



IMPORFERRI
IMPORTADORA FERRETERA INDUSTRIAL

11

VÁLVULA DE BOLA TIPO TRUNNION 2PC

BRIDADA





HOW TO ORDER - EXAMPLE

| | | | | | | | | | |
|------------|-----------|----------|----------|---|----------|---|------------|---|--------------|
| 8x6 | BS | 1 | R | - | G | , | C40 | / | 12666 |
| ① | ② | ③ | ④ | | ⑤ | | ⑥ | | ⑦ |

Following descriptions provide a basic guideline in valve specification:

① Valve Size

Full bore:

| NPS | 2 | 2-1/2 | 3 | 3-1/2 | 4 | 5 | 6 | 8 | 10 | 12 | 14 |
|-----|-----|-------|------|-------|------|------|------|------|------|-----|-----|
| DN | 50 | 65 | 80 | 90 | 100 | 125 | 150 | 200 | 250 | 300 | 350 |
| NPS | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 |
| DN | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 |
| NPS | 38 | 40 | 42 | 44 | 48 | 52 | 54 | 56 | 60 | -- | -- |
| DN | 950 | 1000 | 1050 | 1100 | 1200 | 1300 | 1350 | 1400 | 1500 | | |

6D Reduced Bore:

| NPS | 2x1-1/2 | 2-1/2x2 | 3x2 | 4x3 | 6x4 | 8x6 | 10x8 | 12x10 | 14x10 | 16x12 | 18x14 | 20x16 | 22x18 | 24x20 |
|-----|---------|---------|---------|---------|---------|---------|---------|----------|----------|-----------|-----------|-----------|-----------|-----------|
| DN | 50x40 | 65x50 | 80x50 | 100x80 | 150x100 | 200x150 | 250x200 | 300x250 | 350x250 | 400x300 | 450x350 | 500x400 | 550x450 | 600x500 |
| NPS | 26x20 | 28x24 | 30x24 | 32x26 | 34x28 | 36x30 | 38x32 | 40x34 | 42x36 | 46x40 | 48x42 | 54x42 | 56x48 | 60x48 |
| DN | 650x500 | 700x600 | 750x600 | 800x650 | 850x700 | 900x750 | 950x800 | 1000x850 | 1050x900 | 1150x1000 | 1200x1000 | 1350x1050 | 1400x1200 | 1500x1200 |

② Valve Type

| Symbol | Valve Type | Symbol | Valve Type |
|--------|--|--------|----------------------------------|
| BS | Side entry trunnion mounted type - forged | BE | tope entry trunnion mounted type |
| BT | Side entry trunnion mounted type - casting | | |

③ ASME Class

| Code | 1 | 3 | 4 | 6 | 8 | 9 | 15 | 25 |
|------------|-----|-----|-----|-----|-----|-----|------|------|
| Class (LB) | 150 | 300 | 400 | 600 | 800 | 900 | 1500 | 2500 |

④ End Connection

| Symbol | End |
|--------|-------------------------|
| R | Raised face flanged end |
| J | RTJ flanged end |
| B | Butt-weld end |

⑤ Operator

| Symbol | Description | Symbol | Description |
|--------|--------------------|--------|----------------------------|
| | Lever | BS | Bare shaft |
| G | Gear operator | H | Hydraulic actuator |
| M | Electric actuator | L | Gas over oil actuator |
| P | Pneumatic actuator | D | Electric over oil actuator |

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HOW TO ORDER - EXAMPLE

⑥ Body Materials

| Steel Classification | Cast Material | | Forging Material | | Recommended Temperature Limits | | Application |
|---------------------------------------|-----------------|-----|------------------|-----|--------------------------------|--------------|--|
| | | | | | °C | °F | |
| Carbon Steel | A216 Grade WCB | C00 | A105N | C40 | -29 to 425 | -20 to 800 | Steam, petroleum products, oil vapour, gas and general service |
| Carbon Steel | A216 Grade LCB | L20 | A350 Grade LF2 | L70 | -46 to 350 | -50 to 650 | Low temperature |
| Carbon Steel | A216 Grade LCC | L21 | A350 Grade LF2 | L70 | -46 to 350 | -50 to 650 | |
| Duplex Stainless Steel | A995 Grade 4A | D03 | A182 Grade F51 | D40 | -51 to 315 | -60 to 599 | Corrosion resistance |
| Duplex Stainless Steel | A995 Grade 5A | D10 | A182 Grade F53 | D41 | -51 to 315 | -60 to 599 | |
| Austenitic Stainless Steel | A351 Grade CF8M | S01 | A182 Grade F316 | S41 | -196 to 815 | -320 to 1500 | High and low temperature corrosion resistance |
| Austenitic Stainless Steel | A351 Grade CF8 | S00 | A182 Grade F304 | S40 | -196 to 815 | -320 to 1500 | |
| Low Carbon Austenitic Stainless Steel | A351 Grade CF3M | S03 | A182 Grade F316L | S43 | -196 to 815 | -320 to 1500 | Cryogenic service is also available upon request |
| Low Carbon Austenitic Stainless Steel | A351 Grade CF3 | S02 | A182 Grade F304L | S42 | -196 to 815 | -320 to 1500 | |

⑦ Trim Code

| Seat Insert | | Seal ring | | Stem | | Ball | | Retainer | |
|-------------|----------|-----------|-----------|------|---------------|------|---------------|----------|---------------|
| Code | Material | Code | Material | Code | Material | Code | Material | Code | Material |
| 1 | PTFE | 2 | VITON A | 1 | F6a | 1 | F6a | 1 | F6a |
| 3 | PEEK | 3 | VITON AED | 2 | F304 | 2 | F304 | 2 | F304 |
| 5 | DEVLON V | 4 | VITON B | 3 | A105N/ENP | 3 | A105N/ENP | 3 | A105N/ENP |
| 7 | NYLON 12 | 6 | HNBR | 4 | 17-4PH | 4 | 17-4PH | 4 | 17-4PH |
| 8 | PCTFE | 8 | VITON GLT | 5 | AISI 4140/ENP | 5 | AISI 4140/ENP | 5 | AISI 4140/ENP |
| L | HNBR | V | FEPM | 6 | F316 | 6 | F316 | 6 | F316 |
| J | VITON | L | Lipseal | 7 | F304L | 7 | F304L | 7 | F304L |
| | | | | 8 | F316L | 8 | F316L | 8 | F316L |
| | | | | 9 | LF2/ENP | 9 | LF2/ENP | 9 | LF2/ENP |
| | | | | A | F51 | A | F51 | A | F51 |

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PRODUCT RANGE

| Valve Size | | 2" | 2.5" | 3" | 4" | 5" | 6" | 8" | 10" | 12" | 14" | 16" | 18" | 20" | 24" | 26" | 28" | 30" | 32" | 36" | 40" | 42" | 48" | 52" | 54" | 56" | 60" | | |
|------------------------------------|---------------------------------------|------|------|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|---|
| API 6D Trunnion Mounted Ball Valve | Side Entry Cast Steel TM Ball Valve | 150 | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | | | | | | | | | | | | | | |
| | | 300 | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | | | | | | | | | | | | | |
| | | 600 | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | | | | | | | | | | | | | |
| | | 900 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 1500 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 2500 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Side Entry Forged Steel TM Ball Valve | 150 | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| | | 300 | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| | | 600 | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| | | 900 | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| | | 1500 | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| | | 2500 | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| | Top Entry TM Ball Valve | 150 | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | | | | | | | | | | | | | |
| | | 300 | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | | | | | | | | | | | | | |
| | | 600 | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | | | | | | | | | | | | | |
| | | 900 | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | | | | | | | | | | | | | |
| | | 1500 | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | | | | | | | | | | | | | |
| | | 2500 | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | | | | | | | | | | | | | |



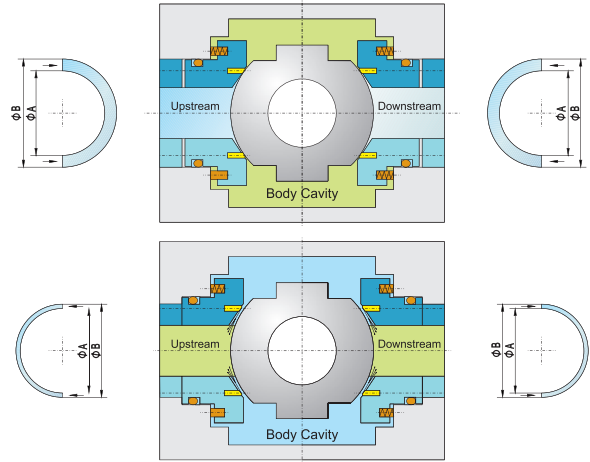
DESIGN FEATURES

Self Relieving Seats (single piston effect)

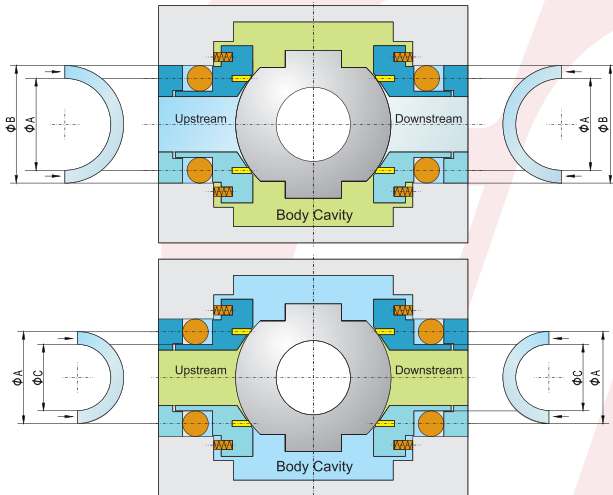
El efecto de pistón único es el diseño estándar para las válvulas de bola montadas sobre muñones. La presión de los lados aguas arriba y aguas abajo empuja los anillos de asiento contra la bola.

Si la fuerza creada por la presión de la cavidad del cuerpo es mayor que la fuerza del resorte precargado más la fuerza creada por la presión del lado aguas arriba o aguas abajo, los asientos se alejan de la bola. Por lo tanto, cualquier sobrepresión en la cavidad del cuerpo se libera automáticamente en la posición completamente abierta o completamente cerrada de las válvulas.

STANDARD
SINGLE PISTON EFFECT (SELF-RELIEVING SEATS)



OPTIONAL
DOUBLE PISTON EFFECT



Double Piston Effect Seats (DIB-1)

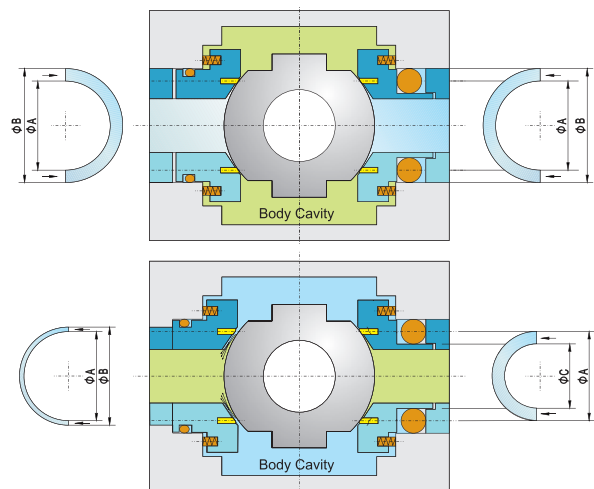
Los asientos de doble pistón se energizan por presión en ambas direcciones. Por lo tanto, los anillos del asiento siempre son empujados contra la bola por la presión desde aguas arriba/aguas abajo o desde la cavidad.

Si el asiento aguas arriba falla, el asiento aguas abajo aún puede garantizar un sellado hermético. Ampliamente utilizado en aplicaciones específicas (se requiere alta integridad) o para algunas pruebas de presión de tuberías. Dado que las válvulas de doble pistón no tienen la función de autoalivio, se debe proporcionar la válvula de alivio de presión de cavidad automática, a menos que se acuerde lo contrario.

One Self-Relieving Seat and One Double Piston Effective Seat (DIB-2)

Si la fuerza creada por la presión de la cavidad del cuerpo es mayor que la fuerza del resorte precargado más la fuerza creada por la presión de la tubería, la presión de la cavidad se libera a través del asiento de alivio automático, mientras que el asiento de doble pistón sigue funcionando como un sello hermético.

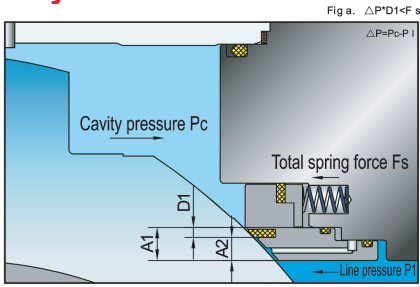
OPTIONAL
ONE SEAT DOUBLE PISTON EFFECT



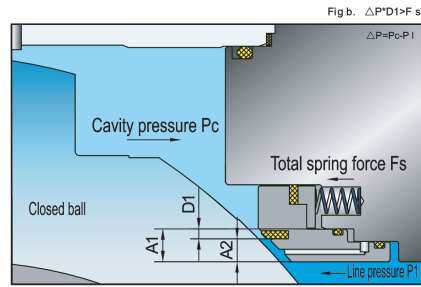


DESIGN FEATURES

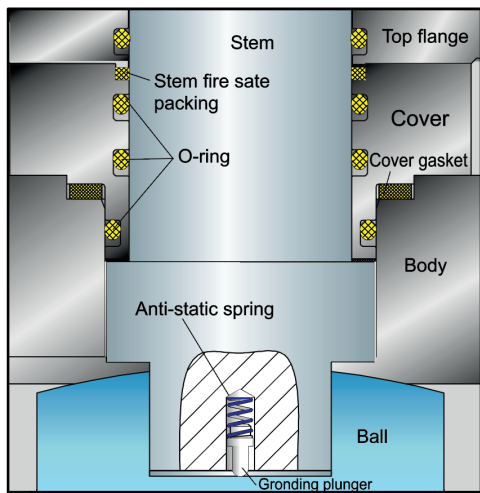
Cavity Pressure Relief



Cuando la fuerza creada por la presión de la cavidad (P_c) es menor que la fuerza creada por la presión de la línea (P_l), es decir, $\Delta P \cdot D1 < F_s$, entonces se asegura el contacto entre la bola y el anillo del asiento para proporcionar un sellado hermético.



Cuando la presión en la cavidad es mayor que la fuerza del resorte del asiento más la presión de la línea, es decir, $\Delta P \cdot D1 > F_s$, la acción de alivio automático permite que el asiento de la válvula se separe ligeramente de la superficie de la bola. Por lo tanto, cualquier sobrepresión dentro de la cavidad del cuerpo se descarga en la tubería para restablecer el equilibrio entre la cavidad del cuerpo y la tubería (ya sea aguas arriba o aguas abajo).

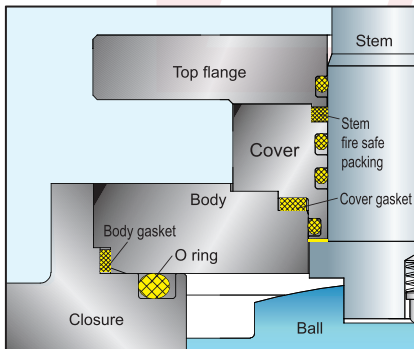


Anti Blow-out Stem

El vástago se fabrica por separado de la bola. El extremo inferior del vástago está diseñado con un hombro integral para evitar explosiones.

Anti-static Device

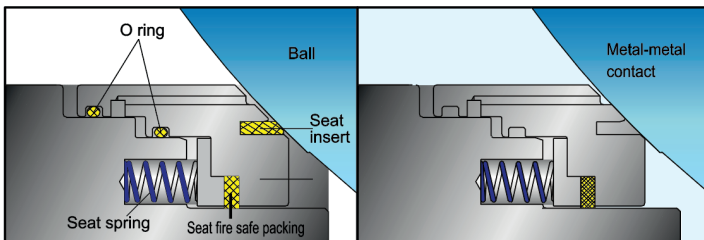
El dispositivo antiestático es una característica estándar de la válvula de bola NEWAY. Un pasador con resorte asegura la continuidad eléctrica entre la bola, el vástago y el cuerpo, para evitar chispas durante el giro del vástago para abrir y cerrar la válvula.



Super Fire safe design

Prevención de fugas externas

Dos juntas tóricas y una junta de tapa impiden las fugas en la zona del vástago de la válvula. Una junta tórica y una junta de cuerpo también bloquean las fugas a través de la conexión del cuerpo de la válvula. Tras un incendio que deterioró las juntas tóricas, la tapa y la junta del cuerpo, el empaquetamiento ignífugo del vástago evita las fugas externas.



Before Fire

After Fire

Prevención de fugas internas

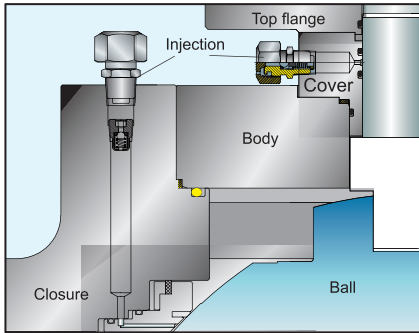
Después de que los materiales de sellado blandos se descomponen o deterioran por el fuego, el borde del asiento metálico precargado por el resorte del asiento entra en contacto con la bola para cerrar el paso del fluido del proceso y minimizar las fugas internas a través del orificio de la válvula. Además, el empaque de grafito ignífugo se comprime por el resorte del asiento para evitar fugas del fluido del proceso entre el cuerpo de la válvula y el asiento.



DESIGN FEATURES

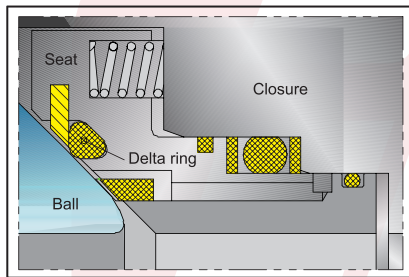
Double block and bleed

En la posición cerrada, cada asiento corta el paso del fluido del proceso de forma independiente en cada lado, o simultáneamente en ambos lados de la bola. La cavidad se puede ventilar/purgar mediante tapones de ventilación o drenaje en el cuerpo de la válvula.



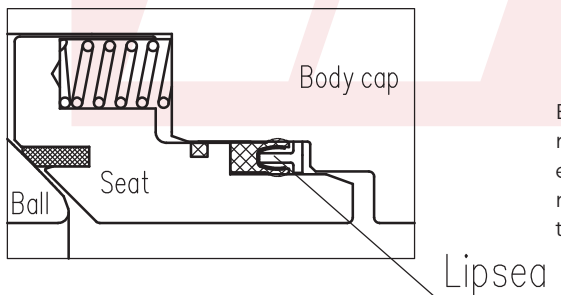
Emergency sealant injection system

Para válvulas de bola montadas sobre muñón de 6 pulgadas o más, se instalarán accesorios de inyección de sellador tanto en el vástago como en los asientos. Cuando los materiales de sellado (asiento blando o junta tórica del vástago) se dañan, se puede evitar la fuga del asiento y del vástago mediante el sellador inyectado en estos accesorios. El accesorio debe incluir una válvula de retención como medio secundario de sellado. Para válvulas de 4 pulgadas o menos, se puede agregar según sea necesario.



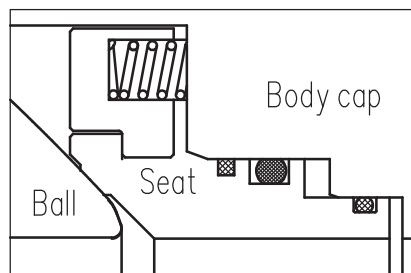
DELTA RING seat design (optional)

El material del anillo delta es elastómero, que tiene mejor elasticidad, puede "absorber" la desviación en la bola, para obtener fácilmente cero fugas, especialmente para bolas de gran tamaño, bolas austeníticas o válvulas de bola totalmente soldadas. Este es un diseño opcional, no estándar.



Lipseal design(optional)

El sello labial es un sello energizado por resorte que incluye un resorte de Elgiloy o Inconel y una cubierta de PTFE. Es eficaz en una amplia gama de aplicaciones, como alta resistencia a medios químicos corrosivos, gas ácido intenso, servicio a baja temperatura o criogénico.

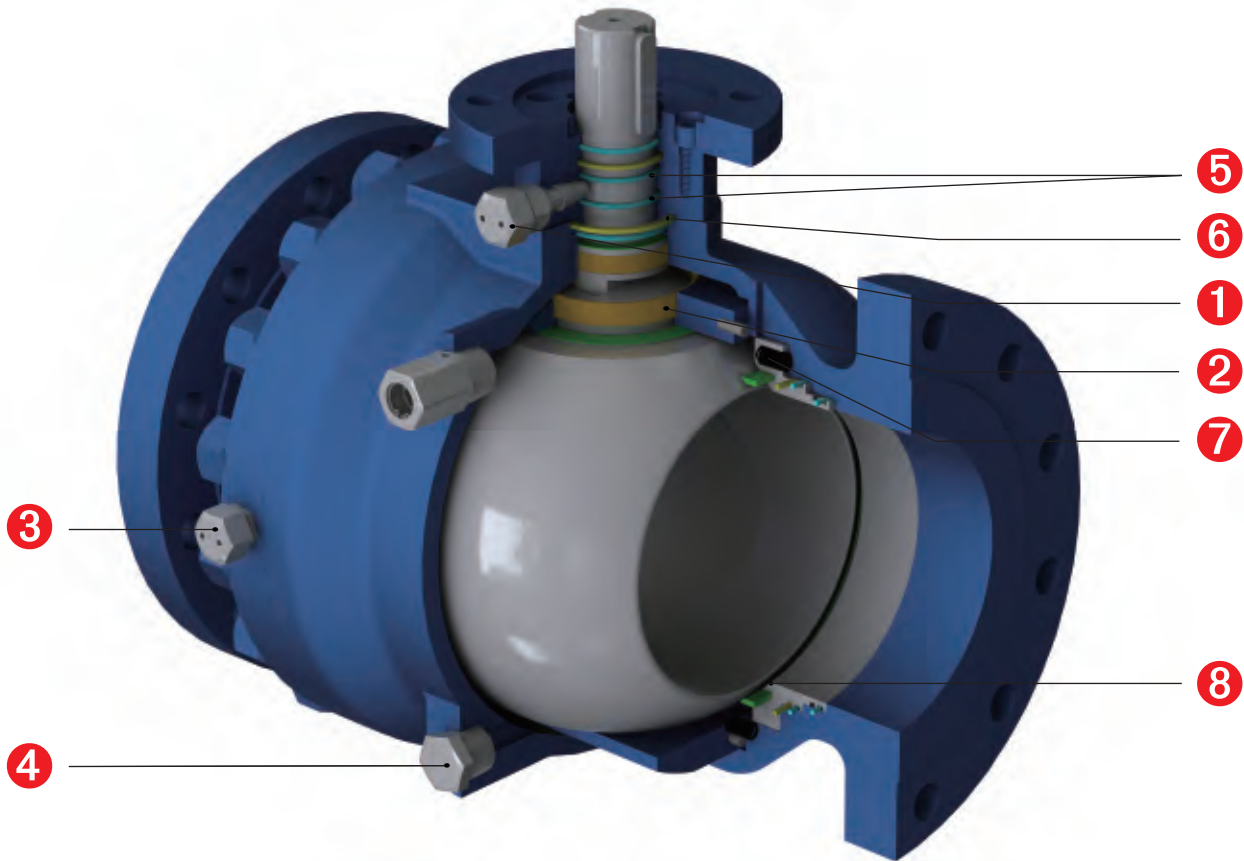


Metal-to- metal seat design(optional)

Cuando la válvula se aplica en servicio altamente abrasivo o a alta temperatura, se debe elegir un asiento metal-metal.



BT Series Ball Valve - Design Features



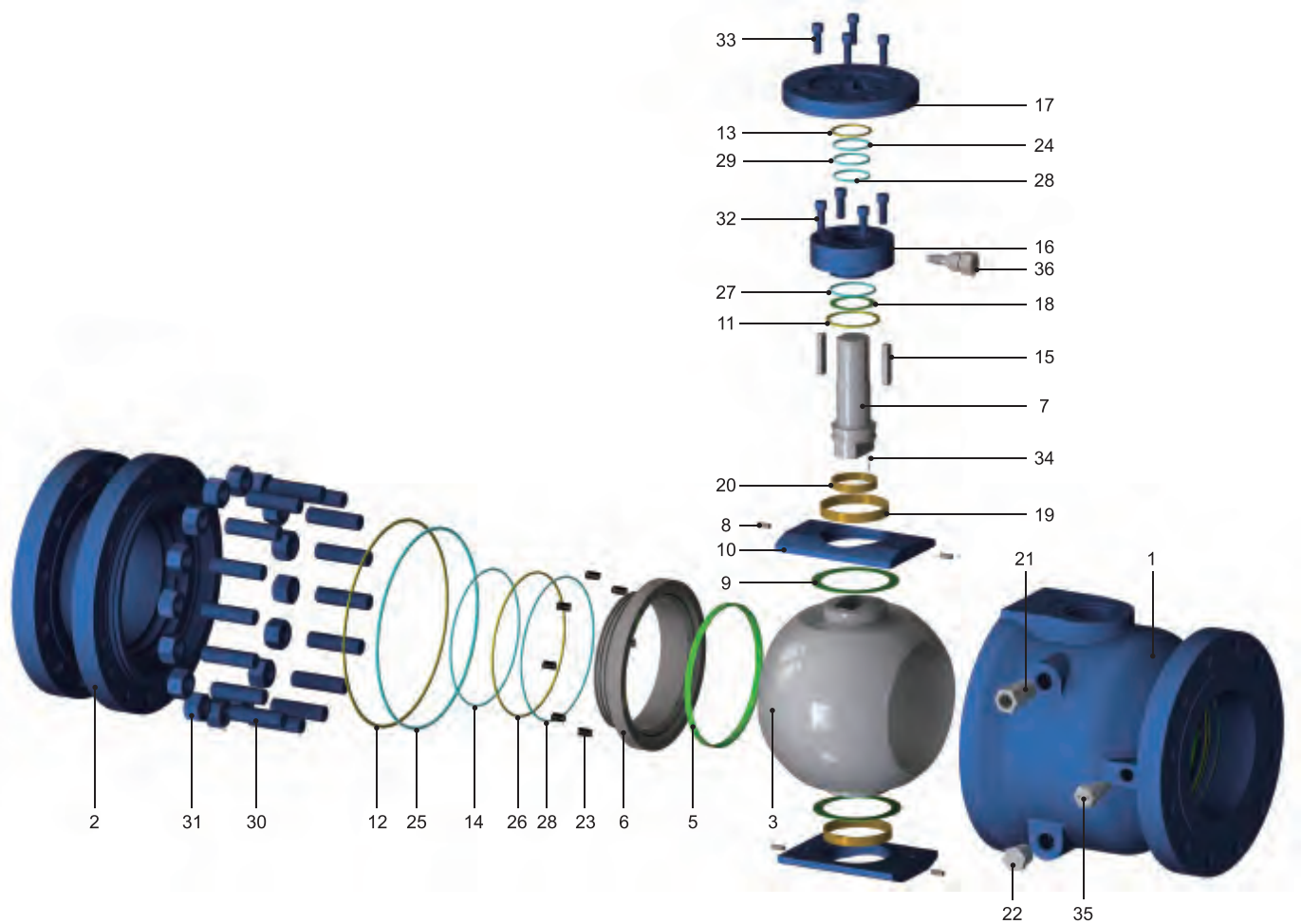
- 1 Conector de inyección de sellador de emergencia: Evita fugas del vástago.
- 2 Vástago a prueba de reventones: El vástago funciona como asiento trasero para asegurar el sellado del vástago a todas las presiones.
- 3 Conector de inyección de sellador de emergencia: Evita fugas del asiento.
- 4 Tapón de drenaje: Alivia la cavidad del cuerpo.
- 5 Juntas tóricas de doble sellado: Evitan fugas del área del vástago.
- 6 Combinación de junta tórica y empaquetadura: Evita fugas del área de conexión del cuerpo.
- 7 Resorte flotante: Los asientos cargados aseguran el sellado, incluso a bajas presiones.
- 8 Sellado metal-metal: Cuando los sellos blandos se deterioran por el fuego, el asiento flota para cerrar el paso del fluido de la línea



BT Series Ball Valve - Material Specifications

| Item | Part |
|------|-------------------------|
| 1 | Body |
| 2 | Cap |
| 3 | Ball |
| 4 | Seat Assembly(5+6) |
| 5 | Seat Insert |
| 6 | Seat Retainer |
| 7 | Stem |
| 8 | Pin |
| 9 | Thrust Washer |
| 10 | Bearing Support |
| 11 | Gasket |
| 12 | Gasket |
| 13 | Fire Safe Graphite Ring |
| 14 | Fire Safe Graphite Ring |
| 15 | Key |
| 16 | Cover |
| 17 | Top Flange |
| 18 | Thrust Washer |

| Item | Part |
|------|--------------------|
| 19 | Thrust Washer |
| 20 | Bearing |
| 21 | Vent Valve |
| 22 | Plug |
| 23 | Spring |
| 24 | O-Ring |
| 25 | O-Ring |
| 26 | O-Ring |
| 27 | O-Ring |
| 28 | O-Ring |
| 29 | O-Ring |
| 30 | Body Stud |
| 31 | Body Nut |
| 32 | Screw |
| 33 | Screw |
| 34 | Anti-Static Device |
| 35 | Injection |
| 36 | Injection |



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BT Series Ball Valve - Material Specifications

| Item | Part | Carbon Steel (Non-Sour) | Stainless Steel | Carbon (Sour) | Low Temperature Carbon Steel |
|------|-------------------------|-------------------------|------------------|------------------|------------------------------|
| 1 | Body | ASTM A216-WCB | ASTM A351-CF8M | ASTM A216-WCB | ASTM A352-LCB |
| 2 | Cap | ASTM A216-WCB | ASTM A351-CF8M | ASTM A216-WCB | ASTM A352-LCB |
| 3 | Ball | ASTM A105N/ENP | ASTM A182 F316 | ASTM A105N/ENP | ASTM A350-LF2/ENP |
| 4 | Seat Assembly(5+6) | 5&6 | 5&6 | 5&6 | 5&6 |
| 5 | Seat Insert | RPTFE/NYLON/PEEK | RPTFE/NYLON/PEEK | RPTFE/NYLON/PEEK | RPTFE/NYLON/PEEK |
| 6 | Seat Retainer | ASTM A105N/ENP | ASTM A182 F316 | ASTM A105N/ENP | ASTM A350-LF2/ENP |
| 7 | Stem | ASTM A105N/ENP | ASTM A182 F316 | ASTM A105N/ENP | ASTM A350-LF2/ENP |
| 8 | Pin | Stainless Steel | Stainless Steel | Stainless Steel | Stainless Steel |
| 9 | Thrust Washer | PTFE | PTFE | PTFE | PTFE |
| 10 | Bearing Support | ASTM A588B/ENP | ASTM A351-CF3M | ASTM A588B/ENP | ASTM A588B/ENP |
| 11 | Gasket | 316SS+Graphite | 316SS+Graphite | 316SS+Graphite | 316SS+Graphite |
| 12 | Gasket | 316SS+Graphite | 316SS+Graphite | 316SS+Graphite | 316SS+Graphite |
| 13 | Fire Safe Graphite Ring | 316SS+Graphite | 316SS+Graphite | 316SS+Graphite | 316SS+Graphite |
| 14 | Fire Safe Graphite Ring | 316SS+Graphite | 316SS+Graphite | 316SS+Graphite | 316SS+Graphite |
| 15 | Key | Carbon Steel | Stainless Steel | Carbon Steel | Stainless Steel |
| 16 | Cover | ASTM A105N | ASTM A182 F316 | ASTM A105N | ASTM A350-LF2 |
| 17 | Top Flange | ASTM A105N | ASTM A182 F316 | ASTM A105N | ASTM A350-LF2 |
| 18 | Thrust Washer | PTFE | PTFE | PTFE | PTFE |
| 19 | Bearing | 316SS+PTFE+MoS2 | 316SS+PTFE+MoS2 | 316SS+PTFE+MoS2 | 316SS+PTFE+MoS2 |
| 20 | Bearing | 316SS+PTFE | 316SS+PTFE | 316SS+PTFE | 316SS+PTFE |
| 21 | Vent Valve | Stainless Steel | Stainless Steel | Stainless Steel | Stainless Steel |
| 22 | Drain | Stainless Steel | Stainless Steel | Stainless Steel | Stainless Steel |
| 23 | Spring | Inconel X-750 | Inconel X-750 | Inconel X-750 | Inconel X-750 |
| 24 | O-Ring | NBR | NBR | NBR | NBR |
| 25 | O-Ring | HNBR/VITON | HNBR/VITON | HNBR/VITON | HNBR/VITON |
| 26 | O-Ring | HNBR/VITON | HNBR/VITON | HNBR/VITON | HNBR/VITON |
| 27 | O-Ring | HNBR/VITON | HNBR/VITON | HNBR/VITON | HNBR/VITON |
| 28 | O-Ring | HNBR/VITON | HNBR/VITON | HNBR/VITON | HNBR/VITON |
| 29 | O-Ring | HNBR/VITON | HNBR/VITON | HNBR/VITON | HNBR/VITON |
| 30 | Body Stud | ASTM A193-B7 | ASTM A193-B8 | ASTM A193-B7M | ASTM A320-L7M |
| 31 | Body Nut | ASTM A194-2H | ASTM A194-8 | ASTM A194-2HM | ASTM A194-7M |
| 32 | Screw | ASTM A193-B7 | Stainless Steel | ASTM A193-B7M | ASTM A320-L7M |
| 33 | Screw | ASTM A193-B7 | Stainless Steel | ASTM A193-B7M | ASTM A320-L7M |
| 34 | Anti-Static Device | Stainless Steel | Stainless Steel | Stainless Steel | Stainless Steel |
| 35 | Injection | Stainless Steel | Stainless Steel | Stainless Steel | Stainless Steel |
| 36 | Injection | Stainless Steel | Stainless Steel | Stainless Steel | Stainless Steel |

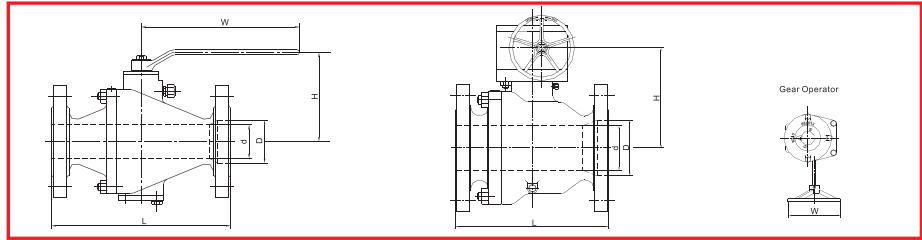
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BT Series Ball Valve

split body, cast steel, side entry design



Class 150
Dimensions and weight

| Full Port | | | | | | | | | | | |
|-----------|-----|-------|-----|-------|------|-------|-----|-------|------|--------|------|
| Size | | d | | L | | H | | W | | Weight | |
| NPS | DN | in | mm | in | mm | in | mm | in | mm | lb | Kg |
| 2 | 50 | 2.01 | 51 | 7.01 | 178 | 6.50 | 165 | 9.06 | 230 | 37.5 | 17 |
| 3 | 80 | 2.99 | 76 | 7.99 | 203 | 7.60 | 193 | 15.75 | 400 | 72.8 | 33 |
| 4 | 100 | 4.02 | 102 | 9.02 | 229 | 9.09 | 231 | 18.11 | 460 | 110.2 | 50 |
| 6 | 150 | 5.98 | 152 | 15.51 | 394 | 12.95 | 329 | 39.37 | 1000 | 205.0 | 93 |
| 8 | 200 | 7.99 | 203 | 17.99 | 457 | 15.47 | 393 | 19.69 | *500 | 366.0 | 166 |
| 10 | 250 | 10.00 | 254 | 20.98 | 533 | 15.79 | 401 | 19.69 | *500 | 601.9 | 273 |
| 12 | 300 | 12.01 | 305 | 24.02 | 610 | 17.36 | 441 | 19.69 | *500 | 1047.2 | 475 |
| 14 | 350 | 13.27 | 337 | 27.01 | 686 | 18.94 | 481 | 19.69 | *500 | 1256.6 | 570 |
| 16 | 400 | 15.24 | 387 | 30.00 | 762 | 23.54 | 598 | 19.69 | *500 | 1715.2 | 778 |
| 18 | 450 | 17.24 | 438 | 34.02 | 864 | 25.31 | 643 | 19.69 | *500 | 2061.3 | 935 |
| 20 | 500 | 19.25 | 489 | 35.98 | 914 | 27.87 | 708 | 19.69 | *500 | 2623.5 | 1190 |
| 22 | 550 | 21.26 | 540 | 40.00 | 1016 | 31.42 | 798 | 19.69 | *500 | 2967.4 | 1346 |
| 24 | 600 | 23.27 | 591 | 42.01 | 1067 | 33.98 | 863 | 19.69 | *500 | 3481.0 | 1579 |

| Reduced Port | | | | | | | | | | | | | |
|--------------|---------|-------|-----|-------|-----|-------|------|-------|-----|-------|------|--------|------|
| Size | | d | | D | | L | | H | | W | | Weight | |
| NPS | DN | in | mm | in | mm | in | mm | in | mm | in | mm | lb | Kg |
| 3*2 | 80*50 | 2.01 | 51 | 2.99 | 76 | 7.99 | 203 | 6.50 | 165 | 9.06 | 230 | 66.1 | 30 |
| 4*3 | 100*80 | 2.99 | 76 | 4.02 | 102 | 9.02 | 229 | 7.60 | 193 | 15.75 | 400 | 103.6 | 47 |
| 6*4 | 150*100 | 4.02 | 102 | 5.98 | 152 | 15.51 | 394 | 9.09 | 231 | 15.75 | 400 | 198.4 | 90 |
| 8*6 | 200*150 | 5.98 | 152 | 7.99 | 203 | 17.99 | 457 | 12.95 | 329 | 18.11 | 460 | 354.9 | 161 |
| 10*8 | 250*200 | 7.99 | 203 | 10.00 | 254 | 20.98 | 533 | 15.47 | 393 | 39.37 | 1000 | 590.8 | 268 |
| 12*10 | 300*250 | 10.00 | 254 | 12.01 | 305 | 24.02 | 610 | 15.47 | 393 | 19.69 | *500 | 1029.5 | 467 |
| 14*12 | 350*300 | 12.01 | 305 | 13.27 | 337 | 27.01 | 686 | 17.36 | 441 | 19.69 | *500 | 1234.6 | 560 |
| 16*14 | 400*350 | 13.27 | 337 | 15.24 | 387 | 30.00 | 762 | 18.94 | 481 | 19.69 | *500 | 1688.7 | 766 |
| 18*16 | 450*400 | 15.24 | 387 | 17.24 | 438 | 34.02 | 864 | 23.54 | 598 | 19.69 | *500 | 1988.5 | 902 |
| 20*18 | 500*450 | 17.24 | 438 | 19.25 | 489 | 35.98 | 914 | 25.31 | 643 | 19.69 | *500 | 2491.2 | 1130 |
| 22*20 | 550*500 | 19.25 | 489 | 21.26 | 540 | 40.00 | 1016 | 25.31 | 643 | 19.69 | *500 | 2866.0 | 1300 |
| 24*20 | 600*500 | 19.25 | 489 | 23.27 | 591 | 42.01 | 1067 | 27.87 | 708 | 19.69 | *500 | 3351.0 | 1520 |

Class 300 Dimensions and weight

| Full Port | | | | | | | | | | | |
|-----------|-----|-------|-----|-------|------|-------|-----|-------|------|--------|------|
| Size | | d | | L | | H | | W | | Weight | |
| NPS | DN | in | mm | in | mm | in | mm | in | mm | lb | Kg |
| 2 | 50 | 2.01 | 51 | 8.50 | 216 | 6.50 | 165 | 9.06 | 230 | 39.7 | 18 |
| 3 | 80 | 2.99 | 76 | 11.14 | 283 | 7.60 | 193 | 15.75 | 400 | 88.2 | 40 |
| 4 | 100 | 4.02 | 102 | 12.01 | 305 | 9.09 | 231 | 2.95 | 75 | 138.9 | 63 |
| 6 | 150 | 5.98 | 152 | 15.87 | 403 | 12.95 | 329 | 39.37 | 1000 | 330.7 | 150 |
| 8 | 200 | 7.99 | 203 | 19.76 | 502 | 15.47 | 393 | 59.06 | 1500 | 529.1 | 240 |
| 10 | 250 | 10.00 | 254 | 22.36 | 568 | 15.79 | 401 | 19.69 | *500 | 672.4 | 305 |
| 12 | 300 | 12.01 | 305 | 25.51 | 648 | 17.36 | 441 | 19.69 | *500 | 1117.7 | 507 |
| 14 | 350 | 13.27 | 337 | 30.00 | 762 | 18.94 | 481 | 19.69 | *500 | 1327.2 | 602. |
| 16 | 400 | 15.24 | 387 | 32.99 | 838 | 23.54 | 598 | 19.69 | *500 | 2204.6 | 1000 |
| 18 | 450 | 17.24 | 438 | 35.98 | 914 | 25.31 | 643 | 19.69 | *500 | 2557.3 | 1160 |
| 20 | 500 | 19.25 | 489 | 39.02 | 991 | 27.87 | 708 | 19.69 | *500 | 2910.1 | 1320 |
| 22 | 550 | 21.26 | 540 | 42.99 | 1092 | 31.42 | 798 | 19.69 | *500 | 3395.1 | 1540 |
| 24 | 600 | 23.27 | 591 | 45.00 | 1143 | 33.98 | 863 | 19.69 | *500 | 4131.4 | 1874 |

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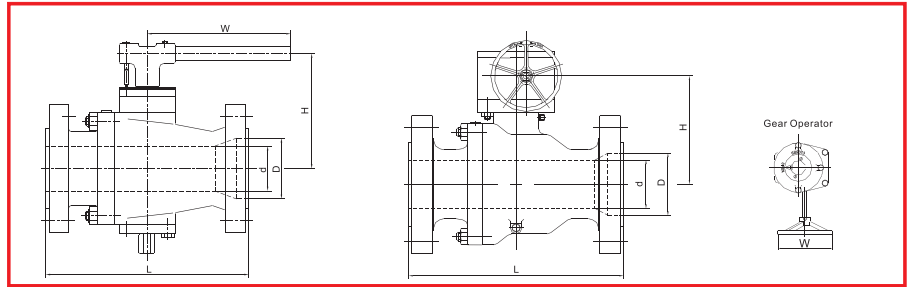
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BT Series Ball Valve

split body cast steel side entry design

Class 300
Dimensions and weight



| Reduced Port | | | | | | | | | | | | | |
|--------------|---------|-------|-----|-------|-----|-------|------|-------|-----|-------|------|--------|------|
| Size | | d | | D | | L | | H | | W | | Weight | |
| NPS | DN | in | mm | in | mm | in | mm | in | mm | in | mm | lb | Kg |
| 3*2 | 80*50 | 2.01 | 51 | 2.99 | 76 | 11.14 | 283 | 6.50 | 165 | 9.06 | 230 | 83.8 | 38 |
| 4*3 | 100*80 | 2.99 | 76 | 4.02 | 102 | 12.01 | 305 | 7.60 | 193 | 15.75 | 400 | 132.3 | 60 |
| 6*4 | 150*100 | 4.02 | 102 | 5.98 | 152 | 15.87 | 403 | 9.09 | 231 | 29.53 | 750 | 324.1 | 147 |
| 8*6 | 200*150 | 5.98 | 152 | 7.99 | 203 | 19.76 | 502 | 12.95 | 329 | 39.37 | 1000 | 515.9 | 234 |
| 10*8 | 250*200 | 7.99 | 203 | 10.00 | 254 | 22.36 | 568 | 15.47 | 393 | 59.06 | 1500 | 650.4 | 295 |
| 12*10 | 300*250 | 10.00 | 254 | 12.01 | 305 | 25.51 | 648 | 15.47 | 393 | 19.69 | *500 | 1075.8 | 488 |
| 14*12 | 350*300 | 12.01 | 305 | 13.27 | 337 | 30.00 | 762 | 17.36 | 441 | 19.69 | *500 | 1256.6 | 570 |
| 16*14 | 400*350 | 13.27 | 337 | 15.24 | 387 | 32.99 | 838 | 18.94 | 481 | 19.69 | *500 | 2006.2 | 910 |
| 18*16 | 450*400 | 15.24 | 387 | 17.24 | 438 | 35.98 | 914 | 23.54 | 598 | 19.69 | *500 | 2248.7 | 1020 |
| 20*18 | 500*450 | 17.24 | 438 | 19.25 | 489 | 39.02 | 991 | 25.31 | 643 | 19.69 | *500 | 2821.9 | 1280 |
| 22*20 | 550*500 | 19.25 | 489 | 21.26 | 540 | 42.99 | 1092 | 25.31 | 643 | 19.69 | *500 | 2998.2 | 1360 |
| 24*20 | 600*500 | 19.25 | 489 | 23.27 | 591 | 45.00 | 1143 | 27.87 | 708 | 19.69 | *500 | 3681.7 | 1670 |

Class 600 Dimensions and weight

| Full Port | | | | | | | | | | | | |
|-----------|-----|-------|-----|-------|------|-------|-----|-------|------|--------|------|--|
| Size | | d | | L | | H | | W | | Weight | | |
| NPS | DN | in | mm | in | mm | in | mm | in | mm | lb | Kg | |
| 2 | 50 | 2.01 | 51 | 11.50 | 292 | 6.93 | 176 | 15.75 | 400 | 59.5 | 27 | |
| 3 | 80 | 2.99 | 76 | 14.02 | 356 | 9.72 | 247 | 29.53 | 750 | 110.2 | 50 | |
| 4 | 100 | 4.02 | 102 | 17.01 | 432 | 10.87 | 276 | 39.37 | 1000 | 176.4 | 80 | |
| 6 | 150 | 5.98 | 152 | 22.01 | 559 | 14.29 | 363 | 59.06 | 1500 | 775.6 | 351 | |
| 8 | 200 | 7.99 | 203 | 25.98 | 660 | 14.29 | 363 | 19.69 | *500 | 771.6 | 350 | |
| 10 | 250 | 10.00 | 254 | 30.98 | 787 | 16.77 | 426 | 19.69 | *500 | 1322.8 | 600 | |
| 12 | 300 | 12.01 | 305 | 32.99 | 838 | 21.57 | 548 | 19.69 | *500 | 1807.8 | 820 | |
| 14 | 350 | 13.27 | 337 | 35.00 | 889 | 23.54 | 598 | 19.69 | *500 | 2491.2 | 1130 | |
| 16 | 400 | 15.24 | 387 | 39.02 | 991 | 25.51 | 648 | 19.69 | *500 | 3417.1 | 1550 | |
| 18 | 450 | 17.24 | 438 | 42.99 | 1092 | 29.13 | 740 | 19.69 | *500 | 4629.6 | 2100 | |
| 20 | 500 | 19.25 | 489 | 47.01 | 1194 | 31.89 | 810 | 19.69 | *500 | 6172.8 | 2800 | |
| 24 | 600 | 23.27 | 591 | 55.00 | 1397 | 36.22 | 920 | 19.69 | *500 | 7993.8 | 3626 | |

| Reduced Port | | | | | | | | | | | | | |
|--------------|---------|-------|-----|-------|-----|-------|------|-------|-----|-------|------|--------|------|
| Size | | d | | D | | L | | H | | W | | Weight | |
| NPS | DN | in | mm | in | mm | in | mm | in | mm | in | mm | lb | Kg |
| 3*2 | 80*50 | 2.01 | 51 | 2.99 | 76 | 14.02 | 356 | 6.93 | 176 | 15.75 | 400 | 90.4 | 41 |
| 4*3 | 100*80 | 2.99 | 76 | 4.02 | 102 | 17.01 | 432 | 9.72 | 247 | 29.53 | 750 | 154.3 | 70 |
| 6*4 | 150*100 | 4.02 | 102 | 5.98 | 152 | 22.01 | 559 | 10.87 | 276 | 39.37 | 1000 | 269.0 | 122 |
| 8*6 | 200*150 | 5.98 | 152 | 7.99 | 203 | 25.98 | 660 | 14.29 | 363 | 59.06 | 1500 | 562.2 | 255 |
| 10*8 | 250*200 | 7.99 | 203 | 10.00 | 254 | 30.98 | 787 | 14.29 | 363 | 19.69 | *500 | 970.0 | 440 |
| 12*10 | 300*250 | 10.00 | 254 | 12.01 | 305 | 32.99 | 838 | 16.77 | 426 | 19.69 | *500 | 1366.8 | 620 |
| 14*12 | 350*300 | 12.01 | 305 | 13.27 | 337 | 35.00 | 889 | 21.57 | 548 | 19.69 | *500 | 2336.9 | 1060 |
| 16*14 | 400*350 | 13.27 | 337 | 15.24 | 387 | 39.02 | 991 | 23.54 | 598 | 19.69 | *500 | 3174.6 | 1440 |
| 18*16 | 450*400 | 15.24 | 387 | 17.24 | 438 | 42.99 | 1092 | 25.51 | 648 | 19.69 | *500 | 4100.5 | 1860 |
| 20*18 | 500*450 | 17.24 | 438 | 19.25 | 489 | 47.01 | 1194 | 29.13 | 740 | 19.69 | *500 | 5291.0 | 2400 |
| 24*20 | 600*500 | 19.25 | 489 | 23.27 | 591 | 55.00 | 1397 | 31.89 | 810 | 19.69 | *500 | 7142.9 | 3240 |

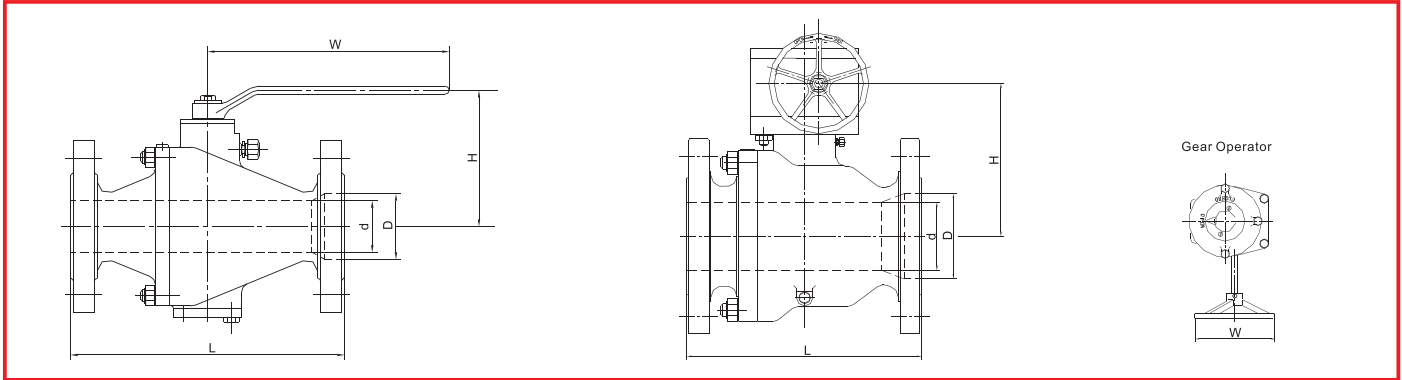
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BT Series Ball Valve

split body cast steel side entry design



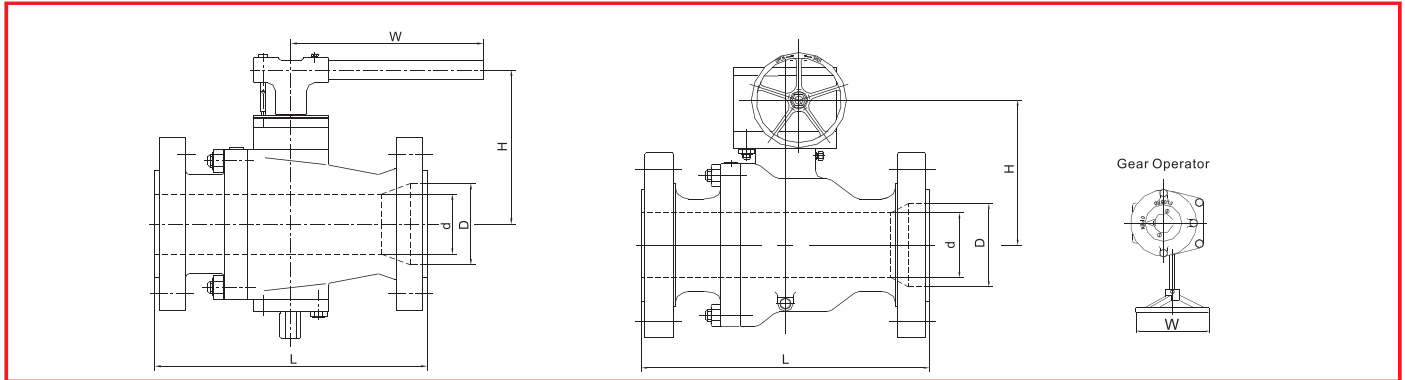
Class 900 Dimensions and weight

| Full Port | | | | | | | | | | | |
|-----------|-----|-------|-----|-------|------|-------|-----|-------|------|--------|------|
| Size | | d | | L | | H | | W | | Weight | |
| NPS | DN | in | mm | in | mm | in | mm | in | mm | lb | Kg |
| 2 | 50 | 2.01 | 51 | 14.49 | 368 | 7.56 | 192 | 18.11 | 460 | 114.6 | 52 |
| 3 | 80 | 2.99 | 76 | 15.00 | 381 | 9.80 | 249 | 39.37 | 1000 | 213.8 | 97 |
| 4 | 100 | 4.02 | 102 | 17.99 | 457 | 12.40 | 315 | 59.06 | 1500 | 304.2 | 138 |
| 6 | 150 | 5.98 | 152 | 24.02 | 610 | 12.72 | 323 | 19.69 | *500 | 634.9 | 288 |
| 8 | 200 | 7.99 | 203 | 29.02 | 737 | 15.00 | 381 | 19.69 | *500 | 987.7 | 448 |
| 10 | 250 | 10.00 | 254 | 32.99 | 838 | 20.39 | 518 | 19.69 | *500 | 1649.0 | 748 |
| 12 | 300 | 12.01 | 305 | 37.99 | 965 | 22.36 | 568 | 19.69 | *500 | 2244.3 | 1018 |
| 14 | 350 | 12.76 | 324 | 40.51 | 1029 | 26.18 | 665 | 19.69 | *500 | 3082.0 | 1398 |
| 16 | 400 | 14.76 | 375 | 44.49 | 1130 | 28.74 | 730 | 19.69 | *500 | 4030.0 | 1828 |
| 18 | 450 | 16.73 | 425 | 47.99 | 1219 | 31.30 | 795 | 19.69 | *500 | 5132.3 | 2328 |
| 20 | 500 | 18.62 | 473 | 52.01 | 1321 | 32.48 | 825 | 24.02 | *610 | 6455.0 | 2928 |
| 24 | 600 | 22.52 | 572 | 60.98 | 1549 | 38.31 | 973 | 24.02 | *610 | 9210.8 | 4178 |

| Reduced Port | | | | | | | | | | | | | |
|--------------|---------|-------|-----|-------|-----|-------|------|-------|-----|-------|------|--------|------|
| Size | | d | | D | | L | | H | | W | | Weight | |
| NPS | DN | in | mm | in | mm | in | mm | in | mm | in | mm | lb | Kg |
| 3*2 | 80*50 | 2.01 | 51 | 2.99 | 76 | 15.00 | 381 | 7.56 | 192 | 18.11 | 460 | 183.0 | 83 |
| 4*3 | 100*80 | 2.99 | 76 | 4.02 | 102 | 17.99 | 457 | 9.80 | 249 | 39.37 | 1000 | 227.1 | 103 |
| 6*4 | 150*100 | 4.02 | 102 | 5.98 | 152 | 24.02 | 610 | 12.40 | 315 | 59.06 | 1500 | 443.1 | 201 |
| 8*6 | 200*150 | 5.98 | 152 | 7.99 | 203 | 29.02 | 737 | 12.72 | 323 | 19.69 | *500 | 767.2 | 348 |
| 10*8 | 250*200 | 7.99 | 203 | 10.00 | 254 | 32.99 | 838 | 15.00 | 381 | 19.69 | *500 | 1318.3 | 598 |
| 12*10 | 300*250 | 10.00 | 254 | 12.01 | 305 | 37.99 | 965 | 20.39 | 518 | 19.69 | *500 | 1737.2 | 788 |
| 14*12 | 350*300 | 12.01 | 305 | 12.76 | 324 | 40.51 | 1029 | 22.36 | 568 | 19.69 | *500 | 2425.0 | 1100 |
| 16*14 | 400*350 | 12.76 | 324 | 14.76 | 375 | 44.49 | 1130 | 26.18 | 665 | 19.69 | *500 | 3130.5 | 1420 |
| 18*16 | 450*400 | 14.76 | 375 | 16.73 | 425 | 47.99 | 1219 | 28.74 | 730 | 19.69 | *500 | 4250.4 | 1928 |
| 20*18 | 500*450 | 16.73 | 425 | 18.62 | 473 | 52.01 | 1321 | 31.30 | 795 | 19.69 | *500 | 5352.7 | 2428 |
| 24*20 | 600*500 | 18.62 | 473 | 22.52 | 572 | 60.98 | 1549 | 32.48 | 825 | 24.02 | *610 | 7888.0 | 3578 |



HOW TO ORDER - EXAMPLE



Class 1500 Dimensions and weight

| Full Port | | | | | | | | | | | |
|-----------|-----|-------|-----|-------|------|-------|-----|-------|------|---------|------|
| Size | | d | | L | | H | | W | | Weight | |
| NPS | DN | in | mm | in | mm | in | mm | in | mm | lb | Kg |
| 2 | 50 | 2.01 | 51 | 14.49 | 368 | 9.92 | 252 | 29.53 | 750 | 189.6 | 86 |
| 3 | 80 | 2.99 | 76 | 18.50 | 470 | 11.81 | 300 | 59.06 | 1500 | 299.8 | 136 |
| 4 | 100 | 4.02 | 102 | 21.50 | 546 | 10.71 | 272 | 19.69 | *500 | 487.2 | 221 |
| 6 | 150 | 5.75 | 146 | 27.76 | 705 | 13.43 | 341 | 19.69 | *500 | 855.4 | 388 |
| 8 | 200 | 7.64 | 194 | 32.76 | 832 | 19.41 | 493 | 19.69 | *500 | 1278.7 | 580 |
| 10 | 250 | 9.49 | 241 | 39.02 | 991 | 22.24 | 565 | 19.69 | *500 | 2089.9 | 948 |
| 12 | 300 | 11.38 | 289 | 44.49 | 1130 | 27.56 | 700 | 19.69 | *500 | 2949.7 | 1338 |
| 14 | 350 | 12.52 | 318 | 49.49 | 1257 | 29.41 | 747 | 19.69 | *500 | 3853.6 | 1748 |
| 16 | 400 | 14.25 | 362 | 54.49 | 1384 | 31.30 | 795 | 24.02 | *610 | 4911.8 | 2228 |
| 18 | 450 | 16.02 | 407 | 60.51 | 1537 | 34.53 | 877 | 24.02 | *610 | 6283.1 | 2850 |
| 20 | 500 | 17.99 | 457 | 65.51 | 1664 | 38.78 | 985 | 24.02 | *610 | 10714.3 | 4860 |

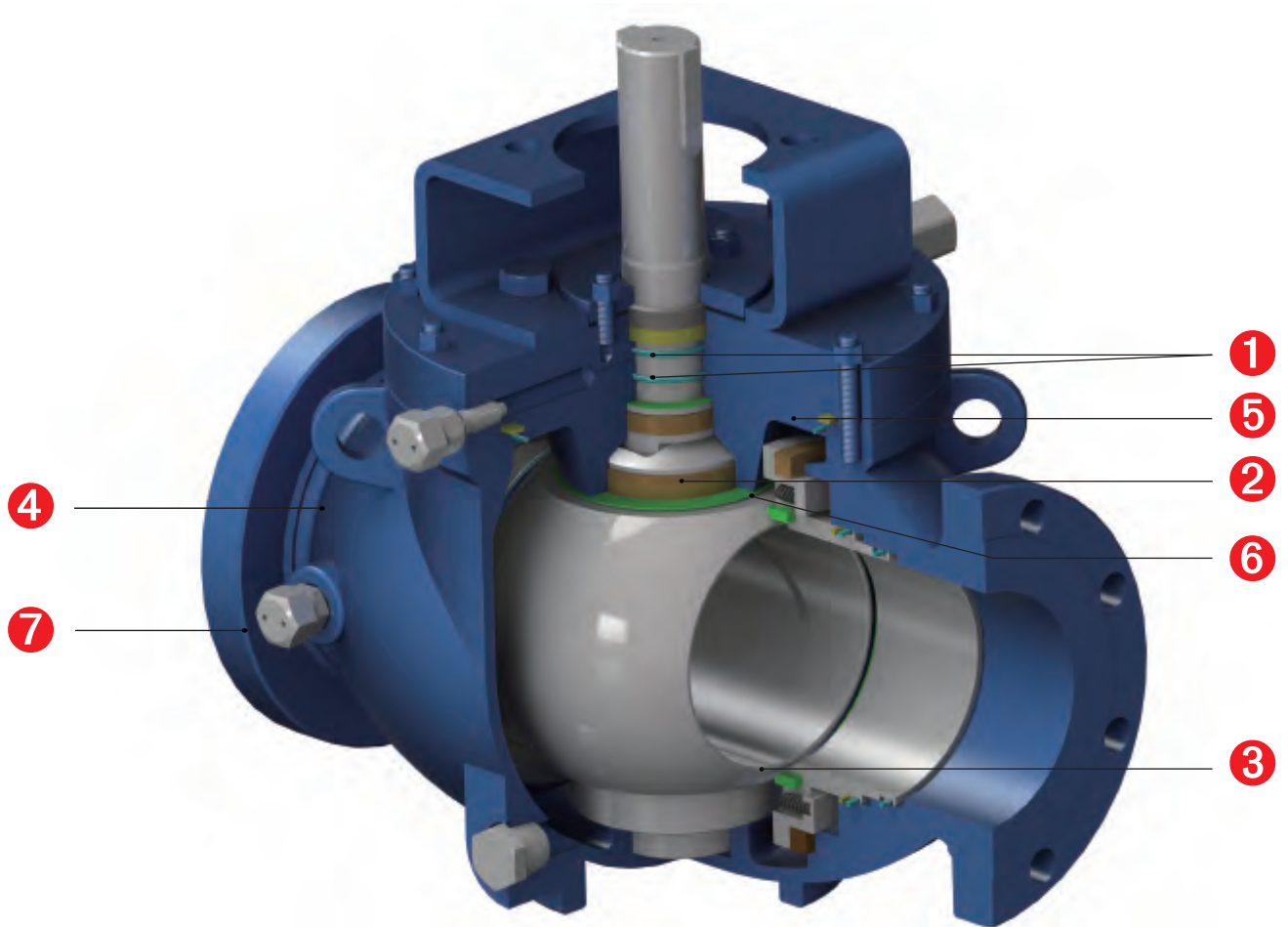
| Reduced Port | | | | | | | | | | | | | |
|--------------|---------|-------|-----|-------|-----|-------|------|-------|-----|-------|------|--------|------|
| Size | | d | | D | | L | | H | | W | | Weight | |
| NPS | DN | in | mm | in | mm | in | mm | in | mm | in | mm | lb | Kg |
| 3*2 | 80*50 | 2.01 | 51 | 2.99 | 76 | 18.50 | 470 | 9.92 | 252 | 29.53 | 750 | 216.0 | 98 |
| 4*3 | 100*80 | 2.99 | 76 | 4.02 | 102 | 21.50 | 546 | 11.81 | 300 | 59.06 | 1500 | 304.2 | 138 |
| 6*4 | 150*100 | 4.02 | 102 | 5.75 | 146 | 27.76 | 705 | 10.71 | 272 | 19.69 | *500 | 634.9 | 288 |
| 8*6 | 200*150 | 5.75 | 146 | 7.64 | 194 | 32.76 | 832 | 13.43 | 341 | 19.69 | *500 | 987.7 | 448 |
| 10*8 | 250*200 | 7.64 | 194 | 9.49 | 241 | 39.02 | 991 | 19.41 | 493 | 19.69 | *500 | 1649.0 | 748 |
| 12*10 | 300*250 | 9.49 | 241 | 11.38 | 289 | 44.49 | 1130 | 22.24 | 565 | 19.69 | *500 | 2248.7 | 1020 |
| 14*12 | 350*300 | 11.38 | 289 | 12.52 | 318 | 49.49 | 1257 | 27.56 | 700 | 19.69 | *500 | 3086.4 | 1400 |
| 16*14 | 400*350 | 12.52 | 318 | 14.25 | 362 | 54.49 | 1384 | 29.41 | 747 | 19.69 | *500 | 4012.3 | 1820 |
| 18*16 | 450*400 | 14.25 | 362 | 16.02 | 407 | 60.51 | 1537 | 31.30 | 795 | 24.02 | *610 | 5132.3 | 2328 |
| 20*18 | 500*450 | 16.02 | 407 | 17.99 | 457 | 65.51 | 1664 | 34.53 | 877 | 24.02 | *610 | 9082.9 | 4120 |

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BT Series Ball Valve - Design Features



- 1 Dos juntas tóricas: Evitan fugas en la zona del vástago.
- 2 Vástago a prueba de reventones: Característica de seguridad que garantiza el sellado del vástago a todas las presiones.
- 3 Sellado de respaldo metal-metal: Si los materiales del asiento blando primario se queman, el sellado metal-metal proporciona el cierre.
- 4 Cuerpo de una sola pieza: Misma rigidez que la de la tubería.
- 5 Combinación de junta tórica y empaquetadura: Evita fugas en la zona de conexión del cuerpo.
- 6 Asientos flotantes con resorte: Aseguran el sellado incluso a bajas presiones.
- 7 Conexión de inyección de sellador de emergencia: Permite la intervención externa para evitar fugas en el asiento