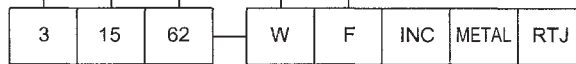


Wafer Check Valves

ORDERING INSTRUCTIONS

| SIZE | PRESSURE RATING | TYPE | BODY/DISC MATERIAL | | |
|------|-----------------|-----------------------------------|--------------------|------------|---------------|
| | | | Suffix | ASTM Grade | Category |
| 2" | 12 - 125# | 60 - Cast Iron | W - WCB | | - Cast Steel |
| 2½" | 15 - 150# | 61 - Cast Steel, Metal Seat | Z - A126-B | | - Cast Iron |
| 3" | 30 - 300# | 62 - Cast Steel, Rubber Seat | F - CF8M | | - 316 |
| 4" | 60 - 600# | 63 - Stainless Steel, Metal Seat | | | |
| 5" | 90 - 900# | 64 - Stainless Steel, Rubber Seat | A - CN7M | | - Alloy 20 |
| 6" | 150 - 1500# | | C - CF8 | | - 304 |
| 8" | 250 - 2500# | | CL - CF3 | | - 304L |
| 10" | | | CN - CF8-C | | - 347 |
| 12" | | | CT - CF8-T | | - 321 |
| 14" | | | D - CD4MCu | | - Duplex-SS |
| 16" | | | FL - CF3M | | - 316L |
| 18" | | | G - CG8M | | - 317 |
| 20" | | | GL - CG3M | | - 317L |
| 24" | | | HB - N12MV | | - Hastelloy B |
| 30" | | | HC - CW12MW | | - Hastelloy C |
| 36" | | | IN - CY40 | | - Inconel |
| | | | L - LCC | | - LCC |
| | | | M1 - M35-1 | | - Monel |
| | | | M2 - M35-2 | | - Monel |
| | | | M3 - M35-H | | - Monel |
| | | | N - CZ100 | | - Nickel |
| | | | SM - CK3M CuN | | - 254SMO |



| SPRING | SEAT | OPTIONS | Example: |
|--|--|---|--|
| Inconel X-750 316 Monel Hastelloy C Alloy 20 | Metal Buna EPDM Viton Teflon | RTJ - End Connection LUG - Lugged Body FE - Flanged Body NACE - NACE | To order a 3" 150# RTJ CS metal-seated Wafer Check valve with Inconel X-750 spring and 316 SS disc, use ordering number 31562-WF INC METAL RTJ |



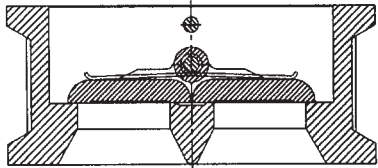
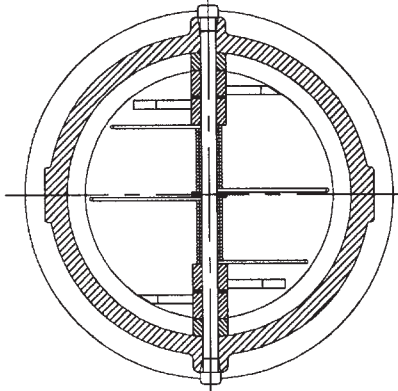
Wafer Check Valve Features



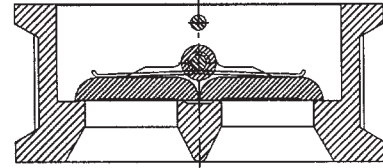
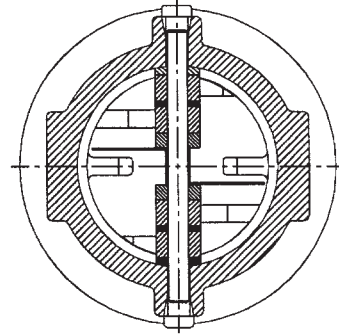
Design Features

- **Economical, lightweight, compact design - significantly lighter and less expensive than comparable swing check valves**
- **Easy to install and maintain**
- **Smooth, spring-assisted closing reduces water hammer**
- **Long-legged springs allow plates to open and close without seat scrubbing**
- **Rugged Inconel X-750 spring is standard in all steel and stainless steel valves**
- **Innovative 316 SS seat, standard in all WCB metal-seated valves, combined with standard 316 SS plates provides a true all stainless steel seating area**
- **All WCB and 316 SS valves conform to NACE MR-01-75**
- **Manufactured to API 594 and tested to API 598**

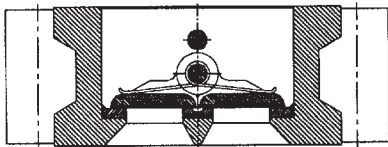
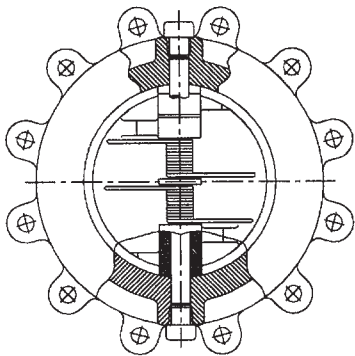
Wafer Check Valve Models



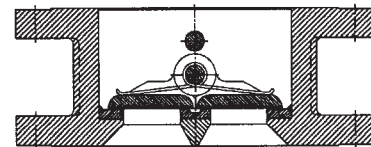
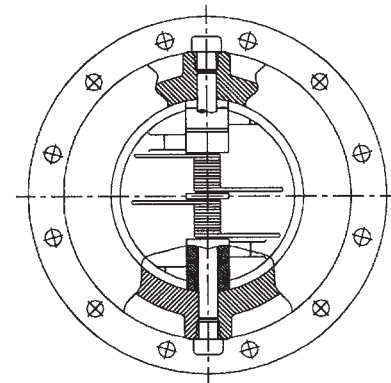
WAFER STYLE - 6" to 36"



WAFER STYLE - 2" to 4"

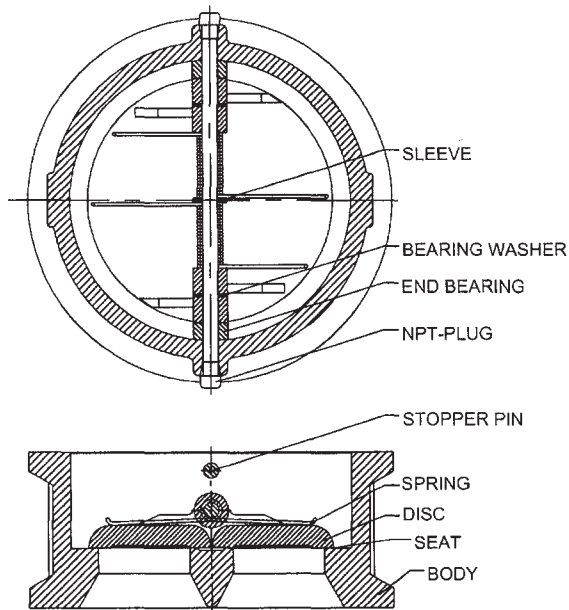


LUG STYLE



FLANGED STYLE

Standard Construction Materials



DESIGN SPECIFICATIONS

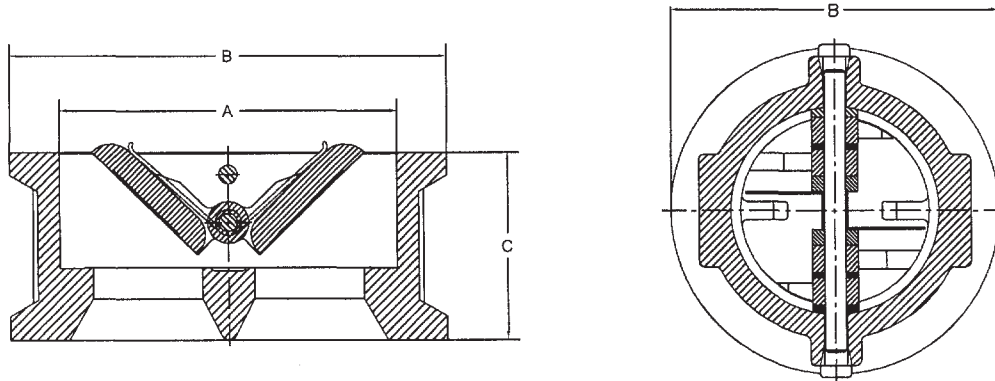
General Valve Design: API 594
Working Pressure: ASME B16.34
Flanges: ASME B16.34
Face to Face Dimension: API 594
Materials: ASTM
Valve Testing: API 598

| PART NAME | CAST IRON / BRONZE | CAST IRON / 316 SS |
|----------------|--------------------|--------------------|
| BODY | A 126 CAST IRON | A 126 CAST IRON |
| DISC | ALUMINUM BRONZE | A 351 CF8M |
| SPRING | 316 | 316 |
| STOPPER PIN | 316 | 316 |
| NPT-PLUG | 316 | 316 |
| END BEARING | 316 | 316 |
| BEARING WASHER | 316 | 316 |
| SLEEVE | 316 | 316 |
| SEAT | BUNA-N OR VITON | BUNA-N OR VITON |

| PART NAME | WCB / 316 SS | 316 SS / 316 SS | CN7M / CN7M |
|----------------|---------------|-----------------|---------------|
| BODY | A 216-WCB | A 351-CF8M | CN7M |
| DISC | A 351-CF8M | A 351-CF8M | CN7M |
| SPRING | INCONEL X-750 | INCONEL X-750 | INCONEL X-750 |
| STOPPER PIN | 316 | 316 | ALLOY 20 |
| NPT-PLUG | 316 | 316 | ALLOY 20 |
| END BEARING | 316 | 316 | ALLOY 20 |
| BEARING WASHER | 316 | 316 | ALLOY 20 |
| SLEEVE | 316 | 316 | ALLOY 20 |
| SEAT | 316 OR VITON | 316 OR VITON | A20 OR VITON |

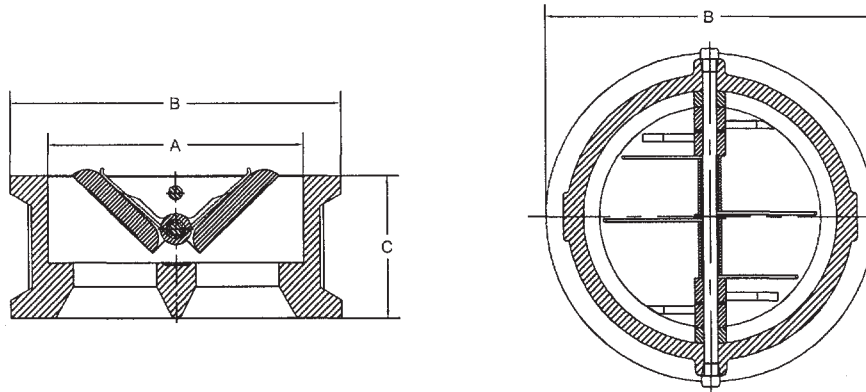


ANSI Installation Dimensions



| SIZE | CLASS | A | | B | | C | | Weight | |
|----------------|-------|-------|-------|-------|-------|-------|-------|--------|------|
| | | INCH | MM | INCH | MM | INCH | MM | LBS | KGS |
| 2" 50mm | 125 | 2.375 | 60.3 | 4.125 | 105 | 2.125 | 54 | 4 | 1.8 |
| | 150 | 2.375 | 60.3 | 4.125 | 105 | 2.375 | 60.5 | 6 | 2.7 |
| | 300 | 2.375 | 60.3 | 4.375 | 111 | 2.375 | 60.5 | 7 | 3.2 |
| | 600 | 2.375 | 60.3 | 4.375 | 111 | 2.375 | 60.5 | 7 | 3.2 |
| | 900 | 2.375 | 60.3 | 5.625 | 143 | 2.75 | 69.85 | 14 | 6.4 |
| | 1500 | 2.375 | 60.3 | 5.625 | 143 | 2.75 | 69.85 | 14 | 6.4 |
| 2-1/2" 65mm | 2500 | 2.375 | 60.3 | 5.75 | 146 | 2.75 | 69.85 | 15 | 6.8 |
| | 125 | 2.875 | 73 | 4.875 | 124 | 2.125 | 54 | 6 | 2.7 |
| | 150 | 2.875 | 73 | 4.875 | 124 | 2.62 | 66.55 | 10 | 4.5 |
| | 300 | 2.875 | 73 | 5.125 | 130 | 2.62 | 66.55 | 11 | 5 |
| | 600 | 2.875 | 73 | 5.125 | 130 | 2.62 | 66.55 | 11 | 5 |
| | 900 | 2.875 | 73 | 6.5 | 165 | 3.25 | 83 | 16 | 7.3 |
| 3" 80mm | 1500 | 2.875 | 73 | 6.5 | 165 | 3.25 | 83 | 16 | 7.3 |
| | 2500 | 2.875 | 73 | 6.625 | 168 | 3.25 | 83 | 22 | 10 |
| | 125 | 3.5 | 88.8 | 5.375 | 137 | 2.25 | 57 | 7 | 3.2 |
| | 150 | 3.5 | 88.8 | 5.375 | 137 | 2.875 | 73.15 | 13 | 5.9 |
| | 300 | 3.5 | 88.8 | 5.875 | 149 | 2.875 | 73.15 | 15 | 6.8 |
| | 600 | 3.5 | 88.8 | 5.875 | 149 | 2.875 | 73.15 | 15 | 6.8 |
| 4" 100mm | 900 | 3.5 | 88.8 | 6.625 | 168 | 3.25 | 82.55 | 24 | 10.9 |
| | 1500 | 3.5 | 88.8 | 6.875 | 174.6 | 3.25 | 82.55 | 25 | 11.3 |
| | 2500 | 3.5 | 88.8 | 7.75 | 197 | 3.375 | 85.85 | 31 | 14.1 |
| | 125 | 4.5 | 114.8 | 6.875 | 175 | 2.5 | 64 | 12 | 5.4 |
| | 150 | 4.5 | 114.8 | 6.875 | 175 | 2.875 | 73.15 | 17 | 7.7 |
| | 300 | 4.5 | 114.8 | 7.125 | 181 | 2.875 | 73.15 | 18 | 8.2 |
| 5" 125mm | 600 | 4.5 | 114.8 | 7.625 | 194 | 3.12 | 79.25 | 26 | 11.8 |
| | 900 | 4.5 | 114.8 | 8.125 | 206.4 | 4 | 101.6 | 40 | 18.1 |
| | 1500 | 4.5 | 114.8 | 8.25 | 209.6 | 4 | 101.6 | 43 | 19.5 |
| | 2500 | 4.5 | 114.8 | 9.25 | 235 | 4.12 | 104.7 | 54 | 24.5 |
| 5" 125mm | 125 | 5.5 | 141 | 7.75 | 197 | 2.75 | 70 | 15 | 6.8 |
| | 150 | 5.62 | 142.8 | 7.75 | 197 | 3.38 | 86 | 27 | 12.2 |
| | 300 | 5.62 | 142.8 | 8.5 | 216 | 3.38 | 86 | 35 | 15.9 |
| | 600 | 5.62 | 142.8 | 9.5 | 241 | 4.125 | 105 | 50 | 22.7 |

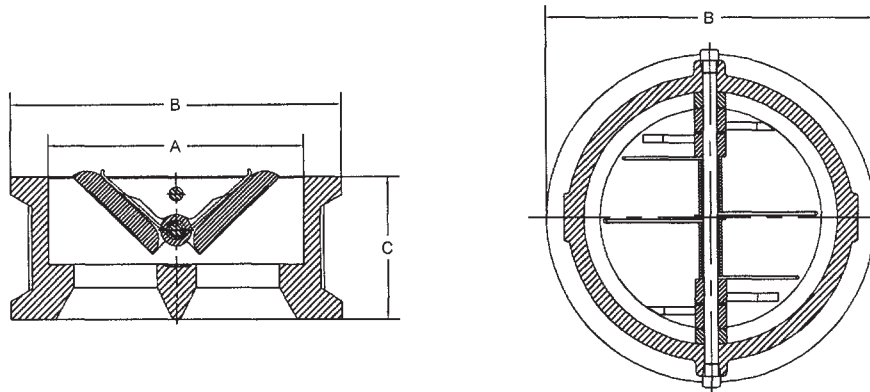
ANSI Installation Dimensions



| SIZE | CLASS | A | | B | | C | | Weight | |
|--------------|-------|-------|-------|-------|-------|-------|-------|--------|-----|
| | | INCH | MM | INCH | MM | INCH | MM | LBS | KGS |
| 6" 150mm | 125 | 6.625 | 168 | 8.75 | 222 | 3 | 76 | 20 | 9 |
| | 150 | 6.625 | 168 | 8.75 | 222 | 3.875 | 98.55 | 35 | 16 |
| | 300 | 6.625 | 168 | 9.875 | 251 | 3.875 | 98.55 | 45 | 20 |
| | 600 | 6.625 | 168 | 10.5 | 267 | 5.375 | 136.7 | 80 | 36 |
| | 900 | 6.625 | 168 | 11.38 | 289 | 6.25 | 158.8 | 115 | 52 |
| | 1500 | 6.625 | 168 | 11.13 | 282.6 | 6.25 | 158.8 | 110 | 50 |
| | 2500 | 6.625 | 168 | 12.5 | 318 | 6.25 | 158.8 | 190 | 86 |
| 8" 200mm | 125 | 8.625 | 219.3 | 11 | 279 | 3.75 | 95 | 40 | 18 |
| | 150 | 8.625 | 219.3 | 11 | 279 | 5 | 127 | 70 | 32 |
| | 300 | 8.625 | 219.3 | 12.13 | 308 | 5 | 127 | 82 | 37 |
| | 600 | 8.625 | 219.3 | 12.64 | 321 | 6.5 | 165.1 | 135 | 61 |
| | 900 | 8.625 | 219.3 | 14.13 | 358.8 | 8.125 | 206.3 | 229 | 104 |
| | 1500 | 8.625 | 219.3 | 13.88 | 352.4 | 8.125 | 206 | 219 | 99 |
| | 2500 | 8.625 | 219.3 | 15.25 | 387 | 8.125 | 206 | 285 | 129 |
| 10" 250mm | 125 | 10.75 | 273.1 | 13.38 | 340 | 4.25 | 108 | 65 | 29 |
| | 150 | 10.75 | 273.1 | 13.38 | 340 | 5.75 | 146 | 106 | 48 |
| | 300 | 10.75 | 273.1 | 14.25 | 362 | 5.75 | 146 | 125 | 57 |
| | 600 | 10.75 | 273.1 | 15.75 | 400 | 8.375 | 212.9 | 238 | 108 |
| | 900 | 10.75 | 273.1 | 17.13 | 435 | 9.5 | 241.3 | 388 | 176 |
| | 1500 | 10.75 | 273.1 | 17.13 | 435 | 9.75 | 247.7 | 397 | 180 |
| | 2500 | 10.75 | 273.1 | 18.75 | 476 | 10 | 254 | 502 | 228 |
| 12" 300mm | 125 | 12.75 | 324 | 16.13 | 410 | 5.625 | 143 | 110 | 50 |
| | 150 | 12.75 | 324 | 16.13 | 410 | 7.12 | 180.8 | 172 | 78 |
| | 300 | 12.75 | 324 | 16.63 | 422 | 7.12 | 180.8 | 200 | 91 |
| | 600 | 12.75 | 324 | 18 | 457 | 9 | 228.6 | 333 | 151 |
| | 900 | 12.75 | 324 | 19.63 | 498.5 | 11.5 | 292.1 | 540 | 245 |
| | 1500 | 12.75 | 324 | 20.5 | 520.7 | 12 | 305 | 725 | 329 |
| | 2500 | 12.75 | 324 | 21.63 | 549 | 12 | 305 | 963 | 437 |
| 14" 350mm | 125 | 14 | 355.6 | 17.75 | 451 | 7.25 | 184.2 | 183 | 83 |
| | 150 | 14 | 355.6 | 17.75 | 451 | 7.25 | 184.2 | 200 | 91 |
| | 300 | 14 | 355.6 | 19.13 | 486 | 8.75 | 222.3 | 325 | 147 |
| | 600 | 14 | 355.6 | 19.38 | 492 | 10.75 | 273 | 455 | 206 |
| | 900 | 14 | 355.6 | 20.5 | 520.7 | 14 | 355.6 | ** | ** |
| | 1500 | 14 | 355.6 | 22.75 | 577.9 | 14 | 355.6 | ** | ** |



ANSI Installation Dimensions



| SIZE | CLASS | A | | B | | C | | Weight | |
|--------------|-------|------|-----|-------|-------|-------|-------|--------|-----|
| | | INCH | MM | INCH | MM | INCH | MM | LBS | KGS |
| 16" 400mm | 125 | 16 | 406 | 20.25 | 514 | 7.5 | 190.5 | 255 | 116 |
| | 150 | 16 | 406 | 20.25 | 514 | 7.5 | 190.5 | 275 | 125 |
| | 300 | 16 | 406 | 21.25 | 540 | 9.12 | 213.6 | 415 | 188 |
| | 600 | 16 | 406 | 22.25 | 565 | 12 | 304.8 | 640 | 290 |
| | 900 | 16 | 406 | 22.63 | 574.7 | 15.12 | 384 | ** | ** |
| 18" 450mm | 125 | 18 | 457 | 21.63 | 549 | 8 | 203.2 | 315 | 143 |
| | 150 | 17 | 433 | 21.63 | 549 | 8 | 203.2 | 315 | 143 |
| | 300 | 17 | 433 | 23.5 | 597 | 10.38 | 263.6 | 555 | 252 |
| | 600 | 17 | 433 | 24.13 | 613 | 14.25 | 362 | 890 | 404 |
| | 900 | 17 | 433 | 25.13 | 638.2 | 17.75 | 450.9 | 1318 | 598 |
| 20" 500mm | 125 | 20 | 508 | 23.88 | 606 | 8.375 | 213 | 380 | 172 |
| | 150 | 20 | 508 | 23.88 | 606 | 8.62 | 219 | 435 | 197 |
| | 300 | 20 | 508 | 25.75 | 654 | 11.5 | 292.1 | 725 | 329 |
| | 600 | 20 | 508 | 26.88 | 683 | 14.5 | 368.3 | 1120 | 508 |
| | 900 | 17 | 433 | 25.13 | 638.2 | 17.75 | 450.9 | 1426 | 647 |
| 24" 600mm | 125 | 24 | 610 | 28.25 | 718 | 8.75 | 222 | 575 | 261 |
| | 150 | 24 | 610 | 28.25 | 718 | 8.75 | 222 | 620 | 281 |
| | 300 | 24 | 610 | 30.5 | 775 | 12.5 | 318 | 1100 | 499 |
| | 600 | 24 | 610 | 31.13 | 791 | 17.25 | 438 | 2040 | 925 |
| 30" 750mm | 125 | 30 | 762 | 34.75 | 883 | 12 | 305 | 1070 | 485 |
| | 150 | 30 | 762 | 34.75 | 883 | 13 | 330 | 1230 | 558 |
| | 300 | 30 | 762 | 37.5 | 953 | 15.69 | 398 | 2050 | 930 |
| 36" 900mm | 125 | 36 | 915 | 41.25 | 1048 | 14.5 | 368 | 1962 | 890 |
| | 150 | 36 | 915 | 41.25 | 1048 | 15.25 | 387 | 2017 | 915 |