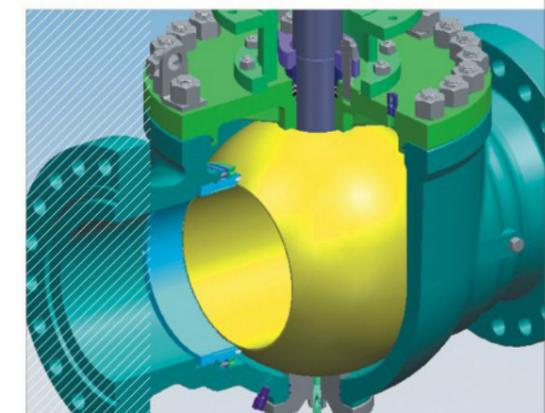




ONERO

BALL VALVES

We welcome all the world customers to contact us for more cooperation. With our years of technical knowledge and experience, we assure you, ONERO will be one of your best partners in China.



ZHEJIANG ONERO VALVE CO.,LTD.

Tel: +86-577-67367373
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Http://www.ouqiu.com
E-mail: ouqiu@ouqiu.com

Http://www.ouqiu.com



Company Introduction

Zhejiang ONERO Valve Co;Ltd is located on Oubei Town,Yongjia, which well-know as "the country of pump&valve in China", with 21years of development, now we have owned three producing bases, the industrial area occupied 50000 square meters, the employees over 300,including 16 technicians.and hundreds of production equipments ,such as big-sized lathes,numerical control process center ,grinding machine,and borers.

As an original engineering manufacturer, our products are designed and manufactured strictly in conformity with the standard of API, JIS, BS and DIN, etc. And we have obtained ISO 9001, API 6D, and CE certificates to ensure the quality stability of the products. The products range covers all kinds of ball valves, gate valves, globe valves, check valves, Y-strainers, with the materials of carbon steel, alloy steel, stainless steel, duplex steel,low temperature steel, etc.

We welcome all the world customers to contact us for more cooperation. with our years of technical knowledge and experience, We assure you, ONERO will be one of your best parters in China.



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Example:

| | | | | | | | |
|----|----|---|----|---|-------|----|-----|
| 16 | TC | 1 | RF | C | 22F22 | -G | -NC |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

i.e.

Size: 16" Cast steel Trunnion Mounted Ball Valve, Class150Lb, Flanged RF Ends, Body: A216 WCB, Ball& Stem:SS304, Seat ring: SS304, Seat: PTFE, O-ring: Viton, Gear Op.

1 VALVE SIZE

| Full Bore | | | | | | | | | | | | | |
|-----------|------|------|-----|--------|-----|--------|-----|-----|-----|-----|-----|-----|------|
| NPS | 1/2" | 3/4" | 1" | 1-1/2" | 2" | 2-1/2" | 3" | 4" | 5" | 6" | 8" | 10" | 12" |
| DN | 15 | 20 | 25 | 40 | 50 | 65 | 80 | 100 | 125 | 150 | 200 | 250 | 300 |
| Symbol | 1/2 | 3/4 | 1 | 1-1/2 | 2 | 2-1/2 | 3 | 4 | 5 | 6 | 8 | 10 | 12 |
| NPS | 14" | 16" | 18" | 20" | 22" | 24" | 26" | 28" | 30" | 34" | 36" | 40" | |
| DN | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 1000 |
| Symbol | 14 | 16 | 180 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 | 40 |

| Reduced Bore | | | | | | | | | |
|--------------|----------|---------|----------|----------|---------|---------|---------|---------|----------|
| NPS | 3/4x1/2" | 1x3/4" | 1-1/2x1" | 2x1-1/2" | 3x2" | 4x3" | 6x4" | 8x6" | 10x8" |
| DN | 20x15 | 25x20 | 40x25 | 50x40 | 80x50 | 100*80 | 150x100 | 200*150 | 250x200 |
| Symbol | 3/4x1/2 | 1x3/4 | 1-1/2x1 | 2x1-1/2 | 3x2 | 4x3 | 6x4 | 8x6 | 10x8 |
| NPS | 12x10" | 14x12" | 16x14" | 18x16" | 20x18" | 24x20" | 30x24" | 36x30" | 40x34" |
| DN | 300x250 | 350x300 | 400x350 | 450x400 | 500x450 | 600x500 | 750x600 | 900x750 | 1000x850 |
| Symbol | 12x10 | 14x12 | 16x14 | 18x16 | 20x18 | 24x20 | 30x24 | 36x30 | 40x34 |

2 VALVE TYPE

| Symbol | Type | Symbol | Type |
|--------|---|--------|--|
| FC | Cast Steel Floating Ball Valve | FT | Top Entry Cast Floating Ball Valve |
| TC | Cast Steel Trunnion Mounted Ball Valve | TT | Top Entry Trunnion Mounted Ball Valve |
| RF | 1PC Cast Steel Floating Ball Valve | CT | "T" Shaped Three way Ball Valve |
| FF | Forged Steel Floating Ball Valve | CL | "L" Shaped Three way Ball Valve |
| TF | Forged Steel Trunnion Mounted Ball Valve | CF | Four Way Ball Valve |
| FM | Metal To Metal Seat Floating Ball Valve | FS | Small Sizes Forged Steel Floating Ball Valve |
| TM | Metal To Metal Seat Trunnion Mounted Ball Valve | TW | Full Welded Ball Valve |

3 NOMINAL PRESSURE

| Class | 125 | 150 | 250 | 300 | 400 | 600 | 800 | 900 | 1500 | 2500 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| Symbol | 0 | 1 | 2 | 3 | 4 | 6 | 8 | 9 | 15 | 25 |

4 END CON.

| Symbol | Type | Symbol | Type |
|--------|---------------------|--------|----------------------------------|
| RF | Raised Face Flange | M | Convex side Flange |
| RJ | Ring Joint Flange | SW | Socket Welding End |
| FF | Flat Face Flange | N | Screwed End(NPT) |
| BW | Butt-welding | SW×N | Socket Welding End X Screwed End |
| FM | Concave side Flange | TH | Male Thread |

5 BODY/BONNET MATERIAL

| Material | Cast | WCB | LCB | CF8 | CF8M | CF3M | CF3 | CF8 | WCC | LCC | MONEL | B62 | HT200 |
|----------|--------|------|-----|------|------|-------|-------|------|-----|------|-------|-----|-------|
| Symbol | | C | B | P | R | H | I | J | D | E | M | T | Q |
| Material | Forged | A105 | LF2 | F304 | F316 | F316L | F304L | F347 | F51 | F321 | | | |
| Symbol | | A | C | F | G | S | U | O | K | N | | | |

6 TRIM MATERIAL

| Symbol | Ball | | Stem | | Seat | | Seat ring | | O-Ring seals | |
|--------|----------|--------|----------|--------|----------|--------|-----------|--------|--------------|--|
| | Material | Symbol | Material | Symbol | Material | Symbol | Material | Symbol | Material | |
| 1 | F51 | 1 | F51 | F | PTFE | 1 | F51 | 1 | NBR | |
| 2 | 304 | 2 | 304 | E | RTPFE | 2 | 304 | 2 | Viton | |
| 3 | F6 | 3 | F6 | P | PPL | 3 | F6 | 3 | | |
| 4 | 316 | 4 | 316 | N | Nylon | 4 | 316 | 4 | | |
| 5 | 304L | 5 | 304L | D | Delrin | 5 | 304L | | | |
| 6 | 316L | 6 | 316L | Y | STL | 6 | 316L | | | |
| 7 | 17-4PH | 7 | 17-4PH | K | PEEK | 7 | 17-4PH | | | |
| 8 | A105+ENP | 8 | A105+ENP | | | 8 | A105+ENP | | | |
| 9 | LF2+ENP | 9 | LF2+ENP | | | 9 | LF2+ENP | | | |

7 VALVE ACTUATOR

| Type | Lever | Gear | Pneumatic Actuator | Electric Actuator | Bare Stem |
|--------|-------|------|--------------------|-------------------|-----------|
| Symbol | L | G | P | E | B |

| Type | Hydro-Dynamically drive | Interlock of Pneumatic and Hydro-Dyanmically Driven |
|--------|-------------------------|---|
| Symbol | H | PH |

8 SPECIAL REQUIREMENT

| Description | Extend Stem | Locking Device | Degrease Processing | With Bypass |
|-------------|-------------|----------------|---------------------|-------------|
| Symbol | ES | LD | DP | BP |

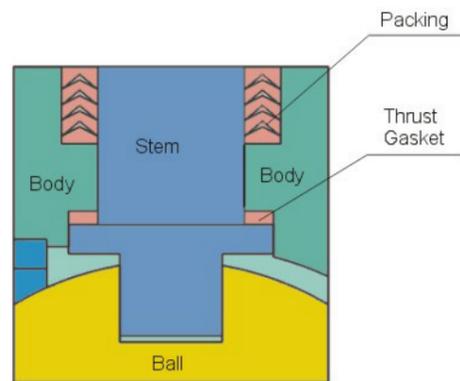
*Just omit if there is no requirement to this clause.

Fire Safe Seat Sealing



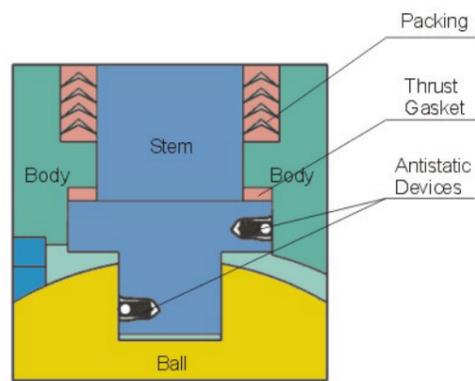
ONERO ball valves' fire safe is designed in accordance with API 607 & API SPEC 6FA, When non-metal resilient seats are destroyed in a fire, the upstream medium pressure push the ball into the downstream metal seat lip to cut off the line fluid and prevent the internal leakage due to a secondary metal-to-metal seals.

Blow-out Proof Stem



The stem is designed with integral T-type shoulder to provide blow-out proof effectively. It is internally inserted as the backseat function to assure stem sealing safety at all pressures.

Anti-Static Device



used the spring&stainless ball combined between the valve ball&stem and stem&body, it is ensure all valve matel parts are grounding.

The effective sealing for valve seat

a)The sealing for upstream seat.

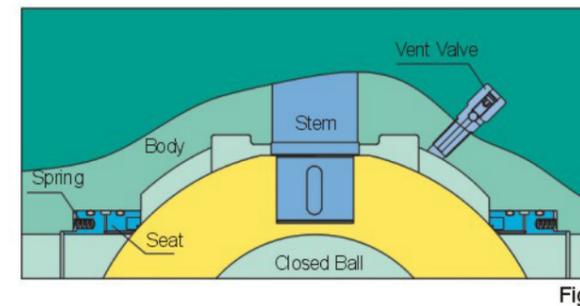
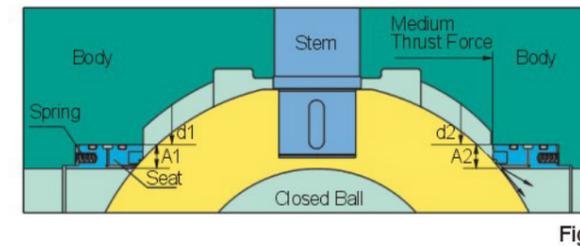
The seat ring can be moved slightly along the valve axis, the pressure of upstream line and the spring thrust force acted on the seat ring area(A1),it is caused the piston action when the pressure is over the area (d1),which pushed the seat ring tightly against the surface of ball, and resulting an effective seal for valve seat.

B)The sealing for downstream seat.

When the pressure in body cavity is lower than the downstream line and the thrust force, the net difference of pressure acted over the area(A2), it is caused the piston action when the pressure is over the area (d2),which pushed the seat ring tightly against the surface of ball, and resulting an effective seal for valve seat.(fig.1)

Self Relieving Seat

When the body cavity pressure exceeds the downstream seat spring preloaded force, the differential force in the area(d2) pushes the downstream seat away from the ball, the body cavity pressure will automatically relieved. And then the seat returns to the ball under spring action.(Fig.1)



Blow-out Proof Stem

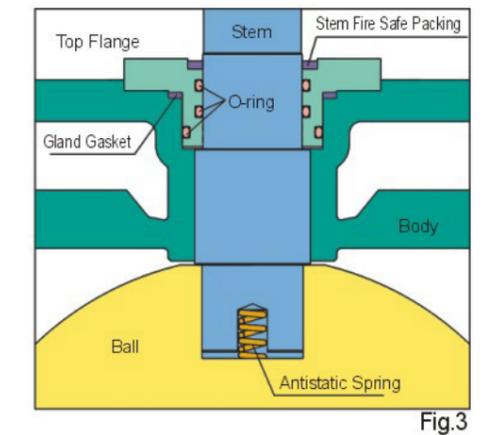
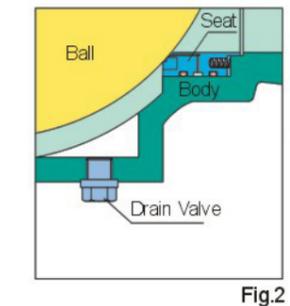
The stem with integral T-type shoulder, supported by gland, which can be guaranteed not to be blow-out by the medium even if at abnormal risen pressure from the cavity.(Fig.3)

Anti-Static Device

During turning of the stem to open or closing the valve, static electricity is easily caused by sparks generated by friction. Antistatic devices, assembled by a spring & a grounding plunger, which ssure the electrical continuance between ball & stem and stem & body, to prevent the possible risk of fire or explosion.(Fig.3)

Double Block and Bleed

When the ball is in the closed position, each seat of the ball valve can cut off the medium independtly on the upstream and downstream side to realize double-block functions. The body cavity are isolated from each side of the valve, the body cavity pressure could be released through the vent valve. (Fig.2)



Emergency Sealant Injection System

trunnion mounted ball valves, special sealants could be injected through a sealant injection fittings which are located on the bonnet and the gland to obtain emergency sealing. In case of seat or stem O-ring are damaged and leakage occur by fire or other accidental. Fittings also internally installed a secondary check to provide backup sealing.(Fig.4)

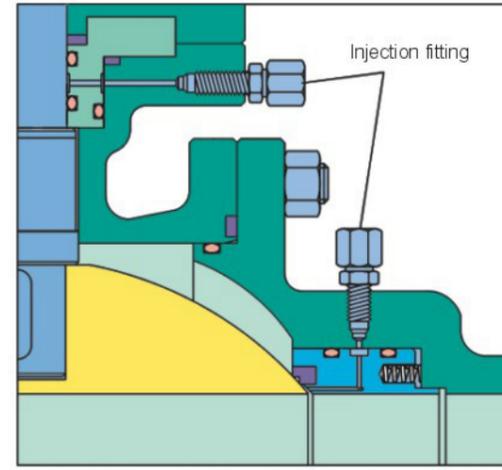


Fig.4

Firesafe Design

a) Internal leakage prevention

When seat insert, O-ring and spacer are damaged in a fire, the line pressure and the seat preloaded spring push the seat metal lip onto the ball surface to cut off the line fluid and prevent the internal leakage to reach the fire-safe purpose. Besides, the seat graphite packing can prevent fluid leakage between the valve body and the seat. (Fig.5)

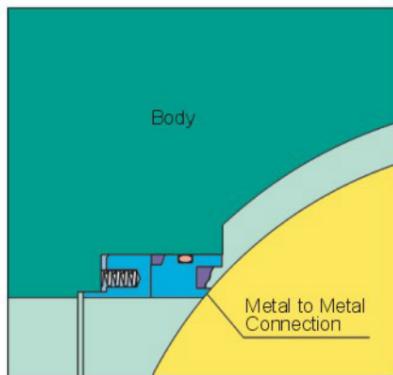
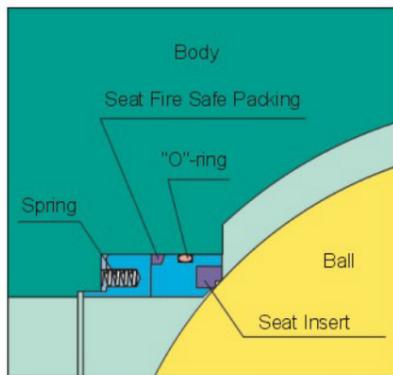


Fig.5

b) External leakage prevention

A combination of O-ring and graphite gasket on body & bonnet connection, body&gland connection, and stem&gland joint, can prevent the external leakage. When O-rings are damaged after a fire, body gasket, gland gasket, and stem packing, it is still on the performance of sealing and prevents external fluid leakage.(Fig.6)

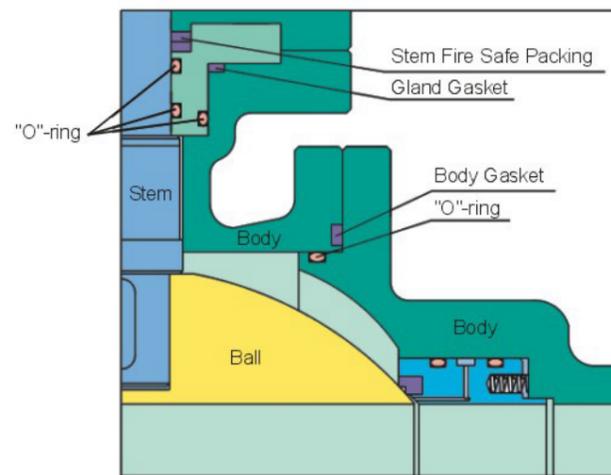
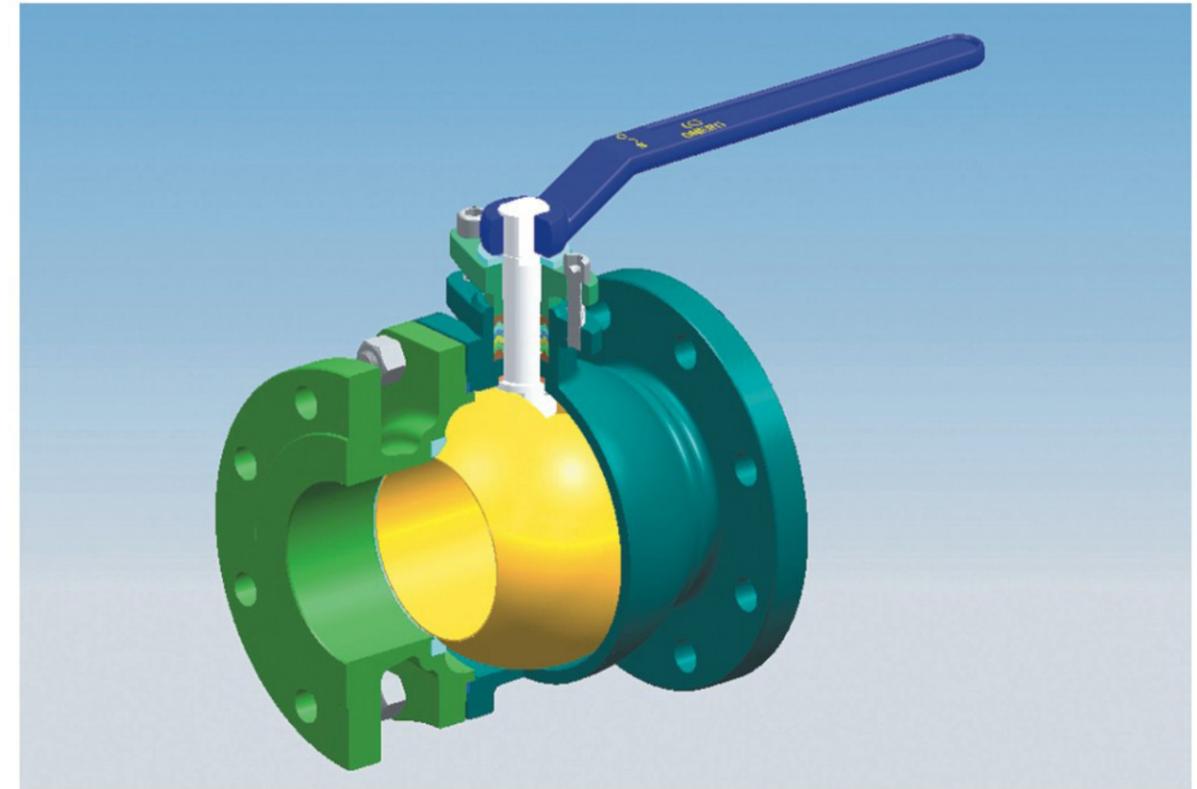


Fig.6



FEATURES

| |
|------------------------------------|
| Size: 1/2" - 10" |
| Class: 150-600Lb |
| Two Pieces Cast Steel Body |
| Floating Ball, Full & Reduced Bore |
| Anti-static Device |
| Blow-out Proof Stem |
| Fire Safe Design |
| Low Emission |

SPECIFICATIONS

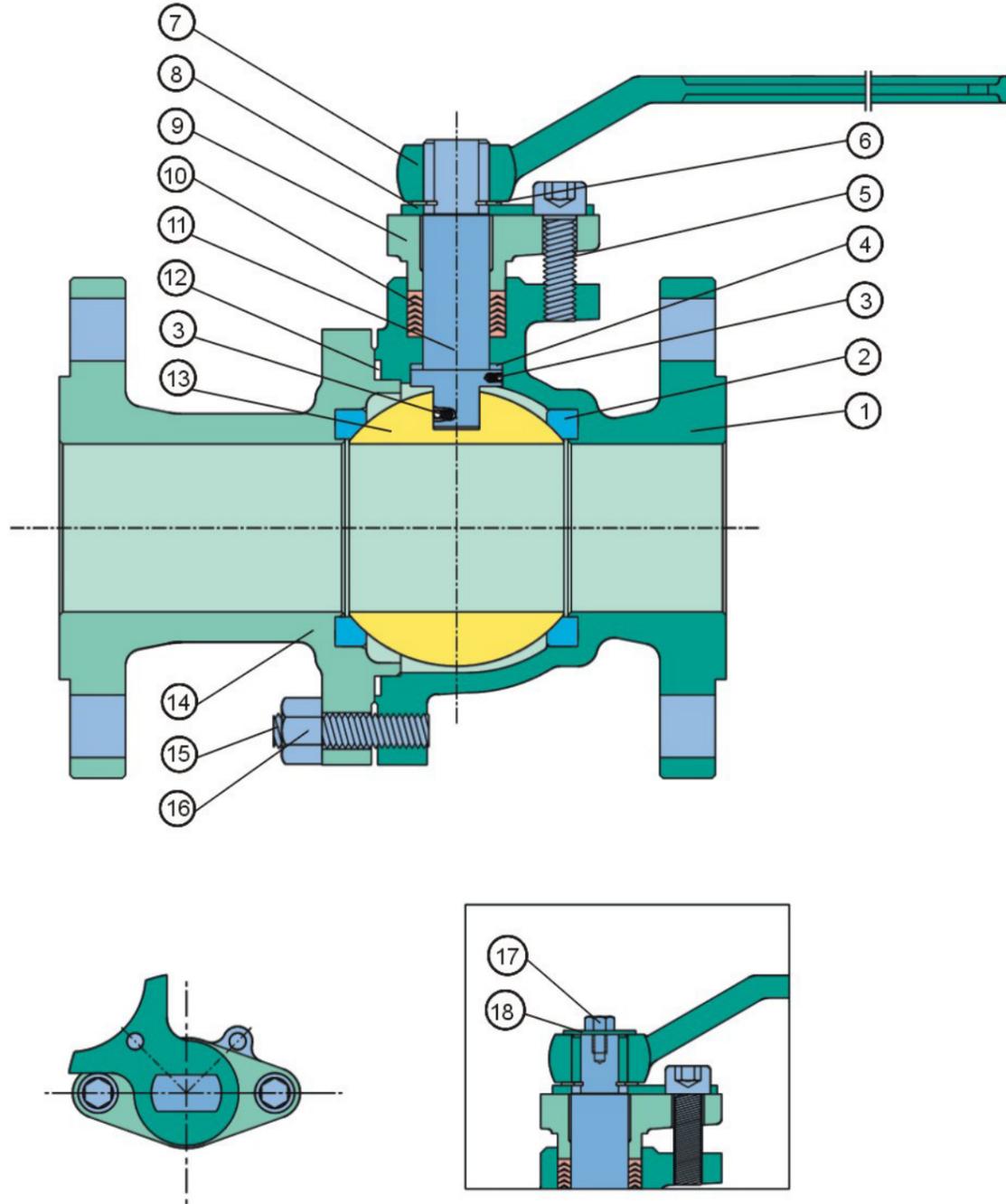
| | |
|----------------|---------------------|
| Design | ASME B16.34/BS 5351 |
| Face to Face | ASME B16.10 |
| End Flange | ASME B16.5 |
| Bw End | ASME B16.25 |
| Test | API 598/ BS 6755 |
| Fire Safe Test | API 607/ API6FA |
| Special | NACE MR-01-75 |

07'

ONERO VALVE

Cast Steel Floating Ball Valve

<http://www.ouqiu.com>



08'

ONERO VALVE

Cast Steel Floating Ball Valve

<http://www.ouqiu.com>

MATERIAL SPECIFICATIONS

| No. | Part | Material |
|-----|-------------------|--|
| 1 | Body | A216-WCB A352-LCB A351-CF8, CF8M, CF3, CF3M |
| 2 | Seat | PTFE RTPFE PEEK PPL |
| 3 | Antistatic Spring | Stainless Steel Ss316 |
| 4 | Thrust Washer | PTFE |
| 5 | Screw | ASTM A193-B7, B8 |
| 6 | Retainer | Carbon Steel |
| 7 | Lever | A216-WCB |
| 8 | Limited Plate | 1015+Cr Carbon Steel+Cr |
| 9 | Gland Flange | A216-WCB A351-CF8 |
| 10 | Packing | PTFE Graphite |
| 11 | Stem | ASTM A105+ENP A182-F6, F316, F316L, F304L 17-4PH |
| 12 | Body Gasket | PTFE SS304+Graphite SS316+Graphite |
| 13 | Ball | A361-CF8, CF8M, CF3, CF3M |
| 14 | Bonnet | A216-WCB A352-LCB A351-CF8, CF8M CF3, CF3M |
| 15 | Stud | ASTM A193-B7, B7M, B8, B8M |
| 16 | Nut | ASTM A194-2H, 2HM, 8, 8M |
| 17 | Stop Screw | 1035+Cr |
| 18 | Steel Gasket | 1025+Cr |

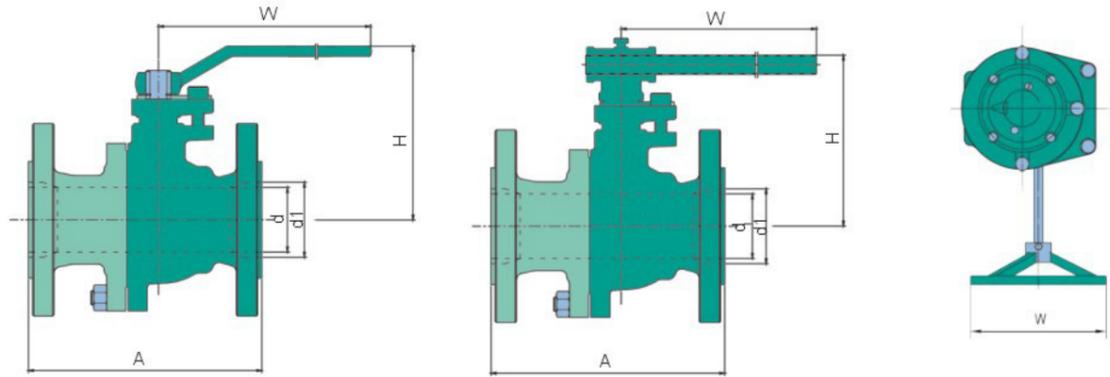
*Recommended Spare Parts

09'

ONERO VALVE

Cast Steel Floating Ball Valve
<http://www.ouqiu.com>

DIMENSIONS AND WEIGHTS



FULL BORE Class 150

| Size | d | A | H | W | Weight |
|-------|-----|-----|-----|-------|--------|
| in | mm | mm | mm | mm | kg |
| 1/2 | 13 | 108 | 75 | 130 | 2.3 |
| 3/4 | 19 | 117 | 84 | 170 | 2.5 |
| 1 | 25 | 127 | 90 | 170 | 3.5 |
| 1-1/2 | 38 | 165 | 127 | 250 | 7.3 |
| 2 | 51 | 178 | 140 | 250 | 9.8 |
| 2-1/2 | 64 | 190 | 164 | 350 | 15 |
| 3 | 76 | 203 | 177 | 350 | 18 |
| 4 | 102 | 229 | 206 | 420 | 33 |
| 5 | 125 | 356 | 292 | 700 | 57 |
| 6 | 152 | 394 | 320 | *1000 | 66 |
| 8 | 203 | 457 | 365 | *1300 | 102 |
| 10 | 254 | 533 | 420 | *1800 | 166 |

REDUCED BORE Class 150

| Size | d | d1 | A | H | W | Weight |
|---------|-----|-----|-----|-----|-------|--------|
| in | mm | mm | mm | mm | mm | kg |
| 3/4x1/2 | 13 | 19 | 117 | 75 | 130 | 2.7 |
| 1x3/4 | 19 | 25 | 127 | 84 | 170 | 3.0 |
| 1-1/2x1 | 25 | 38 | 165 | 90 | 170 | 4.3 |
| 2x1-1/2 | 38 | 51 | 178 | 127 | 250 | 9.5 |
| 2-1/2x2 | 51 | 64 | 190 | 140 | 250 | 12 |
| 3x2 | 51 | 76 | 203 | 140 | 250 | 16.5 |
| 4x3 | 76 | 102 | 229 | 177 | 350 | 24 |
| 6x4 | 102 | 152 | 394 | 206 | 420 | 43 |
| 8x6 | 152 | 203 | 457 | 320 | *1000 | 85.5 |
| 10x8 | 203 | 254 | 533 | 365 | *1300 | 132.6 |

*Gear Operated

FULL BORE Class 300

| Size | d | A | H | W | Weight |
|-------|-----|-----|-----|-------|--------|
| in | mm | mm | mm | mm | kg |
| 1/2 | 13 | 140 | 75 | 130 | 3.5 |
| 3/4 | 19 | 152 | 84 | 170 | 4.2 |
| 1 | 25 | 165 | 90 | 170 | 5.8 |
| 1-1/2 | 38 | 191 | 127 | 250 | 10.5 |
| 2 | 51 | 216 | 140 | 250 | 14 |
| 2-1/2 | 64 | 241 | 164 | 350 | 19 |
| 3 | 76 | 283 | 177 | 350 | 31 |
| 4 | 102 | 305 | 206 | 420 | 54 |
| 5 | 125 | 381 | 292 | 700 | 75.5 |
| 6 | 152 | 403 | 320 | *1000 | 90 |
| 8 | 203 | 502 | 365 | *1300 | 151 |

REDUCED BORE Class 300

| Size | d | d1 | A | H | W | Weight |
|---------|-----|-----|-----|-----|-------|--------|
| in | mm | mm | mm | mm | mm | kg |
| 3/4x1/2 | 13 | 19 | 152 | 75 | 130 | 4.0 |
| 1x3/4 | 19 | 25 | 165 | 84 | 170 | 5.0 |
| 1-1/2x1 | 25 | 38 | 190 | 90 | 170 | 7.0 |
| 2x1-1/2 | 38 | 51 | 216 | 127 | 250 | 12 |
| 2-1/2x2 | 51 | 64 | 241 | 140 | 250 | 17 |
| 3x2 | 51 | 76 | 283 | 140 | 250 | 21.5 |
| 4x3 | 76 | 102 | 305 | 177 | 350 | 37 |
| 6x4 | 102 | 152 | 403 | 206 | 420 | 66 |
| 8x6 | 152 | 203 | 419 | 320 | *1000 | 127 |
| 10x8 | 203 | 254 | 457 | 365 | *1300 | 196.5 |

*Gear Operated

FULL BORE Class 600

| Size | d | A | H | W | Weight |
|-------|-----|-----|-----|-----|--------|
| in | mm | mm | mm | mm | kg |
| 1/2 | 13 | 160 | 80 | 170 | 3.5 |
| 3/4 | 19 | 191 | 89 | 200 | 5.0 |
| 1 | 25 | 216 | 95 | 200 | 7.5 |
| 1-1/2 | 38 | 241 | 132 | 350 | 15.0 |
| 2 | 51 | 292 | 145 | 350 | 20.8 |
| 3 | 76 | 356 | 182 | 420 | 41 |
| 4 | 102 | 432 | 211 | 700 | 76 |

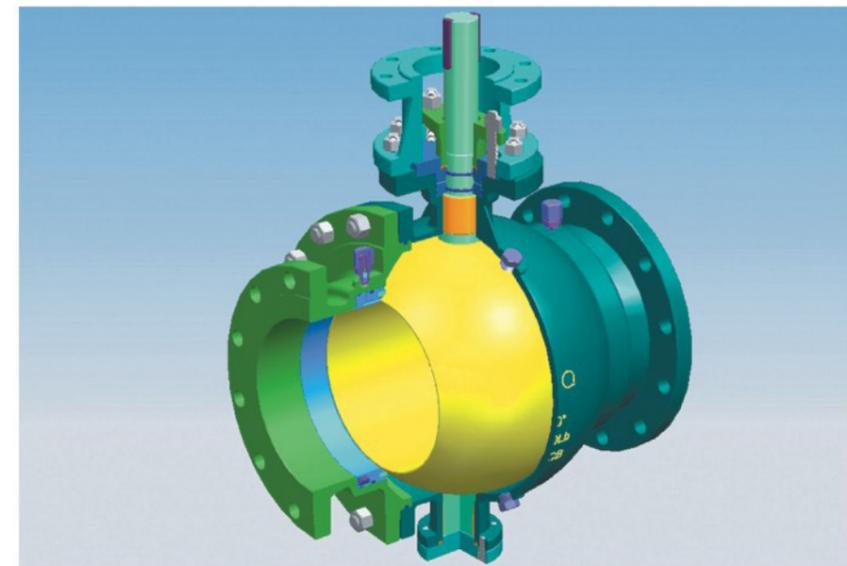
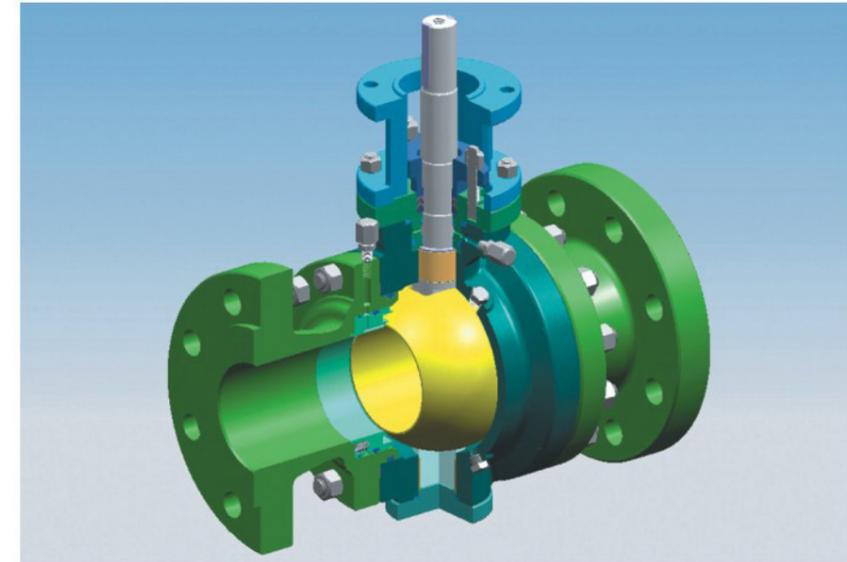
REDUCED BORE Class 600

| Size | d | d1 | A | H | W | Weight |
|---------|-----|-----|-----|-----|-----|--------|
| in | mm | mm | mm | mm | mm | kg |
| 3/4x1/2 | 13 | 19 | 191 | 80 | 170 | 4.0 |
| 1x3/4 | 19 | 25 | 216 | 89 | 200 | 5.0 |
| 1-1/2x1 | 25 | 38 | 21 | 95 | 200 | 10.5 |
| 2x1-1/2 | 38 | 51 | 292 | 132 | 350 | 14.7 |
| 3x2 | 51 | 76 | 356 | 145 | 350 | 29.0 |
| 4x3 | 76 | 102 | 432 | 182 | 420 | 56.0 |
| 6x4 | 102 | 152 | 559 | 211 | 700 | 95.0 |

10'

ONERO VALVE

Cast Steel Trunnion Mounted Ball Valve
<http://www.ouqiu.com>



FEATURES

| |
|--|
| Size: 2" - 40" |
| Class: 150-900Lb |
| Three & Two Pieces Cast Steel Body |
| Trunnion Mounted Ball, Full & Reduced Bore |
| Anti-static Device |
| Blow-out Proof Stem |
| Fire Safe Design |
| Emergency Sealant Injector |
| Vent valve, drain valve |
| Lifting lugs and supporting feets (8" & larger). |

SPECIFICATIONS

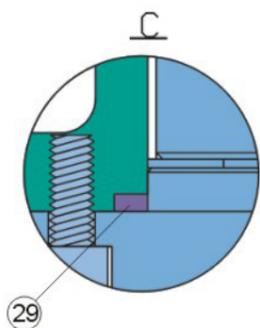
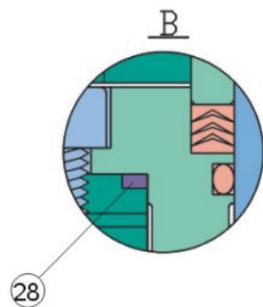
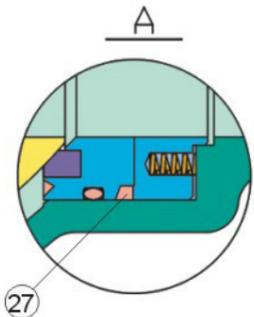
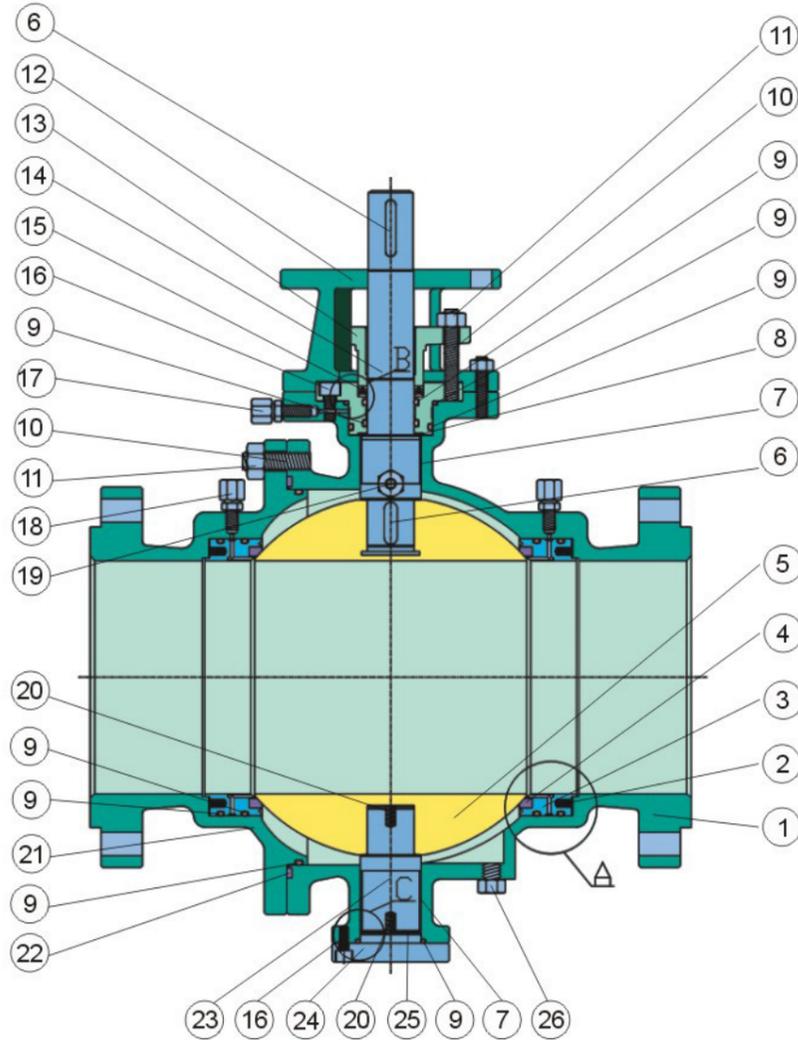
| | |
|----------------|--------------------|
| Design | ASME B16.34/API 6D |
| Face to Face | ASME B16.10 |
| End Flange | ASME B16.5 |
| BW End | ASME B16.25 |
| Test | API 598 |
| Fire Safe Test | API 607/API 6FA |
| Special | NACE MR-01-75 |

11'

ONERO VALVE

Cast Steel Trunnion Mounted Ball Valve

<http://www.ouqiu.com>



12'

ONERO VALVE

Cast Steel Trunnion Mounted Ball Valve

<http://www.ouqiu.com>

MATERIAL SPECIFICATIONS

| No. | Part | Material |
|-----|---------------------|--|
| 1 | Body | ASTM A216-WCB A352-LCB A351-CF8, CF8M, CF3, CF3M, Duplex |
| 2 | Seat Spring | Inconel X-7505 SS304 SS316 |
| 3 | Seat Ring | ASTM A105+ENP ASTM A182-F304, F316, F316L, F6, F51 |
| 4 | Seat | PTFE RPTFE PEEK PPL |
| 5 | Ball | ASTM A105+ENP ASTM A182-F6, F304, F316, F316L, F51 |
| 6 | KEY | 1045 A182-F304, F316, F316L, F304L |
| 7 | Sliding Bearing | Stainless Steel+PTFE SS316+PTFE |
| 8 | Thrust Washer | PTFE |
| 9 | O-ring | NBR Viton |
| 10 | Stud | ASTM 193-B7, B7M, B8, B8M |
| 11 | Nut | ASTM 194-2H, 2HM, 8, 8M |
| 12 | Yoke | A216-WCB |
| 13 | Gland Flange | A216-WCB A351-CF8 |
| 14 | Stem | A105+ENP A182-F6, F304, F316, F316L, F304L, 17-4PH, F51 |
| 15 | Packing | PTFE Graphite |
| 16 | Screw | ASTM A193-B7, B8 |
| 17 | Stem Injection | 1020+ZN A182-F304, F316, F316L |
| 18 | Seat Injection | 1020+ZN A182-F304, F316, F316L |
| 19 | Vent Valve | 1020+ZN A182-F304, F316, F316L |
| 20 | Antistatic Spring | Stainless Steel SS316 |
| 21 | Bonnet | A216-WCB A352-LCB A351-CF8, CF8M, CF3, CF3M, Duplex |
| 22 | Body Gasket | PTFE SS304+Graphite SS316+Graphite |
| 23 | Trunnion | A105+ENP A182-F6, F304, F316, F316L, F304L, 17-4PH, F51 |
| 24 | Bottom Cover | ASTM A105+NEP A182-F304, F316, F316L |
| 25 | Lower Gasket | PTFE |
| 26 | Drain Valve | 1020+ZN A182-F304, F316, F316L |
| 27 | Seat Sealing | Graphite |
| 28 | Gand Gasket | SS304+Graphite |
| 29 | Bottom Cover Gasket | SS304+Graphite |

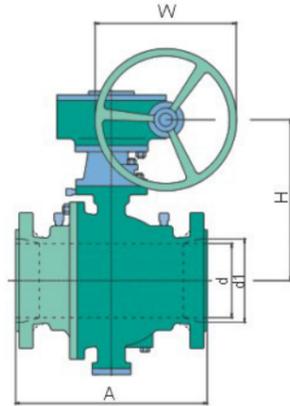
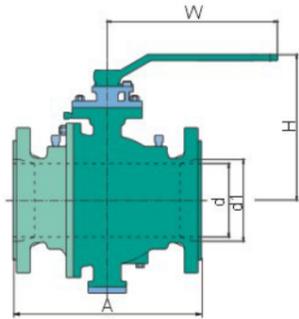
*Recommended Spare Parts

13'

ONERO VALVE

Cast Steel Trunnion Mounted Ball Valve
<http://www.ouqiu.com>

DIMENSIONS AND WEIGHTS



FULL BORE Class 150

| Size | d | A | H | W | Weight |
|------|-----|------|-----|------|--------|
| in | mm | mm | mm | mm | kg |
| 2 | 51 | 178 | 140 | 250 | 15 |
| 3 | 76 | 203 | 177 | 350 | 24 |
| 4 | 102 | 229 | 206 | 420 | 40 |
| 6 | 152 | 394 | 305 | *280 | 95 |
| 8 | 203 | 457 | 398 | *320 | 170 |
| 10 | 254 | 533 | 495 | *350 | 255 |
| 12 | 305 | 610 | 580 | *400 | 390 |
| 14 | 337 | 686 | 625 | *500 | 510 |
| 16 | 387 | 762 | 720 | *500 | 820 |
| 18 | 438 | 864 | 770 | *500 | 1010 |
| 20 | 489 | 914 | 840 | *500 | 1828 |
| 24 | 591 | 1067 | 920 | *600 | 2100 |

REDUCED BORE Class 150

| Size | d | d1 | A | H | W | Weight |
|-------|-----|-----|------|-----|------|--------|
| in | mm | mm | mm | mm | mm | kg |
| 3x2 | 51 | 76 | 203 | 140 | 250 | 21 |
| 4x3 | 76 | 102 | 229 | 177 | 350 | 30 |
| 6x4 | 102 | 152 | 394 | 206 | 420 | 68 |
| 8x6 | 152 | 203 | 457 | 305 | *280 | 115 |
| 10x8 | 203 | 254 | 533 | 398 | *320 | 214 |
| 12x10 | 254 | 305 | 610 | 495 | *350 | 284 |
| 14x12 | 305 | 337 | 686 | 580 | *400 | 418 |
| 16x14 | 337 | 387 | 762 | 625 | *500 | 612 |
| 18x16 | 387 | 438 | 864 | 720 | *500 | 970 |
| 20x18 | 428 | 489 | 914 | 770 | *500 | 1137 |
| 24x20 | 489 | 591 | 1067 | 840 | *500 | 2000 |

*Gear Operated

FULL BORE Class 300

| Size | d | A | H | W | Weight |
|------|-----|------|-----|------|--------|
| in | mm | mm | mm | mm | kg |
| 2 | 51 | 216 | 140 | 250 | 18 |
| 3 | 76 | 283 | 177 | 350 | 33 |
| 4 | 102 | 305 | 206 | 420 | 55 |
| 6 | 152 | 403 | 305 | *280 | 135 |
| 8 | 203 | 502 | 398 | *320 | 210 |
| 10 | 254 | 568 | 495 | *350 | 391 |
| 12 | 305 | 648 | 580 | *400 | 550 |
| 14 | 337 | 762 | 625 | *500 | 710 |
| 16 | 387 | 838 | 720 | *500 | 1250 |
| 18 | 438 | 914 | 770 | *500 | 1300 |
| 20 | 489 | 991 | 840 | *500 | 2180 |
| 24 | 591 | 1143 | 920 | *600 | 2930 |

REDUCED BORE Class 300

| Size | d | d1 | A | H | W | Weight |
|-------|-----|-----|------|-----|------|--------|
| in | mm | mm | mm | mm | mm | kg |
| 3x2 | 51 | 76 | 283 | 140 | 250 | 25 |
| 4x3 | 76 | 102 | 305 | 177 | 350 | 41 |
| 6x4 | 102 | 152 | 403 | 206 | 420 | 92 |
| 8x6 | 152 | 203 | 502 | 305 | *280 | 164 |
| 10x8 | 203 | 254 | 568 | 398 | *320 | 350 |
| 12x10 | 254 | 305 | 648 | 495 | *350 | 400 |
| 14x12 | 305 | 337 | 762 | 580 | *400 | 590 |
| 16x14 | 337 | 387 | 838 | 625 | *500 | 850 |
| 18x16 | 387 | 438 | 914 | 720 | *500 | 1220 |
| 20x18 | 428 | 489 | 991 | 770 | *500 | 1460 |
| 24x20 | 489 | 591 | 1143 | 840 | *500 | 2220 |

*Gear Operated

FULL BORE Class 600

| Size | d | A | H | W | Weight |
|------|-----|------|-----|------|--------|
| in | mm | mm | mm | mm | kg |
| 2 | 51 | 292 | 145 | 350 | 25 |
| 3 | 76 | 356 | 182 | 420 | 50 |
| 4 | 102 | 432 | 211 | 700 | 56 |
| 6 | 152 | 559 | 435 | *400 | 250 |
| 8 | 203 | 660 | 530 | *500 | 437 |
| 10 | 254 | 787 | 615 | *500 | 735 |
| 12 | 305 | 838 | 680 | *500 | 1050 |
| 14 | 337 | 889 | 720 | *600 | 1300 |
| 16 | 387 | 991 | 540 | *600 | 1775 |
| 18 | 438 | 1092 | 590 | *600 | 2100 |
| 20 | 489 | 1194 | 925 | *600 | 3100 |
| 24 | 591 | 1397 | 980 | *600 | 4750 |

REDUCED BORE Class 600

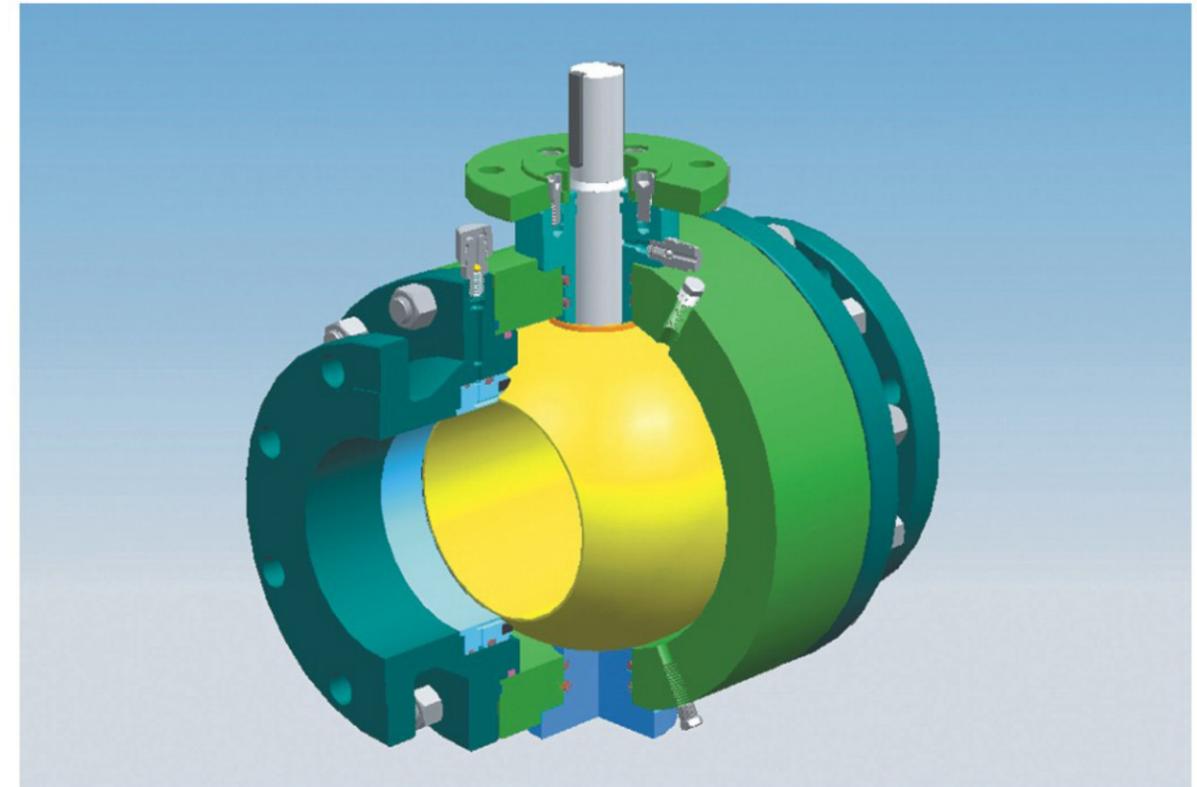
| Size | d | d1 | A | H | W | Weight |
|-------|-----|-----|------|-----|------|--------|
| in | mm | mm | mm | mm | mm | kg |
| 3x2 | 51 | 76 | 356 | 145 | 350 | 39 |
| 4x3 | 76 | 102 | 432 | 182 | 420 | 65 |
| 6x4 | 102 | 152 | 559 | 211 | 700 | 136 |
| 8x6 | 152 | 203 | 660 | 435 | *400 | 292 |
| 10x8 | 203 | 254 | 787 | 530 | *500 | 505 |
| 12x10 | 254 | 305 | 838 | 615 | *500 | 760 |
| 14x12 | 305 | 337 | 889 | 680 | *500 | 1105 |
| 16x14 | 337 | 387 | 991 | 420 | *600 | 1417 |
| 18x16 | 387 | 438 | 1092 | 840 | *600 | 1955 |
| 20x18 | 428 | 489 | 1194 | 890 | *600 | 2380 |
| 24x20 | 489 | 591 | 1397 | 925 | *600 | 3640 |

*Gear Operated

14'

ONERO VALVE

Forged Steel Trunnion Mounted Ball Valve
<http://www.ouqiu.com>



FEATURES

| |
|---|
| Size: 2" - 24" |
| Class: 150-2500Lb |
| Three Pieces Forged Steel Body |
| Trunnion Mounted Ball, Full & Reduced Bore |
| Anti-static Device |
| Blow-out Proof Stem |
| Double Block and Bleed |
| Fire Safe Design |
| Emergency Sealant Injector Vent Valve |
| Vent valve, drain valve |
| Lifting Lugs & Supporting Feet(8" & Larger) |

SPECIFICATIONS

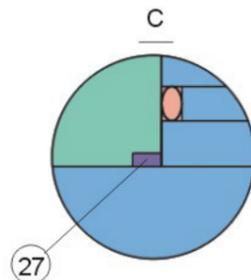
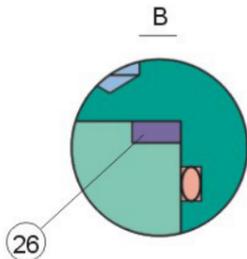
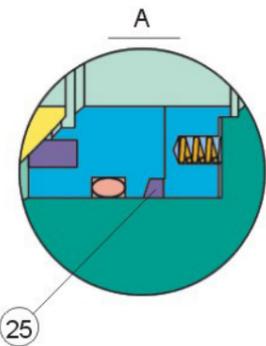
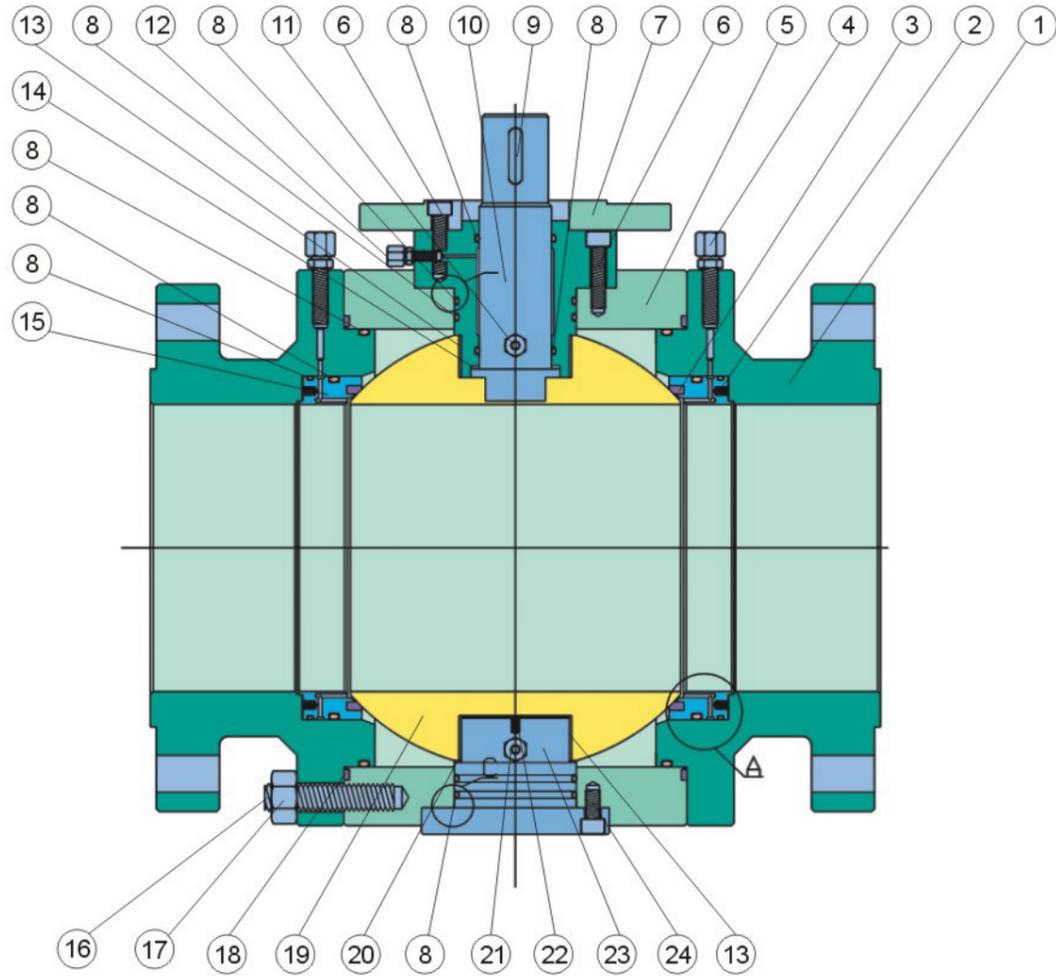
| | |
|----------------|--------------------|
| Design | ASME B16.34/API 6D |
| Face to Face | ASME B16.10/API 6D |
| End Flange | ASME B16.5 |
| BW End | ASME B16.25 |
| Test | API 6D |
| Fire Safe Test | API 607/API 6FA |
| Special | NACE MR-01-75 |

15'

ONERO VALVE

Forged Steel Trunnion Mounted Ball Valve

<http://www.ouqiu.com>



16'

ONERO VALVE

Forged Steel Trunnion Mounted Ball Valve

<http://www.ouqiu.com>

MATERIAL SPECIFICATIONS

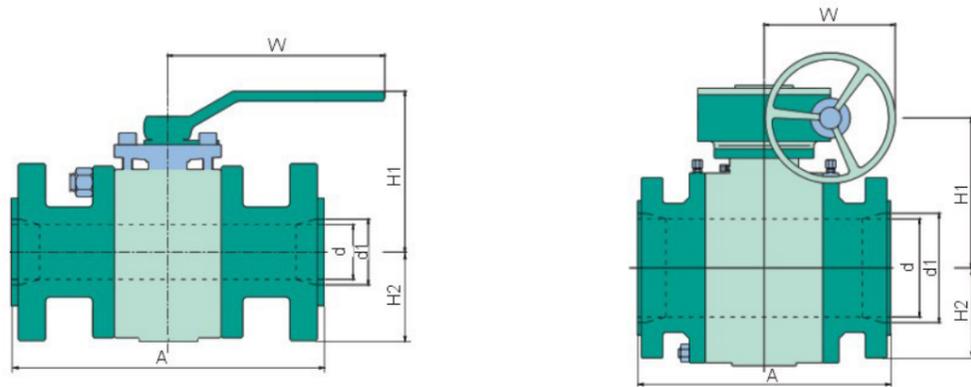
| No. | Part | Material |
|-----|---------------------|--|
| 1 | Bonnet | ASTM A105 A182-F304, F316, F316L, F304L, F51 |
| 2 | Seat Spring | Inconel X-7505 SS304 SS316 |
| 3 | Seat | PTFE RPTFE PEEK PPL |
| 4 | Seat Injection | 1020+ZN A182-F304, F316, F316L |
| 5 | Body | ASTM A105 A182-F304, F316, F316L, F304L, F51 |
| 6 | Screw | ASTM A193-B7, B8 |
| 7 | Top Flange | ASTM A105 A182-F304 |
| 8 | "o"-ring | NBR Viton |
| 9 | Key | 1045 A182-F304, F316, F316L, F304L |
| 10 | Stem | A105+ENP A182-F6, F304, F316, F316L, F304L, 17-4PH, F51 |
| 11 | Vent Valve | 1020+ZN A182-F304, F316, F316L |
| 12 | Stem Injection | 1020+ZN A182-F304, F316, F316L |
| 13 | Sliding Bearing | Stainless Steel+PTFE SS316+PTFE |
| 14 | Thrust Washer | PTFE |
| 15 | Seat Ring | A105+ENP ASTM A182-F6, F304, F316, F316L, F304L, F6, F51 |
| 16 | Stud | ASTM 193-B7, B7M, B8, B8M |
| 17 | Nut | ASTM 194-2H, 2HM, 8, 8M |
| 18 | Body Gasket | PTFE SS304+Graphite SS316+Graphite |
| 19 | Ball | A105+ENP ASTM A182-F6, F304, F316, F316L, F51 |
| 20 | Lower Gasket | PTFE |
| 21 | Drain Valve | 1020+ZN A182-F304, F316, F316L |
| 22 | Antistatic Spring | Stainless Steel SS316 |
| 23 | Trunnion | A105+ENP A182-F6, F304, F316, F316L, F304L, F51 |
| 24 | Screw | ASTM A193-B7, B8 |
| 25 | Seat Sealing | Graphite |
| 26 | Gand Gasket | SS304+Graphite |
| 27 | Bottom Cover Gasket | SS304+Graphite |

*Recommended Spare Parts

ONERO VALVE Forged Steel Trunnion Mounted Ball Valve

<http://www.ouqiu.com>

DIMENSIONS AND WEIGHTS



FULL BORE Class 150

| Size | d | A | H1 | H2 | W | Weight |
|------|-----|------|------|-----|------|--------|
| in | mm | mm | mm | mm | mm | kg |
| 2 | 51 | 170 | 180 | 138 | 265 | 30 |
| 3 | 76 | 203 | 190 | 150 | 285 | 60 |
| 4 | 102 | 229 | 212 | 170 | 285 | 92 |
| 6 | 152 | 394 | 277 | 183 | *400 | 190 |
| 8 | 203 | 457 | 301 | 216 | *400 | 345 |
| 10 | 254 | 533 | 359 | 260 | *500 | 495 |
| 12 | 305 | 610 | 419 | 287 | *600 | 705 |
| 14 | 337 | 686 | 460 | 338 | *600 | 859 |
| 16 | 387 | 762 | 494 | 375 | *600 | 1020 |
| 18 | 438 | 864 | 521 | 402 | *600 | 1440 |
| 20 | 489 | 914 | 656 | 427 | *600 | 1918 |
| 22 | 540 | 991 | 733 | 480 | *600 | 2352 |
| 24 | 591 | 1067 | 795 | 518 | *700 | 2803 |
| 26 | 635 | 1143 | 870 | 535 | *800 | 3200 |
| 28 | 686 | 1245 | 935 | 542 | *800 | 4045 |
| 30 | 737 | 1295 | 1010 | 605 | *800 | 4820 |
| 32 | 781 | 1372 | 1060 | 650 | *800 | 5490 |
| 34 | 832 | 1473 | 1077 | 650 | *800 | 6704 |
| 36 | 876 | 1524 | 1115 | 700 | *800 | 7615 |
| 40 | 978 | 1727 | 1400 | 865 | *800 | 10271 |

REDUCED BORE Class 150

| Size | d | d1 | A | H1 | H2 | W | Weight |
|---------|-----|-----|------|------|-----|------|--------|
| in | mm | mm | mm | mm | mm | mm | kg |
| 2x1-1/2 | 38 | 51 | 178 | 140 | 110 | 250 | 26 |
| 3x2 | 51 | 76 | 203 | 180 | 130 | 265 | 34 |
| 4x3 | 76 | 102 | 229 | 190 | 150 | 285 | 62 |
| 6x4 | 102 | 152 | 394 | 212 | 170 | 285 | 102 |
| 8x6 | 152 | 203 | 457 | 277 | 183 | *400 | 225 |
| 10x8 | 203 | 254 | 533 | 301 | 216 | *400 | 373 |
| 12x10 | 254 | 305 | 610 | 359 | 260 | *500 | 533 |
| 14x12 | 305 | 337 | 686 | 419 | 287 | *600 | 730 |
| 16x14 | 337 | 387 | 762 | 460 | 338 | *600 | 790 |
| 18x16 | 387 | 438 | 864 | 494 | 375 | *600 | 1095 |
| 20x18 | 438 | 489 | 914 | 521 | 402 | *600 | 1152 |
| 22x18 | 438 | 540 | 991 | 521 | 402 | *600 | 2343 |
| 24x20 | 489 | 591 | 1067 | 656 | 427 | *600 | 2060 |
| 26x22 | 540 | 635 | 1143 | 733 | 480 | *600 | 2215 |
| 28x24 | 591 | 686 | 1245 | 795 | 518 | *700 | 2700 |
| 30x24 | 591 | 737 | 1295 | 795 | 518 | *700 | 2918 |
| 32x26 | 635 | 781 | 1372 | 870 | 535 | *800 | 4005 |
| 34x28 | 686 | 832 | 1473 | 935 | 542 | *800 | 4445 |
| 36x30 | 737 | 876 | 1524 | 1010 | 605 | *800 | 4995 |
| 40x34 | 832 | 978 | 1727 | 1077 | 650 | *800 | 8200 |

*Gear Operated

FULL BORE Class 300

| Size | d | A | H1 | H2 | W | Weight |
|------|-----|------|------|-----|------|--------|
| in | mm | mm | mm | mm | mm | kg |
| 2 | 51 | 216 | 180 | 130 | 265 | 31 |
| 3 | 76 | 283 | 190 | 150 | 285 | 69 |
| 4 | 102 | 305 | 212 | 170 | 285 | 110 |
| 6 | 152 | 403 | 277 | 183 | *400 | 211 |
| 8 | 203 | 502 | 308 | 217 | *500 | 376 |
| 10 | 254 | 568 | 381 | 265 | *600 | 540 |
| 12 | 305 | 648 | 429 | 307 | *600 | 763 |
| 14 | 337 | 762 | 460 | 338 | *600 | 900 |
| 16 | 387 | 838 | 581 | 375 | *600 | 1300 |
| 18 | 438 | 914 | 674 | 414 | *700 | 1715 |
| 20 | 489 | 991 | 713 | 450 | *700 | 2090 |
| 22 | 540 | 1092 | 780 | 492 | *700 | 2220 |
| 24 | 591 | 1143 | 850 | 531 | *700 | 2890 |
| 28 | 686 | 1346 | 958 | 556 | *800 | 4575 |
| 30 | 737 | 1397 | 1035 | 620 | *800 | 5590 |
| 32 | 781 | 1524 | 1087 | 666 | *800 | 6240 |
| 34 | 832 | 1626 | 1104 | 666 | *800 | 7370 |
| 36 | 876 | 1727 | 1143 | 718 | *800 | 8435 |
| 40 | 978 | 1930 | 1435 | 887 | *800 | 11200 |

REDUCED BORE Class 300

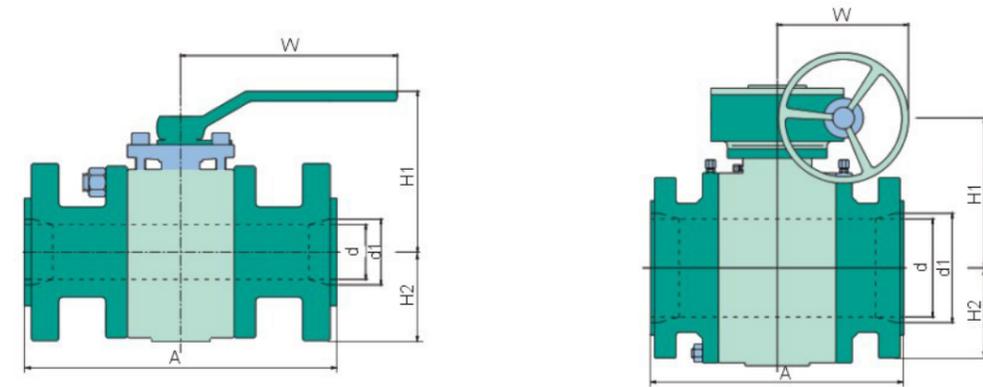
| Size | d | d1 | A | H1 | H2 | W | Weight |
|---------|-----|-----|------|------|-----|------|--------|
| in | mm | mm | mm | mm | mm | mm | kg |
| 2x1-1/2 | 38 | 51 | 216 | 140 | 110 | 250 | 30 |
| 3x2 | 51 | 76 | 283 | 180 | 130 | 265 | 37 |
| 4x3 | 76 | 102 | 305 | 190 | 150 | 285 | 74 |
| 6x4 | 102 | 152 | 403 | 212 | 170 | 400 | 142 |
| 8x6 | 152 | 203 | 502 | 277 | 183 | *400 | 253 |
| 10x8 | 203 | 254 | 568 | 308 | 217 | *500 | 410 |
| 12x10 | 254 | 305 | 648 | 381 | 265 | *600 | 580 |
| 14x12 | 305 | 337 | 762 | 429 | 307 | *600 | 830 |
| 16x14 | 337 | 387 | 838 | 460 | 338 | *600 | 970 |
| 18x16 | 387 | 438 | 914 | 581 | 375 | *600 | 1530 |
| 20x18 | 438 | 489 | 991 | 674 | 414 | *700 | 1830 |
| 22x18 | 438 | 540 | 1092 | 674 | 414 | *700 | 2010 |
| 24x20 | 489 | 591 | 1143 | 713 | 450 | *700 | 2220 |
| 28x24 | 591 | 686 | 1346 | 850 | 531 | *760 | 3200 |
| 30x24 | 591 | 737 | 1397 | 850 | 531 | *760 | 3200 |
| 34x28 | 686 | 832 | 1626 | 958 | 556 | *800 | 4845 |
| 36x30 | 737 | 876 | 1727 | 1035 | 620 | *800 | 6100 |
| 40x34 | 832 | 978 | 1930 | 1104 | 666 | *800 | 8200 |

*Gear Operated

ONERO VALVE Forged Steel Trunnion Mounted Ball Valve

<http://www.ouqiu.com>

DIMENSIONS AND WEIGHTS



FULL BORE Class 600

| Size | d | A | H1 | H2 | W | Weight |
|------|-----|------|------|-----|------|--------|
| in | mm | mm | mm | mm | mm | kg |
| 2 | 51 | 292 | 172 | 130 | 285 | 45 |
| 3 | 76 | 356 | 205 | 150 | 400 | 80 |
| 4 | 102 | 432 | 308 | 170 | 755 | 150 |
| 6 | 152 | 559 | 274 | 185 | *500 | 248 |
| 8 | 203 | 660 | 342 | 223 | *600 | 438 |
| 10 | 254 | 787 | 393 | 270 | *600 | 701 |
| 12 | 305 | 838 | 522 | 310 | *600 | 925 |
| 14 | 337 | 889 | 551 | 340 | *600 | 1230 |
| 16 | 387 | 991 | 637 | 378 | *700 | 1535 |
| 18 | 438 | 1092 | 683 | 418 | *760 | 2135 |
| 20 | 489 | 1194 | 719 | 451 | *760 | 2640 |
| 22 | 540 | 1295 | 754 | 492 | *800 | 3370 |
| 24 | 591 | 1397 | 823 | 539 | *800 | 3960 |
| 28 | 686 | 1549 | 958 | 556 | *800 | 6060 |
| 30 | 737 | 1651 | 1035 | 620 | *800 | 6690 |
| 32 | 781 | 1778 | 1087 | 666 | *800 | 7825 |
| 34 | 832 | 1930 | 1104 | 666 | *800 | 8460 |
| 36 | 876 | 2083 | 1143 | 718 | *800 | 10650 |
| 40 | 978 | 2337 | 1435 | 887 | *800 | 14700 |

REDUCED BORE Class 600

| Size | d | d1 | A | H1 | H2 | W | Weight |
|---------|-----|-----|------|------|-----|------|--------|
| in | mm | mm | mm | mm | mm | mm | kg |
| 2x1-1/2 | 38 | 51 | 292 | 164 | 110 | 265 | 40 |
| 3x2 | 51 | 76 | 356 | 172 | 130 | 285 | 54 |
| 4x3 | 76 | 102 | 432 | 205 | 150 | 400 | 99 |
| 6x4 | 102 | 152 | 559 | 308 | 170 | 755 | 212 |
| 8x6 | 152 | 203 | 660 | 274 | 185 | *500 | 304 |
| 10x8 | 203 | 254 | 787 | 342 | 223 | *600 | 510 |
| 12x10 | 254 | 305 | 838 | 393 | 270 | *600 | 902 |
| 14x12 | 305 | 337 | 889 | 522 | 310 | *600 | 1090 |
| 16x14 | 337 | 387 | 991 | 551 | 340 | *600 | 1310 |
| 18x16 | 387 | 438 | 1092 | 637 | 378 | *700 | 1640 |
| 20x18 | 438 | 489 | 1194 | 683 | 418 | *760 | 2270 |
| 22x18 | 438 | 540 | 1295 | 683 | 418 | *760 | 2430 |
| 24x20 | 489 | 591 | 1397 | 719 | 451 | *760 | 3440 |
| 28x24 | 591 | 686 | 1549 | 823 | 539 | *800 | 4250 |
| 30x24 | 591 | 737 | 1651 | 823 | 539 | *800 | 4730 |
| 34x28 | 686 | 832 | 1930 | 958 | 556 | *800 | 7200 |
| 36x30 | 737 | 876 | 2083 | 1035 | 620 | *800 | 8600 |
| 40x34 | 832 | 978 | 2337 | 1104 | 666 | *800 | 10020 |

*Gear Operated

FULL BORE Class 900

| Size | d | A | H1 | H2 | W | Weight |
|------|-----|------|------|-----|------|--------|
| in | mm | mm | mm | mm | mm | kg |
| 2 | 51 | 368 | 193 | 136 | 400 | 52 |
| 3 | 76 | 381 | 302 | 158 | 755 | 87 |
| 4 | 102 | 457 | 332 | 180 | *400 | 160 |
| 6 | 152 | 610 | 320 | 187 | *600 | 385 |
| 8 | 203 | 737 | 365 | 226 | *600 | 560 |
| 10 | 254 | 838 | 495 | 280 | *600 | 820 |
| 12 | 305 | 965 | 600 | 329 | *700 | 1125 |
| 14 | 324 | 1029 | 625 | 390 | *760 | 1610 |
| 16 | 375 | 1130 | 675 | 407 | *760 | 2010 |
| 18 | 425 | 1219 | 715 | 526 | *760 | 2810 |
| 20 | 473 | 1321 | 750 | 600 | *760 | 3460 |
| 22 | 524 | 1422 | 780 | 640 | *800 | 4410 |
| 24 | 572 | 1549 | 800 | 690 | *800 | 5497 |
| 28 | 667 | 1753 | 987 | 573 | *800 | 10202 |
| 30 | 714 | 1880 | 1066 | 638 | *800 | 11442 |
| 32 | 762 | 2032 | 1120 | 686 | *800 | 12102 |
| 34 | 810 | 2159 | 1137 | 688 | *800 | 17462 |
| 36 | 857 | 2286 | 1177 | 739 | *800 | 20154 |

REDUCED BORE Class 900

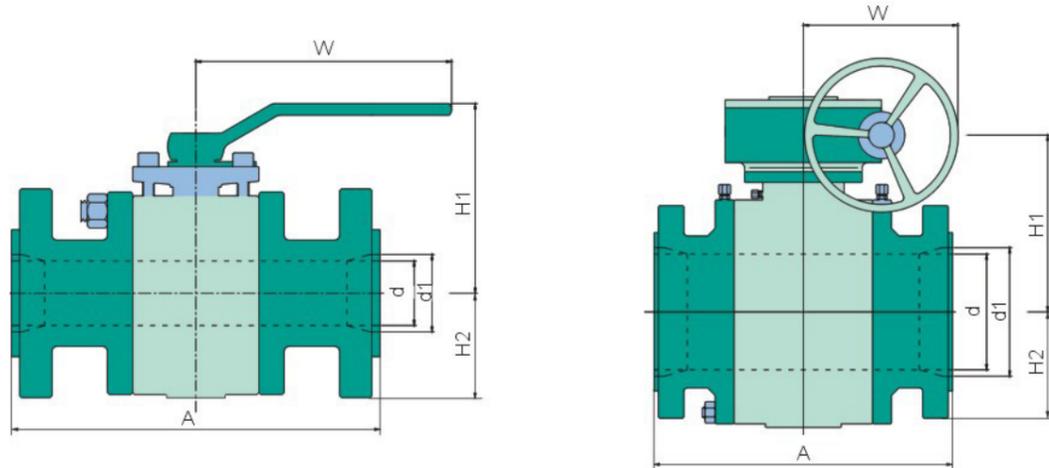
| Size | d | d1 | A | H1 | H2 | W | Weight |
|---------|-----|-----|------|------|-----|------|--------|
| in | mm | mm | mm | mm | mm | mm | kg |
| 2x1-1/2 | 38 | 51 | 368 | 175 | 110 | 285 | 45 |
| 3x2 | 51 | 76 | 381 | 193 | 136 | 400 | 56 |
| 4x3 | 76 | 102 | 457 | 302 | 158 | 755 | 94 |
| 6x4 | 102 | 152 | 610 | 332 | 180 | *400 | 226 |
| 8x6 | 152 | 203 | 737 | 320 | 187 | *600 | 480 |
| 10x8 | 203 | 254 | 838 | 365 | 226 | *600 | 650 |
| 12x10 | 254 | 305 | 965 | 495 | 280 | *600 | 868 |
| 14x12 | 305 | 324 | 1029 | 600 | 329 | *700 | 1310 |
| 16x14 | 324 | 375 | 1130 | 625 | 390 | *760 | 1830 |
| 18x16 | 375 | 425 | 1219 | 675 | 407 | *760 | 2205 |
| 20x18 | 425 | 473 | 1321 | 715 | 526 | *760 | 3140 |
| 22x18 | 425 | 524 | 1422 | 715 | 526 | *760 | 3288 |
| 24x20 | 473 | 572 | 1549 | 750 | 600 | *760 | 3810 |
| 28x24 | 572 | 667 | 1753 | 800 | 690 | *800 | 7580 |
| 30x24 | 572 | 714 | 1880 | 945 | 547 | *800 | 7981 |
| 34x28 | 667 | 810 | 2159 | 987 | 573 | *800 | 11202 |
| 36x30 | 714 | 857 | 2286 | 1066 | 638 | *800 | 15653 |

19'

ONERO VALVE Forged Steel Trunnion Mounted Ball Valve

<http://www.ouqiu.com>

DIMENSIONS AND WEIGHTS



FULL BORE Class 1500

| Size | d | A | H1 | H2 | W | Weight |
|------|-----|------|------|-----|------|--------|
| in | mm | mm | mm | mm | mm | kg |
| 2 | 51 | 368 | 193 | 150 | 400 | 60 |
| 3 | 76 | 470 | 270 | 168 | 1135 | 115 |
| 4 | 102 | 546 | 275 | 176 | *500 | 194 |
| 6 | 146 | 705 | 325 | 203 | *600 | 580 |
| 8 | 194 | 832 | 501 | 248 | *700 | 752 |
| 10 | 241 | 991 | 536 | 297 | *700 | 1195 |
| 12 | 289 | 1130 | 614 | 357 | *760 | 1970 |
| 14 | 318 | 1257 | 662 | 383 | *760 | 2250 |
| 16 | 362 | 1384 | 700 | 434 | *760 | 2760 |
| 18 | 407 | 1537 | 750 | 506 | *760 | 3646 |
| 20 | 457 | 1664 | 864 | 586 | *800 | 4497 |
| 22 | 495 | 1816 | 925 | 631 | *800 | 5731 |
| 24 | 534 | 2045 | 1065 | 675 | *800 | 7151 |

REDUCED BORE Class 1500

| Size | d | d1 | A | H1 | H2 | W | Weight |
|---------|-----|-----|------|-----|-----|------|--------|
| in | mm | mm | mm | mm | mm | mm | kg |
| 2x1-1/2 | 38 | 51 | 368 | 183 | 110 | 285 | 56 |
| 3x2 | 51 | 76 | 470 | 193 | 150 | 400 | 82 |
| 4x3 | 76 | 102 | 546 | 270 | 168 | 1135 | 150 |
| 6x4 | 102 | 146 | 705 | 275 | 176 | *500 | 295 |
| 8x6 | 146 | 194 | 832 | 325 | 203 | *600 | 690 |
| 10x8 | 194 | 241 | 991 | 501 | 248 | *700 | 930 |
| 12x10 | 241 | 289 | 1130 | 536 | 297 | *700 | 1340 |
| 14x12 | 289 | 318 | 1257 | 614 | 357 | *760 | 2070 |
| 16x14 | 318 | 362 | 1384 | 662 | 383 | *760 | 2470 |
| 18x16 | 362 | 407 | 1537 | 700 | 434 | *760 | 2950 |
| 20x18 | 407 | 457 | 1664 | 750 | 506 | *760 | 3350 |
| 22x18 | 407 | 495 | 1816 | 750 | 506 | *800 | 3600 |
| 24x20 | 457 | 534 | 2045 | 864 | 586 | *800 | 5850 |

FULL BORE Class 2500

| Size | d | A | H1 | H2 | W | Weight |
|------|-----|------|-----|-----|------|--------|
| in | mm | mm | mm | mm | mm | kg |
| 2 | 44 | 451 | 230 | 121 | 815 | 90 |
| 3 | 64 | 578 | 284 | 146 | *500 | 200 |
| 4 | 89 | 673 | 303 | 164 | *500 | 385 |
| 6 | 133 | 914 | 394 | 220 | *600 | 778 |
| 8 | 181 | 1022 | 488 | 312 | *760 | 1352 |
| 10 | 225 | 1270 | 600 | 425 | *760 | 2137 |
| 12 | 267 | 1422 | 872 | 629 | *760 | 3267 |

REDUCED BORE Class 2500

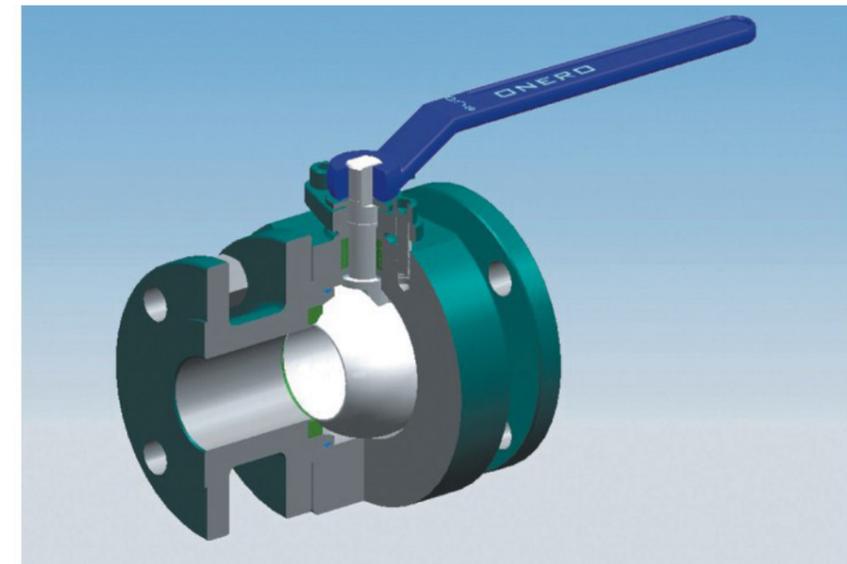
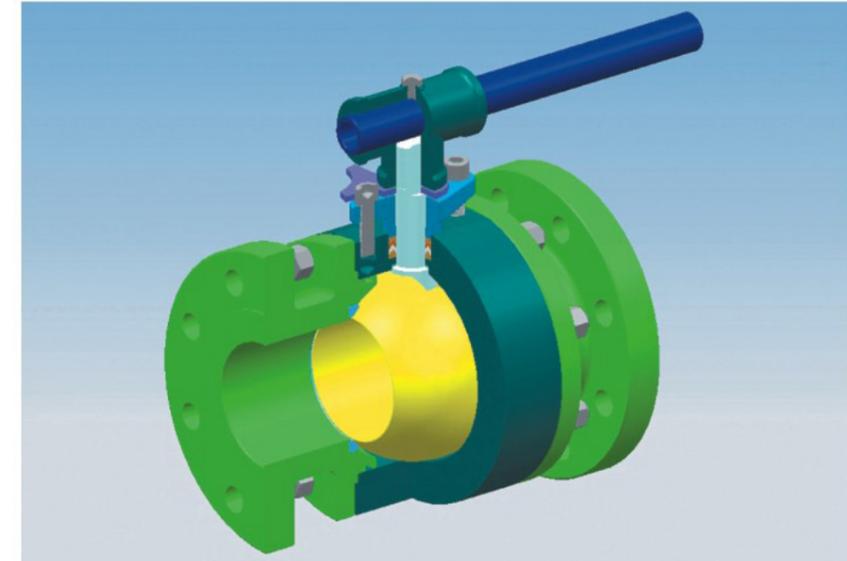
| Size | d | d1 | A | H1 | H2 | W | Weight |
|---------|-----|-----|------|-----|-----|------|--------|
| in | mm | mm | mm | mm | mm | mm | kg |
| 2x1-1/2 | 38 | 44 | 454 | 170 | 100 | 400 | 80 |
| 3x2 | 44 | 64 | 584 | 230 | 121 | 815 | 160 |
| 4x3 | 64 | 89 | 683 | 284 | 146 | *500 | 320 |
| 6x4 | 89 | 133 | 927 | 303 | 164 | *500 | 640 |
| 8x6 | 133 | 181 | 1038 | 360 | 365 | *600 | 1170 |
| 10x8 | 181 | 225 | 1292 | 420 | 410 | *760 | 1919 |
| 12x10 | 225 | 267 | 1445 | 509 | 470 | *760 | 2972 |

*Gear Operated

20'

ONERO VALVE Forged Steel Floating Ball Valve

<http://www.ouqiu.com>



FEATURES

| |
|--------------------------------------|
| Size: 1/2" - 4" |
| Class: 150-2500Lb |
| Three & Two Pieces Forged Steel Body |
| Floating Ball, Full & Reduced Bore |
| Anti-static Device |
| Blow-out Proof Stem |
| Fire Safe Design |
| Low Emission |

SPECIFICATIONS

| | |
|----------------|---------------------|
| Design | ASME B16.34/BS 5351 |
| Face to Face | ASME B16.10 |
| End Flange | ASME B16.5 |
| Bw End | ASME B16.25 |
| Test | API 598/ BS 6755 |
| Fire Safe Test | API 607/ API6FA |
| Special | NACE MR-01-75 |

21'

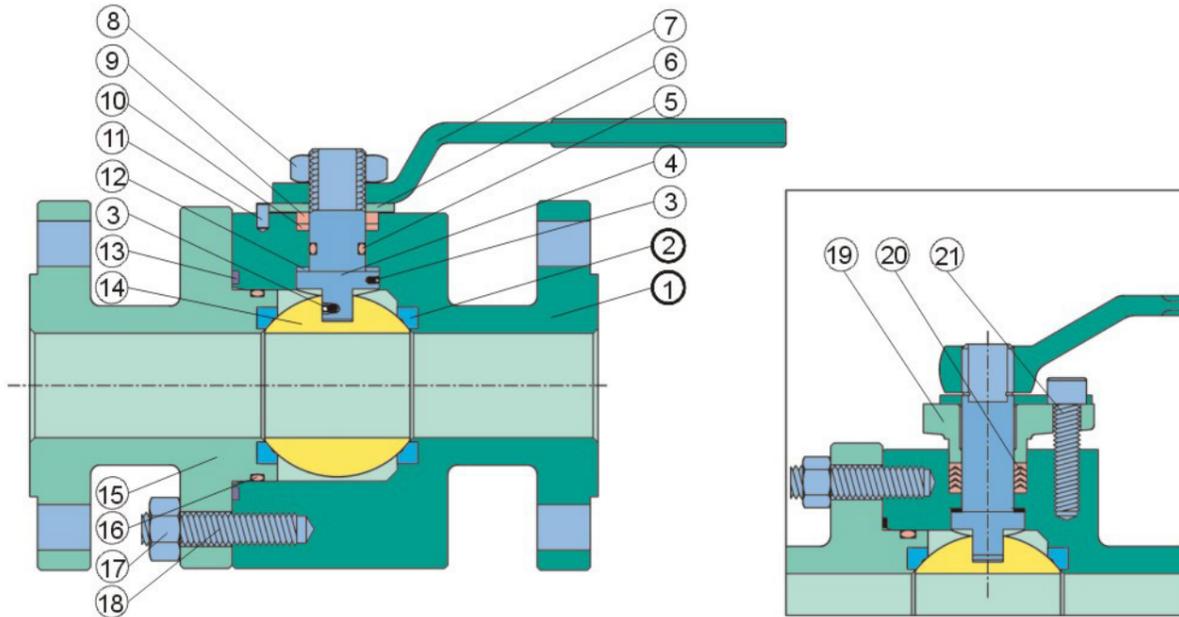
ONERO VALVE Forged Steel Floating Ball Valve

<http://www.ouqiu.com>

MATERIAL SPECIFICATIONS

| No. | Part | Material |
|-----|-------------------|---|
| 1 | Body | ASTM A105+ENP A182-F6, F304, F316, F316L, F304L, F51 |
| 2 | Seat | PTFE RTPFE PEEK PPL |
| 3 | Antistatic Spring | Stainless Steel Ss316 |
| 4 | Stem | A105+ENP A182-F6, F304, F316, F316L, F304L, 17-4PH, F51 |
| 5 | "O"-Ring | NBR Viton |
| 6 | Limited Plate | 1015+Cr Carbon Steel+Cr |
| 7 | Lever | A216-WCB 1025+Cr |
| 8 | Fix Nut | Stainless Steel |
| 9 | Backup Ring | ASTM A182-F304, F316 |
| 10 | Packing | PTFE Graphite |
| 11 | Positioning Pin | Stainless Steel |
| 12 | Thrust Washer | PTFE |
| 13 | Gasket | PTFE Graphite |
| 14 | Ball | ASTM A105+ENP ASTM A182-F6, F304, F316, F316L, F51 |
| 15 | Bonnet | ASTM A105+ENP A182-F6, F304, F316, F316L, F304L, F51 |
| 16 | "O" Ring | NBR Viton |
| 17 | Stud | ASTM A193-B7, B7M, B8, B8M |
| 18 | Nut | ASTM A194-2H, 2HM, 8, 8M |

*Recommended Spare Parts

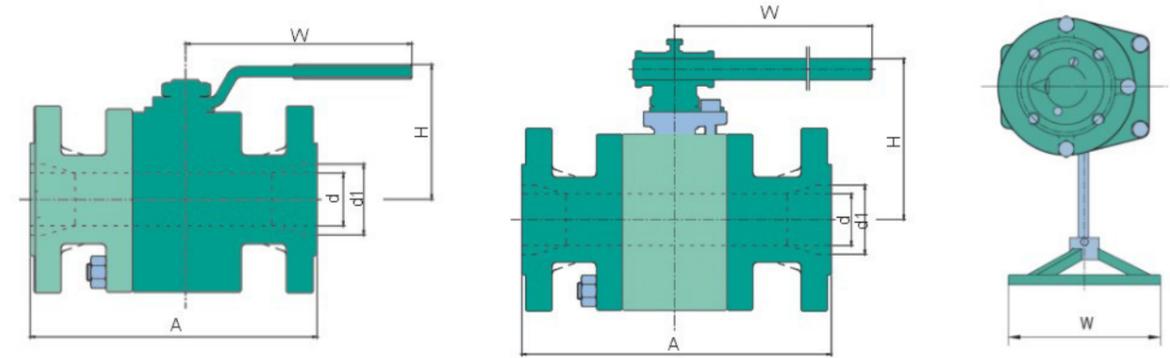


22'

ONERO VALVE Forged Steel Floating Ball Valve

<http://www.ouqiu.com>

DIMENSIONS AND WEIGHTS



FULL BORE

Class 150

| Size | d | A | H | W | Weight |
|-------|-----|-----|-----|-----|--------|
| in | mm | mm | mm | mm | kg |
| 1/2 | 13 | 108 | 75 | 130 | 2.8 |
| 3/4 | 19 | 117 | 84 | 170 | 3.7 |
| 1 | 25 | 127 | 90 | 170 | 5.3 |
| 1-1/2 | 38 | 165 | 127 | 250 | 8.3 |
| 2 | 51 | 178 | 140 | 250 | 11.2 |
| 2-1/2 | 64 | 191 | 164 | 350 | 18.4 |
| 3 | 76 | 203 | 177 | 350 | 23.0 |
| 4 | 102 | 229 | 206 | 420 | 39.3 |

REDUCED BORE

Class 150

| Size | d | d1 | A | H | W | Weight |
|---------|-----|-----|-----|-----|-----|--------|
| in | mm | mm | mm | mm | mm | kg |
| 3/4x1/2 | 13 | 19 | 117 | 75 | 130 | 3.5 |
| 1x3/4 | 19 | 25 | 127 | 84 | 170 | 5.0 |
| 1-1/2x1 | 25 | 38 | 162 | 90 | 170 | 7.5 |
| 2x1-1/2 | 38 | 51 | 178 | 127 | 250 | 10.0 |
| 2-1/2x2 | 51 | 64 | 190 | 140 | 250 | 16.0 |
| 3x2 | 51 | 76 | 203 | 140 | 250 | 21.0 |
| 4x3 | 76 | 102 | 229 | 177 | 350 | 35.0 |
| 6x4 | 102 | 152 | 267 | 206 | 420 | 73.0 |

FULL BORE

Class 300

| Size | d | A | H | W | Weight |
|-------|-----|-----|-----|-----|--------|
| in | mm | mm | mm | mm | kg |
| 1/2 | 13 | 108 | 75 | 130 | 3.0 |
| 3/4 | 19 | 117 | 84 | 170 | 4.0 |
| 1 | 25 | 127 | 90 | 170 | 6.6 |
| 1-1/2 | 38 | 165 | 127 | 250 | 12.9 |
| 2 | 51 | 178 | 140 | 250 | 18.9 |
| 2-1/2 | 64 | 191 | 164 | 350 | 28.0 |
| 3 | 76 | 203 | 177 | 350 | 39.0 |
| 4 | 102 | 229 | 206 | 420 | 60.0 |

REDUCED BORE

Class 300

| Size | d | d1 | A | H | W | Weight |
|---------|-----|-----|-----|-----|-----|--------|
| in | mm | mm | mm | mm | mm | kg |
| 3/4x1/2 | 13 | 19 | 117 | 75 | 130 | 3.7 |
| 1x3/4 | 19 | 25 | 127 | 84 | 170 | 5.8 |
| 1-1/2x1 | 25 | 38 | 162 | 90 | 170 | 10.5 |
| 2x1-1/2 | 38 | 51 | 178 | 127 | 250 | 16.1 |
| 2-1/2x2 | 51 | 64 | 190 | 140 | 250 | 24.5 |
| 3x2 | 51 | 76 | 203 | 140 | 250 | 34.7 |
| 4x3 | 76 | 102 | 229 | 177 | 350 | 53.0 |
| 6x4 | 102 | 152 | 267 | 206 | 420 | 100.0 |

FULL BORE

Class 600

| Size | d | A | H | W | Weight |
|-------|-----|-----|-----|-----|--------|
| in | mm | mm | mm | mm | kg |
| 1/2 | 13 | 165 | 80 | 170 | 3.5 |
| 3/4 | 19 | 191 | 89 | 200 | 5.0 |
| 1 | 25 | 216 | 95 | 200 | 7.5 |
| 1-1/2 | 38 | 241 | 132 | 350 | 15.0 |
| 2 | 51 | 292 | 145 | 350 | 23.0 |
| 3 | 76 | 356 | 182 | 420 | 48.0 |
| 4 | 102 | 432 | 211 | 700 | 80.0 |

REDUCED BORE

Class 600

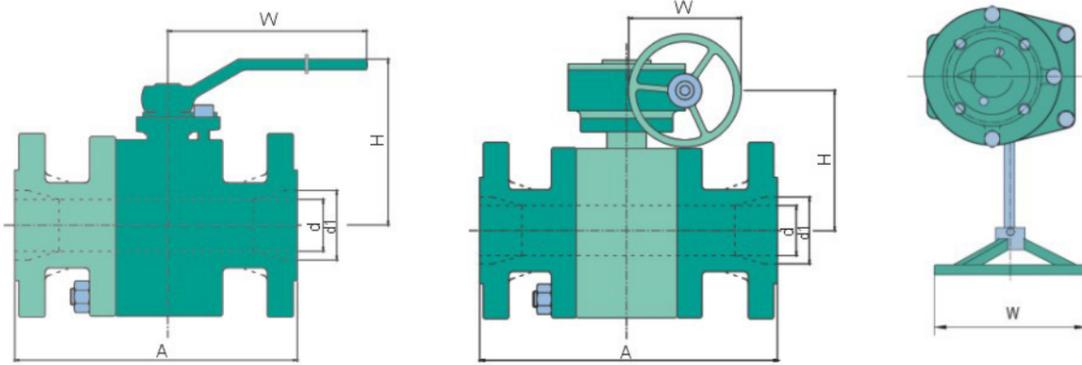
| Size | d | d1 | A | H | W | Weight |
|---------|-----|-----|-----|-----|-----|--------|
| in | mm | mm | mm | mm | mm | kg |
| 3/4x1/2 | 13 | 19 | 191 | 80 | 170 | 4.0 |
| 1x3/4 | 19 | 25 | 216 | 89 | 200 | 5.5 |
| 1-1/2x1 | 25 | 38 | 241 | 95 | 200 | 10.5 |
| 2x1-1/2 | 38 | 51 | 292 | 132 | 350 | 20.0 |
| 3x2 | 51 | 76 | 356 | 145 | 350 | 29.0 |
| 4x3 | 76 | 102 | 432 | 182 | 420 | 59.0 |
| 6x4 | 102 | 152 | 559 | 211 | 700 | 95.0 |

23'

ONERO VALVE Forged Steel Floating Ball Valve

<http://www.ouqiu.com>

DIMENSIONS AND WEIGHTS



FULL BORE

Class 900

| Size | d | A | H | W | Weight |
|-------|----|-----|-----|-----|--------|
| in | mm | mm | mm | mm | kg |
| 1/2 | 13 | 216 | 75 | 140 | 5.0 |
| 3/4 | 19 | 229 | 91 | 180 | 8.0 |
| 1 | 25 | 254 | 108 | 250 | 10.0 |
| 1-1/2 | 38 | 305 | 133 | 400 | 20.0 |
| 2 | 51 | 368 | 150 | 500 | 30.0 |
| 3 | 76 | 381 | 160 | 500 | 55.0 |

REDUCED BORE

Class 900

| Size | d | d1 | A | H | W | Weight |
|---------|----|-----|-----|-----|-----|--------|
| in | mm | mm | mm | mm | mm | kg |
| 3/4x1/2 | 13 | 19 | 229 | 75 | 140 | 7.0 |
| 1x3/4 | 19 | 25 | 254 | 91 | 180 | 9.5 |
| 1-1/2x1 | 25 | 38 | 305 | 108 | 250 | 16.5 |
| 2x1-1/2 | 38 | 51 | 368 | 133 | 400 | 23.0 |
| 3x2 | 51 | 76 | 381 | 150 | 500 | 42.0 |
| 4x3 | 76 | 102 | 457 | 160 | 500 | 65.0 |

FULL BORE

Class1500

| Size | d | A | H | W | Weight |
|-------|----|-----|-----|-----|--------|
| in | mm | mm | mm | mm | kg |
| 1/2 | 13 | 216 | 75 | 140 | 5.0 |
| 3/4 | 19 | 229 | 91 | 180 | 8.0 |
| 1 | 25 | 254 | 108 | 250 | 10.0 |
| 1-1/2 | 38 | 305 | 133 | 400 | 20.0 |
| 2 | 51 | 368 | 150 | 500 | 30.0 |
| 3 | 76 | 470 | 160 | 500 | 65.0 |

REDUCED BORE

Class 1500

| Size | d | d1 | A | H | W | Weight |
|---------|----|-----|-----|-----|-----|--------|
| in | mm | mm | mm | mm | mm | kg |
| 3/4x1/2 | 13 | 19 | 229 | 75 | 140 | 7.0 |
| 1x3/4 | 19 | 25 | 254 | 91 | 180 | 9.5 |
| 1-1/2x1 | 25 | 38 | 305 | 108 | 250 | 16.5 |
| 2x1-1/2 | 38 | 51 | 368 | 133 | 400 | 23.0 |
| 3x2 | 51 | 76 | 470 | 150 | 500 | 60.0 |
| 4x3 | 76 | 102 | 546 | 160 | 500 | 78.0 |

FULL BORE

Class 2500

| Size | d | A | H | W | Weight |
|-------|----|-----|-----|-----|--------|
| in | mm | mm | mm | mm | kg |
| 1/2 | 13 | 264 | 88 | 230 | 7.5 |
| 3/4 | 19 | 273 | 117 | 230 | 12.0 |
| 1 | 25 | 308 | 128 | 300 | 15.0 |
| 1-1/2 | 38 | 384 | 148 | 400 | 30.0 |
| 2 | 51 | 451 | 183 | 500 | 37.5 |

REDUCED BORE

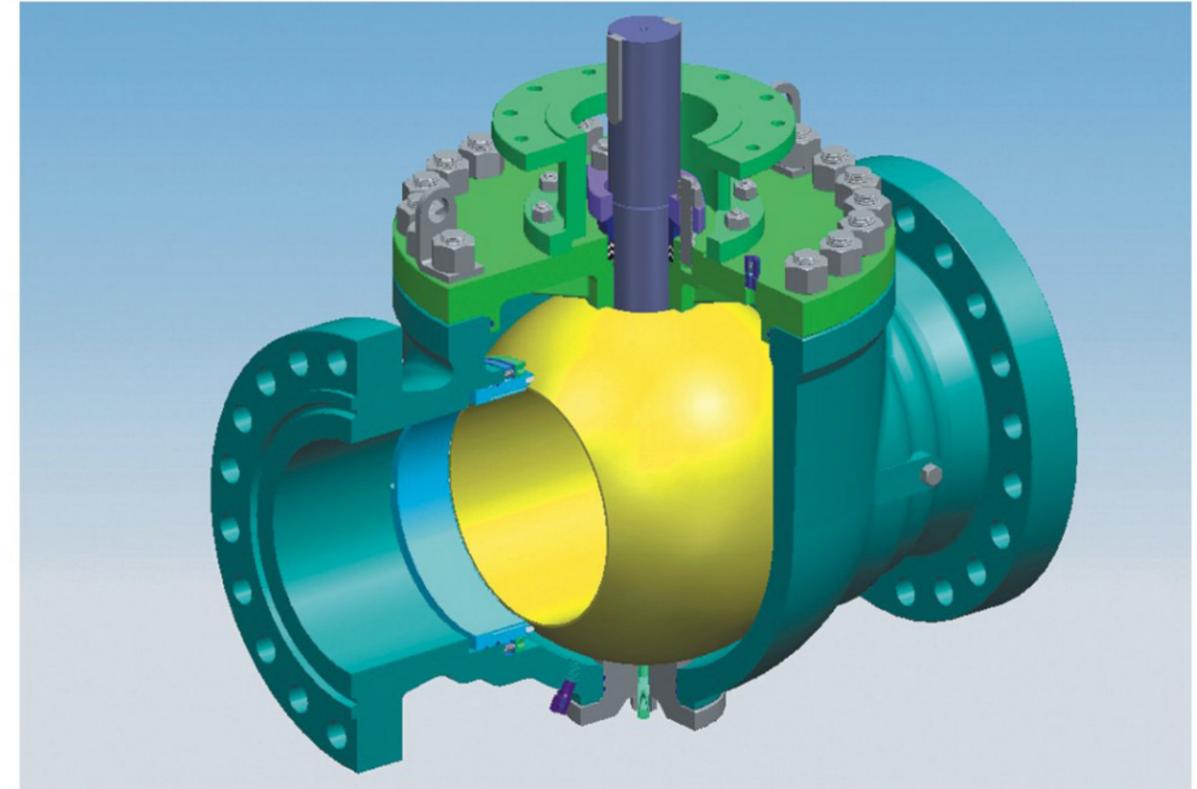
Class 2500

| Size | d | d1 | A | H | W | Weight |
|---------|----|----|-----|-----|-----|--------|
| in | mm | mm | mm | mm | mm | kg |
| 3/4x1/2 | 13 | 19 | 273 | 88 | 230 | 11.0 |
| 1x3/4 | 19 | 25 | 308 | 117 | 230 | 14.0 |
| 1-1/2x1 | 25 | 38 | 384 | 128 | 300 | 25.0 |
| 2x1-1/2 | 38 | 51 | 451 | 148 | 400 | 35.0 |
| 3x2 | 51 | 76 | 578 | 183 | 500 | 60.0 |

24'

ONERO VALVE Top Entry Cast Steel Ball Valve

<http://www.ouqiu.com>



FEATURES

| |
|---|
| Size: 2" - 24" |
| Class: 150-1500Lb |
| The Monolithic Cast Steel Body |
| Floating&Trunnion Mounted Ball, Full & Reduced Bore |
| Anti-static Device |
| Blow-out Proof Stem |
| Fire Safe Design |
| Emergency Sealant Injector |

SPECIFICATIONS

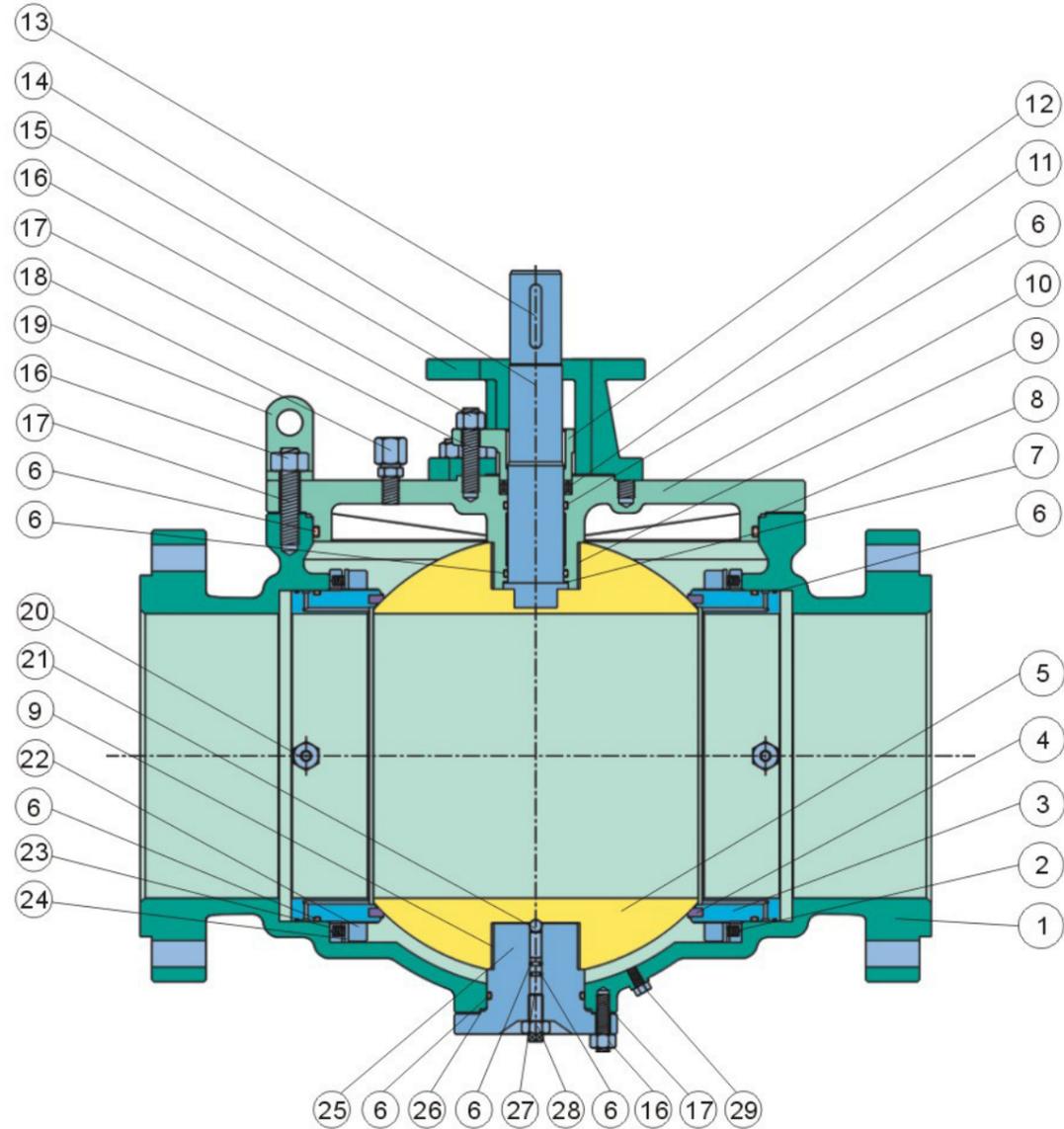
| | |
|----------------|--------------------|
| Design | ASME B16.34/API 6D |
| Face to Face | ASME B16.10 |
| End Flange | ASME B16.5 |
| BW End | ASME B16.25 |
| Test | API 598 |
| Fire Safe Test | API 607/API 6FA |
| Special | NACE MR-01-75 |

25'

ONERO VALVE

Top Entry Cast Steel Ball Valve

<http://www.ouqiu.com>



26'

ONERO VALVE

Top Entry Cast Steel Ball Valve

<http://www.ouqiu.com>

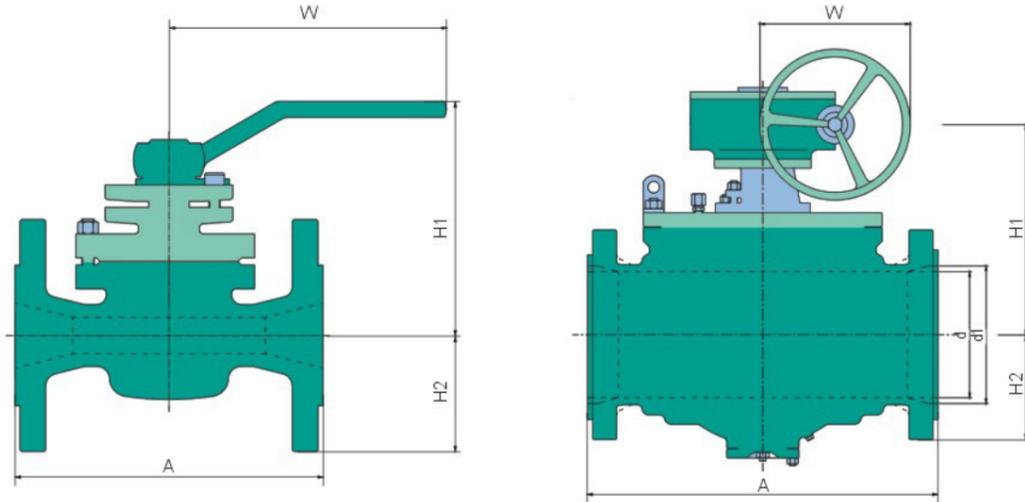
MATERIAL SPECIFICATIONS

| No. | Part | Material |
|-----|-----------------|---|
| 1 | Body | A216-WCB A352-LCB A351-CF8, CF8M, CF3, CF3M, Duplex |
| 2 | Seat Spring | Inconel X-7505 SS304 SS316 |
| 3 | Seat Ring | ASTM A105+ENP ASTM A182-F304, F316, F316L, F6, F51 |
| 4 | Seat | PTFE RPTFE PEEK PPL |
| 5 | Ball | ASTM A105+ENP ASTM A182-F6, F304, F316, F316L, F51 |
| 6 | O-ring | NBR Viton |
| 7 | Thrust Washer | PTFE |
| 8 | Body Gasket | Stainless Steel+PTFE SS316+PTFE |
| 9 | Sliding Bearing | PTFE SS304+Graphite SS316+Graphite |
| 10 | Bonnet | A216-WCB A352-LCB A351-CF8, CF8M, CF3, CF3M, Duplex |
| 11 | Packing | PTFE Graphite |
| 12 | Gland Flange | A216-WCB A351-CF8 |
| 13 | KEY | 1045 A182-F304, F316, F316L, F304L |
| 14 | Stem | A105+ENP A182-F6, F304, F316, F316L, F304L, 17-4PH, F51 |
| 15 | Yoke | A216-WCB |
| 16 | Nut | ASTM 194-2H, 2HM, 8, 8M |
| 17 | Stud | ASTM 193-B7, B7M, B8, B8M |
| 18 | Vent Valve | 1020+ZN A182-F304, F316, F316L |
| 19 | Lifting Lug | 1020 |
| 20 | Seat Inection | 1020+ZN A182-F304, F316, F316L |
| 21 | Steel Ball | Stainless Steel |
| 22 | Adjusting Ring | 1045+N A182-F304, F316, F316L |
| 23 | Seat Spring | 1045+N A182-F304, F316, F316L |
| 24 | Steel Gasket | 1045+N A182-F304, F316, F316L1 |
| 25 | Trunnion | A105+ENP A182-F6, F304, F316, F316L, F304L, 17-4PH, F51 |
| 26 | Trunnion Gasket | PTFE SS304+Graphite |
| 27 | Adjusting Nut | ASTM A194-2H, 8 |
| 28 | Adjusting Stud | A182-F6,F304 |
| 29 | Drain Valve | 1020+ZN A182-F304, F316, F316L |

*Recommended Spare Parts

ONERO VALVE Top Entry Cast Steel Ball Valve
http://www.ouqiu.com

DIMENSIONS AND WEIGHTS



FULL BORE Class 150

| Size | d | A | H1 | H2 | W | Weight |
|------|-----|------|-----|-----|------|--------|
| in | mm | mm | mm | mm | mm | kg |
| 2 | 51 | 292 | 170 | 76 | 285 | 46 |
| 3 | 76 | 356 | 210 | 95 | 285 | 83 |
| 4 | 102 | 432 | 250 | 115 | 400 | 156 |
| 6 | 152 | 559 | 265 | 140 | *400 | 256 |
| 8 | 203 | 660 | 355 | 172 | *400 | 453 |
| 10 | 254 | 787 | 385 | 203 | *600 | 622 |
| 12 | 305 | 838 | 400 | 242 | *600 | 747 |
| 14 | 337 | 889 | 450 | 267 | *600 | 959 |
| 16 | 387 | 991 | 510 | 299 | *600 | 1220 |
| 18 | 438 | 1092 | 565 | 318 | *600 | 1640 |
| 20 | 489 | 1194 | 620 | 349 | *600 | 2118 |
| 24 | 591 | 1397 | 680 | 407 | *700 | 2950 |

REDUCED BORE Class 150

| Size | d | d1 | A | H1 | H2 | W | Weight |
|---------|-----|-----|------|-----|-----|------|--------|
| in | mm | mm | mm | mm | mm | mm | kg |
| 2x1-1/2 | 38 | 51 | 292 | 165 | 76 | 265 | 41 |
| 3x2 | 51 | 76 | 356 | 170 | 95 | 285 | 58 |
| 4x3 | 76 | 102 | 432 | 210 | 115 | 285 | 104 |
| 6x4 | 102 | 152 | 559 | 250 | 140 | 400 | 228 |
| 8x6 | 152 | 203 | 660 | 265 | 172 | *400 | 320 |
| 10x8 | 203 | 254 | 787 | 355 | 203 | *400 | 536 |
| 12x10 | 254 | 305 | 838 | 385 | 242 | *600 | 685 |
| 14x12 | 305 | 337 | 889 | 400 | 267 | *600 | 840 |
| 16x14 | 337 | 387 | 991 | 450 | 299 | *600 | 1070 |
| 18x16 | 387 | 438 | 1092 | 510 | 318 | *600 | 1430 |
| 20x18 | 438 | 489 | 1194 | 565 | 349 | *600 | 1850 |
| 24x20 | 489 | 591 | 1397 | 620 | 407 | *600 | 2450 |

*Gear Operated

FULL BORE Class 300

| Size | d | A | H1 | H2 | W | Weight |
|------|-----|------|-----|-----|------|--------|
| in | mm | mm | mm | mm | mm | kg |
| 2 | 51 | 292 | 170 | 83 | 285 | 49 |
| 3 | 76 | 356 | 210 | 105 | 285 | 87 |
| 4 | 102 | 432 | 250 | 127 | 400 | 164 |
| 6 | 152 | 559 | 265 | 159 | *400 | 272 |
| 8 | 203 | 660 | 355 | 191 | *500 | 479 |
| 10 | 254 | 787 | 385 | 222 | *600 | 657 |
| 12 | 305 | 838 | 400 | 261 | *600 | 783 |
| 14 | 337 | 889 | 450 | 292 | *600 | 1007 |
| 16 | 387 | 991 | 510 | 324 | *600 | 1281 |
| 18 | 438 | 1092 | 565 | 356 | *700 | 1722 |
| 20 | 489 | 1194 | 620 | 388 | *700 | 2224 |
| 24 | 591 | 1397 | 680 | 457 | *760 | 3100 |

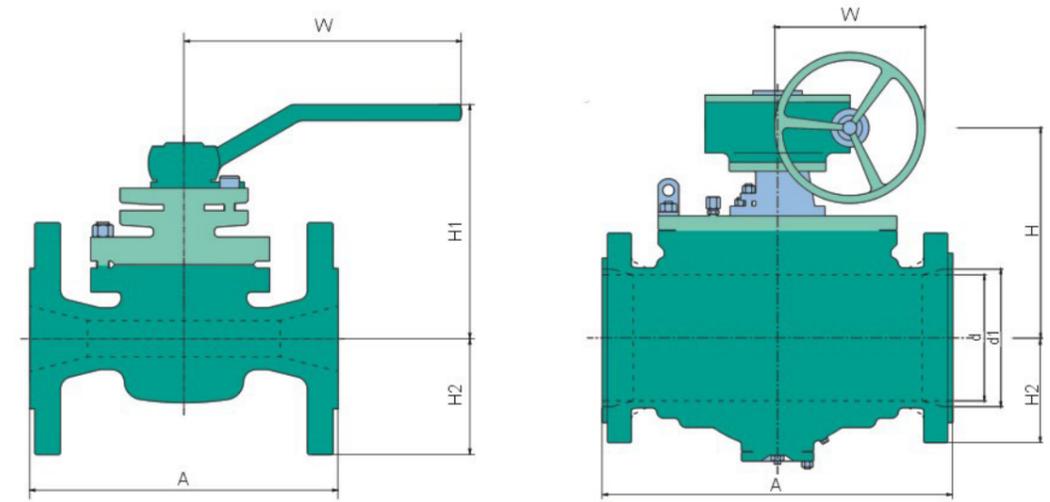
REDUCED BORE Class 300

| Size | d | d1 | A | H1 | H2 | W | Weight |
|---------|-----|-----|------|-----|-----|------|--------|
| in | mm | mm | mm | mm | mm | mm | kg |
| 2x1-1/2 | 38 | 51 | 292 | 165 | 83 | 265 | 44 |
| 3x2 | 51 | 76 | 356 | 170 | 105 | 285 | 62 |
| 4x3 | 76 | 102 | 432 | 210 | 127 | 285 | 110 |
| 6x4 | 102 | 152 | 559 | 250 | 159 | 400 | 243 |
| 8x6 | 152 | 203 | 660 | 265 | 191 | *400 | 343 |
| 10x8 | 203 | 254 | 787 | 355 | 222 | *400 | 559 |
| 12x10 | 254 | 305 | 838 | 385 | 261 | *600 | 725 |
| 14x12 | 305 | 337 | 889 | 400 | 292 | *600 | 890 |
| 16x14 | 337 | 387 | 991 | 450 | 324 | *600 | 1120 |
| 18x16 | 387 | 438 | 1092 | 510 | 356 | *600 | 1480 |
| 20x18 | 438 | 489 | 1194 | 565 | 388 | *700 | 1960 |
| 24x20 | 489 | 591 | 1397 | 620 | 457 | *760 | 2650 |

*Gear Operated

ONERO VALVE Top Entry Cast Steel Ball Valve
http://www.ouqiu.com

DIMENSIONS AND WEIGHTS



FULL BORE Class 600

| Size | d | A | H1 | H2 | W | Weight |
|------|-----|-----|-----|-----|------|--------|
| in | mm | mm | mm | mm | mm | kg |
| 2 | 51 | 292 | 180 | 83 | 285 | 52 |
| 3 | 76 | 356 | 220 | 105 | 285 | 92 |
| 4 | 102 | 432 | 260 | 137 | 400 | 173 |
| 6 | 152 | 559 | 275 | 175 | *400 | 285 |
| 8 | 203 | 660 | 370 | 210 | *400 | 504 |
| 10 | 254 | 787 | 398 | 254 | *600 | 680 |
| 12 | 305 | 838 | 410 | 280 | *700 | 819 |

REDUCED BORE Class 600

| Size | d | d1 | A | H1 | H2 | W | Weight |
|---------|-----|-----|-----|-----|-----|------|--------|
| in | mm | mm | mm | mm | mm | mm | kg |
| 2x1-1/2 | 38 | 51 | 292 | 174 | 83 | 285 | 46 |
| 3x2 | 51 | 76 | 356 | 180 | 105 | 285 | 74 |
| 4x3 | 76 | 102 | 432 | 220 | 137 | 760 | 120 |
| 6x4 | 102 | 152 | 559 | 260 | 178 | 1140 | 249 |
| 8x6 | 152 | 203 | 660 | 275 | 210 | *500 | 380 |
| 10x8 | 203 | 254 | 787 | 370 | 254 | *600 | 587 |
| 12x10 | 254 | 305 | 838 | 398 | 280 | *600 | 752 |

*Gear Operated

FULL BORE Class 900

| Size | d | A | H1 | H2 | W | Weight |
|------|-----|-----|-----|-----|------|--------|
| in | mm | mm | mm | mm | mm | kg |
| 2 | 51 | 368 | 190 | 108 | 760 | 60 |
| 3 | 76 | 381 | 230 | 121 | 1140 | 100 |
| 4 | 102 | 457 | 270 | 146 | *400 | 204 |
| 6 | 152 | 610 | 320 | 191 | *500 | 420 |
| 8 | 203 | 737 | 375 | 235 | *600 | 644 |
| 10 | 254 | 838 | 440 | 273 | *700 | 943 |
| 12 | 305 | 965 | 498 | 305 | *700 | 1295 |

REDUCED BORE Class 900

| Size | d | d1 | A | H1 | H2 | W | Weight |
|---------|-----|-----|-----|-----|-----|------|--------|
| in | mm | mm | mm | mm | mm | mm | kg |
| 2x1-1/2 | 38 | 51 | 368 | 182 | 108 | 760 | 54 |
| 3x2 | 51 | 76 | 381 | 190 | 121 | 760 | 80 |
| 4x3 | 76 | 102 | 457 | 230 | 146 | 1140 | 148 |
| 6x4 | 102 | 152 | 610 | 270 | 191 | *400 | 305 |
| 8x6 | 152 | 203 | 737 | 320 | 235 | *500 | 552 |
| 10x8 | 203 | 254 | 838 | 375 | 273 | *600 | 748 |
| 12x10 | 254 | 305 | 965 | 440 | 305 | *700 | 1048 |

*Gear Operated

FULL BORE Class 1500

| Size | d | A | H1 | H2 | W | Weight |
|------|-----|------|-----|-----|------|--------|
| in | mm | mm | mm | mm | mm | kg |
| 2 | 51 | 368 | 195 | 108 | 760 | 69 |
| 3 | 76 | 470 | 233 | 134 | *400 | 133 |
| 4 | 102 | 546 | 276 | 156 | *500 | 253 |
| 6 | 146 | 705 | 324 | 197 | *600 | 667 |
| 8 | 194 | 832 | 397 | 242 | *700 | 865 |
| 10 | 241 | 991 | 462 | 292 | *700 | 1375 |
| 12 | 289 | 1130 | 493 | 337 | *760 | 2175 |

REDUCED BORE Class 1500

| Size | d | d1 | A | H1 | H2 | W | Weight |
|---------|-----|-----|------|-----|-----|------|--------|
| in | mm | mm | mm | mm | mm | mm | kg |
| 2x1-1/2 | 38 | 51 | 368 | 189 | 108 | 760 | 63 |
| 3x2 | 51 | 76 | 470 | 195 | 134 | 760 | 95 |
| 4x3 | 76 | 102 | 546 | 233 | 156 | *400 | 183 |
| 6x4 | 102 | 146 | 705 | 276 | 197 | *500 | 359 |
| 8x6 | 146 | 194 | 832 | 324 | 242 | *600 | 794 |
| 10x8 | 194 | 241 | 991 | 397 | 292 | *700 | 1070 |
| 12x10 | 241 | 289 | 1130 | 462 | 337 | *700 | 1541 |

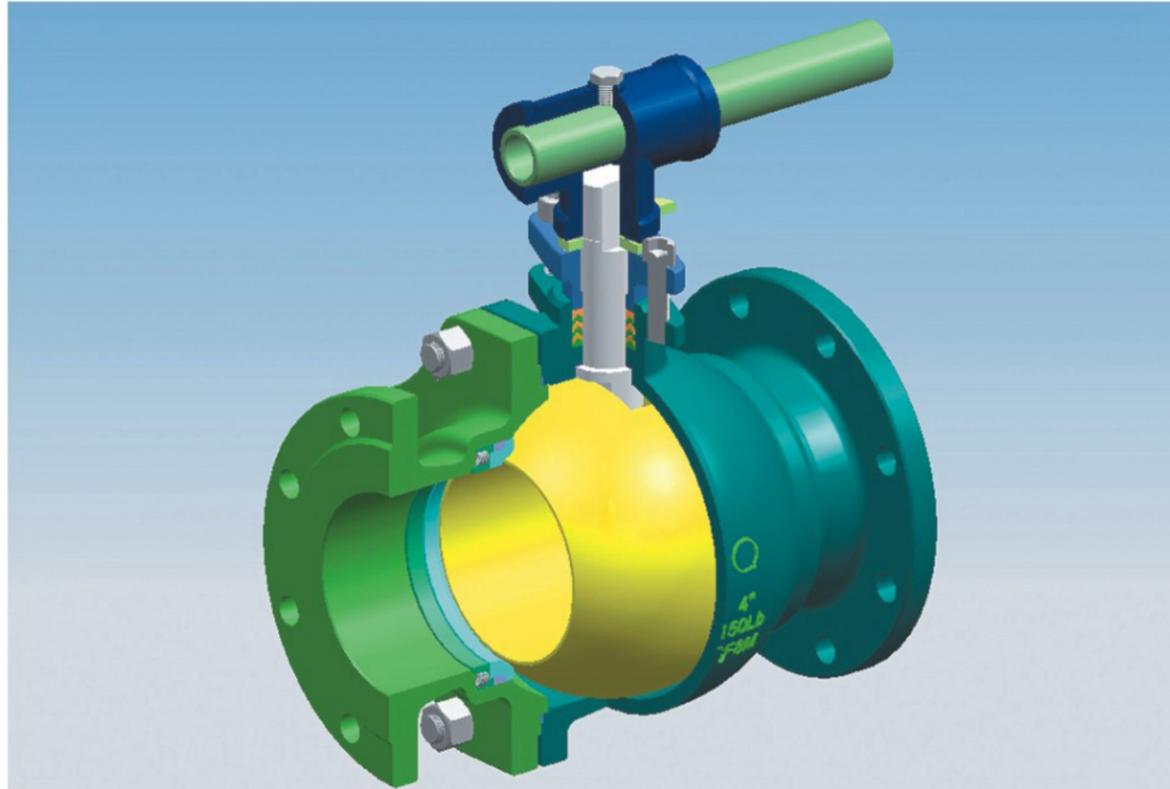
*Gear Operated

29'

ONERO VALVE

Metal to Metal Seat Ball Valve

<http://www.ouqiu.com>



High Temperature Service

General soft seat ball valves working temperature is limited up to 400° F, but metal-seat ball valves are guaranteed for a maximum service temperature of 800° F.

Low Pressure Reliable Sealing

ONERO metal-seat ball valves adopt seat spring structure, which can push upstream seat tightly against the ball surface creating a reliable sealing even if extremely low pressure

Pressure Test

Metal-seat ball valves maximum allowable seat leakage:

Air: ANSI/FC170-2 Class V

Absolute Fire Safe Guarantee

ONERO metal-seated ball valves are absolute fire safe design. Metal-to-metal contact is designed between ball and seat, where is unconditional fire safe function. Flexible graphite gasket can prevent fluid leakage from between body & seat or body & bonnet even if high temperature environments to reach fire-safe purpose. In addition, other sealing components such as stem packing can also reach fire-safe function and prevent external leakage. So all parts of the valve will not be damaged by high temperature service.

Blow-out Proof Stem & Anti-Static Device

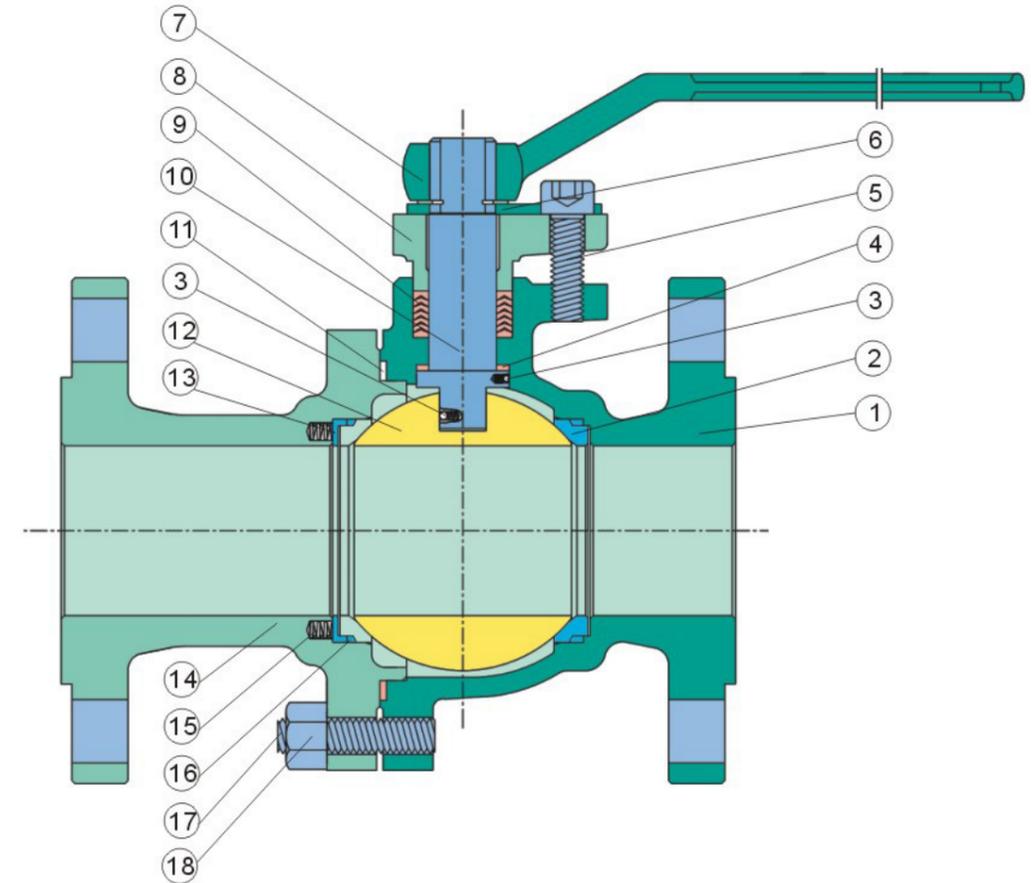
As general ball valves, metal-seated ball valves are provided with blow-out proof stem & anti-static device.

30'

ONERO VALVE

Metal to Metal Seat Ball Valve

<http://www.ouqiu.com>



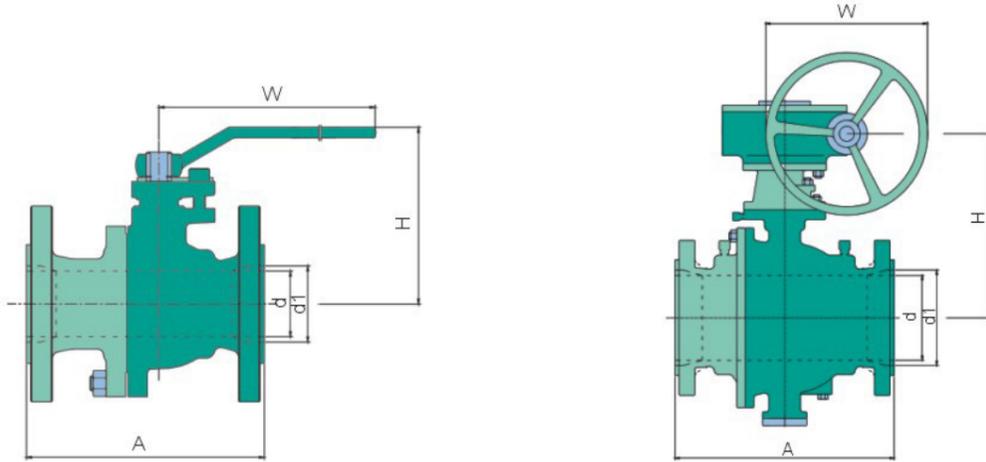
MATERIAL SPECIFICATIONS

| No. | Part | Material |
|-----|-------------------|---|
| 1 | Body | A216-WCB A352-LCB A351-CF8, CF8M, CF3, CF3M, Duplex |
| 2 | Seat | ASTM A182-F6+STL, F304+STL, F316+STL, F316L+STL |
| 3 | Antistatic Spring | Stainless Steel Ss316 |
| 4 | Thrust Washer | PTFE PPL |
| 5 | Screw | ASTM A193-B7, B8 |
| 6 | Limited Plate | 1015+Cr Carbon Steel+Cr |
| 7 | Lever | A216-WCB |
| 8 | Gland Flange | A216-WCB A351-CF8 |
| 9 | Packing | Graphite PTFE |
| 10 | Stem | A182-F6, F304, F316, F316L, F304L, 17-4PH, F51 |
| 11 | Body Gasket | Stainless Steel+PTFE SS316+PTFE |
| 12 | Ball | ASTM A182-F6+N, F304+N, F316+N, F304L, NF51+N |
| 13 | Seat Gasket | ASTM A182-F6, F304+, F316, F316L |
| 14 | Bonnet | A216-WCB A352-LCB A351-CF8, CF8M, CF3, CF3M, |
| 15 | Seat Spring | Inconel X-7505 SS304 Ss316 |
| 16 | Seat Sealing | Graphite |
| 17 | Stud | ASTM 193-B7, B7M, B8, B8M |
| 18 | Nut | ASTM 194-2H, 2HM, 8, 8M |

*Recommended Spare Parts

ONERO VALVE Metal to Metal Seat Ball Valve
<http://www.ouqiu.com>

DIMENSIONS AND WEIGHTS



FULL BORE Class 150

| Size | d | A | H | W | Weight |
|-------|-----|-----|-----|-------|--------|
| in | mm | mm | mm | mm | kg |
| 1/2 | 13 | 108 | 75 | 130 | 2.3 |
| 3/4 | 19 | 117 | 84 | 170 | 2.5 |
| 1 | 25 | 127 | 90 | 170 | 3.5 |
| 1-1/2 | 38 | 165 | 127 | 250 | 7.3 |
| 2 | 51 | 178 | 140 | 250 | 9.8 |
| 2-1/2 | 64 | 190 | 164 | 350 | 15 |
| 3 | 76 | 203 | 177 | 350 | 18 |
| 4 | 102 | 229 | 206 | 420 | 33 |
| 5 | 125 | 256 | 292 | 700 | 57 |
| 6 | 152 | 394 | 320 | *1000 | 66 |
| 8 | 203 | 457 | 398 | *320 | 170 |
| 10 | 254 | 533 | 495 | *350 | 255 |
| 12 | 305 | 610 | 580 | *400 | 390 |
| 14 | 337 | 686 | 625 | *500 | 510 |
| 16 | 387 | 762 | 720 | *500 | 820 |
| 18 | 438 | 864 | 770 | *500 | 1010 |
| 20 | 489 | 914 | 840 | *500 | 1828 |

REDUCED BORE Class 150

| Size | d | d1 | A | H | W | Weight |
|---------|-----|-----|------|-----|-------|--------|
| in | mm | mm | mm | mm | mm | kg |
| 3/4x1/2 | 13 | 19 | 117 | 75 | 130 | 2.7 |
| 1x3/4 | 19 | 25 | 127 | 84 | 170 | 3.0 |
| 1-1/2x1 | 25 | 38 | 165 | 90 | 170 | 4.3 |
| 2x1-1/2 | 38 | 51 | 178 | 127 | 250 | 9.5 |
| 2-1/2x2 | 51 | 64 | 191 | 140 | 250 | 12 |
| 3x2 | 51 | 76 | 203 | 140 | 250 | 16.5 |
| 4x3 | 76 | 102 | 229 | 177 | 350 | 24 |
| 6x4 | 102 | 152 | 394 | 206 | 420 | 43 |
| 8x6 | 152 | 203 | 457 | 320 | *1000 | 85.5 |
| 10x8 | 203 | 254 | 533 | 398 | *320 | 214 |
| 12x10 | 254 | 305 | 610 | 495 | *350 | 284 |
| 14x12 | 305 | 337 | 686 | 580 | *400 | 418 |
| 16x14 | 337 | 387 | 762 | 625 | *500 | 612 |
| 18x16 | 387 | 438 | 864 | 720 | *500 | 970 |
| 20x18 | 428 | 489 | 914 | 770 | *500 | 1137 |
| 24x20 | 489 | 591 | 1067 | 840 | *500 | 2000 |

*Trunnion Mounted Gear Operated

FULL BORE Class 300

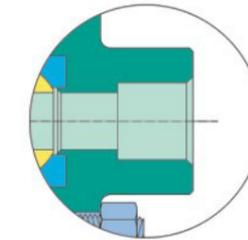
| Size | d | A | H | W | Weight |
|-------|-----|------|-----|------|--------|
| in | mm | mm | mm | mm | kg |
| 1/2 | 13 | 140 | 75 | 130 | 3.5 |
| 3/4 | 19 | 152 | 84 | 170 | 4.2 |
| 1 | 25 | 165 | 90 | 170 | 5.8 |
| 1-1/2 | 38 | 191 | 127 | 250 | 10.5 |
| 2 | 51 | 216 | 140 | 250 | 14 |
| 2-1/2 | 64 | 241 | 164 | 350 | 19 |
| 3 | 76 | 283 | 177 | 350 | 31 |
| 4 | 102 | 305 | 206 | 420 | 54 |
| 6 | 152 | 403 | 305 | *280 | 135 |
| 8 | 203 | 502 | 398 | *320 | 210 |
| 10 | 254 | 568 | 495 | *350 | 391 |
| 12 | 305 | 648 | 580 | *400 | 550 |
| 14 | 337 | 762 | 625 | *500 | 710 |
| 16 | 387 | 838 | 720 | *500 | 1250 |
| 18 | 438 | 914 | 770 | *500 | 1300 |
| 20 | 489 | 991 | 840 | *500 | 2180 |
| 24 | 591 | 1143 | 920 | *600 | 2930 |

REDUCED BORE Class 300

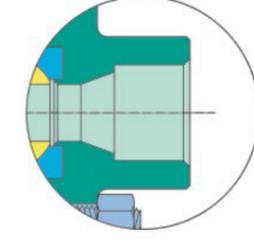
| Size | d | d1 | A | H | W | Weight |
|---------|-----|-----|------|-----|------|--------|
| in | mm | mm | mm | mm | mm | kg |
| 3/4x1/2 | 13 | 19 | 152 | 75 | 130 | 4.0 |
| 1x3/4 | 19 | 25 | 165 | 84 | 170 | 5.0 |
| 1-1/2x1 | 25 | 38 | 190 | 90 | 170 | 7.0 |
| 2x1-1/2 | 38 | 51 | 216 | 127 | 250 | 12 |
| 2-1/2x2 | 51 | 64 | 241 | 140 | 250 | 17 |
| 3x2 | 51 | 76 | 283 | 140 | 250 | 21.5 |
| 4x3 | 76 | 102 | 305 | 177 | 350 | 37 |
| 6x4 | 102 | 152 | 403 | 206 | 420 | 66 |
| 8x6 | 152 | 203 | 502 | 305 | *280 | 164 |
| 10x8 | 203 | 254 | 568 | 398 | *320 | 350 |
| 12x10 | 254 | 305 | 648 | 495 | *350 | 400 |
| 14x12 | 305 | 337 | 762 | 580 | *400 | 590 |
| 16x14 | 337 | 387 | 838 | 625 | *500 | 850 |
| 18x16 | 387 | 438 | 914 | 720 | *500 | 1220 |
| 20x18 | 428 | 489 | 991 | 770 | *500 | 1460 |
| 24x20 | 489 | 591 | 1143 | 840 | *500 | 2220 |

*Trunnion Mounted Gear Operated

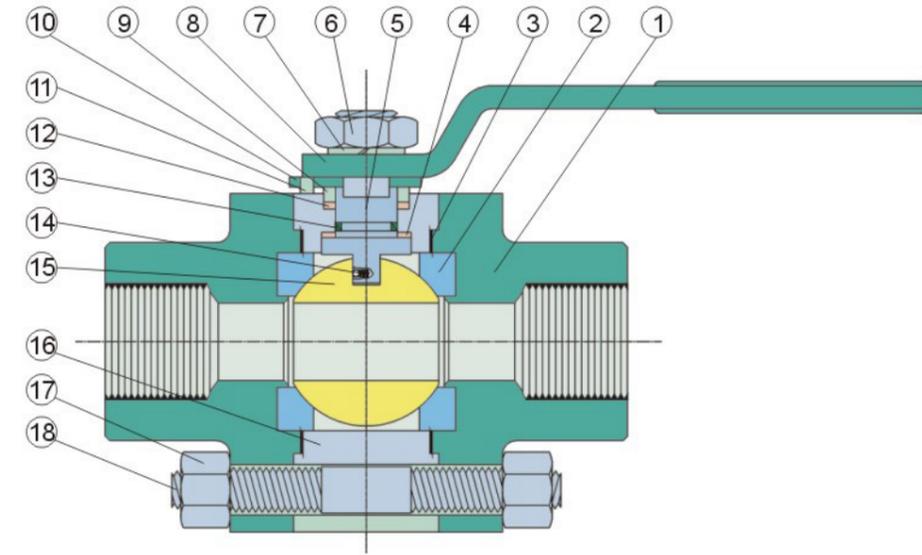
ONERO VALVE Small Sizes Forged Steel Floating Ball Valve
<http://www.ouqiu.com>



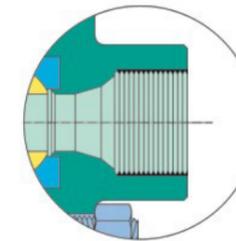
Full Bore Socket Welding End



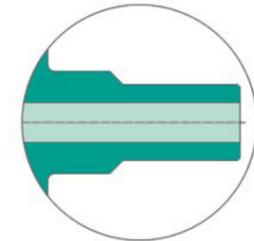
Reduced Bore Socket Welding



Full Bore Screwed End



Reduced Bore Screwed End



Extended Bonnet(nipple)

FEATURES

| |
|----------------------------------|
| Size: 1/4 " -2 " |
| Class:800Lb-2500Lb |
| Three, Two-Pieces Forged Body |
| Floating Type, Full&Reduced Bore |
| Blow-out Proof Stem |
| Fire Safe Design |

SPECIFICATIONS

| | |
|----------------|-----------------------|
| Design | ASME B16.34/BS 5351 |
| Face to Face | Manufacturer Standard |
| Screwed End | ASME B1.20.1 |
| SW, BW, End | ASME B16.11 |
| Test | API 598 |
| Fire Safe Test | API 607/API 6FA |

33'

ONERO VALVE

Small Sizes Forged Steel Floating Ball Valve

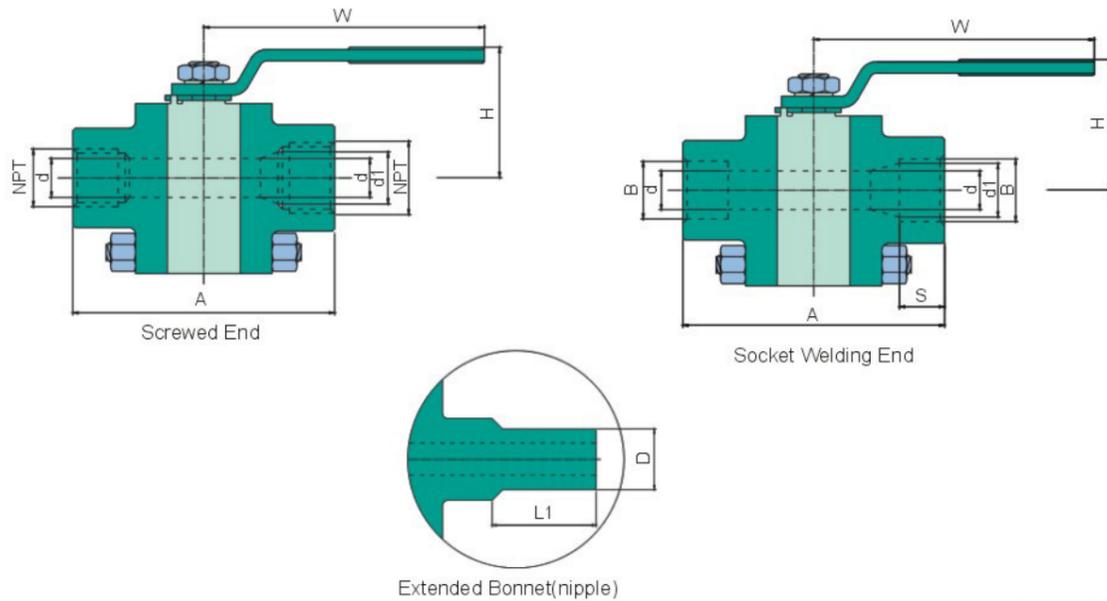
<http://www.ouqiu.com>

MATERIAL SPECIFICATIONS

| No. | Part | Material |
|-----|-------------------|---|
| 1 | Bonnet | ASTM A105+ENP A182-F6, F304, F316, F316L, F304L, F51 |
| 2 | Seat | PTFE RTPFE PEEK PPL |
| 3 | Body Gasket | PTFE Graphite |
| 4 | Thrust Washer | A105+ENP A182-F6, F304, F316, F316L, F304L, 17-4PH, F51 |
| 5 | Stem | Stainless Steel |
| 6 | Stop Nut | Carbon Steel |
| 7 | Spring Gasket | A216-WCB 1025+Cr |
| 8 | Lever | ASTM A182-F304, F316 |
| 9 | Backup Ring | 1015+Cr Carbon Steel+Cr |
| 10 | Limited Plate | Stainless Steel |
| 11 | Positioning Pin | PTFE Graphite |
| 12 | Packing | PTFE |
| 13 | "O"-ring | NBR Viton |
| 14 | Antistatic Spring | Stainless Steel SS316 |
| 15 | Ball | ASTM A105+ENP ASTM A182-F6, F304, F316, F316L, F51 |
| 16 | Body | ASTM A105+ENP A182-F6, F304, F316, F316L, F304L, F51 |
| 17 | Stud | ASTM A193-B7, B7M, B8, B8M |
| 18 | Nut | ASTM A194-2H, 2HM, 8, 8M |

*Recommended Spare Parts

DIMENSIONS AND WEIGHTS



Class 800/2500

| Size | d | d1 | A | B | S | NPT | H | W | L1 | D | Weight |
|-------|----|----|-----|------|------|--------|-----|-----|---------------|------|--------|
| in | mm | mm | mm | mm | mm | in | mm | mm | mm | in | kg |
| 1/2 | 10 | 14 | 92 | 21.8 | 9.6 | 1/2" | 65 | 130 | AS REQUEST | 21.3 | 1.7 |
| 3/4 | 14 | 18 | 111 | 27.2 | 12.7 | 3/4" | 75 | 160 | | 26.9 | 2.5 |
| 1 | 18 | 24 | 127 | 33.9 | 12.7 | 1" | 80 | 220 | | 33.7 | 4.5 |
| 1-1/4 | 24 | 30 | 140 | 42.7 | 12.7 | 1-1/4" | 100 | 250 | | 42.4 | 7 |
| 1-1/2 | 30 | 38 | 152 | 48.8 | 12.7 | 1-1/2" | 110 | 250 | | 48.3 | 8.8 |
| 2 | 38 | 48 | 152 | 61.2 | 15.7 | 2" | 125 | 290 | 60.3 | 10 | |

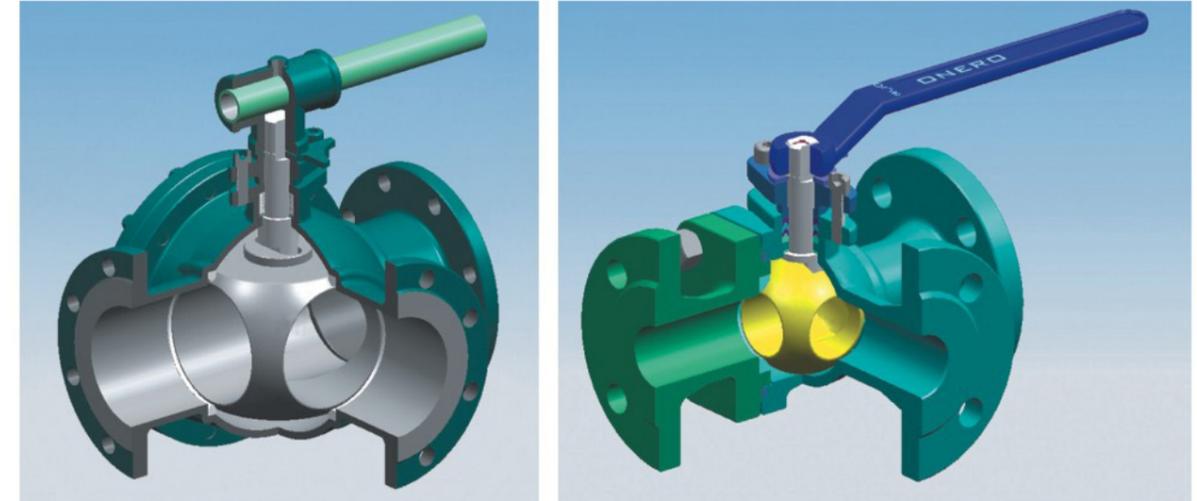
Note:butt Welding End is on request

34'

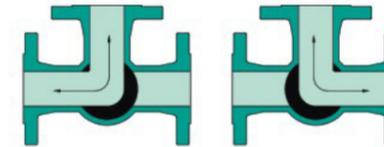
ONERO VALVE

Three-Way Ball valve

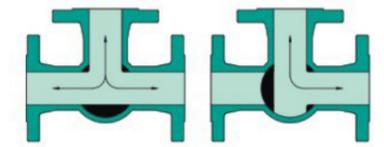
<http://www.ouqiu.com>



Flow Graph A

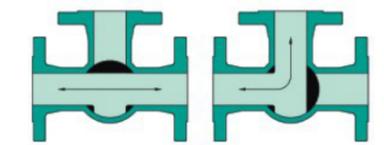


Flow Graph B

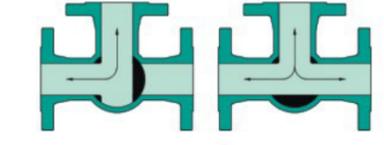
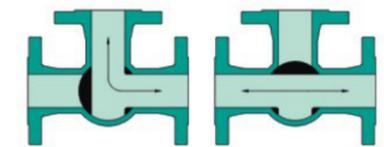


①

②



③



④

FEATURES

| |
|--------------------------------------|
| Size: 1/2" -8" |
| Class:150~300Lb |
| The monolithic &Two Pieces Cast Body |
| Floating Ball Full Bore |
| Blow-out Proof Stem |

SPECIFICATIONS

| | |
|--------------|-----------------------|
| Design | API 6D ASME B16.34 |
| Face to Face | Manufacturer Standard |
| End to End | ASME B16.5 |
| Test | API 598 |

35'

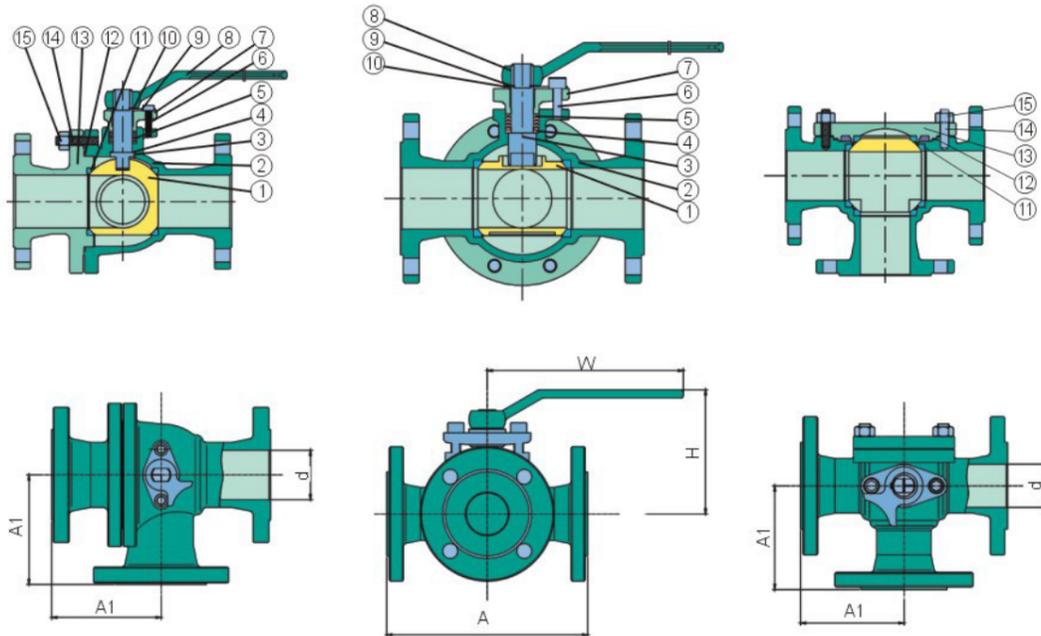
ONERO VALVE

Three-Way Ball valve

<http://www.ouqiu.com>

MATERIAL SPECIFICATIONS

| No. | Part | Material |
|-----|---------------|---|
| 1 | Ball | A351-CF8, CF8M, CF3, CF3M, Duplex |
| 2 | Body | A216-WCB A352-LCB A351-CF8, CF8M, CF3, CF3M, Duplex |
| 3 | Stem | A105+NEP A182-F6, F304, F316, F316L, F304L, 17-4PH, F51 |
| 4 | Thrust Washer | PTFE |
| 5 | Packing | PTFE Graphite |
| 6 | Screw | ASTM A193-B7, B8 |
| 7 | Gland Flange | A216-WCB A351-CF8 |
| 8 | Lever | A216-WCB |
| 9 | Limited Plate | 1015+Cr Carbon Steel+Cr |
| 10 | Retainer | Carbon Steel |
| 11 | Seat | PTFE RPTFE PEEK PPL |
| 12 | Body Gasket | Stainless Steel+PTFE SS316+PTFE |
| 13 | Bonnet | A216-WCB A352-LCB A351-CF8, CF8M, CF3, CF3M, Duplex |
| 14 | Stud | ASTM 193-B7, B7M, B8, B8M |
| 15 | Nut | ASTM 194-2H, 2HM, 8, 8M |



DIMENSION

Class 150/300

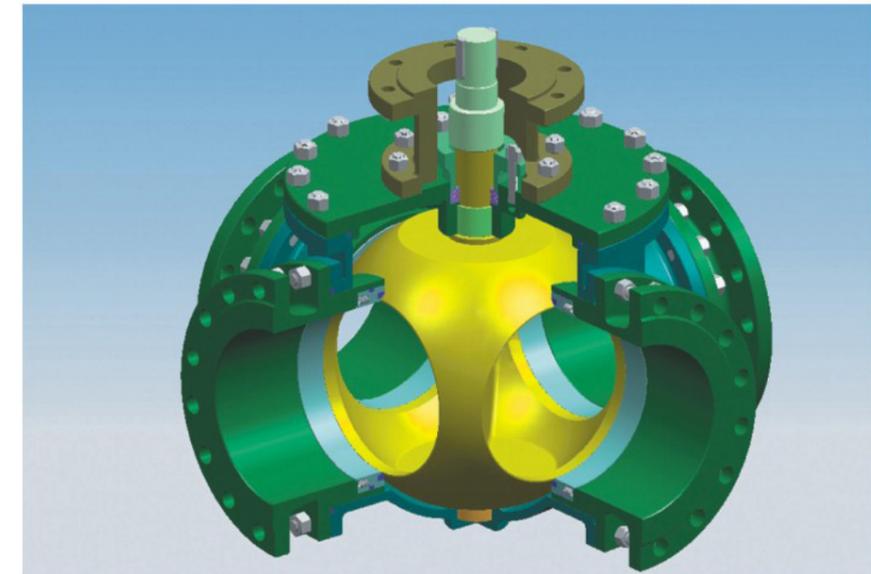
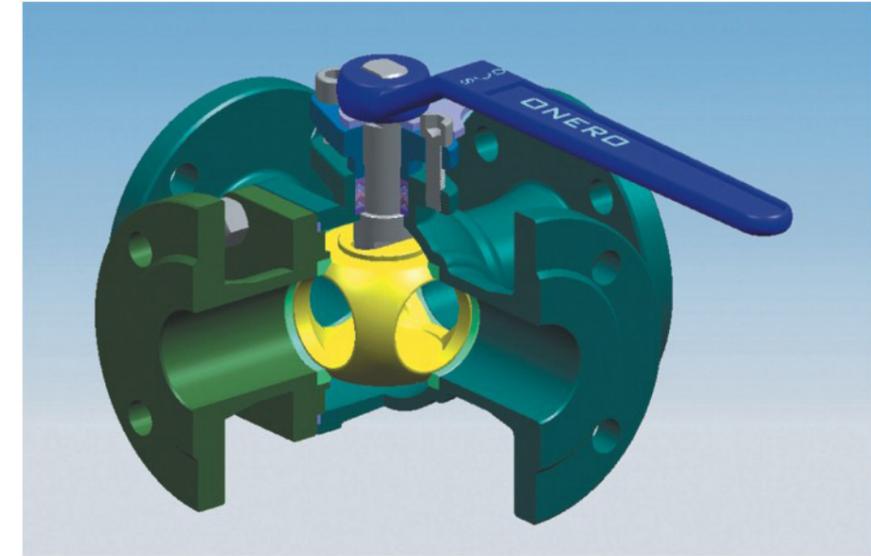
| Size | d | A | A1 | H | W |
|--------|-----|-----|-----|-----|------|
| 1/2" | 14 | 150 | 75 | 90 | 140 |
| 3/4" | 19 | 150 | 75 | 90 | 140 |
| 1" | 25 | 180 | 90 | 102 | 155 |
| 1-1/4" | 38 | 200 | 100 | 115 | 250 |
| 1-1/2" | 48 | 220 | 110 | 135 | 250 |
| 2" | 50 | 240 | 120 | 140 | 350 |
| 2-1/2" | 65 | 260 | 130 | 155 | 350 |
| 3" | 78 | 280 | 140 | 185 | 420 |
| 4" | 100 | 320 | 160 | 210 | 700 |
| 5" | 125 | 380 | 190 | 270 | 1000 |
| 6" | 148 | 440 | 220 | 305 | 1300 |
| 8" | 198 | 550 | 275 | 335 | 1800 |

36'

ONERO VALVE

Four-Way Ball valve

<http://www.ouqiu.com>



FEATURES

| |
|-------------------------------------|
| Size: 1/2" - 20" |
| Class: 150-300Lb |
| Two pieces & Multi-pieces Cast Body |
| Blow-out Proof Stem |

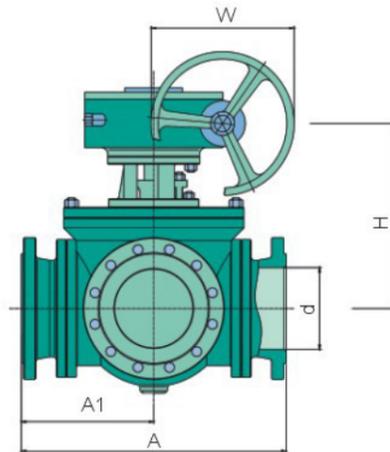
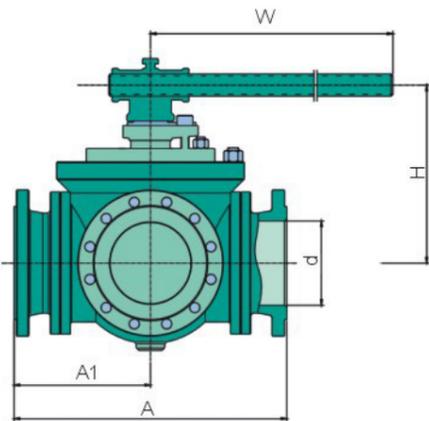
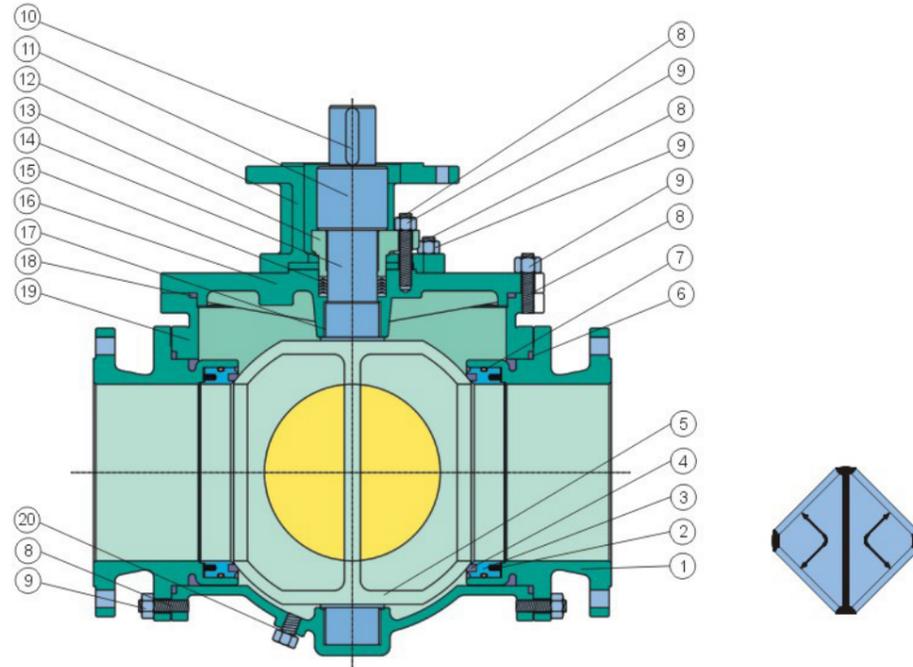
SPECIFICATIONS

| | |
|--------------|-----------------------|
| Design | API 6D ASME B16.34 |
| Face to Face | Manufacturer Standard |
| End to End | ASME B16.5 |
| Test | API 598 |

37'

ONERO VALVE

Four-Way Ball valve
<http://www.ouqiu.com>



DIMENSION

Class 150/300

| Size | d | A | A1 | H | W |
|--------|-----|------|-----|-----|------|
| 1/2" | 14 | 150 | 75 | 90 | 140 |
| 3/4" | 19 | 150 | 75 | 90 | 140 |
| 1" | 25 | 180 | 90 | 102 | 155 |
| 1-1/4" | 38 | 200 | 100 | 115 | 250 |
| 1-1/2" | 48 | 220 | 110 | 135 | 250 |
| 2" | 50 | 240 | 120 | 140 | 350 |
| 2-1/2" | 65 | 260 | 130 | 155 | 350 |
| 3" | 78 | 280 | 140 | 185 | 420 |
| 4" | 100 | 320 | 160 | 210 | 700 |
| 5" | 125 | 380 | 190 | 270 | 1000 |
| 6" | 148 | 440 | 220 | 305 | 1300 |
| 8" | 198 | 550 | 275 | 335 | 1800 |
| 10" | 248 | 730 | 365 | 480 | *350 |
| 12" | 298 | 850 | 425 | 510 | *400 |
| 14" | 337 | 980 | 490 | 560 | *500 |
| 16" | 387 | 1100 | 550 | 620 | *500 |
| 20" | 489 | 1250 | 625 | 680 | *500 |

*Gear Operated

38'

ONERO VALVE

Four-Way Ball valve
<http://www.ouqiu.com>

MATERIAL SPECIFICATIONS

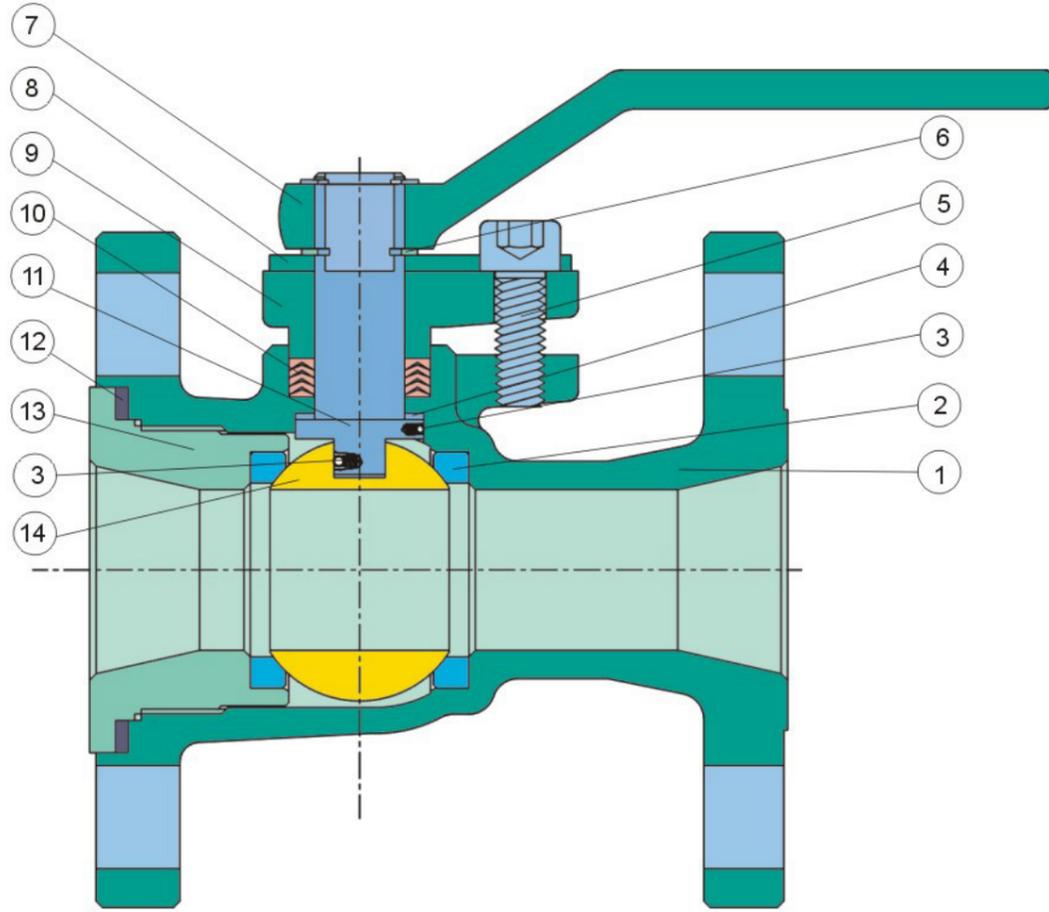
| No. | Part | Material |
|-----|-----------------|---|
| 1 | Bonnet | A216-WCB A352-LCB A351-CF8, CF8M, CF3, CF3M, Duplex |
| 2 | Seat Spring | Incenel X-750 SS304 SS316 |
| 3 | Seat Ring | ASTM A105+ENP ASTM A182-F304, F316, F316L, F6 |
| 4 | Seat | PTFE RPTFE PEEK PPL |
| 5 | Ball | A351-CF8, CF8M, CF3, CF3M, Duplex |
| 6 | Body Gasket | PTFE SS304+Graphite SS316+Graphite |
| 7 | O-ring | NBR Viton |
| 8 | Stud | ASTM 193-B7, B7M, B8, B8M |
| 9 | Nut | ASTM 194-2H, 2HM, 8, 8M |
| 10 | Key | 1045 Stainless Steel |
| 11 | Coupling | ASTM A105+ENP A182-F6 |
| 12 | Yoke | A216-WCB A351-CF8 |
| 13 | Gland Flange | A216-WCB A351-CF8, CF8M |
| 14 | Stem | A105+NEP A182-F6, F304, F316, F316L, F304L, 17-4PH, F51 |
| 15 | Packing | PTFE Graphite |
| 16 | Cover | A216-WCB A352-LCB A351-CF8, CF8M, CF3, CF3M, Duplex |
| 17 | Sliding Bearing | Stainless Steel+PTFE SS316+PTFE |
| 18 | Gasket | PTFE SS304+Graphite SS316+Graphite |
| 19 | Body | A216-WCB A352-LCB A351-CF8, CF8M, CF3, CF3M, Duplex |
| 20 | Vent Valve | Carbon Steel+ENP A182-F304, F304, F316, F316L, F304L |

39'

ONERO VALVE

IPC Cast Steel Floating Ball Valve

<http://www.ouqiu.com>



FEATURES

| |
|-----------------------------|
| Size: 1/2" - 4" |
| Class: 150-300Lb |
| One Pieces Cast Steel Body |
| Floating Ball, Reduced Bore |
| Anti-static Device |
| Blow-out Proof Stem |
| Fire Safe Design |

SPECIFICATIONS

| | |
|----------------|---------------------|
| Design | ASME B16.34/API 608 |
| Face to Face | ASME B16.10 |
| End Flange | ASME B16.5 |
| Test | API 598 |
| Fire Safe Test | API 607/ API6FA |
| Special | NACE MR-01-75 |

40'

ONERO VALVE

IPC Cast Steel Floating Ball Valve

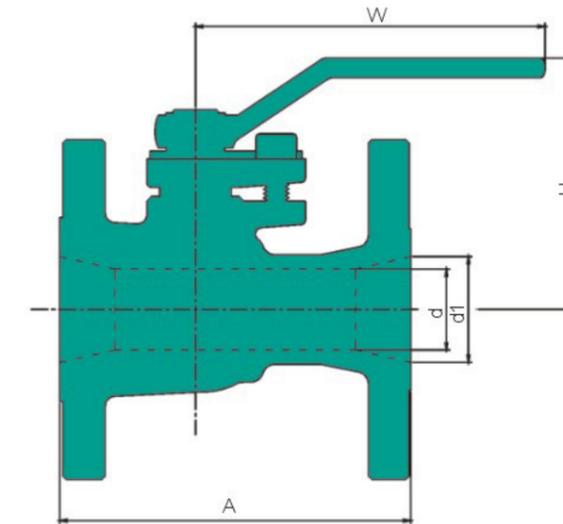
<http://www.ouqiu.com>

MATERIAL SPECIFICATIONS

| No. | Part | Material |
|-----|-------------------|--|
| 1 | Body | A216-WCB A352-LCB A351-CF8, CF8M, CF3, CF3M |
| 2 | Seat | PTFE RTPFE PEEK PPL |
| 3 | Antistatic Spring | Stainless Steel SS316 |
| 4 | Thrust Washer | PTFE |
| 5 | Screw | ASTM A193-B7, B8 |
| 6 | Retainer | Carbon Steel |
| 7 | Lever | A216-WCB |
| 8 | Stop Plate | 1015+Cr Carbon Steel+Cr |
| 9 | Gland Flange | A216-WCB A351-CF8 |
| 10 | packing | PTFE Graphite |
| 11 | Stem | ASTM A105+ENP A182-F6, F316, F316L, F304L 17-4PH |
| 12 | Gasket | PTFE Graphite |
| 13 | Screwed cover | A216-WCB A352-LCB A351-CF8, CF8M, CF3, CF3M |
| 14 | Ball | A351-CF8, CF8M, CF3, CF3M |

*Recommended Spare Parts

DIMENSIONS AND WEIGHTS



Class 150

| Size | d | d1 | A | H | W | Weight |
|-------|----|-----|----|-----|-----|--------|
| in | mm | mm | mm | mm | mm | kg |
| 1/2 | 10 | 13 | 10 | 89 | 129 | 5.4 |
| 3/4 | 15 | 18 | 15 | 89 | 129 | 6.0 |
| 1 | 19 | 25 | 19 | 90 | 170 | 6.6 |
| 1-1/2 | 32 | 40 | 32 | 106 | 224 | 7.8 |
| 2 | 38 | 50 | 38 | 111 | 224 | 12 |
| 3 | 59 | 80 | 59 | 146 | 356 | 23 |
| 4 | 76 | 102 | 76 | 171 | 356 | 38 |

Class 300

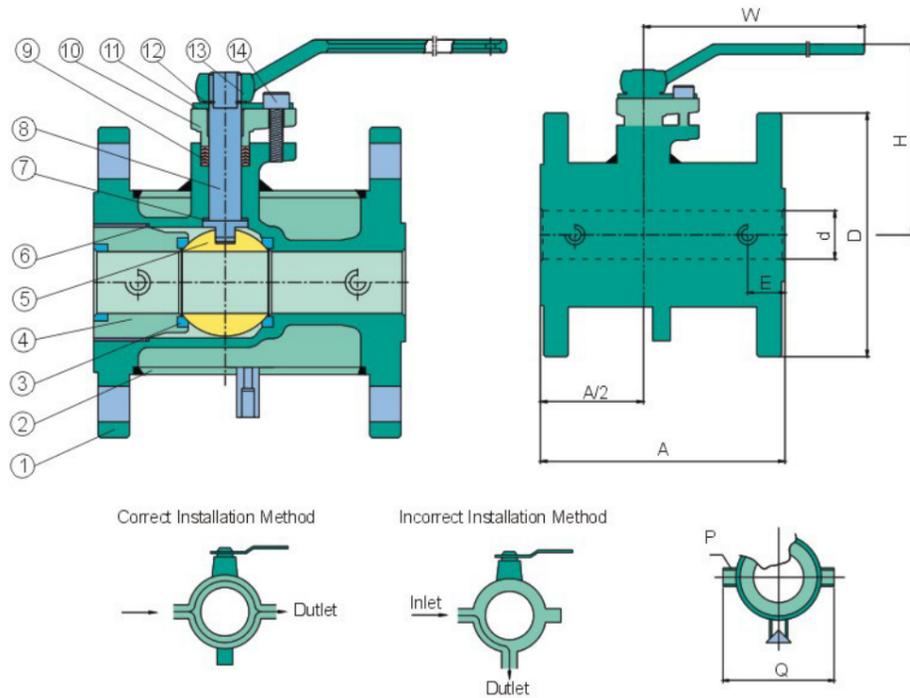
| Size | d | d1 | A | H | W | Weight |
|-------|----|-----|-----|-----|-----|--------|
| in | mm | mm | mm | mm | mm | kg |
| 1/2 | 10 | 13 | 140 | 89 | 129 | 6.0 |
| 3/4 | 15 | 18 | 152 | 89 | 129 | 6.6 |
| 1 | 19 | 25 | 165 | 90 | 170 | 7.2 |
| 1-1/2 | 32 | 40 | 191 | 106 | 224 | 13 |
| 2 | 38 | 50 | 216 | 111 | 224 | 18 |
| 3 | 59 | 80 | 283 | 160 | 356 | 36 |
| 4 | 76 | 102 | 305 | 186 | 506 | 54 |

41'

ONERO VALVE

Jacket Ball Valve

<http://www.ouqiu.com>



MATERIAL SPECIFICATIONS

| No. | Part | Material |
|-----|---------------|---|
| 1 | Body | A216-WCB A352-LCB A351-CF8, CF8M, CF3, CF3M, Duplex |
| 2 | Jacket | 1015 Stainless Steel |
| 3 | Seat | PTFE RPTFE PEEK PPL |
| 4 | Screwed cover | A216-WCB A352-LCB A351-CF8, CF8M, CF3, CF3M, Duplex |
| 5 | Ball | A351-CF8, CF8M, CF3, CF3M, Duplex |
| 6 | Gasket | PTFE Graphite |
| 7 | Thrust Washer | PTFE |
| 8 | Stem | A105+NEP A182-F6, F304, F316, F316L, F304L, 17-4PH, F51 |
| 9 | Packing | PTFE Graphite |
| 10 | Gland Flange | A216-WCB A351-CF8 |
| 11 | Limited Plate | 1015+Cr Carbon Steel+Cr |
| 12 | Retainer | Carbon Steel |
| 13 | Lever | A216-WCB |
| 14 | Screw | ASTM A193-B7, B8 |

DIMENSION

Class 150/300

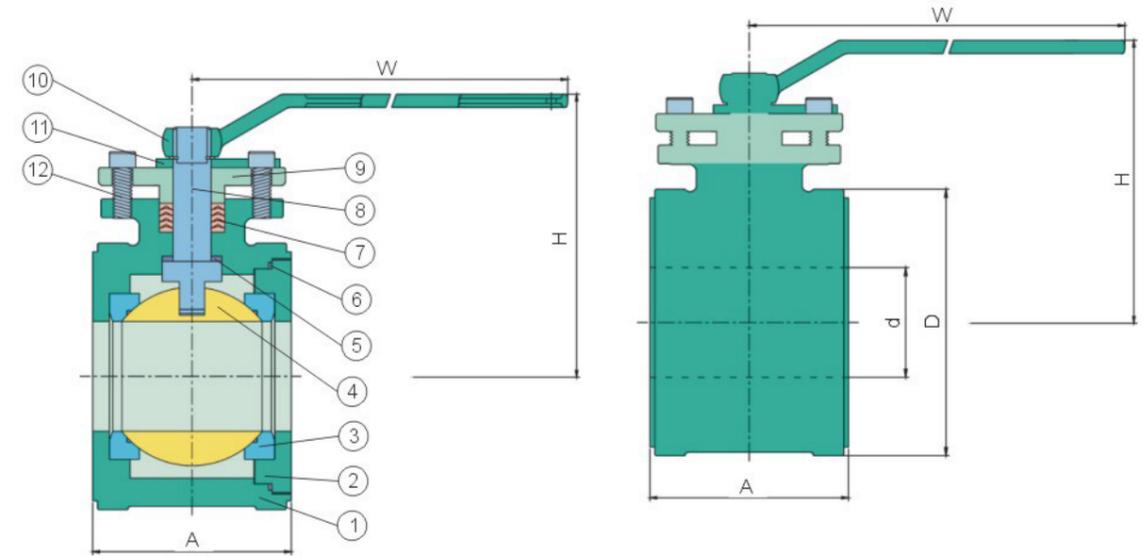
| Size | d | A | D | E | Q | H | W | P |
|--------|-----|-----|--------|------|-----|-----|------|------|
| | | | | | | | | |
| 3/4" | 19 | 117 | 1-1/2" | 58.5 | 147 | 101 | 170 | 3/4" |
| 1" | 25 | 127 | 2" | 62.5 | 156 | 106 | 170 | 3/4" |
| 1-1/2" | 38 | 165 | 2-1/2" | 63.5 | 181 | 125 | 250 | 3/4" |
| 2" | 51 | 178 | 3" | 68 | 218 | 135 | 250 | 3/4" |
| 3" | 76 | 229 | 6" | 82 | 275 | 193 | 350 | 3/4" |
| 4" | 102 | 254 | 8" | 83 | 300 | 265 | 420 | 3/4" |
| 6" | 152 | 292 | 10" | 95 | 403 | 355 | 1000 | 3/4" |
| 8" | 203 | 330 | 12" | 100 | 492 | 410 | 1300 | 3/4" |

42'

ONERO VALVE

Wafer Ball valve

<http://www.ouqiu.com>



MATERIAL SPECIFICATIONS

| No. | Part | Material |
|-----|---------------|---|
| 1 | Body | A216-WCB A352-LCB A351-CF8, CF8M, CF3, CF3M, Duplex |
| 2 | Screwed Cover | A216-WCB A352-LCB A351-CF8, CF8M, CF3, CF3M, Duplex |
| 3 | Seat | PTFE RPTFE PEEK PPL |
| 4 | Ball | A351-CF8, CF8M, CF3, CF3M, Duplex |
| 5 | Thrust Washer | PTFE |
| 6 | Gasket | PTFE Graphite |
| 7 | Packing | PTFE Graphite |
| 8 | Stem | A105+NEP A182-F6, F304, F316, F316L, F304L, 17-4PH, F51 |
| 9 | Gland Flange | A216-WCB A351-CF8 |
| 10 | Lever | A216-WCB |
| 11 | Limited Plate | 1015+Cr Carbon Steel+Cr |
| 12 | Screw | ASTM A193-B7, B8 |

DIMENSION

CLASS 150Lb, PN16, 10K

| Size | D | | | A | H | W |
|--------|-------|------|-----|-----|-----|-----|
| | 150Lb | PN16 | 10K | | | |
| 1/2" | 47 | 53 | 58 | 40 | 80 | 130 |
| 3/4" | 57 | 63 | 63 | 45 | 80 | 170 |
| 1" | 66 | 73 | 74 | 50 | 100 | 170 |
| 1-1/4" | 75 | 84 | 84 | 60 | 110 | 200 |
| 1-1/2" | 85 | 94 | 89 | 70 | 120 | 250 |
| 2" | 103 | 109 | 104 | 80 | 130 | 250 |
| 2-1/2" | 122 | 129 | 124 | 110 | 140 | 350 |
| 3" | 135 | 144 | 134 | 120 | 150 | 350 |
| 4" | 173 | 170 | 159 | 140 | 180 | 420 |

ONERO VALVE

Ball valves Torque Value Form

<http://www.ouqiu.com>

FLOATING BALL VALVE TORQUE FORM (N.M)

| Size(mm) Class(MPa) | 15 | 20 | 25 | 40 | 50 | 65 | 80 | 100 | 125 | 150 | 200 |
|------------------------|------|------|----|--------|-----|--------|-----|-----|-----|-----|------|
| 1.6 | 3 | 5 | 10 | 16 | 25 | 50 | 65 | 125 | 250 | 340 | 485 |
| 2.5 | 3 | 5 | 11 | 18 | 30 | 60 | 80 | 140 | 300 | 400 | 680 |
| 4.0 | 5 | 10 | 24 | 35 | 50 | 100 | 150 | 250 | 450 | 585 | 996 |
| 6.4 | 15 | 30 | 30 | 80 | 100 | 200 | 300 | 400 | - | - | - |
| 10.0 | 19 | 35 | 68 | 130 | 190 | 360 | 460 | 700 | - | - | - |
| Size(mm) Class(MPa) | 1/2" | 3/4" | 1" | 1-1/2" | 2" | 2-1/2" | 3" | 4" | 5" | 6" | 8" |
| 150 | 3 | 5 | 5 | 16 | 25 | 50 | 65 | 125 | 250 | 410 | 700 |
| 300 | 7 | 12 | 12 | 38 | 60 | 120 | 160 | 280 | 600 | 950 | 1550 |
| 400 | 15 | 30 | 30 | 90 | 140 | 240 | 350 | 540 | - | - | - |
| 600 | 19 | 35 | 35 | 130 | 190 | 360 | 460 | 770 | - | - | - |

TRUNNION TYPE BALL VALVE TORQUE FORM (N.M)

| Size(mm) Class(MPa) | 50 | 65 | 80 | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 | 800 |
|------------------------|-----|--------|-----|-----|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|
| PN1.6 | 25 | 50 | 65 | 125 | 250 | 340 | 485 | 125 | 1310 | 1910 | 2860 | 4500 | 5860 | 8920 | 13320 | 24000 |
| PN2.5 | 30 | 60 | 80 | 140 | 300 | 400 | 680 | 140 | 1870 | 2740 | 4150 | 6500 | 7800 | 13210 | 19830 | 35420 |
| PN4.0 | 50 | 100 | 150 | 250 | 450 | 585 | 996 | 250 | 2800 | 4110 | 6300 | 8900 | 12000 | 20380 | 30670 | 55200 |
| PN6.4 | 100 | 200 | 300 | 400 | 650 | 890 | 1500 | 400 | 4290 | 6320 | 9750 | 13500 | 18660 | 21820 | 48020 | 85830 |
| PN10.0 | 190 | 300 | 460 | 770 | 1050 | 1980 | 3280 | 700 | 7200 | 9860 | 14500 | 19600 | 29000 | 42500 | 58000 | 82000 |
| Size(mm) Class(MPa) | 2" | 2-1/2" | 3" | 4" | 5" | 6" | 8" | 10" | 12" | 14" | 16" | 18" | 20" | 24" | 28" | 32" |
| 150 | 25 | 50 | 65 | 125 | 250 | 410 | 700 | 1100 | 1750 | 2600 | 3900 | 6200 | 7500 | 10500 | 14500 | 21000 |
| 300 | 60 | 120 | 160 | 280 | 600 | 950 | 1550 | 2000 | 3300 | 5000 | 7500 | 11800 | 14400 | 19600 | 28200 | 29800 |
| 400 | 140 | 240 | 350 | 540 | 740 | 1260 | 1910 | 3250 | 5340 | 7500 | 10000 | 12400 | 18500 | 29500 | 40500 | 53000 |
| 600 | 190 | 360 | 460 | 770 | 1050 | 1980 | 3280 | 5250 | 7200 | 9860 | 14500 | 19600 | 29000 | 42500 | 58000 | 62000 |

THREE-WAY BALL VALVE TORQUE FORM (N.M)

| Size(mm) Class(MPa) | 15 | 20 | 25 | 40 | 50 | 65 | 80 | 100 | 125 | 150 | 200 | 250 | 300 |
|------------------------|------|--------|----|----|----|-----|-----|-----|-----|------|------|------|------|
| PN1.6 | 5 | 8 | 15 | 24 | 35 | 75 | 100 | 180 | 350 | 500 | 730 | 1210 | 1950 |
| PN2.5 | 5 | 8 | 16 | 27 | 45 | 90 | 120 | 210 | 450 | 600 | 1000 | 1600 | 2800 |
| PN4.0 | 8 | 15 | 36 | 50 | 75 | 145 | 220 | 350 | 650 | 850 | 1450 | 2400 | 4200 |
| Size(mm) Class(MPa) | 1/2" | 2-1/2" | 3" | 4" | 5" | 6" | 8" | 10" | 12" | 14" | 16" | 18" | 20" |
| 150 | 5 | 8 | 16 | 24 | 38 | 75 | 95 | 185 | 380 | 600 | 1050 | 1650 | 2625 |
| 300 | 8 | 18 | 38 | 58 | 90 | 180 | 240 | 420 | 900 | 1425 | 2300 | 3000 | 4950 |

Note: The data in the form are not practically, just for reference.

ONERO VALVE

Soft Materials Data

<http://www.ouqiu.com>

SPECIFICATIONS FOR SEAT MATERIALS

| | PTFE | RPTFE | Molon(Nylon+MoS2) | PEEK |
|---------------------------|----------------------|----------------------|---------------------------------|---------------------------------|
| Tensile Strength(MPa) | 24.8 | 25.4 | 75~100 | 91 |
| Compressive Strength(MPa) | 35 | 52 | 100~14 | 137 |
| Elongation(%) | 250 | 120 | 10~30 | 50 |
| Hardness(SH.A) | 56 | 60 | 78 | 82 |
| Water Absorption(%) | <0.01 | <0.01 | 0.7 | 0.12 |
| Specific Gravity(G/cm3) | 2.2 | 2.2 | 1.2 | 1.35 |
| Temperature Range(F) | -300~400 | -150~425 | -40~300 | -150~500 |
| Pressure Rating(Class) | 150-600 | 150-600 | 150~1500 | 150~2500 |
| Service Application | Chemical & Cryogenic | Chemical & Cryogenic | High Pressure & Low Temperature | High Pressure & Low Temperature |

| | Nylon 1010 | Nylon 12 | Devlon V | Delrin |
|---------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| Tensile Strength(MPa) | 55 | 60 | 80 | 68 |
| Compressive Strength(MPa) | 70 | 79 | 140 | 110 |
| Elongation(%) | 150 | 200 | 5.37 | 220 |
| Hardness(SH.A) | 70 | 75 | 78 | 78 |
| Water Absorption(%) | 0.3 | 0.2 | 0.1 | 0.2 |
| Specific Gravity(G/cm3) | 1.04 | 1.01 | 1.14 | 1.41 |
| Temperature Range(F) | -40~200 | -58~250 | -150~300 | -58~230 |
| Pressure Rating(Class) | 600~1500 | 600~1500 | 150~1500 | 150~1500 |
| Service Application | High Pressure & Low Temperature |

SPECIFICATIONS FOR SEAL MATERIALS

| | Viton A | NBR | Viton B | HNBR(HSN) | Viton AED |
|-------------------------|--|---|---------------------------------|------------------------------|---------------------------------|
| Temperature Range(° F) | -20~400 | -50~250 | -20~400 | -40~320 | -20~480 |
| Hardness(SH.A) | 70 | 70 | 70 | 80 | 90 |
| Specific Gravity(G/cm3) | 1.85 | 1.2 | 1.85 | 1.33 | 1.9 |
| Service Application | Petroleum Oils, Gasoline, Transmission Fluid | Petroleum Oils, Water, Hydraulic Oils | Mineral Acid, Steam, MTBE | Petroleum Oils, H2S & Co2 | Anti-Explosive Decompression |

SPECIFICATIONS FOR GASKET MATERIALS

| | Flexible Graphite | Spiral Wound 316+Graphite | PTFE | Spiral Wound Monel+PTFE |
|------------------------|-------------------|---------------------------|---------------------------|-------------------------|
| Temperature Range(° F) | -300~900 | -300~900 | -300~400 | -300~400 |
| PH | 0~14 | 0~14 | 0~14 | 0~14 |
| Service Application | Fire-safe | Fire-safe | Cryogenic, High Corrosive | High Corrosive |

*Due to quick develop,
we reserve the right to institute changes in material,
design and specifications for all ONERO designed valves without prior notice.