

## Forged Steel Valve



Address: Binhai ETDZ, 5 Road, Longwan, Wenzhou, China. 325000  
Tel: +86 577 8663 2750  
Fax: +86 577 8663 2850

Mob./WhatsApp: +86 173 5771 5577  
[www.flowvalvefitting.com](http://www.flowvalvefitting.com)  
[Info@flowvalvefitting.com](mailto:Info@flowvalvefitting.com)



WhatsApp Code

FVF BRAND, RELIABLE QUALITY FOR YOU  
CE&ISO 9001:2015 CERTIFIED ACQUIRED  
15 YEARS FLUID SOLUTION EXPERIENCES  
EXPORTING TO OVER 40 COUNTRIES  
EXCELLENT VALUE-ADDED SERVICE.



We focus on Details  
We Make Different  
FVF Brand, that can be trust.

FVF Brand Found in year 2010, we specialize in Manufacturing Various Lined Valves, Multi-Port Ball Valve, Control Valves and Pipe Fittings.

The products are mainly widely used in modern anti-corrosion engineering fields such as Lithium Battery, petroleum, chemical industry, pharmacy, printing and dyeing, electrical engineering, ship building, metallurgy, military industry, semiconductor chemistry, electronic phosphoric acid, etc.

Through the years, "Perfection" has been the only goal we pursue. In order to satisfy customers, with continuous efforts, we are working towards perfection through a Quality Assurance System. With over ten years Exporting Experiences, we have the confident to give you best support from pre-sales to after-sales Service.

#### FVF Product Line:

Lined Valves (Lined Butterfly Valve, Lined Ball Valve, Lined Diaphragm Valve etc.)

Ceramaic Valves (Ceramaic Ball Valve, Ceramaic Gate Valve, Ceramaic Butterfly Valve etc.)

Pneumatic Valves (Pneumatic Butterfly Valve, Ball Valve etc.)

Electric Valves (Electric Butterfly Valve, Ball Valve etc.)

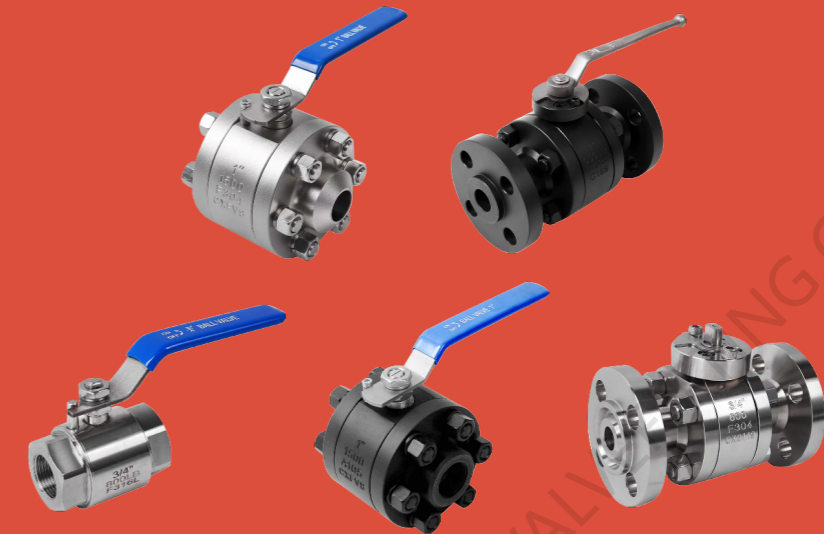
Multi-Port Ball Valve (3-Way Ball Valve, 4-Way Ball Valve, 5-Way Ball Valve)

Manual Valve (Check Valve, Gate Valve, Globe Valve etc.)

Pipe Fittings (150LBS Thread Pipe Fittings, Butt-Weld Fittings, 3000PSI Pipe Fittings)

Stainless Steel Flanges

**FVF**<sup>®</sup>  
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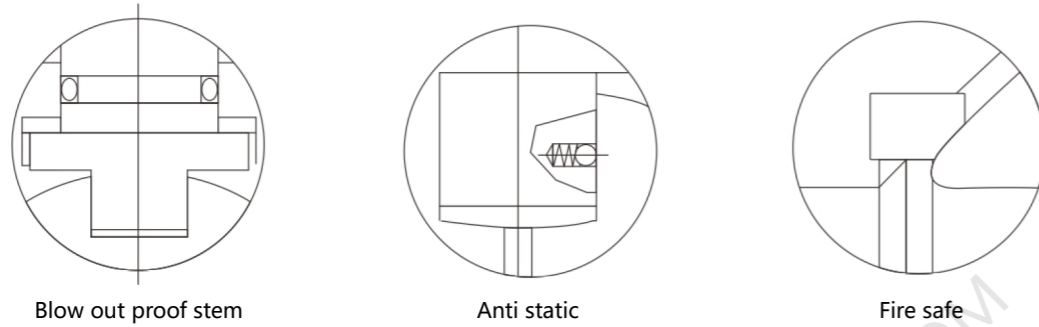
## Forged Steel Ball Valve

Our Core Values: Team, Details, Altruism, Innovation and Embrace Change.



## Forged Steel Ball Valve

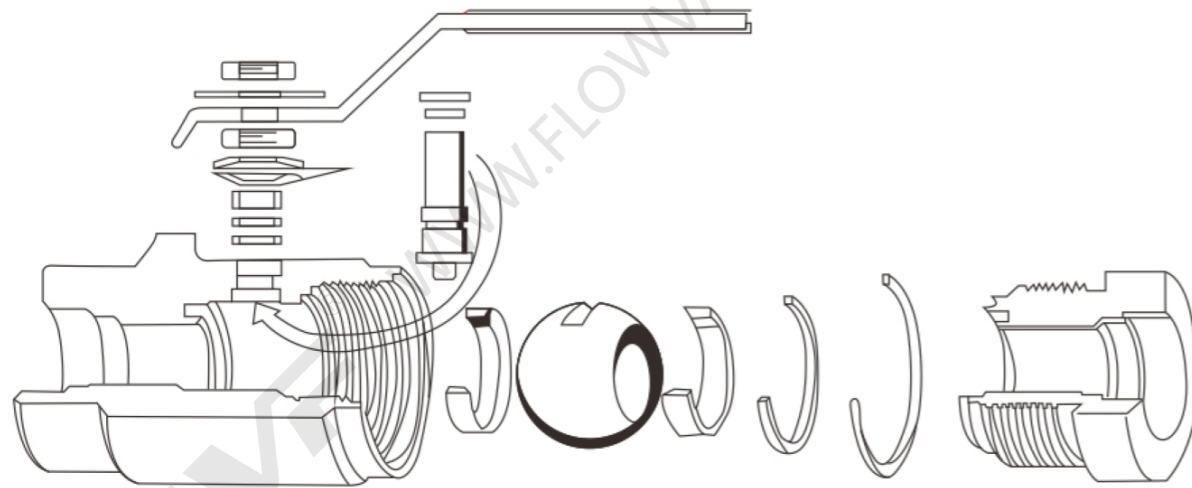
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FVF forged steel ball valves are featured with reasonable structure, small space-occupation and good sealing performance.

### Design structure

Seat is made of PTFE reinforced with 25% glass fibre or PEEK. PTFE with 25% glass fibre can gain better performances, normally used for class 800 ball valves. PEEK can gain better performances under high pressure and high temperature, normally used for class 1500 ball valves. Anti static/fire safe/blow out proof stem.

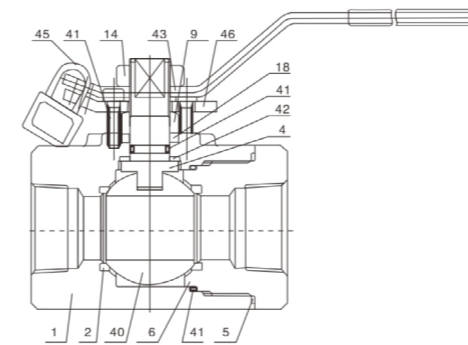


### Flow coefficient Cv

| NPS   | Cv Value  |              |
|-------|-----------|--------------|
|       | Full port | Reduced port |
| 1/4   | 8         |              |
| 3/8   | 8         |              |
| 1/2   | 12        | 8            |
| 3/4   | 33        | 12           |
| 1     | 48        | 33           |
| 1 1/4 | 83        | 48           |
| 1 1/2 | 120       | 83           |
| 2     | 250       | 120          |

## 2-PC Forged Steel Ball Valve Thread/Weld End

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### Application standards

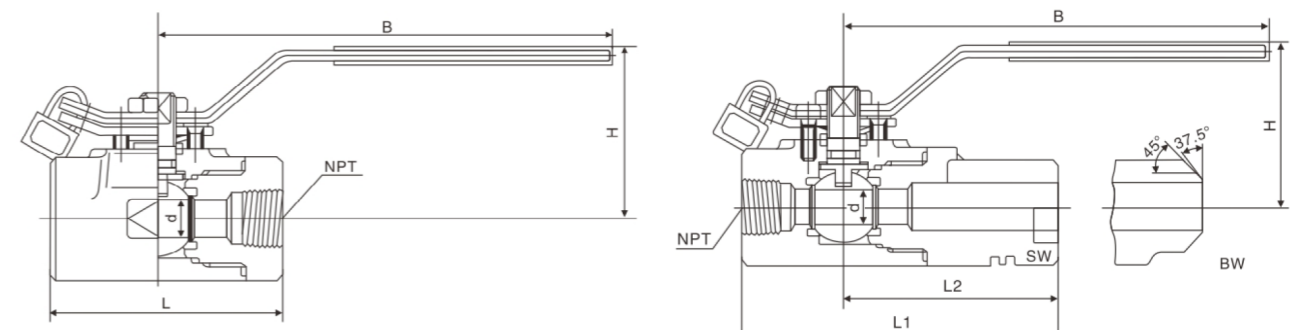
- 1.Design and manufacture conform to BS5351 MSS SP-118;
- 2.Connection ends conform to:
  - 1)Socket welded ends conform to ANSI B16.11; JB/T1751
  - 2)Screw ends conform to ANSI B 1.20.1; JB/T7306
  - 3)Butt-welded ends conform to ANSI B16.25;JB/T12224
  - 4)Flanged ends conform to ANSI B16.5;JB79
- 3.Test and inspection conform to: API 598;GB/T13927;JB/T9092
- 4.Structure features: Bolted bonnet; two-piece;
- 5.Materials conform to ANSI/ASTM
- 6.Main materials:A105;LF2;304(L);316(L); F347;F321;F51 : Monel; 20Alloy;etc

### Carbon steel temperature-pressure rate

CL150-285 P.S.I @100 °F CL300-740 P.S.I @100 °F CL600-1480 P.S.I @100 °F  
CL800-1975 P.S.I @100 °F CL1500-3705 PS.I @100 °F

### Main part materials list

| NO. | Part name        | A105/F6a      | LF2/304       | F304(L)/304(L) | F316(L)/316(L) | F51/F51       |
|-----|------------------|---------------|---------------|----------------|----------------|---------------|
| 1   | Body             | A105          | LF2           | F304(L)        | F316(L)        | F51           |
| 2   | Seat             | RPTFE or PEEK | RPTFE or PEEK | RPTFE or PEEK  | RPTFE or PEEK  | RPTFE or PEEK |
| 4   | Stem             | 410           | 304           | 304(L)         | 316(L)         | F51           |
| 5   | Gasket           | PTFE          | PTFE          | PTFE           | PTFE           | PTFE          |
| 6   | Bonnet           | A105          | LF2           | F304           | F316           | F51           |
| 9   | Gland            | 410           | 304           | 304L           | 316(L)         | F51           |
| 11  | Gland flange     | A105          | LF2           | F304           | F316           | F51           |
| 14  | Flat nut         | 8             | 8             | 8              | 8M             | 8M            |
| 18  | Packing          | PTFE          | PTFE          | PTFE           | PTFE           | PTFE          |
| 40  | Ball             | F6            | F304          | F304(L)        | F316(L)        | F51           |
| 41  | O-ring           | VITON         | VITON         | VITON          | VITON          | VITON         |
| 42  | Back seat gasket | RPTFE or PEEK | RPTFE or PEEK | RPTFE or PEEK  | RPTFE or PEEK  | RPTFE or PEEK |
| 43  | Wrench           | ANSI 1025     | ANSI 1025     | ANSI 1025      | ANSI 1025      | ANSI 1025     |
| 44  | Screw            | B8            | B8            | B8             | B8M            | B8M           |
| 45  | Lock             | 304           | 304           | 304            | 304            | 304           |
| 46  | Washer           | ANSI 1025     | ANSI 1025     | ANSI 1025      | ANSI 1025      | ANSI 1025     |



## 2-PC Forged Steel Ball Valve Thread/Weld End

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### CL800

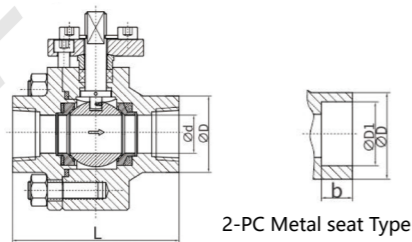
One end can be welded connection(butt-welded or socket welded)and the other is thread,design conform to BS5351

| Specification(NPS)              | (R.P) | —   | 1/2 | 3/4  | 1   | 1¼  | 1½  | 2   | -   | -  |
|---------------------------------|-------|-----|-----|------|-----|-----|-----|-----|-----|----|
|                                 | (F.P) | 1/4 | 3/8 | 1/2  | 3/4 | 1   | 1¼  | 1½  | 2   | 2½ |
| Face to face(mm)                | L1    | 70  | 70  | 80   | 95  | 115 | 125 | 135 | 155 | -  |
| Coupling pipe end to center(mm) | L2    | 121 | 121 | 121  | 130 | 136 | 140 | 148 | 160 | -  |
| Center to handle end(mm)        | B     | 160 | 160 | 160  | 160 | 170 | 230 | 230 | 280 | -  |
| Height(mm)                      | H     | 60  | 60  | 60   | 65  | 85  | 105 | 105 | 125 | -  |
| Port(angle dimension)(mm)       | d     | 6   | 9   | 12.5 | 17  | 24  | 37  | 37  | 49  | -  |
| Weight(kg)                      |       | 1.2 | 0.9 | 1.3  | 2.2 | 3.5 | 6.5 | 6.5 | 11  | -  |

### CL1500-CL2500

One end can be welded connection(butt-welded or socket welded)and the other is thread,design conform to API6D

| Specification(NPS)              | (F.P) | Size(mm) |     |     |     |     |     |     |      |     |
|---------------------------------|-------|----------|-----|-----|-----|-----|-----|-----|------|-----|
|                                 |       | 1/4      | 3/8 | 1/2 | 3/4 | 1   | 1¼  | 1½  | 2    |     |
| Face to face(mm)                | L1    | CL1500   | 80  | 80  | 95  | 115 | 125 | 135 | 155  | 155 |
|                                 |       | CL2500   | -   | -   | 125 | 135 | 155 | -   | 155  | -   |
| Coupling pipe end to center(mm) | L2    | CL1500   | 121 | 121 | 130 | 136 | 140 | 148 | 160  | 175 |
|                                 |       | CL2500   | -   | -   | 136 | 140 | 148 | -   | 175  | -   |
| Center to handle end(mm)        | B     | CL1500   | 160 | 160 | 160 | 170 | 230 | 230 | 280  | 280 |
|                                 |       | CL2500   | -   | -   | 230 | 230 | 280 | -   | 280  | 130 |
| Height(mm)                      | H     | CL1500   | 60  | 60  | 65  | 85  | 105 | 105 | 125  | -   |
|                                 |       | CL2500   | -   | -   | 90  | 110 | 125 | -   | -    | -   |
| Height(angle dimension)(mm)     | d     | CL1500   | 6   | 9   | 13  | 19  | 25  | 32  | 38   | -   |
|                                 |       | CL2500   | 6   | 9   | 13  | 19  | 25  | -   | 38   | -   |
| Weight(kg)                      |       | CL1500   | 1.2 | 1.5 | 2.5 | 3.7 | 5.8 | -   | 11.5 | -   |
|                                 |       | CL2500   | 1.5 | 1.9 | 2.7 | 4.1 | 6.3 | -   | 12   | -   |



2-PC Metal seat Type

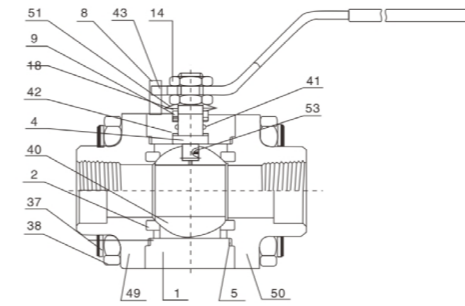
### CL900-CL1500

One end can be welded connection(butt-welded or socket welded)and the other can be thread, design conform to BS5351.

| Nominal pressure      | DN Nominal size | Size(mm)       |                |     |    |    |     |     |     |      |    |
|-----------------------|-----------------|----------------|----------------|-----|----|----|-----|-----|-----|------|----|
|                       |                 | L              |                | d   | D  | H  | W   | NPT | D1  | b    |    |
|                       |                 | Intenal thread | Socket welding |     |    |    |     |     |     |      |    |
| Class900<br>Class1500 | 15              | 1/2            | 100            | 110 | 14 | 35 | 90  | 180 | 1/2 | 21.9 | 12 |
|                       | 20              | 3/4            | 100            | 120 | 19 | 42 | 95  | 200 | 3/4 | 27.3 | 13 |
|                       | 25              | 1              | 120            | 130 | 23 | 50 | 106 | 220 | 1   | 34   | 13 |
|                       | 32              | 1¼             | 140            | 160 | 32 | 58 | 116 | 250 | 1¼  | 42.8 | 13 |
|                       | 40              | 1½             | 150            | 180 | 38 | 72 | 150 | 300 | 1½  | 48.9 | 13 |
|                       | 50              | 2              | 190            | 200 | 51 | 86 | 150 | 350 | 2   | 61.4 | 16 |

## 3-PC Forged Steel Ball Valves Thread/Weld End

FVF TECHNOLOGY CO., LIMITED



### Application standards

- 1.Designand manufacture conform to BS5351, MSS SP-118;
- 2.Connection ends conform to:
  - 1)Scket welded ends conform to ANSI B16.11; JB/T1751
  - 2)Screwends conform to ANSI B 1.20.1; JB/T7306
  - 3)Butt-welded ends conform to ANSIB16.25; JB/T12224
  - 4)Flanged ends conform to ANSI B16.5; JB79
- 3.Test and inspection conform to : API 598;GB/T13927;JB/T9092
- 4.Structure features: Bolted bonnet; three-piece;
- 5.Materials conform to ANSI/ASTM;
- 6.Main materials:A105; LF2; F5; F11; F22; 304(L); 316(L);F347; F321; F51;Monel; 20 Alloy; etc.

### Carbon steel temperature-pressure rate

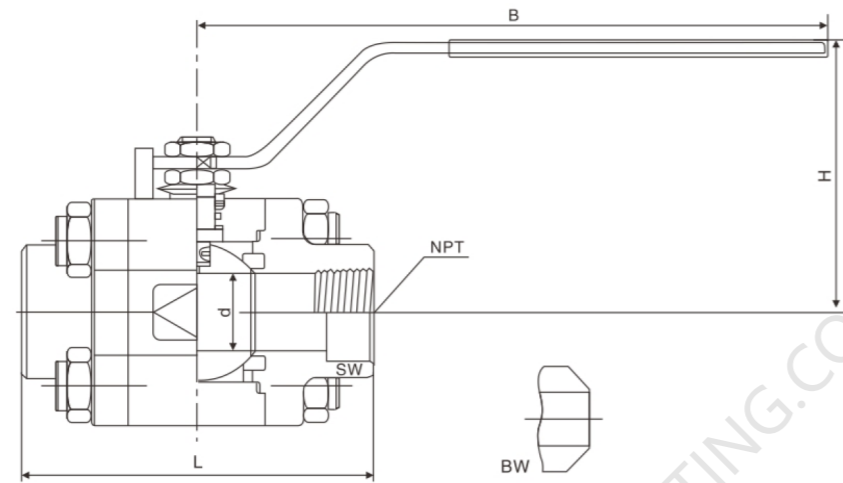
CL150-285 P.S.I @100 °F、CL300-740 P.S.I @100 °F、CL600-1480 P.S.I @100 °F、CL800-1975 P.S.I @100 °F、CL1500-3705 P.S.I @100 °F

### Main part materials list

| NO. | Part name          | A105/F6a      | LF2/304       | F304(L)/304(L) | F316(L)/316(L) | F51/F51       |
|-----|--------------------|---------------|---------------|----------------|----------------|---------------|
| 1   | Body               | A105          | LF2           | F304(L)        | F316(L)        | F51           |
| 2   | Seat               | RPTFE or PEEK | RPTFE or PEEK | RPTFE or PEEK  | RPTFE or PEEK  | RPTFE or PEEK |
| 4   | Stem               | 410           | 304           | 304(L)         | 316(L)         | F51           |
| 5   | Gasket             | PTFE          | PTFE          | PTFE           | PTFE           | PTFE          |
| 8   | Pin                | 25            | 304           | 304            | 304            | 304           |
| 9   | Gland              | 410           | 304           | 304(L)         | 316(L)         | F51           |
| 14  | Flat nut           | 8             | 8             | 8              | 8M             | 8M            |
| 18  | Packing            | PTFE          | PTFE          | PTFE           | PTFE           | PTFE          |
| 37  | Bolt               | B7            | B8            | B8             | B8M            | B8M           |
| 38  | Nut                | 2H            | 8             | 8              | 8M             | 8M            |
| 40  | Ball               | F6            | F304          | F304(L)        | F316(L)        | F51           |
| 41  | O-ring             | VITON         | VITON         | VITON          | VITON          | VITON         |
| 42  | Back seat gasket   | RPTFE or PEEK | RPTFE or PEEK | RPTFE or PEEK  | RPTFE or PEEK  | RPTFE or PEEK |
| 43  | Wrench             | ANSI 1025     | ANSI 1025     | ANSI 1025      | ANSI 1025      | ANSI 1025     |
| 49  | Left bonnet        | A105          | LF2           | F304           | F316           | F51           |
| 50  | Right bonnet       | A105          | LF2           | F304           | F316           | F51           |
| 51  | Butterfly spring   | 65Mn          | 65Mn          | 304            | 304            | 304           |
| 52  | Elastic washer     | 65Mn          | 65Mn          | 304            | 304            | 304           |
| 53  | Anti-static spring | 304           | 304           | 304            | 316(L)         | 316(L)        |

## 3-PC Forged Steel Ball Valves Thread/Weld End

FVF TECHNOLOGY CO., LIMITED



**CL800-CL1500** One end can be welded connection(butt-welded or socket welded)and the other is thread,design conform to BS5351

| Specification(NPS)        | (F.P) | 1/4    | 3/8 | 1/2 | 3/4 | 1   | 1¼  | 1½   | 2    |
|---------------------------|-------|--------|-----|-----|-----|-----|-----|------|------|
| Face to face(mm)          | L1    | 92     | 92  | 92  | 111 | 127 | 140 | 152  | 152  |
| Center to handle end(mm)  | B     | 108    | 108 | 108 | 146 | 178 | 178 | 200  | 200  |
| Height(mm)                | H     | 51     | 51  | 51  | 108 | 81  | 85  | 105  | 105  |
| Port(angle dimension)(mm) | d     | CL800  | 6   | 9   | 13  | 18  | 23  | 28   | 35   |
|                           |       | CL1500 | 6   | 9   | 13  | 19  | 25  | 32   | 38   |
| Weight(kg)                |       | 2.5    | 2.4 | 2.3 | 3.4 | 5.4 | 6.4 | 11   | 13   |
|                           |       | 2.5    | 2.4 | 2.5 | 3.7 | 5.8 | 6.8 | 11.5 | 13.7 |

**CL2500** One end can be welded connection(butt-welded or socket welded)and the other is thread,design conform to API6D

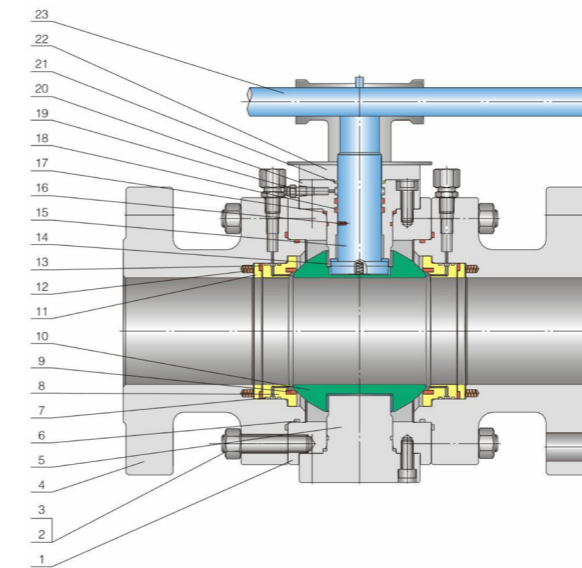
| Specification(NPS)        | (F.P) | 1/4 | 3/8 | 1/2 | 3/4 | 1   | 1¼ | 1½  | 2 |
|---------------------------|-------|-----|-----|-----|-----|-----|----|-----|---|
| Face to face(mm)          | L     | -   | -   | 110 | 125 | 135 | -  | 160 | - |
| Center to handle end(mm)  | B     | -   | -   | 170 | 230 | 230 | -  | 310 | - |
| Height(mm)                | H     | -   | -   | 95  | 110 | 125 | -  | -   | - |
| Port(angle dimension)(mm) |       | -   | -   | 13  | 19  | 25  | -  | 38  | - |
| Weight(kg)                |       | -   | -   | 2.7 | 4.1 | 6.3 | -  | 12  | - |

## Forged Steel Floating Ball Valve Flange End

FVF TECHNOLOGY CO., LIMITED



### Forged Steel Floating Ball Valve Flange End



### Technical Specifications

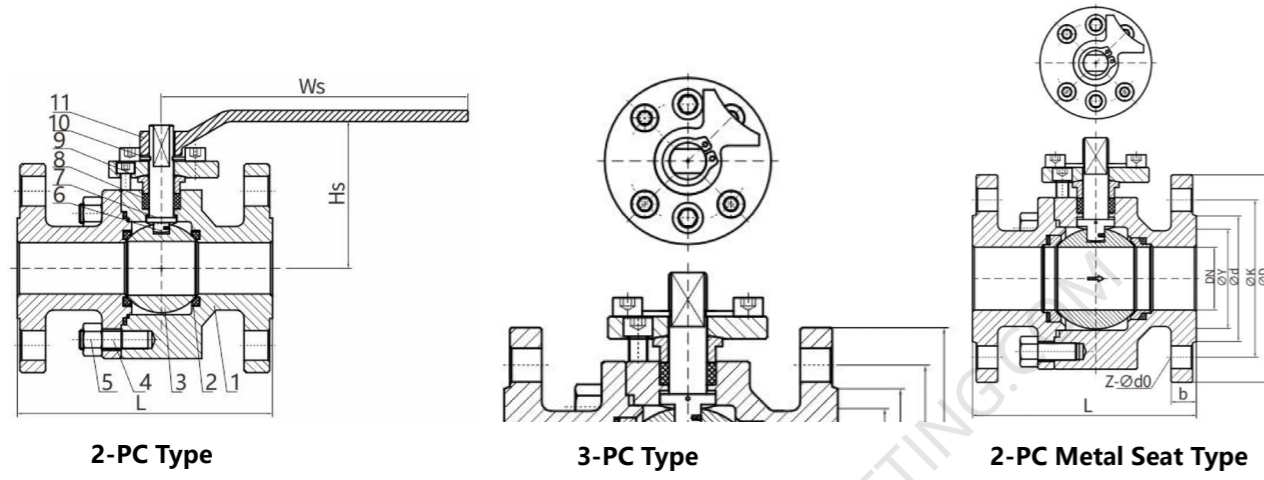
- 1.Design and Manufacture: API 6D, ASME B16.34(BS5351), API 608, MSS-SP-72
- 2.Face to Face: API 6D, ASME B16.10
- 3.Flange Connection : ASME B16.5
- 4.Test and Inspection:API 6D, API 598
- 5.Fire-safe Design:API 607/6Fa
- 6.Anti-static Design & Anti Blow-out Stem

### Material List of Main Parts

| No. | Part Name    | Material  |
|-----|--------------|---|
| 1   | Body         | A105, A350-LF2, A182-F304, F304L, F316, F316L, F51, F53 |
| 2   | Stud         | ASTM A193 B7, B7M, B8                                   |
| 3   | Nut          | ASTM A194 2H, 2HM, 8                                    |
| 4   | Adapter      | A105, A350-LF2, A182-F304, F316, F304L, F316L, F51, F53 |
| 5   | Trunnion     | 1045+ENP, ASTM A182 F6, F304, F316, F51, F53            |
| 6   | O-ring       | Viton, NBR  |
| 7   | O-ring       | Viton, NBR  |
| 8   | Seat ring    | A105+ENP, A351 LF2, F6, F304, F316, F51, F53            |
| 9   | Seat         | PTFE, RPTFE, PPL, PEEK, NYLON                           |
| 10  | Ball         | A105+ENP, A351 LF2, F6, F304, F316, F51, F53            |
| 11  | Ring         | A105, A351 LF2, F6, F304, F316, F51, F53                |
| 12  | Spring       | SS304, 17-4PH, Incone                                   |
| 13  | Sealing Ring | SS304+Graphite  |
| 14  | Bearing      | 1045+RPTFE, SS304+RPTFE, SS316+RPTFE                    |
| 15  | Stem         | 1045+ENP, ASTM A182 F6, F304, F316, F51, F53            |
| 16  | Spring       | SS304, 17-4PH, Incone                                   |
| 17  | Gasket       | Flexible Graphite, PTFE                                 |
| 18  | O-ring       | Viton, NBR  |
| 19  | Oil Cup      | 1025, SS304   |
| 20  | Stuffing Box | A105, A350-LF2, A182-F304, F316, F304L, F316L, F51, F53 |
| 21  | Packing      | Flexible Graphite, PTFE                                 |
| 22  | Gland        | ASTM A105, ASTM A216 WCB, ASTM A351 CF8                 |
| 23  | Wrench       | ASTM A216 WCB   |

# Forged Steel Floating Ball Valve Flange End

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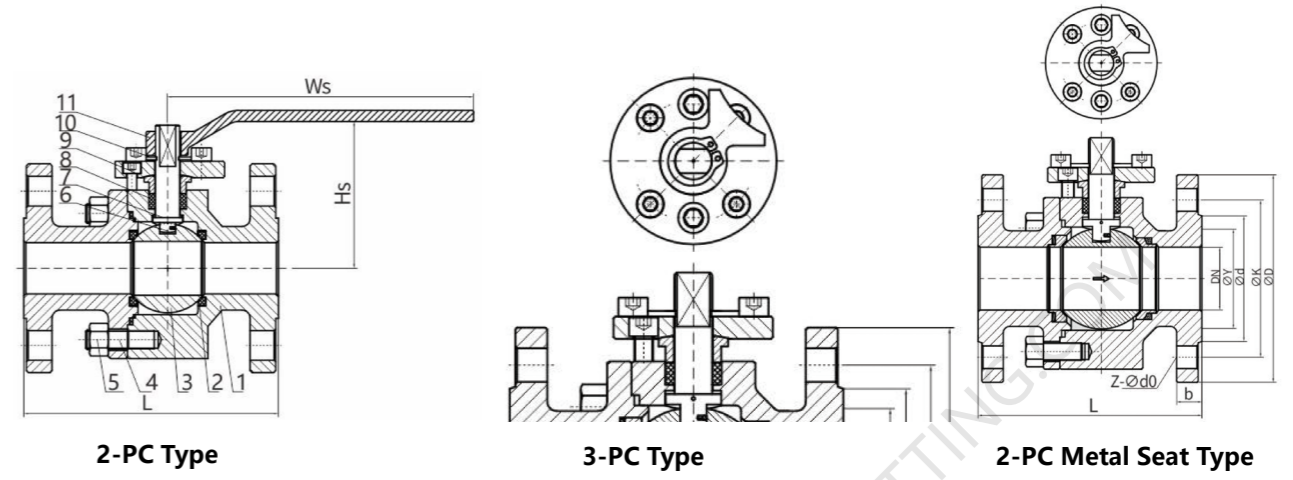


## Dimensions

| Class     | DN     | Size(mm) |       |       |     |      |       |         |      |     |     |     |
|-----------|--------|----------|-------|-------|-----|------|-------|---------|------|-----|-----|-----|
|           |        | L        | D     | K     | d   | Y    | b     | Z-do    | Ws   | Hs  | Hw  | Hd  |
| Class 150 | 1 1/2" | 165      | 125   | 98.4  | 73  | -    | 12.7  | 4-16    | 230  | 135 | -   | -   |
|           | 2"     | 178      | 150   | 120.7 | 92  | -    | 14.3  | 4-19    | 260  | 150 | -   | -   |
|           | 2 1/2" | 190      | 180   | 139.7 | 105 | -    | 15.9  | 4-19    | 350  | 180 | -   | -   |
|           | 3"     | 203      | 190   | 152.4 | 127 | -    | 17.5  | 4-19    | 500  | 195 | -   | -   |
|           | 4"     | 229      | 230   | 190.5 | 157 | -    | 22.3  | 8-19    | 650  | 245 | 310 | 420 |
|           | 5"     | 356      | 255   | 215.9 | 186 | -    | 22.3  | 8-22.5  | 800  | 270 | 330 | 440 |
|           | 6"     | 394      | 280   | 241.3 | 216 | -    | 23.9  | 8-22.5  | 1000 | 295 | 390 | 470 |
|           | 8"     | 457      | 345   | 298.5 | 270 | -    | 27.0  | 8-22.5  | -    | -   | 440 | 510 |
|           | 10"    | 533      | 405   | 362   | 324 | -    | 28.6  | 12-25.5 | -    | -   | 490 | 560 |
|           | 12"    | 610      | 485   | 431.8 | 381 | -    | 30.2  | 12-25.5 | -    | -   | 530 | 600 |
|           | 14"    | 686      | 535   | 476.3 | 413 | -    | 33.4  | 12-28.5 | -    | -   | 620 | 670 |
|           | 16"    | 762      | 595   | 539.8 | 470 | -    | 35.0  | 16-28.5 | -    | -   | 675 | 720 |
| 18"       | 864    | 635      | 577.9 | 533   | -   | 38.1 | 16-32 | -       | -    | 740 | 790 |     |
| 20"       | 914    | 700      | 635   | 584   | -   | 41.3 | 20-32 | -       | -    | 825 | 870 |     |
| 24"       | 1067   | 815      | 749.3 | 692   | -   | 46.3 | 20-35 | -       | -    | 920 | 960 |     |
| Class 300 | 1 1/2" | 190      | 155   | 114.3 | 73  | -    | 19.1  | 4-22.5  | 230  | 135 | -   | -   |
|           | 2"     | 216      | 165   | 127   | 92  | -    | 20.7  | 8-19    | 260  | 150 | -   | -   |
|           | 2 1/2" | 241      | 190   | 149.2 | 105 | -    | 23.9  | 8-22.5  | 350  | 180 | -   | -   |
|           | 3"     | 282      | 210   | 168.3 | 127 | -    | 27.0  | 8-22.5  | 500  | 195 | -   | -   |
|           | 4"     | 305      | 255   | 200   | 157 | -    | 30.2  | 8-22.5  | 800  | 250 | 320 | 430 |
|           | 5"     | 356      | 280   | 235   | 186 | -    | 33.4  | 8-22.5  | 1000 | 280 | 340 | 450 |
|           | 6"     | 403      | 320   | 269.9 | 216 | -    | 35.0  | 12-22.5 | 1200 | 300 | 405 | 480 |
|           | 8"     | 502      | 380   | 330.2 | 270 | -    | 39.7  | 12-25.5 | -    | -   | 450 | 530 |
|           | 10"    | 568      | 445   | 387.4 | 324 | -    | 46.1  | 16-28.5 | -    | -   | 505 | 590 |
|           | 12"    | 648      | 520   | 450.8 | 381 | -    | 49.3  | 16-32   | -    | -   | 545 | 620 |
|           | 14"    | 762      | 585   | 514.4 | 413 | -    | 52.4  | 20-32   | -    | -   | 640 | 690 |
|           | 16"    | 838      | 650   | 571.5 | 470 | -    | 55.6  | 20-35   | -    | -   | 690 | 740 |
| 18"       | 914    | 710      | 628.6 | 533   | -   | 58.8 | 24-35 | -       | -    | 760 | 810 |     |
| 20"       | 991    | 775      | 685.8 | 584   | -   | 62.0 | 24-35 | -       | -    | 850 | 900 |     |

# Forged Steel Floating Ball Valve Flange End

FVF TECHNOLOGY CO., LIMITED



## Dimensions

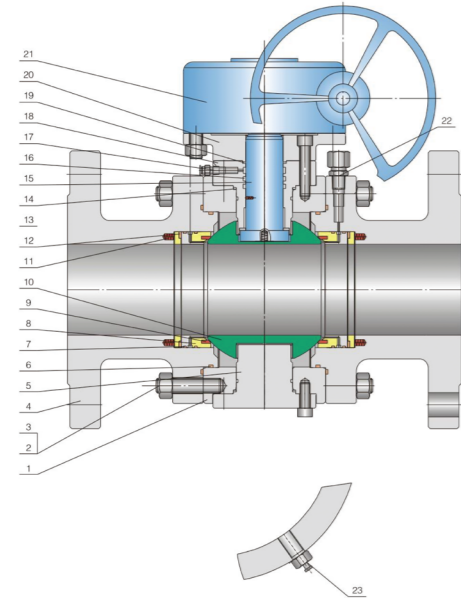
| Class      | DN(mm) | Size(mm) |       |       |         |         |         |         |      |     |     |      |
|------------|--------|----------|-------|-------|---------|---------|---------|---------|------|-----|-----|------|
|            |        | L        | D     | K     | d       | Y       | b       | Z-do    | Ws   | Hs  | Hw  | Hd   |
| Class 600  | 1 1/2" | 241      | 155   | 114.3 | 90      | 68.263  | 22.3    | 4-22.5  | 260  | 160 | -   | -    |
|            | 2"     | 292      | 165   | 127   | 108     | 82.550  | 25.4    | 8-19    | 350  | 180 | -   | -    |
|            | 2 1/2" | 330      | 190   | 149.2 | 127     | 101.600 | 28.6    | 8-22.5  | 500  | 200 | -   | -    |
|            | 3"     | 356      | 210   | 168.3 | 146     | 123.825 | 31.8    | 8-22.5  | 800  | 240 | 310 | 410  |
|            | 4"     | 432      | 275   | 215.9 | 175     | 149.225 | 38.1    | 8-25.5  | 1000 | 270 | 340 | 450  |
|            | 5"     | 508      | 330   | 266.7 | 210     | 180.975 | 44.5    | 8-28.5  | 1200 | 320 | 360 | 505  |
|            | 6"     | 559      | 355   | 292.1 | 241     | 211.138 | 47.7    | 12-28.5 | -    | -   | 425 | 555  |
|            | 8"     | 660      | 420   | 349.2 | 302     | 269.876 | 55.6    | 12-32   | -    | -   | 470 | 625  |
|            | 10"    | 787      | 510   | 431.8 | 356     | 323.851 | 63.5    | 16-35   | -    | -   | 525 | 645  |
|            | 12"    | 838      | 560   | 489.0 | 413     | 381.001 | 66.7    | 20-35   | -    | -   | 565 | 715  |
|            | 14"    | 889      | 605   | 527.0 | 457     | 419.101 | 69.9    | 20-38   | -    | -   | 670 | 770  |
|            | 16"    | 991      | 685   | 603.2 | 508     | 469.901 | 76.2    | 20-41   | -    | -   | 720 | 840  |
| 18"        | 1092   | 745      | 654.0 | 575   | 533.401 | 82.6    | 20-44.5 | -       | -    | 780 | 920 |      |
| 20"        | 1194   | 815      | 723.9 | 635   | 584.201 | 88.9    | 24-44.5 | -       | -    | 850 | 995 |      |
| Class 900  | 1 1/2" | 305      | 180   | 123.8 | 73      | -       | 31.8    | 4-28.5  | 350  | 160 | -   | -    |
|            | 2"     | 368      | 215   | 165.1 | 92      | -       | 38.1    | 8-25.5  | 500  | 180 | -   | -    |
|            | 2 1/2" | 419      | 245   | 190.5 | 105     | -       | 41.3    | 8-28.5  | 800  | 200 | -   | -    |
|            | 3"     | 381      | 240   | 190.5 | 156     | 123.82  | 38.1    | 8-25.5  | 1000 | 240 | 310 | 410  |
|            | 4"     | 457      | 290   | 235.0 | 181     | 149.22  | 44.5    | 8-32    | 1200 | 270 | 340 | 450  |
|            | 5"     | 559      | 350   | 279.4 | 216     | 180.98  | 50.8    | 8-35    | -    | -   | 360 | 505  |
|            | 6"     | 610      | 380   | 317.5 | 241     | 211.12  | 55.6    | 12-32   | -    | -   | 425 | 560  |
|            | 8"     | 737      | 470   | 393.7 | 308     | 269.88  | 63.5    | 12-38   | -    | -   | 530 | 630  |
|            | 10"    | 838      | 545   | 469.9 | 362     | 323.85  | 69.9    | 16-38   | -    | -   | 570 | 720  |
|            | 12"    | 965      | 610   | 533.4 | 419     | 381.00  | 79.4    | 20-38   | -    | -   | 680 | 780  |
|            | 14"    | 1029     | 640   | 558.8 | 467     | 419.10  | 85.8    | 20-41   | -    | -   | 800 | 905  |
|            | 16"    | 1130     | 705   | 616.0 | 524     | 469.90  | 88.9    | 20-44.5 | -    | -   | 910 | 1010 |
| Class 1500 | 1 1/2" | 305      | 180   | 123.8 | 92      | 68.28   | 31.8    | 4-28.5  | 500  | 180 | -   | -    |
|            | 2"     | 368      | 215   | 165.1 | 124     | 95.25   | 38.1    | 8-25.5  | 650  | 200 | -   | -    |
|            | 2 1/2" | 419      | 245   | 190.5 | 137     | 107.95  | 41.3    | 8-28.5  | 800  | 220 | -   | -    |
|            | 3"     | 470      | 265   | 203.2 | 168     | 136.52  | 47.7    | 8-32    | 1000 | 260 | 320 | 420  |
|            | 4"     | 546      | 310   | 241.3 | 194     | 161.92  | 54.0    | 8-35    | 1200 | 290 | 360 | 470  |
|            | 5"     | 673      | 375   | 292.1 | 229     | 193.68  | 73.1    | 8-41    | -    | -   | 380 | 530  |
|            | 6"     | 705      | 395   | 317.5 | 248     | 211.12  | 82.6    | 12-38   | -    | -   | 440 | 580  |
|            | 8"     | 832      | 485   | 393.7 | 318     | 269.88  | 92.1    | 12-45   | -    | -   | 550 | 650  |

# Forged Steel Trunnion Mounted Ball Valve Flange End

FVF TECHNOLOGY CO., LIMITED



## Forged Steel Trunnion Mounted Ball Valve Flange End



### Technical Specifications

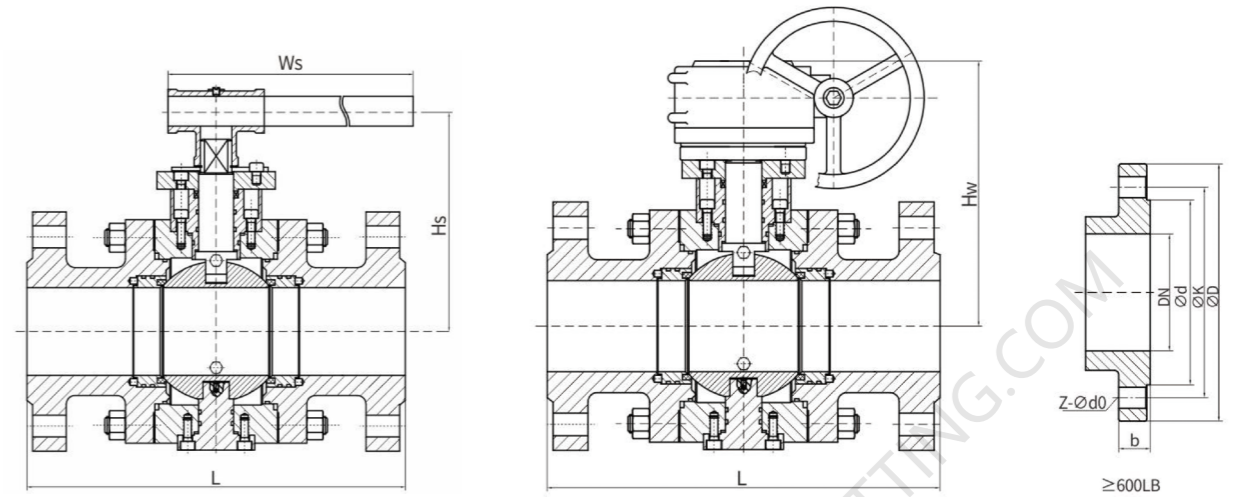
- 1.Design and Manufacture: API 6D, ASME B16.34(BS5351), API 608, MSS-SP-72
- 2.Face to Face: API 6D, ASME B16.10
- 3.Flange Connection: ASME B16.5, NPS ≥ 26" Per as ASME B16.47
- 4.Test and Inspection:API 6D, API 598
- 5.Fire-safe Design:API 607/6Fa
- 6.Anti-static Design & Anti Blow-out Stem

### Material List of Main Parts

| No. | Part Name            | Material  |
|-----|----------------------|---|
| 1   | Body                 | A105,A350-LF2,A182-F304, F304L, F316, F316L, F321, F51, F53                 |
| 2   | Nut                  | A194-2H, 2HM, 8, 8M   |
| 3   | Bolt                 | A193-B7, B7M, B8, B8M   |
| 4   | Adapter              | A105,A350-LF2,A182-F304, F304L, F316, F316L, F321, F51, F53                 |
| 5   | Trunnion             | 1045+ENP,A182-F6, F304, F304L, F316, F316L, F321, F51, F53,4140+ENP, 17-4PH |
| 6   | O-Ring               | NBR, VITON  |
| 7   | O-Ring               | VITON   |
| 8   | Seat Ring            | A105+ENP,A182-F6, F304, F304L, F316, F316L, F321, F51, F53                  |
| 9   | Seat                 | PTFE, RPTFE, NYLON, PEEK, PPL, POM, KARBATE, MOLON, DEVLON                  |
| 10  | Ball                 | A105+ENP,A350-LF2+ENP,A182-F6, F304, F304L, F316, F316L, F321, F51, F53     |
| 11  | Spring               | SS304,Inconel, 1566+ENP   |
| 12  | Sealing Ring         | Flexble Graphite  |
| 13  | Bearing              | 1045+RPTFE, SS304+RPTFE, SS316+RPTFE  |
| 14  | Sealing Ring         | SS304, SS316+Flexible Graphite Spiral Wound                                 |
| 15  | Stem                 | 1045+ENP,A182-F6, F304, F304L, F316, F316L, F321, F51, F53,4140+ENP, 17-4PH |
| 16  | O-Ring               | NBR, VITON  |
| 17  | Oil Cup              | 1025, SS304   |
| 18  | Stuffing Box         | A105+ENP,A182-F6, F304, F304L, F316, F316L, F321, F51, F53                  |
| 19  | Packing              | Flexible Graphite   |
| 20  | Connecting Plate     | 1025, A216-WCB, A351 CF8  |
| 21  | Gear                 |   |
| 22  | Grease fitting       | 1025, SS304, SS316, F51, F53  |
| 23  | Drain Valve and Plug | 1025,SS304, SS316, F51, F53, ALLOY-20                                       |

# Forged Steel Trunnion Mounted Ball Valve Flange End

FVF TECHNOLOGY CO., LIMITED



### Dimensions

| Class     | DN(mm) | Size(mm) |       |       |     |      |       |         |      |      |
|-----------|--------|----------|-------|-------|-----|------|-------|---------|------|------|
|           |        | L        | D     | K     | d   | Y    | b     | Z-do    | Ws   | Hw   |
| Class 150 | 2"     | 178      | 152   | 120.7 | 92  | -    | 14.3  | 4-19    | 260  | -    |
|           | 2 1/2" | 190      | 178   | 139.7 | 105 | -    | 15.9  | 4-19    | 350  | -    |
|           | 3"     | 203      | 190   | 152.4 | 127 | -    | 17.5  | 4-19    | 500  | -    |
|           | 4"     | 229      | 229   | 190.5 | 157 | -    | 22.3  | 8-19    | 650  | 390  |
|           | 5"     | 356      | 254   | 215.9 | 186 | -    | 22.3  | 8-22.5  | 800  | 410  |
|           | 6"     | 394      | 279   | 241.3 | 216 | -    | 23.9  | 8-22.5  | 1000 | 470  |
|           | 8"     | 457      | 343   | 298.5 | 270 | -    | 27.0  | 8-22.5  | -    | 520  |
|           | 10"    | 533      | 406   | 362   | 324 | -    | 28.6  | 12-25.5 | -    | 610  |
|           | 12"    | 610      | 483   | 431.8 | 381 | -    | 30.2  | 12-25.5 | -    | 650  |
|           | 14"    | 686      | 533   | 476.3 | 413 | -    | 33.4  | 12-28.5 | -    | 740  |
|           | 16"    | 762      | 597   | 539.8 | 470 | -    | 35.0  | 16-28.5 | -    | 795  |
|           | 18"    | 864      | 635   | 577.9 | 533 | -    | 38.1  | 16-32   | -    | 860  |
| 20"       | 914    | 699      | 635.0 | 584   | -   | 41.3 | 20-32 | -       | 945  |      |
| 24"       | 1067   | 813      | 749.3 | 692   | -   | 46.1 | 20-35 | -       | 1040 |      |
| 28"       | 1245   | 927      | 864   | 800   | -   | 71   | 28-35 | -       | 1150 |      |
| 32"       | 1372   | 1060     | 978   | 914   | -   | 81   | 28-41 | -       | 1280 |      |
| Class 300 | 2"     | 216      | 165   | 127   | 92  | -    | 20.7  | 8-19    | 260  | -    |
|           | 2 1/2" | 241      | 190   | 149.2 | 105 | -    | 23.9  | 8-22.5  | 350  | -    |
|           | 3"     | 282      | 210   | 168.3 | 127 | -    | 27.0  | 8-22.5  | 500  | -    |
|           | 4"     | 305      | 254   | 200   | 157 | -    | 30.2  | 8-22.5  | 800  | 410  |
|           | 5"     | 381      | 279   | 235   | 186 | -    | 33.4  | 8-22.5  | 1000 | 470  |
|           | 6"     | 403      | 318   | 269.9 | 216 | -    | 35.0  | 12-22.5 | 1200 | 485  |
|           | 8"     | 502      | 381   | 330.2 | 270 | -    | 39.7  | 12-25.5 | -    | 5809 |
|           | 10"    | 568      | 445   | 387.4 | 324 | -    | 46.1  | 16-28.5 | -    | 665  |
|           | 12"    | 648      | 521   | 450.8 | 381 | -    | 49.3  | 16-32   | -    | 760  |
|           | 14"    | 762      | 594   | 514.4 | 413 | -    | 52.4  | 20-32   | -    | 820  |
|           | 16"    | 838      | 648   | 571.5 | 470 | -    | 55.6  | 20-35   | -    | 860  |
|           | 18"    | 914      | 711   | 628.5 | 533 | -    | 58.8  | 24-35   | -    | 930  |
| 20"       | 991    | 775      | 685.8 | 584   | -   | 62.0 | 24-35 | -       | 980  |      |
| Class 600 | 2"     | 292      | 165   | 127   | 108 | -    | 25.4  | 8-19    | 350  | -    |
|           | 2 1/2" | 330      | 190   | 149.2 | 127 | -    | 28.6  | 8-22.5  | 500  | -    |
|           | 3"     | 356      | 210   | 168.3 | 146 | -    | 31.8  | 8-22.5  | 650  | -    |
|           | 4"     | 432      | 273   | 215.9 | 175 | -    | 38.1  | 8-25.5  | 1000 | 395  |
|           | 5"     | 508      | 330   | 266.7 | 210 | -    | 44.5  | 8-28.5  | 1200 | 430  |
|           | 6"     | 559      | 356   | 292.1 | 241 | -    | 47.7  | 12-28.5 | -    | 495  |
|           | 8"     | 660      | 419   | 349.2 | 302 | -    | 55.6  | 12-32   | -    | 595  |
|           | 10"    | 787      | 508   | 431.8 | 356 | -    | 63.5  | 16-35   | -    | 680  |
|           | 12"    | 838      | 559   | 489.0 | 413 | -    | 66.7  | 20-35   | -    | 790  |

