------|------|------|------|------|------|------|------|------|
|       | NPS  | 6"  | 8"  | 10"  | 12"  | 14"  | 16"  | 18"  | 20"  | 24"  | 28"  | 30"  | 32"  | 36"  |
| 600   | L-L1 | 559 | 660 | 787  | 838  | 889  | 991  | 1092 | 1194 | 1397 | 1549 | 1651 | 1778 | 2083 |
|       | L2   | 562 | 664 | 791  | 841  | 892  | 994  | 1095 | 1200 | 1407 | 1562 | 1664 | 1794 | 2099 |
|       | H    | 402 | 459 | 557  | 610  | 715  | 772  | 707  | 782  | 887  | 965  | 1040 | 1127 | 1220 |
|       | H1   | 227 | 286 | 328  | 371  | 388  | 433  | 498  | 533  | 635  | 712  | 763  | 841  | 958  |
|       | W    | 800 | 800 | 800  | 800  | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
|       | L-L1 | 610 | 737 | 838  | 965  | 1029 | 1130 | 1219 | 1321 | 1549 | 1753 | 1880 | 2032 | 2286 |
| 900   | L2   | 613 | 740 | 841  | 968  | 1038 | 1140 | 1232 | 1334 | 1568 | 1775 | 1902 | 2054 | 2315 |
|       | H    | 435 | 528 | 581  | 707  | 773  | 755  | 830  | 782  | 887  | 965  | 1040 | 1127 | 1220 |
|       | H1   | 230 | 286 | 328  | 380  | 412  | 440  | 498  | 533  | 635  | 712  | 763  | 841  | 958  |
|       | W    | 800 | 800 | 800  | 800  | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
|       | L-L1 | 705 | 823 | 991  | 1130 | 1257 | 1384 | 1537 | 1664 | 1943 | 2148 | 2251 | 2346 | 2556 |
|       | L2   | 711 | 841 | 1000 | 1146 | 1276 | 1407 | 1559 | 1686 | 1972 | 2176 | 2281 | 2380 | 2590 |
| 1500  | H    | 435 | 538 | 581  | 707  | 773  | 755  | 830  | 782  | 887  | 965  | 1040 | 1127 | 1220 |
|       | H1   | 238 | 289 | 328  | 380  | 412  | 440  | 498  | 533  | 635  | 712  | 763  | 841  | 958  |
|       | W    | 800 | 800 | 800  | 800  | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |

## ANSI Class150-300 Top Entry Ball Valve



### Standards:

Design: BS 5351 OR API6D OR API608

Face to Face: ANSI B16.10

Flange: ANSI B16.5 OR API605

BW: ASME B16.25

Fireproofing Test: API607 OR API6FA

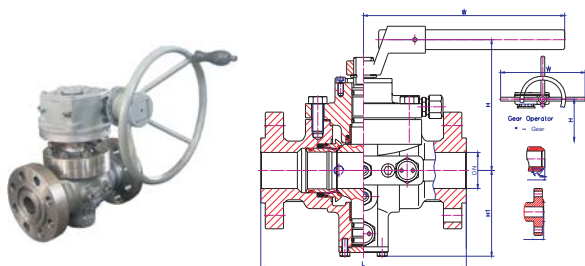
Test and Inspect: API 598 OR API6D

### Main Part Name and Material:

|             |                                          |
|-------------|------------------------------------------|
| Body/Bonnet | Carbon Steel/Alloy Steel/Stainless Steel |
| Disc Seal   | 13CR/STL/SS304/SS316                     |
| Seat Seal   | PTFE/R-PTFE                              |
| Stem        | F6a/F304/F316                            |

| Class | DN   | 50  | 80  | 100 | 150  | 200  | 250  | 300  |
|-------|------|-----|-----|-----|------|------|------|------|
|       | NPS  | 2"  | 3"  | 4"  | 6"   | 8"   | 10"  | 12"  |
| 150   | L-L1 | 292 | 356 | 432 | 559  | 660  | 787  | 838  |
|       | L2   | 295 | 359 | 435 | 562  | 664  | 791  | 841  |
|       | H    | 193 | 218 | 270 | 316  | 380  | 438  | 508  |
|       | H1   | 127 | 148 | 172 | 223  | 256  | 302  | 368  |
|       | W    | 230 | 400 | 700 | 1100 | 1500 | 800* | 800* |
| 300   | L-L1 | 292 | 356 | 432 | 559  | 660  | 787  | 838  |
|       | L2   | 295 | 359 | 435 | 562  | 664  | 791  | 841  |
|       | H    | 193 | 218 | 270 | 316  | 380  | 438  | 508  |
|       | H1   | 127 | 148 | 172 | 223  | 256  | 302  | 368  |
|       | W    | 230 | 400 | 700 | 1100 | 1500 | 800* | 800* |

## ANSI Class600-1500 Top Entry Ball Valve



### Standards:

Design: BS 5351 OR API6D OR API608

Face to Face: ANSI B16.10

Flange: ANSI B16.5 OR API605

BW: ASME B16.25

Fireproofing Test: API607 OR API6FA

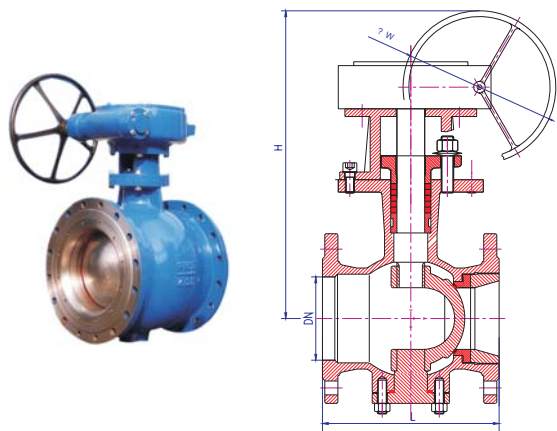
Test and Inspect: API 598 OR API6D

### Main Part Name and Material:

|             |                                          |
|-------------|------------------------------------------|
| Body/Bonnet | Carbon Steel/Alloy Steel/Stainless Steel |
| Disc Seal   | 13CR/STL/SS304/SS316                     |
| Seat Seal   | R-PTFE/Lylon/Peek                        |
| Stem        | F6a/F304/F316                            |

| Class | DN   | 50  | 80   | 100  | 150  | 200  | 250  | 300  |
|-------|------|-----|------|------|------|------|------|------|
|       | NPS  | 2"  | 3"   | 4"   | 6"   | 8"   | 10"  | 12"  |
| 600   | L-L1 | 292 | 356  | 432  | 559  | 660  | 787  | 838  |
|       | L2   | 295 | 359  | 435  | 562  | 664  | 791  | 841  |
|       | H    | 193 | 218  | 270  | 316  | 380  | 438  | 508  |
|       | H1   | 127 | 148  | 172  | 223  | 256  | 302  | 368  |
|       | W    | 550 | 700  | 1200 | 1500 | 600* | 800* | 800* |
| 900   | L-L1 | 368 | 381  | 457  | 610  | 737  | 838  | 965  |
|       | L2   | 371 | 384  | 460  | 613  | 740  | 841  | 1140 |
|       | H    | 193 | 218  | 270  | 316  | 380  | 438  | 508  |
|       | H1   | 127 | 148  | 172  | 223  | 256  | 302  | 368  |
|       | W    | 550 | 700  | 1200 | 1500 | 600* | 800* | 800* |
| 1500  | L-L1 | 368 | 470  | 546  | 705  | 832  | 991  | 1130 |
|       | L2   | 371 | 473  | 549  | 711  | 841  | 1000 | 1146 |
|       | H    | 193 | 218  | 270  | 316  | 380  | 438  | 508  |
|       | H1   | 127 | 148  | 172  | 223  | 256  | 302  | 368  |
|       | W    | 550 | 600* | 600* | 800* | 800* | 800* | 800* |

## ANSI Class150-300 Eccentric Hemisphere Valve



### Standards:

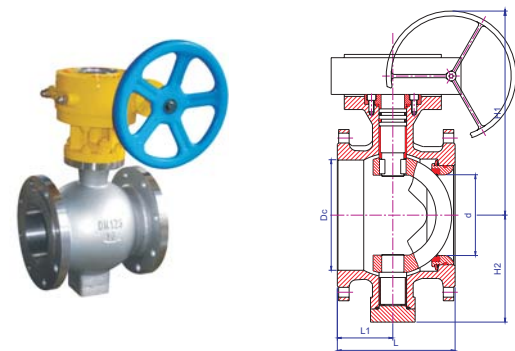
Design: BS 5351 OR API6D  
 Face to Face: SDV-2000  
 Flange: ANSI B16.5  
 Test and Inspect: API 598 OR API6D

### Main Part Name and Material:

|           |                                   |
|-----------|-----------------------------------|
| Body/Cap  | Carbon Steel/Stainless Steel      |
| Ball      | A105/SS304/SS316                  |
| Seat Seal | Carbon Steel/Stainless Steel+PTFE |
| Stem      | SS410/SS304/SS316                 |

| Class | DN  | 50  | 65     | 80  | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600  | 700  |
|-------|-----|-----|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
|       | NPS | 2"  | 2-1/2" | 3"  | 4"  | 5"  | 6"  | 8"  | 10" | 12" | 14" | 16" | 18" | 20" | 24"  | 28"  |
| 150   | L   | 178 | 190    | 203 | 229 | 254 | 264 | 292 | 330 | 502 | 572 | 610 | 660 | 711 | 813  | 914  |
|       | H   | 200 | 215    | 235 | 250 | 280 | 300 | 370 | 420 | 450 | 520 | 570 | 640 | 670 | 720  | 800  |
|       | W   | 230 | 400    | 400 | 500 | 600 | 600 | 600 | 600 | 800 | 800 | 800 | 800 | 800 | 1000 | 1000 |
| 300   | L   | 178 | 190    | 203 | 229 | 254 | 264 | 292 | 330 | 502 | 572 | 610 | 660 | 711 | 813  | 914  |
|       | H   | 200 | 215    | 235 | 250 | 280 | 300 | 370 | 420 | 450 | 520 | 570 | 640 | 670 | 720  | 800  |
|       | W   | 230 | 400    | 400 | 500 | 600 | 600 | 600 | 600 | 800 | 800 | 800 | 800 | 800 | 1000 | 1000 |

## ANSI Class150-300 V-Port Flanged Ball Valve



### Standards:

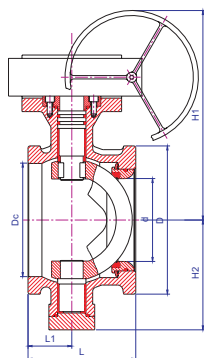
Design: MANUFACTORY STD  
 Face to Face: MANUFACTORY STD  
 Flange: ANSI B16.5  
 Test and Inspect: API 598

### Main Part Name and Material:

|           |                                   |
|-----------|-----------------------------------|
| Body/Cap  | Carbon Steel/Stainless Steel      |
| Ball      | A105/SS304/SS316                  |
| Seat Seal | Carbon Steel/Stainless Steel+PTFE |
| Stem      | SS410/SS304/SS316                 |

| Class | DN  | 25  | 40     | 50  | 65     | 80  | 100 | 125 | 150 | 200 | 250 | 300 |
|-------|-----|-----|--------|-----|--------|-----|-----|-----|-----|-----|-----|-----|
|       | NPS | 1"  | 1-1/2" | 2"  | 2-1/2" | 3"  | 4"  | 5"  | 6"  | 8"  | 10" | 12" |
| 150   | d   | 19  | 32     | 38  | 51     | 64  | 76  | 102 | 127 | 152 | 203 | 254 |
|       | Dc  | 38  | 49     | 60  | 75     | 89  | 113 | 140 | 164 | 205 | 259 | 300 |
|       | L   | 102 | 114    | 124 | 145    | 165 | 194 | 210 | 229 | 243 | 297 | 338 |
|       | L1  | 51  | 57     | 62  | 72     | 83  | 97  | 105 | 114 | 121 | 148 | 169 |
|       | H   | 200 | 205    | 225 | 235    | 260 | 270 | 320 | 340 | 390 | 420 | 510 |
|       | H1  | 57  | 63     | 92  | 100    | 108 | 117 | 140 | 177 | 200 | 252 | 270 |
| 300   | d   | 19  | 32     | 38  | 51     | 64  | 76  | 102 | 127 | 152 | 203 | 254 |
|       | Dc  | 38  | 49     | 60  | 75     | 89  | 113 | 140 | 164 | 205 | 259 | 300 |
|       | L   | 102 | 114    | 124 | 145    | 165 | 194 | 210 | 229 | 243 | 297 | 338 |
|       | L1  | 51  | 57     | 62  | 72     | 83  | 97  | 105 | 114 | 121 | 148 | 169 |
|       | H   | 200 | 205    | 225 | 235    | 260 | 270 | 320 | 340 | 390 | 420 | 510 |
|       | H1  | 57  | 63     | 92  | 100    | 108 | 117 | 140 | 177 | 200 | 252 | 270 |

## ANSI Class150-300 V-Port Wafer Ball Valve



### Standards:

Design: MANUFACTORY STD

Face to Face: MANUFACTORY STD

Flange: ANSI B16.5

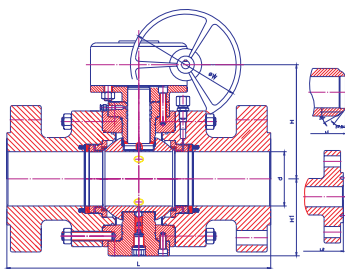
Test and Inspect: API 598

### Main Part Name and Material:

|           |                                   |
|-----------|-----------------------------------|
| Body/Cap  | Carbon Steel/Stainless Steel      |
| Ball      | A105/SS304/SS316                  |
| Seat Seal | Carbon Steel/Stainless Steel+PTFE |
| Stem      | SS410/SS304/SS316                 |

| Class | DN  | 25  | 40     | 50  | 65     | 80  | 100 | 125 | 150 | 200 | 250 |
|-------|-----|-----|--------|-----|--------|-----|-----|-----|-----|-----|-----|
|       | NPS | 1"  | 1-1/2" | 2"  | 2-1/2" | 3"  | 4"  | 5"  | 6"  | 8"  | 10" |
| 150   | d   | 19  | 32     | 38  | 51     | 64  | 76  | 102 | 127 | 152 | 203 |
|       | Dc  | 38  | 49     | 60  | 75     | 89  | 113 | 140 | 164 | 205 | 259 |
|       | D   | 65  | 84     | 103 | 122    | 135 | 173 | 195 | 220 | 277 | 337 |
|       | L   | 50  | 60     | 75  | 85     | 100 | 115 | 135 | 160 | 200 | 240 |
|       | L1  | 25  | 25     | 32  | 38     | 45  | 50  | 55  | 65  | 80  | 92  |
|       | H   | 200 | 205    | 225 | 235    | 260 | 270 | 320 | 340 | 390 | 420 |
| 300   | H1  | 57  | 63     | 92  | 100    | 108 | 117 | 140 | 177 | 200 | 252 |
|       | d   | 19  | 32     | 38  | 51     | 64  | 76  | 102 | 127 | 152 | 203 |
|       | Dc  | 38  | 49     | 60  | 75     | 89  | 113 | 140 | 164 | 205 | 259 |
|       | D   | 72  | 94     | 110 | 128    | 147 | 179 | 214 | 249 | 305 | 359 |
|       | L   | 102 | 114    | 124 | 145    | 165 | 194 | 210 | 229 | 243 | 297 |
|       | L1  | 51  | 57     | 62  | 72     | 83  | 97  | 105 | 114 | 121 | 148 |
|       | H   | 200 | 205    | 225 | 235    | 260 | 270 | 320 | 340 | 390 | 420 |
|       | H1  | 57  | 63     | 92  | 100    | 108 | 117 | 140 | 177 | 200 | 252 |

## ANSI Class600-1500 3-PC Forged Steel Ball Valve



### Standards:

Design: API6D

Face to Face: ANSI B16.10

Flange: ANSI B16.5

BW: ASME B16.25

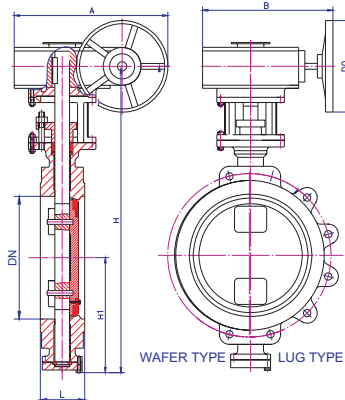
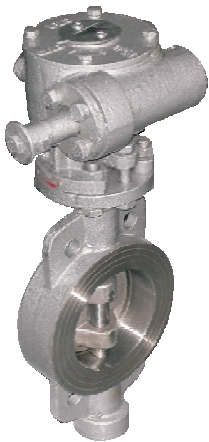
Test and Inspect: API 598 OR API6D

### Main Part Name and Material:

|             |                                          |
|-------------|------------------------------------------|
| Body/Bonnet | Carbon Steel/Alloy Steel/Stainless Steel |
| Disc Seal   | 13CR/STL/SS304/SS316                     |
| Seat Seal   | R-PTFE/Lylon/Peek                        |
| Stem        | F6a/F304/F316                            |

| Class    | DN   | 50  | 65     | 80   | 100 | 125 | 150 | 200 | 250 | 300 | 350  | 400  | 450  | 500  | 600  |
|----------|------|-----|--------|------|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
|          | NPS  | 2"  | 2-1/2" | 3"   | 4"  | 5"  | 6"  | 8"  | 10" | 12" | 14"  | 16"  | 18"  | 20"  | 24"  |
| 600      | L-L1 | 292 | 330    | 356  | 432 | 508 | 559 | 660 | 787 | 838 | 889  | 991  | 1092 | 1194 | 1397 |
|          | L2   | 295 | 333    | 359  | 435 | 511 | 562 | 664 | 791 | 841 | 892  | 994  | 1095 | 1200 | 1407 |
|          | H    | 177 | 185    | 208  | 250 | 285 | 290 | 358 | 424 | 456 | 475  | 537  | 610  | 690  | /    |
|          | H1   | 130 | 138    | 175  | 200 | 225 | 190 | 255 | 298 | 330 | 355  | 405  | 476  | 560  | /    |
|          | W    | 600 | 600    | 1000 | 600 | 600 | 800 | 800 | 800 | 800 | 600  | 800  | 800  | 800  | /    |
| 900-1500 | L-L1 | 368 | 419    | 381  | 457 | /   | 610 | 737 | 838 | 965 | 1029 | 1130 | /    | /    | /    |
|          | L2   | 371 | 422    | 384  | 460 | /   | 613 | 740 | 841 | 968 | 1038 | 1140 | /    | /    | /    |
|          | H    | 177 | 185    | 208  | 250 | /   | 290 | 358 | 424 | 456 | 475  | 537  | /    | /    | /    |
|          | H1   | 130 | 138    | 175  | 200 | /   | 190 | 255 | 298 | 330 | 355  | 405  | /    | /    | /    |
|          | W    | 600 | 600    | 1000 | 600 | /   | 800 | 800 | 800 | 800 | 600  | 800  | /    | /    | /    |

## ANSI Class150-300 Wafer/Lug Triple Offset Butterfly Valve



### Standards:

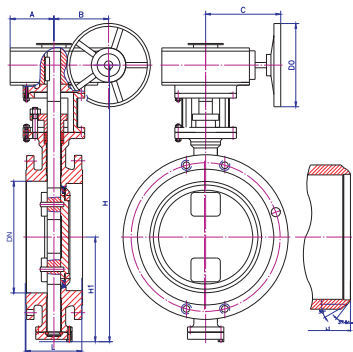
Design: API609  
Face to Face: API609  
End to End: API609  
Flange: ANSI B16.5  
Butt-Welding: ASME B16.25  
Test and Inspect: API 598

### Main Part Name and Material:

|           |                                          |
|-----------|------------------------------------------|
| Body      | Carbon Steel/Alloy Steel/Stainless Steel |
| Disc Seal | SS304/SS316+Graphite/PTFE/R-PTFE         |
| Seat Seal | 13CR/STL/SS304/SS316                     |
| Stem      | F6a/F304/F316                            |

|          |     |        |     |     |     |     |     |     |     |     |     |      |      |      |
|----------|-----|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|
| DN       | 50  | 65     | 80  | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 400 | 450  | 500  | 600  |
| NPS      | 2"  | 2-1/2" | 3"  | 4"  | 5"  | 6"  | 8"  | 10" | 12" | 14" | 16" | 18"  | 20"  | 24"  |
| L(CL150) | 46  | 46     | 48  | 54  | 57  | 57  | 64  | 71  | 81  | 92  | 102 | 114  | 127  | 154  |
| L(CL300) | 46  | 46     | 48  | 54  | 59  | 59  | 73  | 83  | 92  | 117 | 133 | 149  | 159  | 181  |
| H        | 355 | 365    | 370 | 415 | 450 | 580 | 600 | 690 | 830 | 890 | 980 | 1020 | 1130 | 1240 |
| H1       | 110 | 116    | 128 | 140 | 185 | 190 | 215 | 260 | 290 | 323 | 374 | 390  | 415  | 490  |
| D0       | 250 | 250    | 250 | 250 | 250 | 300 | 300 | 300 | 400 | 400 | 400 | 400  | 500  | 500  |
| A        | 194 | 194    | 194 | 194 | 268 | 268 | 306 | 306 | 416 | 416 | 416 | 475  | 475  | 475  |
| B        | 186 | 186    | 186 | 186 | 252 | 252 | 300 | 300 | 400 | 400 | 400 | 420  | 420  | 420  |

## ANSI Class150-300 Flanged Triple Offset Butterfly Valve



### Standards:

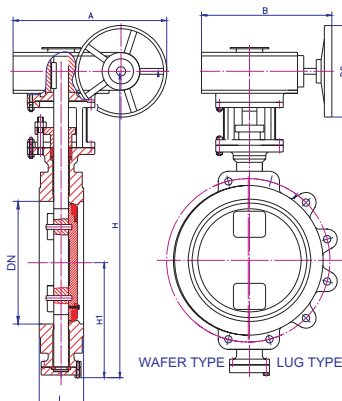
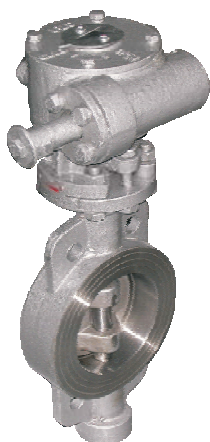
Design: API609  
Face to Face: API609  
End to End: API609  
Flange: ANSI B16.5  
Butt-Welding: ASME B16.25  
Test and Inspect: API 598

### Main Part Name and Material:

|           |                                          |
|-----------|------------------------------------------|
| Body      | Carbon Steel/Alloy Steel/Stainless Steel |
| Disc Seal | SS304/SS316+Graphite/PTFE/R-PTFE         |
| Seat Seal | 13CR/STL/SS304/SS316                     |
| Stem      | F6a/F304/F316                            |

|      |     |        |     |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |
|------|-----|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|
| DN   | 50  | 65     | 80  | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 400 | 450  | 500  | 600  | 700  | 800  | 900  | 1000 | 1200 |
| NPS  | 2"  | 2-1/2" | 3"  | 4"  | 5"  | 6"  | 8"  | 10" | 12" | 14" | 16" | 18"  | 20"  | 24"  | 28"  | 32"  | 36"  | 40"  | 48"  |
| L-L1 | 108 | 112    | 114 | 127 | 140 | 140 | 152 | 165 | 178 | 190 | 216 | 222  | 229  | 267  | 292  | 318  | 330  | 410  | 470  |
| H    | 355 | 365    | 370 | 415 | 450 | 580 | 600 | 690 | 830 | 890 | 980 | 1020 | 1130 | 1240 | 1350 | 1460 | 1610 | 1750 | 1870 |
| H1   | 110 | 116    | 128 | 140 | 185 | 190 | 215 | 260 | 290 | 323 | 374 | 390  | 415  | 490  | 530  | 570  | 630  | 710  | 850  |
| D0   | 250 | 250    | 250 | 250 | 250 | 300 | 300 | 300 | 400 | 400 | 400 | 400  | 500  | 500  | 500  | 500  | 650  | 650  | 650  |
| A    | 50  | 50     | 50  | 50  | 50  | 65  | 65  | 65  | 85  | 85  | 85  | 85   | 100  | 100  | 100  | 100  | 160  | 160  | 160  |
| B    | 61  | 61     | 61  | 61  | 61  | 80  | 80  | 80  | 108 | 108 | 108 | 108  | 144  | 144  | 144  | 144  | 220  | 220  | 220  |
| C    | 106 | 106    | 106 | 106 | 106 | 215 | 215 | 215 | 200 | 200 | 200 | 200  | 330  | 330  | 330  | 330  | 250  | 250  | 250  |

## DIN PN16/ 25/ 40 Wafer Triple Offset Butterfly Valve



### Standards:

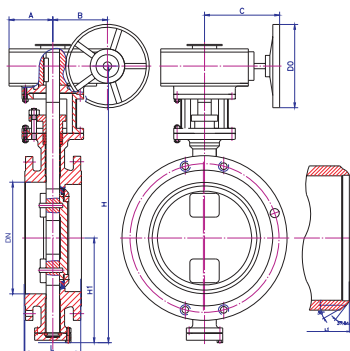
Design: DIN3352  
Face to Face: DIN3202-K1  
Flange: 2543/2544/2545/2501/EN 1092-1  
Test and Inspect: DIN3230

### Main Part Name and Material:

|             |                                          |
|-------------|------------------------------------------|
| Body/Bonnet | Carbon Steel/Alloy Steel/Stainless Steel |
| Disc Seal   | 13CR/STL/SS304/SS316                     |
| Seat Seal   | PTFE/R-PTFE                              |
| Stem        | F6a/F304/F316                            |

|     |     |        |     |     |     |     |     |     |     |     |     |      |      |      |
|-----|-----|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|
| DN  | 50  | 65     | 80  | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 400 | 450  | 500  | 600  |
| NPS | 2"  | 2-1/2" | 3"  | 4"  | 5"  | 6"  | 8"  | 10" | 12" | 14" | 16" | 18"  | 20"  | 24"  |
| L   | 43  | 46     | 46  | 52  | 56  | 56  | 60  | 68  | 78  | 78  | 102 | 114  | 127  | 154  |
| H   | 355 | 365    | 370 | 415 | 450 | 580 | 600 | 690 | 830 | 890 | 980 | 1020 | 1130 | 1240 |
| H1  | 110 | 116    | 128 | 140 | 185 | 190 | 215 | 260 | 290 | 323 | 374 | 390  | 415  | 490  |
| D0  | 250 | 250    | 250 | 250 | 250 | 300 | 300 | 300 | 400 | 400 | 400 | 400  | 500  | 500  |
| A   | 194 | 194    | 194 | 194 | 268 | 268 | 306 | 306 | 416 | 416 | 416 | 475  | 475  | 475  |
| B   | 186 | 186    | 186 | 186 | 252 | 252 | 300 | 300 | 400 | 400 | 400 | 420  | 420  | 420  |

## DIN PN16/ 25/ 40 Flange Triple Offset Butterfly Valve



### Standards:

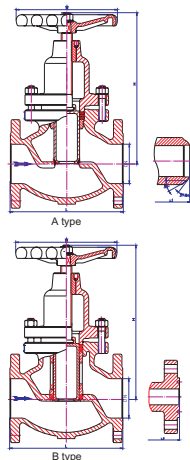
Design: DIN3352  
Face to Face: DIN3202-F16  
Flange: 2543/2544/2545/2501/EN 1092-1  
BW ENDS: Customer STD  
Test and Inspect: DIN3230

### Main Part Name and Material:

|             |                                          |
|-------------|------------------------------------------|
| Body/Bonnet | Carbon Steel/Alloy Steel/Stainless Steel |
| Disc Seal   | 13CR/STL/SS304/SS316                     |
| Seat Seal   | R-PTFE/Lylon/Peek                        |
| Stem        | F6a/F304/F316                            |

|      |     |        |     |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |
|------|-----|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|
| DN   | 50  | 65     | 80  | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 400 | 450  | 500  | 600  | 700  | 800  | 900  | 1000 | 1200 |
| NPS  | 2"  | 2-1/2" | 3"  | 4"  | 5"  | 6"  | 8"  | 10" | 12" | 14" | 16" | 18"  | 20"  | 24"  | 28"  | 32"  | 36"  | 40"  | 48"  |
| L-L1 | 108 | 112    | 114 | 127 | 140 | 140 | 152 | 165 | 178 | 190 | 216 | 222  | 229  | 267  | 292  | 318  | 330  | 410  | 470  |
| H    | 355 | 365    | 370 | 415 | 450 | 580 | 600 | 690 | 830 | 890 | 980 | 1020 | 1130 | 1240 | 1350 | 1460 | 1610 | 1750 | 1870 |
| H1   | 110 | 116    | 128 | 140 | 185 | 190 | 215 | 260 | 290 | 323 | 374 | 390  | 415  | 490  | 530  | 570  | 630  | 710  | 850  |
| D0   | 250 | 250    | 250 | 250 | 250 | 300 | 300 | 300 | 400 | 400 | 400 | 400  | 500  | 500  | 500  | 500  | 650  | 650  | 650  |
| A    | 50  | 50     | 50  | 50  | 50  | 65  | 65  | 65  | 85  | 85  | 85  | 85   | 100  | 100  | 100  | 100  | 160  | 160  | 160  |
| B    | 61  | 61     | 61  | 61  | 61  | 80  | 80  | 80  | 108 | 108 | 108 | 108  | 144  | 144  | 144  | 144  | 220  | 220  | 220  |
| C    | 106 | 106    | 106 | 106 | 106 | 215 | 215 | 215 | 200 | 200 | 200 | 200  | 330  | 330  | 330  | 330  | 250  | 250  | 250  |

## ANSI Class150-300 Piston Valve



### Standards:

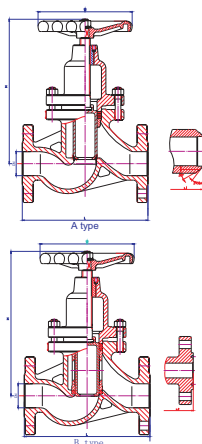
Design: ASME16.34  
Face to Face: ANSI B16.10  
Flange: ANSI B16.5  
BW: ASME B16.25  
Test and Inspect: API 598

### Main Part Name and Material:

|             |                                          |
|-------------|------------------------------------------|
| Body/Bonnet | Carbon Steel/Alloy Steel/Stainless Steel |
| Disc Seal   | 13CR/STL/SS304/SS316                     |
| Seat Seal   | 13CR/STL/SS304/SS316/PTFE/Graphite       |
| Stem        | F6a/F304/F316                            |

| CLASS  | DN      | 15   | 20   | 25  | 40     | 50  | 65     | 80  | 100 | 150 | 200 |
|--------|---------|------|------|-----|--------|-----|--------|-----|-----|-----|-----|
|        | NPS     | 1/2" | 3/4" | 1"  | 1-1/2" | 2"  | 2-1/2" | 3"  | 4"  | 6"  | 8"  |
| 150LBS | L-L1    | 165  | 203  | 216 | 165    | 203 | 216    | 241 | 292 | 406 | 495 |
|        | L2      | 178  | 216  | 229 | 178    | 216 | 229    | 254 | 305 | 419 | 508 |
|        | W       | 100  | 100  | 120 | 135    | 200 | 250    | 250 | 280 | 350 | 400 |
|        | H(Open) | 115  | 135  | 155 | 190    | 205 | 245    | 285 | 320 | 410 | 530 |
| 300LBS | L-L1    | 229  | 267  | 292 | 229    | 267 | 292    | 318 | 356 | 444 | 559 |
|        | L2      | 241  | 283  | 308 | 241    | 283 | 308    | 333 | 371 | 460 | 575 |
|        | W       | 200  | 200  | 250 | 200    | 200 | 250    | 250 | 350 | 450 | 450 |
|        | H(Open) | 365  | 120  | 120 | 170    | 205 | 205    | 280 | 350 | 400 | 450 |

## DIN-F1 PN10/16/PN25/PN40 Piston Valve



### Standards:

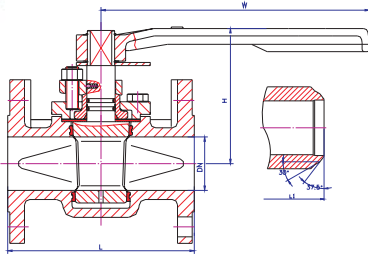
Design: DIN3352  
Face to Face: DIN3202-F1  
Flange: DIN2532/2543/2544/2545/2501/EN 1092-1  
Test and Inspect: DIN3230

### Main Part Name and Material:

|             |                                          |
|-------------|------------------------------------------|
| Body/Bonnet | Carbon Steel/Alloy Steel/Stainless Steel |
| Disc Seal   | 13CR/STL/SS304/SS316                     |
| Seat Seal   | 13CR/STL/SS304/SS316/PTFE/Graphite       |
| Stem        | F6a/F304/F316                            |

| PN    | DN      | 15   | 20   | 25  | 40     | 50  | 65     | 80  | 100 | 150 | 200 | 250 | 300 |
|-------|---------|------|------|-----|--------|-----|--------|-----|-----|-----|-----|-----|-----|
|       | NPS     | 1/2" | 3/4" | 1"  | 1-1/2" | 2"  | 2-1/2" | 3"  | 4"  | 6"  | 8"  | 10" | 12" |
| 10/16 | L       | 130  | 150  | 160 | 200    | 230 | 290    | 310 | 350 | 480 | 600 | 650 | 750 |
|       | W       | 120  | 140  | 160 | 200    | 240 | 240    | 280 | 320 | 360 | 400 | 450 | 500 |
|       | H(Open) | 203  | 223  | 230 | 268    | 279 | 336    | 357 | 419 | 473 | 530 | 564 | 670 |
| 25    | W       | 120  | 140  | 160 | 200    | 240 | 240    | 280 | 320 | 360 | 400 | 450 | 500 |
|       | H(Open) | 175  | 185  | 195 | 200    | 215 | 255    | 295 | 330 | 420 | 530 | 560 | 670 |
| 40    | W       | 120  | 140  | 160 | 200    | 240 | 280    | 320 | 360 | 400 | 400 |     |     |
|       | H(Open) | 125  | 145  | 165 | 200    | 215 | 255    | 295 | 330 | 420 | 530 |     |     |

## ANSI Class150-600 Plug Valve



### Standards:

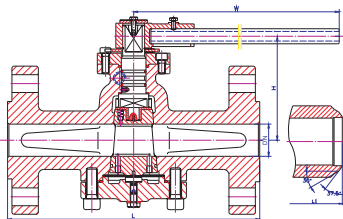
Design: API599 OR API6D  
 Face to Face: MANUFACTORY STANDARDS  
 Flange: ASME B16. 5  
 Butt-Welding: ASME B16. 25  
 Test and Inspect: API598 OR API6D

### Main Part Name and Material:

|             |                                          |
|-------------|------------------------------------------|
| Body/Bonnet | Carbon Steel/Alloy Steel/Stainless Steel |
| Disc Seal   | 13CR/STL/SS304/SS316                     |
| Seat Seal   | 13CR/STL/SS304/SS316                     |
| Stem        | F6a/F304/F316                            |

| CLASS | DN      | 15   | 20   | 25  | 32     | 40     | 50  | 65     | 80  | 100  | 125  | 150  | 200  | 250  | 300  | 350 | 400 |
|-------|---------|------|------|-----|--------|--------|-----|--------|-----|------|------|------|------|------|------|-----|-----|
|       | NPS     | 1/2" | 3/4" | 1"  | 1-1/4" | 1-1/2" | 2"  | 2-1/2" | 3"  | 4"   | 5"   | 6"   | 8"   | 10"  | 12"  | 14" | 16" |
| 150   | L       | 108  | 117  | 127 | 140    | 165    | 178 | 191    | 203 | 229  | 254  | 267  | 292  | 330  | 356  | 381 | 406 |
|       | L1      | 165  | 190  | 216 | 229    | 241    | 267 | 305    | 330 | 356  | -    | -    | -    | -    | -    | -   | -   |
|       | W       | 125  | 160  | 160 | 230    | 230    | 400 | 400    | 500 | 450* | 450* | 600* | 600* | 800* | 800* | -   | -   |
|       | H(Open) | 76   | 89   | 92  | 115    | 128    | 132 | 146    | 156 | 230  | 271  | 286  | 248  | 392  | 438  | -   | -   |
| 300   | L       | 140  | 152  | 165 | 178    | 190    | 216 | 241    | 283 | 305  | 381  | 403  | 419  | 457  | 502  | 762 | -   |
|       | L1      | 165  | 190  | 216 | 229    | 241    | 267 | 305    | 330 | 356  | -    | -    | -    | -    | -    | -   | -   |
|       | W       | 125  | 160  | 160 | 230    | 230    | 400 | 400    | 500 | 450* | 450* | 600* | 600* | 800* | 800* | -   | -   |
|       | H(Open) | 76   | 89   | 92  | 115    | 128    | 132 | 146    | 156 | 230  | 271  | 286  | 248  | 392  | 438  | -   | -   |
| 600   | L       | -    | -    | 216 | 229    | 241    | 292 | 330    | 356 | 432  | 508  | 559  | -    | -    | -    | -   | -   |
|       | L1      | 165  | 190  | 216 | 229    | 241    | 292 | 305    | 356 | 432  | -    | -    | -    | -    | -    | -   | -   |
|       | W       | 125  | 160  | 160 | 230    | 230    | 500 | 500    | 700 | 450* | 600* | 800* | -    | -    | -    | -   | -   |
|       | H(Open) | 76   | 89   | 92  | 115    | 128    | 150 | 170    | 210 | 295  | 314  | 347  | -    | -    | -    | -   | -   |

## API599 Lubricated Sealing Plug Valve Class150-600



### Standards:

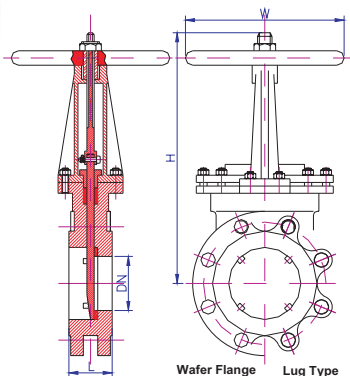
Design: API599 OR API6D  
 Face to Face: MANUFACTORY STANDARDS  
 Flange: ASME B16. 5  
 Butt-Welding: ASME B16. 25  
 Test and Inspect: API598 OR API6D

### Main Part Name and Material:

|             |                                          |
|-------------|------------------------------------------|
| Body/Bonnet | Carbon Steel/Alloy Steel/Stainless Steel |
| Disc Seal   | 13CR/STL/SS304/SS316                     |
| Seat Seal   | 13CR/STL/SS304/SS316                     |
| Stem        | F6a/F304/F316                            |

| CLASS | DN      | 15   | 20   | 25  | 32     | 40     | 50  | 65     | 80  | 100  | 125  | 150  | 200  | 250  | 300  | 350  |
|-------|---------|------|------|-----|--------|--------|-----|--------|-----|------|------|------|------|------|------|------|
|       | NPS     | 1/2" | 3/4" | 1"  | 1-1/4" | 1-1/2" | 2"  | 2-1/2" | 3"  | 4"   | 5"   | 6"   | 8"   | 10"  | 12"  | 14"  |
| 150   | L       | 108  | 117  | 127 | 140    | 165    | 178 | 191    | 203 | 229  | 254  | 267  | 292  | 330  | 356  | 381  |
|       | L1      | -    | -    | -   | -      | -      | 267 | 305    | 330 | 356  | -    | 457  | 521  | 559  | 635  | -    |
|       | W       | 400  | 400  | 500 | 500    | 600    | 600 | 820    | 820 | 300* | 300* | 320* | 320* | 350* | 380* | 380* |
|       | H(Open) | 180  | 180  | 185 | 200    | 210    | 215 | 250    | 270 | 300  | 340  | 365  | 400  | 450  | 510  | 590  |
| 300   | L       | -    | -    | -   | -      | 190    | 216 | -      | 283 | 305  | -    | 403  | 502  | 568  | 711  | -    |
|       | L1      | -    | -    | -   | -      | -      | -   | -      | -   | -    | -    | 457  | 521  | 559  | 635  | 762  |
|       | W       | -    | -    | -   | -      | 610    | 610 | -      | 860 | 940  | -    | 500* | 500* | 500* | 750* | 750* |
|       | H(Open) | -    | -    | -   | -      | 169    | 178 | -      | 219 | 235  | -    | 578  | 624  | 738  | 761  | 720  |
| 600   | L       | 165  | 190  | 216 | -      | 241    | 292 | -      | 356 | 432  | -    | 559  | 660  | 787  | 838  | -    |
|       | L1      | 165  | 190  | 216 | -      | 241    | 292 | -      | 356 | 432  | -    | 559  | 660  | 787  | 838  | -    |
|       | W       | 400  | 450  | 500 | -      | 600    | 600 | -      | 800 | 950  | -    | 560* | 560* | 650* | 650* | -    |
|       | H(Open) | 104  | 127  | 127 | -      | 176    | 196 | -      | 217 | 232  | -    | 568  | 704  | 745  | 775  | -    |

## ANSI Class150 Wafer/Lug Knife Gate Valve



### Standards:

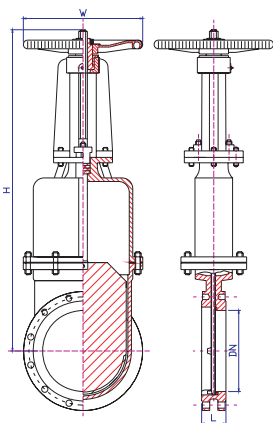
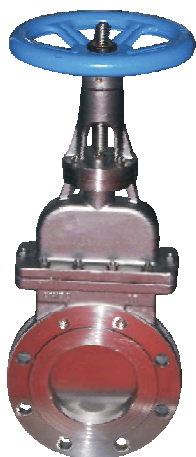
Design: MSS-SP81  
Face to Face: Manufactory STD  
Flange: ANSI B16.5  
Test and Inspect: MSS-SP81

### Main Part Name and Material:

|             |                                          |
|-------------|------------------------------------------|
| Body/Bonnet | Carbon Steel/Alloy Steel/Stainless Steel |
| Knife       | 13CR/STL/SS304/SS316                     |
| Seat Seal   | NBR/PTFE/13CR/PEEK/SS304/SS316           |
| Stem        | F6a/F304/F316                            |

|         |     |        |     |     |     |     |     |      |      |      |      |      |      |      |
|---------|-----|--------|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|
| DN      | 50  | 65     | 80  | 100 | 125 | 150 | 200 | 250  | 300  | 350  | 400  | 450  | 500  | 600  |
| NPS     | 2"  | 2-1/2" | 3"  | 4"  | 5"  | 6"  | 8"  | 10"  | 12"  | 14"  | 16"  | 18"  | 20"  | 24"  |
| L       | 55  | 55     | 55  | 55  | 60  | 60  | 70  | 80   | 80   | 90   | 100  | 120  | 120  | 130  |
| W       | 240 | 240    | 240 | 280 | 280 | 360 | 360 | 400  | 400  | 500  | 500  | 500  | 500  | 720  |
| H(Open) | 356 | 382    | 416 | 474 | 591 | 735 | 870 | 1021 | 1175 | 1332 | 1645 | 1785 | 1875 | 2166 |

## ANSI Class150 Bolted Bonnet Knife Gate Valve



### Standards:

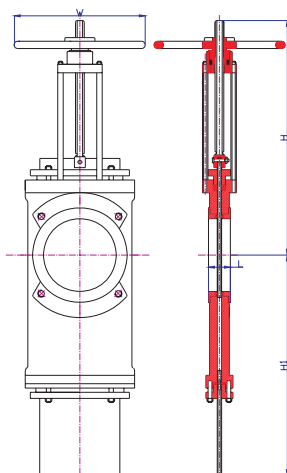
Design: MSS-SP81  
Face to Face: Manufactory STD  
Flange: ANSI B16.5  
Test and Inspect: MSS-SP81

### Main Part Name and Material:

|             |                                          |
|-------------|------------------------------------------|
| Body/Bonnet | Carbon Steel/Alloy Steel/Stainless Steel |
| Knife       | 13CR/STL/SS304/SS316                     |
| Seat Seal   | NBR/PTFE/13CR/PEEK/SS304/SS316           |
| Stem        | F6a/F304/F316                            |

|         |     |        |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |
|---------|-----|--------|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|
| DN      | 50  | 65     | 80  | 100 | 125 | 150 | 200 | 250  | 300  | 350  | 400  | 450  | 500  | 600  | 700  | 800  | 900  | 1000 | 1200 |
| NPS     | 2"  | 2-1/2" | 3"  | 4"  | 5"  | 6"  | 8"  | 10"  | 12"  | 14"  | 16"  | 18"  | 20"  | 24"  | 28"  | 32"  | 36"  | 40"  | 48"  |
| L       | 50  | 50     | 50  | 55  | 55  | 60  | 70  | 80   | 90   | 90   | 100  | 100  | 100  | 120  | 120  | 120  | 140  | 160  | 180  |
| W       | 200 | 200    | 200 | 240 | 240 | 280 | 320 | 350  | 400  | 450  | 500  | 600  | 600  | 700  | 700  | -    | -    | -    | -    |
| H(Open) | 400 | 450    | 500 | 520 | 620 | 700 | 830 | 1000 | 1200 | 1380 | 1550 | 1720 | 1900 | 2100 | 2300 | 2550 | 2750 | 3000 | -    |

## ANSI Class150 Throught Condition Knife Gate Valve



### Standards:

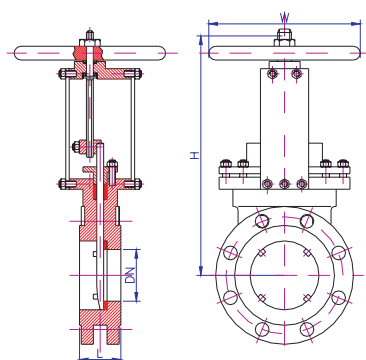
Design: MSS-SP81  
Face to Face: Manufactory STD  
Flange: ANSI B16.5  
Test and Inspect: MSS-SP81

### Main Part Name and Material:

|             |                                          |
|-------------|------------------------------------------|
| Body/Bonnet | Carbon Steel/Alloy Steel/Stainless Steel |
| Knife       | 13CR/STL/SS304/SS316                     |
| Seat Seal   | NBR/PTFE/13CR/PEEK/SS304/SS316           |
| Stem        | F6a/F304/F316                            |

|     |      |      |     |     |      |      |
|-----|------|------|-----|-----|------|------|
| DN  | 100  | 150  | 200 | 250 | 300  | 350  |
| NPS | 4"   | 6"   | 8"  | 10" | 12"  | 14"  |
| L   | 50.8 | 57.2 | 70  | 70  | 76.2 | 76.2 |
| W   | 280  | 360  | 360 | 400 | 400  | 500  |
| H   | 436  | 512  | 625 | 717 | 816  | 902  |
| H1  | 225  | 303  | 380 | 460 | 536  | 613  |

## ANSI Class150 Non-Rising Stem Knife Gate Valve



### Standards:

Design: MSS-SP81  
Face to Face: Manufactory STD  
Flange: ANSI B16.5  
Test and Inspect: MSS-SP81

### Main Part Name and Material:

|             |                                          |
|-------------|------------------------------------------|
| Body/Bonnet | Carbon Steel/Alloy Steel/Stainless Steel |
| Knife       | 13CR/STL/SS304/SS316                     |
| Seat Seal   | NBR/PTFE/13CR/PEEK/SS304/SS316           |
| Stem        | F6a/F304/F316                            |

|     |     |        |     |     |     |     |     |     |      |      |      |      |      |      |      |      |
|-----|-----|--------|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|
| DN  | 50  | 65     | 80  | 100 | 125 | 150 | 200 | 250 | 300  | 350  | 400  | 450  | 500  | 600  | 750  | 900  |
| NPS | 2"  | 2-1/2" | 3"  | 4"  | 5"  | 6"  | 8"  | 10" | 12"  | 14"  | 16"  | 18"  | 20"  | 24"  | 30"  | 36"  |
| L   | 48  | 48     | 51  | 51  | 57  | 57  | 70  | 70  | 76   | 76   | 89   | 89   | 114  | 114  | 117  | 117  |
| W   | 180 | 180    | 220 | 220 | 230 | 280 | 360 | 360 | 400  | 400  | 400  | 530  | 530  | 600  | 600  | 800  |
| H   | 398 | 415    | 445 | 497 | 575 | 625 | 775 | 940 | 1030 | 1186 | 1365 | 1620 | 1720 | 1860 | 2250 | 2800 |



**CIPHY VALVE**

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