

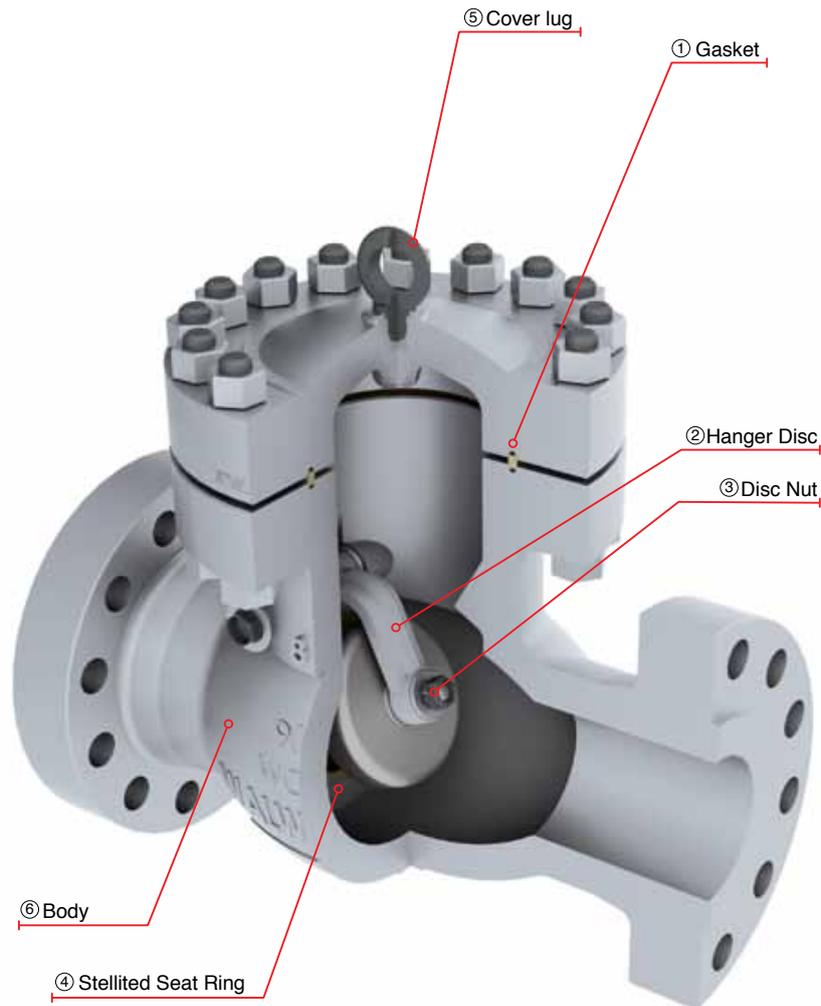
CAST STEEL SWING CHECK VALVES CLASS 900

CAST STEEL SWING CHECK VALVES

DESIGN FEATURES

- Swing check valves design in accordance with API-6D.
- Swing check valves as per API-599 available upon request.
- Swing check valves option in accordance with API-603 only for stainless steel & Nickel alloys.
- Swing check valves for cryogenic service in accordance with BS-6364.
- Flange dimensions in accordance with ASME B16.5 for valves up to 24" nominal diameter.
- Damper & Counter weight options.
- Drain connections as per Customer request.
- Low fugitive emissions control.
- NACE service either MR-01-75 or MR-01-03.
- Test in accordance with API-598.

- ① Body to Cover Joint designed to apply a uniform load to the gasket to assure a leak proof seal.
- ② Disc to Hanger connection allows the disc a controlled movement independent of the hanger to assure proper disc alignment with the seat at closure.
- ③ The connection is secured by a welded disc nut to prevent disassembly due to vibration and closure impact.
- ④ Stellited Seat Ring provides increased resistance to wear abrasion and erosion of the sealing surface.
- ⑤ From 8" and up, WALWORTH check valves have coverlug for easy installation
- ⑥ Body with heavy wall thickness as per ASME B16.34 for maximum service life. Provided with bosses for optional drains.



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Design Features

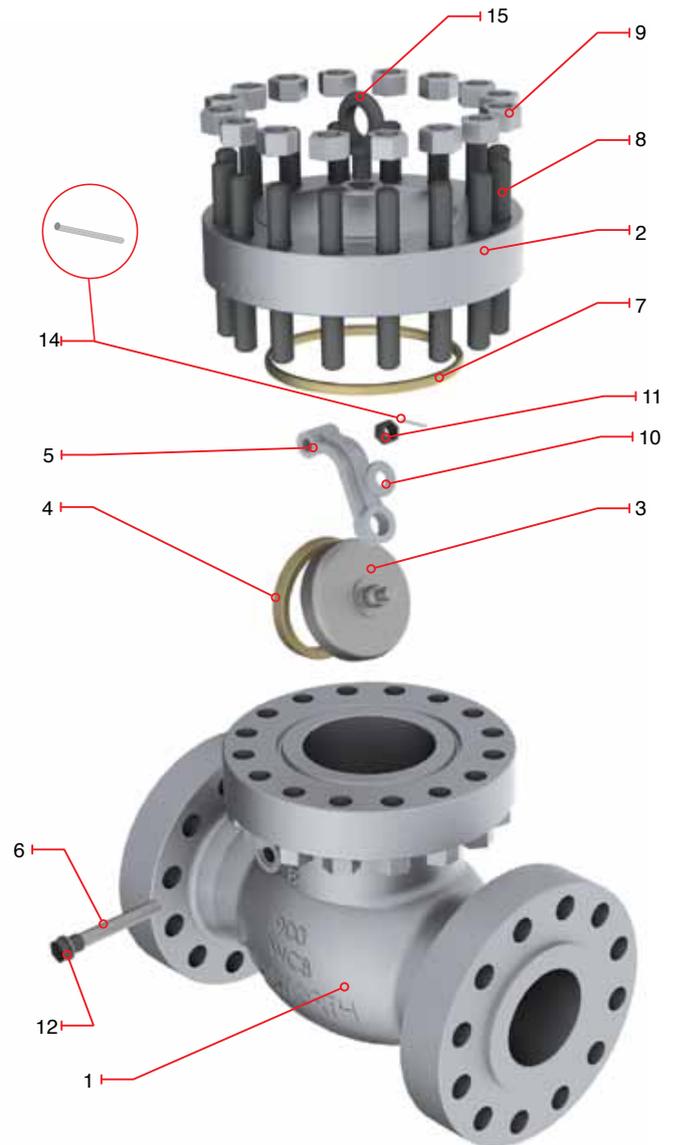
- Design in accordance with API-6D.
- Swing check valves as per API-599 available upon request.
- Flange dimensions as per ASME B16.5
- End to end dimensions as per ASME B16.10
- WE dimensions as per ASME B 16.25
- Flange dimensions larger than 24" according to ASME B16.47 Series A as standard
- Flange dimensions as per ASME B16.47 Series B available upon request

| Catalog Figure No. | ID Plant Figure No. | Type of Ends |
|--------------------|---------------------|-------------------------|
| 5353RF | 5353F | Flanged Raised Face |
| 5353RTJ | 5353RJ | Flanged Ring Type Joint |
| 5353WE | 5353WE | Buttweld |

Regular Bill of Materials

| No. | Description | WCB Trim UT |
|-----|------------------------|-----------------------------|
| 1 | Body | ASTM A 216 GR WCB |
| 2 | Cover | ASTM A 216 GR WCB |
| 3 | Disc | ASTM A 216 GR WCB + 13% Cr. |
| 4 | Seat Ring | ASTM A 515 GR 70 + ST 6 |
| 5 | Hanger | ASTM A 216 GR WCB |
| 6 | Hanger Pin | ASTM A 276 Type 410 |
| 7 | Ring Type Joint Gasket | ASTM A 108 GR 1010 |
| 8 | Cover Stud | ASTM A 193 GR B7 |
| 9 | Cover Stud Nut | ASTM A 194 GR 2H |
| 10 | Disc Washer | ASTM A 276 Type 410 |
| 11 | Disc Nut | Alloy Steel |
| 12 | Body Plug | Alloy Steel |
| *13 | Identification Plate | Stainless Steel |
| 14 | Hanger retainer | Stainless Steel |
| 15 | Cover lug | Commercial Steel |

*Not Shown



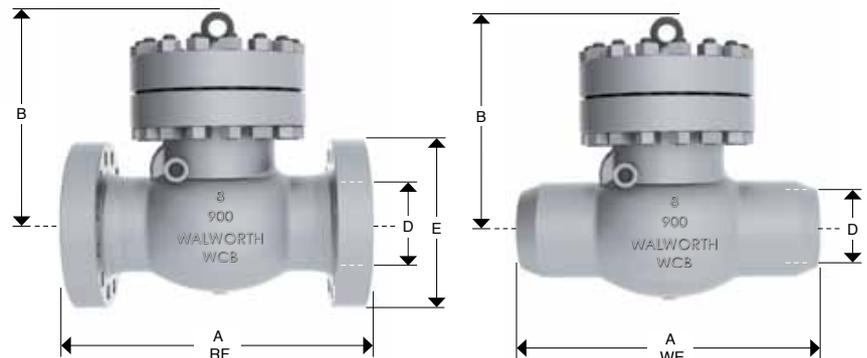
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Dimensions and Weights

| D Nominal Diameter | mm | 51 | 76 | 102 | 152 | 203 | 254 | 305 | 356 | 406 | 457 | 508 | 610 |
|--------------------------|----|--------|--------|--------|---------|---------|----------|---------|--------|--------|--------|--------|--------|
| | in | 2 | 3 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 24 |
| A (RF and WE) | mm | 368 | 381 | 457 | 610 | 737 | 838 | 965 | 1029 | 1130 | 1219 | 1321 | 1549 |
| | in | 14 1/2 | 15 | 18 | 24 | 29 | 33 | 38 | 40 1/2 | 44 1/2 | 48 | 52 | 61 |
| A* (RTJ) | mm | 371 | 384 | 460 | 613 | 740 | 841 | 968 | 1038 | 1140 | 1232 | 1334 | 1568 |
| | in | 14 5/8 | 15 1/8 | 18 1/8 | 24 1/8 | 29 1/8 | 33 1/8 | 38 1/8 | 40 7/8 | 44 7/8 | 48 1/2 | 52 1/2 | 61 3/4 |
| B | mm | 255 | 266 | 292 | 396 | 545 | 528 | 595 | 635 | PCR | PCR | PCR | PCR |
| | in | 10 | 10 1/2 | 11 1/2 | 15 9/16 | 21 7/16 | 20 13/16 | 23 7/16 | 25 | PCR | PCR | PCR | PCR |
| E | mm | 216 | 241 | 292 | 381 | 470 | 546 | 610 | 641 | 705 | 787 | 857 | 1041 |
| | in | 8 1/2 | 9 1/2 | 11 1/2 | 15 | 18 1/2 | 21 1/2 | 24 | 25 1/4 | 27 3/4 | 31 | 33 3/4 | 41 |
| Weight 5353RF | Kg | 64 | 93 | 127 | 263 | 505 | 1235 | 1450 | 1480 | PCR | PCR | PCR | PCR |
| | lb | 141 | 205 | 279 | 579 | 1111 | 2717 | 3190 | 3256 | PCR | PCR | PCR | PCR |
| Weight 5353WE | Kg | 54 | 79 | 108 | 224 | 429 | 1087 | 1276 | 1285 | PCR | PCR | PCR | PCR |
| | lb | 120 | 174 | 237 | 492 | 944 | 2391 | 2807 | 2827 | PCR | PCR | PCR | PCR |

PCR = Per customer request