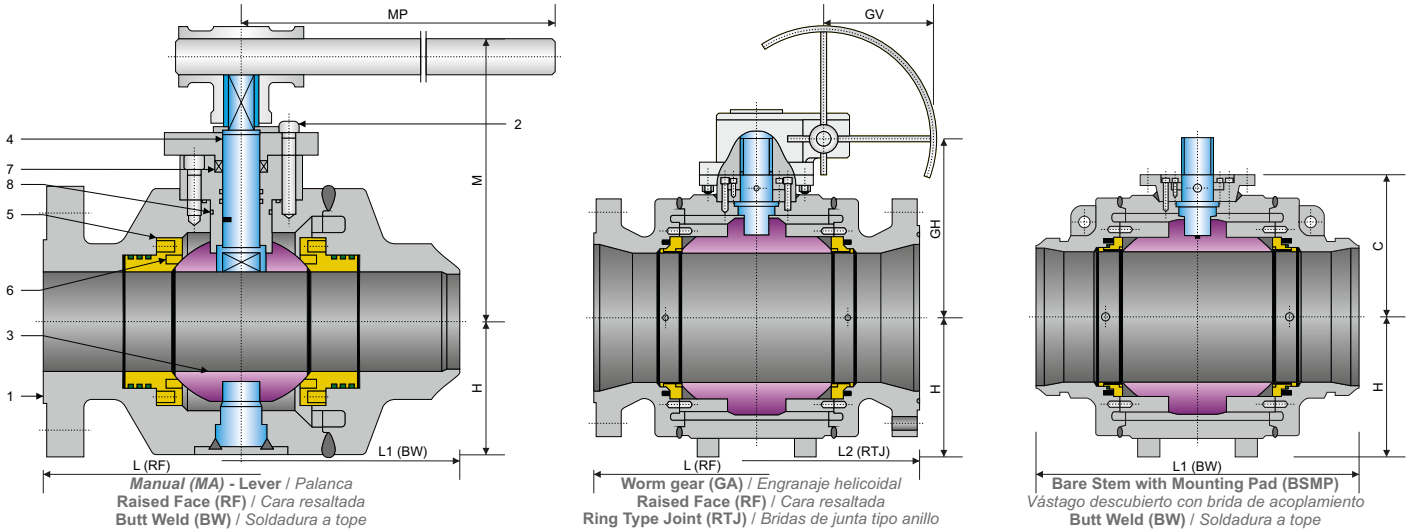


**BALL VALVES / Válvulas de bola**  
**TRUNNION**  
**TUBE-SHAPE BODY / Cuerpo en forma de tubo**  
**CLASS / Clase 900 - PN150 / PN160**  
**Fig. 5TSR09** REDUCED BORE / Paso reducido **BALL**



**SPECIFICATIONS / Especificaciones**

API / ASME

| DESIGN<br>Diseño | FACE TO FACE<br>Cara a cara | CONNECTION END / Extremos |                             | MATERIAL    | TEST & CHECK<br>Prueba y Verificación | FIRE TEST<br>Prueba de fuego | SIZES<br>Rango      |
|------------------|-----------------------------|---------------------------|-----------------------------|-------------|---------------------------------------|------------------------------|---------------------|
|                  |                             | FLANGED<br>Bridada        | BUTT WELD<br>Soldada a tope |             |                                       |                              |                     |
| API 6D           | API 6D                      | ASME B16.5                | ASME B16.25                 | NACE MR0175 | API 598                               | API 6FA<br>API 607           | 3" x 2" - 36" x 30" |
| API 6D           | API 6D                      | MSS SP-44                 |                             |             | API 6D                                |                              |                     |
| ASME B16.34      | ASME B16.10                 | ASME B16.47               |                             |             | ASME B16.34                           |                              |                     |

**MAIN PARTS MATERIAL / Material de las piezas principales**

| Nº | PART NAME<br>Nombre de pieza     | CARBON STEEL<br>Acero al Carbono   | LOW TEMPERATURE STEEL<br>Acero baja temperatura (-40°C)                                       | STAINLESS STEEL<br>Acero Inoxidable |
|----|----------------------------------|--|---|-------------------------------------|
| 1  | Body / Cuerpo                    | A105   | A350 - LF2  | A182 - F304 / A182 - F316           |
| 2  | Stud Nut / Tuerca Espárrago (1)  | A193 - B7 / A194 - 2H  | A320 - L7 / A194 - 4  | A193 - B8 / A194 - 8                |
| 2  | Stud Nut / Tuerca Espárrago (2)  | A193 - B7M / A194 - 2HM  | A320 - L7M / A194 - 4   | A193 - B8M / A194 - 8M              |
| 3  | Ball / Bola                      | A105 + ENP   | A350 - LF2 + ENP  | A182 - F304 / A182 - F316           |
| 4  | Stem / Vástago (1)               | A276 - 410 / A276 - 420  | A350 - LF2 / A276 - 304   | A276 - 304 / A276 - 316             |
| 4  | Stem / Vástago (2)               | 17 - 4PH   | For use at low temperatures resilient steels<br>Usa a bajas temperaturas los aceros elásticos | A276 - 304 / A276 - 316             |
| 5  | Seat / Asiento                   | A105 + ENP   | A350 - LF2 + ENP  | A182 - F304 / A182 - F316           |
| 6  | Seat insert / Inserto de asiento | Standard: PTFE or Nylon - Special: Peek / Devlon / Viton / Estándar PTFE o Nilón - Especial: Peek / Devlon / Viton |   |                                     |
| 7  | O-Ring                           | NBR or Viton / NBR o Viton   | HNBR or Viton / HNBR o Viton  | Viton                               |
| 8  | Gasket / Junta                   | Graphite + Stainless Steel / Grafito + Acero Inoxidable  |   |                                     |

**MAIN EXTERNAL DIMENSIONS / Dimensiones externas principales**

CLASS 900 - PN150 / PN160 (NPS 3" x 2" - 36" x 30")

| Reduced bore / Paso reducido |              |           |            |             |     |     |     |      |     |     |                |                            |
|------------------------------|--------------|-----------|------------|-------------|-----|-----|-----|------|-----|-----|----------------|----------------------------|
| DN<br>(mm.)                  | NPS<br>(in.) | L<br>(RF) | L1<br>(BW) | L2<br>(RTJ) | MA  |     | GA  |      | C   | H   | W / P<br>(Kg.) | TORQUE(Nm)<br>Esf. torsión |
|                              |              |           |            |             | MH  | MP  | GH  | GV   |     |     |                |                            |
| 80x50                        | 3" x 2"      | 381       | 381        | 384         | 148 | 650 | -   | -    | 105 | 110 | 59             | 228                        |
| 100x80                       | 4" x 3"      | 457       | 457        | 460         | 216 | 650 | 255 | 400  | 165 | 130 | 97             | 512                        |
| 150x100                      | 6" x 4"      | 610       | 610        | 613         | -   | -   | 285 | 400  | 210 | 167 | 249            | 946                        |
| 200x150                      | 8" x 6"      | 737       | 737        | 740         | -   | -   | 370 | 400  | 260 | 251 | 447            | 1784                       |
| 250x200                      | 10" x 8"     | 838       | 838        | 841         | -   | -   | 400 | 500  | 295 | 280 | 700            | 4116                       |
| 300x250                      | 12" x 10"    | 965       | 965        | 968         | -   | -   | 450 | 500  | 345 | 340 | 1148           | 5910                       |
| 350x250                      | 14" x 10"    | 1029      | 1029       | 1038        | -   | -   | 450 | 500  | 345 | 340 | 1235           | 5910                       |
| 350x300                      | 14" x 12"    | 1029      | 1029       | 1038        | -   | -   | 500 | 500  | 384 | 390 | 1643           | 10137                      |
| 400x300                      | 16" x 12"    | 1130      | 1130       | 1140        | -   | -   | 500 | 500  | 384 | 390 | 1738           | 10137                      |
| 400x350                      | 16" x 14"    | 1130      | 1130       | 1140        | -   | -   | 520 | 500  | 400 | 442 | 1829           | 14141                      |
| 450x350                      | 18" x 14"    | 1219      | 1219       | 1232        | -   | -   | 520 | 500  | 400 | 442 | 1920           | 14141                      |
| 450x400                      | 18" x 16"    | 1219      | 1219       | 1232        | -   | -   | 550 | 600  | 440 | 490 | 2437           | 18866                      |
| 500x400                      | 20" x 16"    | 1321      | 1321       | 1334        | -   | -   | 550 | 600  | 440 | 490 | 2887           | 18866                      |
| 500x450                      | 20" x 18"    | 1321      | 1321       | 1334        | -   | -   | 600 | 600  | 482 | 500 | 3260           | 22400                      |
| 600x500                      | 24" x 20"    | 1549      | 1549       | 1568        | -   | -   | 630 | 600  | 530 | 500 | 5400           | 28544                      |
| 750x600                      | 30" x 24"    | 1880      | 1880       | 1902        | -   | -   | 810 | 700  | 615 | 630 | 8750           | 43276                      |
| 900x750                      | 36" x 30"    | 2286      | 2286       | 2315        | -   | -   | 980 | 1000 | 725 | 780 | 15420          | 76000                      |

Notes / Notas:

- Approximate weights / Pesos aproximados.
- Larger diameters on request / Diámetros superiores bajo petición.
- Other material on request / Otros materiales bajo petición.
- (1) Conventional type / Tipo convencional
- (2) Sulfur resistant / Resistente al azufre

UNITS / Unidades mm