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DUAL PLATE CHECK VALVES

PRESSURE CLASS: ASME 150-2500 API - 2000 - 5000 SIZE RANGE : 2" - 60" API STANDARDS : 594, 6D & 6A ASME B16.34





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ORDERING GUIDE

Example: 8" Figure #36600-A-10-E

| 36 | 60 | 0 | - A | - 10 | — |
|----|----|---|-----|------|---|
| | | | 4. | 5. | |

E

6.

1. 2. 3.

8" CLASS 600 DUAL PLATE CHECK, WAFER TYPE, RF, A216 WCB BODY, A351 CF8M DISC, 316SS FACED BODY SEAT, EPDM SEAT, INCONEL X-750 SPRING

| 1. MODEL | |
|------------------------------------|--------------------------------|
| 36 - WAFER TYPE | 39 - FLANGED TYPE |
| 37 - LUGGED TYPE THREADED | 40 - SINGLE PLATE WAFER TYPE |
| 38 - LUGGED TYPE THRU-HOLE DRILLED | |
| 2. RATING | |
| 12 - CLASS 125 | 150 - CLASS 1500 |
| 15 - CLASS 150 | 250 - CLASS 2500 |
| 30 - CLASS 300 | 200 - API 2000 |
| 60 - CLASS 600 | 300 - API 3000 |
| 90 - CLASS 900 | 500 - API 500 |
| 3. END CONNECTION | |
| 0 - RF FLANGED | 9 - RTJ FLANGED |
| 6 - FF FLANGED | X - SPECIAL - PLEASE SPECIFY |
| 4. BODY MATERIAL | |
| A - WCB/ A105 | T - A890-5A |
| G - LGG/LF2 | U - A890-6A |
| M - CF8/ F304SS | V - A126 CAST IRON |
| N - CF8M/ F316SS | W - A395 DUCTILE IRON |
| R - CN7M | X - B148 Gr. C95800 AL. BRONZE |
| S - A890-4A | O - SPECIAL - PLEASE SPECIFY |
| 5. TRIM | |
| 1 WCB+13CR | 16 316SS-FULLSTELLITE |
| 8 WCB 1/2 STELLITE | 9 CN7M |
| 5 WCB+FULL STELLITE | 11 CN7M+1/2 STELLITE |
| 2 304SS | 21 A890-4A |
| 2S 304SS+1/2 STELLITE | 22 A890-5A |
| 15 3045S+FULL STELLITE | 23 A890-6A |
| 10 3165S | 24 B148 |
| 12 3165S+1/2 STELLITE | X SPECIAL - PLEASE SPECIFY |
| 6. BODY SEAT | |
| M - METAL | V - VITON "B" |
| B - BUNA-N | H - HNBR |
| E - EPDM | |
| 7. SPECIAL REQUIREMENTS | |
| | |

N - NACE MR01-75

5 - SUPPLY COMPLETE INFORMATION

STANDARD FEATURES



Industry Standards:

- ASME B16.1, B16.5, B16.24, B16.34, B16.47 and B31.1
- API 594 and 598
- MSS-SP-25, MSS-SP-55
- API 6A and 6D (as applicable)
- MSS-SP-61 (standard for the resilient seated, metal seated when required)
- NACE MR-01-75 (Latest Edition, when required)

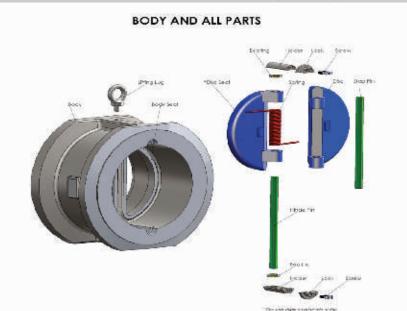
Technical Data:

Size range : 2" thru 60" Pressure Classes : ASME 125 thru 2500 : API 2000 thru 5000 Temperature Range : -46°F to 1100°F

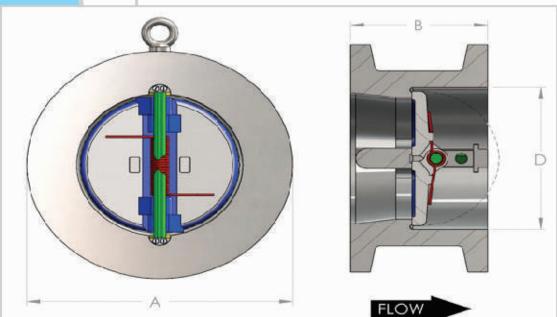
Design Features:

- Retainer less design eliminates fugitive Emissions. Is firesafe by design.
- A more compact Light weight design Is 80 to 90% lighter than conventional full-body swing check valves.
- Simplifies piping for an easier, less costly installation. Optimum space utilization for simplified piping.
- · Spring-loaded, dual plate design has Very low cracking pressure.
- Discs open 85° to ensure a low pressure drop.
- Positive sealing under most operating conditions. The valve closes before the flow reverses at zero velocity.
- . With the spring assisted closing, water Hammer is all but eliminated.
- By design the valve is inherently non-slamming. This is due to the plates closing before the media flow reverses.
- The Wafer check valve can be installed in the horizontal and vertical up positions. For vertical down installations please contact **FASTWELL**

| NO. | | WCB / A105 Trim #8 | WCB / A105 Trim #1 | _GC / LF2 Trim #10 | LCG / LF2 Trim #12 | CF8 / F301 Trim #2 | CF8 / F301 Trim #2S | C∓8M / F316 Trim,≇10 | CF6M / F318 Trim #12 |
|-----|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------|-------------------------|-------------------------|
| 1 | BODY | WCB/A105 | WCB/A105 | LCG/LF2 | LCC/LF2 | CF8/304 | CF8/304 | CFSM/318 | CF8N/318 |
| 2 | BODY SEAT | STL | 13Cr | SS316 | ST_ | as same as body | ST_ | as same as body | ST_ |
| з | DISC | CH8/CA15 | CH8/CA15 | Снам | CF8M | Č⊦8 | Снв | CF8M | CEBM |
| 4 | DISC SEAT | | | | aos 15 | ame as disc | | | |
| ō | HOLDER | GF8/GA15 | CF&/CA15 | CF8M | CESM | CFS | CFS | CF6M | CESM |
| 6 | BEARING | SS410 | SS410 | SS316 | SS3-6 | SS304 | SS304 | SS316 | SS316 |
| 7 | SPRING | | ta da | 2 | INC | UNEL X-750 | | 2 | |
| 8 | HINGE PIN | SS410 | SS410 | 55316 | \$5318 | \$\$304 | 55304 | SS318 | SS318 |
| 9 | STOP PIN | SS410 | SS410 | 55316 | SS3:0 | SS304 | ି SS304 | SS3-0 | SS510 |
| 10 | LOCK | A105 | A106 | SS316 | SS3'6 | SS301 | SS304 | SS316 | SS316 |
| 11 | SCREW | 88304 | 88304 | 58316 | SS3*5 | 55304 | 55304 | SS3*8 | BB315 |
| 12 | LIFTING LUG | | · | | CAR | BON STEEL | | | |







Construction:

Dual plate check valves, Wafer type, Retainer less design, Spring loaded, Horizontal or Vertical positions.

Dimensions

| Face to Face | ASME B16.10 |
|--------------|----------------|
| End Flange | ASME B16.5* |
| Rating ASME | Class 150-2500 |

*26" and larger are available with ASME B16.47 end flanges, either Series A or Series B (formerly MSS SP-44 and API 605.)

Dimensions & Weights - Wafer Type - ASME Class 150

| SL | ZE | E | | DIMEN | | c | | WE | ĞНІ | | ST DIAM | IUD DETA ETER | its studiter | NG H (RP) |
|--------|------|-------|------|-------|------|-------|------|------|------|-----|------------|------------------|-------------------|-----------|
| NPS | DN. | in | DЭTT | in | ШL | in | mm | Lbs | Kgs | Na. | in | nm. | in | mm |
| 1 -/2' | 40 | 2.36 | 60 | 3.35 | 85 | 1.65 | 47 | 3 | 1.5 | 4 | 1/2 * | M12 | 5.12 | 130 |
| 2* | 50 | 2.36 | 60 | 4.CE | 103 | 2.17 | 55 | ā | 2.2 | 4 | 5/8 ' | M16 | 5.51 | 140 |
| 2-1/2' | 05 | 2.64 | 67 | 4.6 | 122 | 2.68 | 68 | 7 | 3.1 | 1 | 5/81 | M16 | 5.91 | 150 |
| 3* | 50 | 2.87 | 73 | 5.01 | 135 | 3.23 | 82 | 9 | 4.3 | 4 | 5/8 | M16 | 6.3 | 160 |
| 4. | 100 | 2.87 | 73 | 6.81 | 173 | 4.25 | 108 | 14 | 6.3 | 8 | 5/81 | M16 | 6.69 | 170 |
| 5' | 125 | 3.39 | 86 | 7.68 | 195 | 5.12 | 130 | 18 | 8.4 | 8 | 3/41 | M20 | 7.78 | 190 |
| 6' | 150 | 3.86 | 98 | 8.7 | 221 | 6.5 | 165 | 28 | 12.6 | 8 | 3/41 | M20 | 8.07 | 205 |
| 8. | 200 | 5 | 127 | 8.94 | 227 | 8.66 | 220 | 53 | 24 | 8 | 3/4 * | M20 | 9.45 | 240 |
| 10 | 260 | 5.75 | 146 | 13.27 | 337 | 10.63 | 270 | 88 | 40 | 12 | 7/8' | M24 | 10.63 | 270 |
| 12 | 300 | 7.13 | 181 | 16.02 | 407 | 12.6 | 320 | 145 | 00 | ·2 | 7/81 | M24 | 12.2 | 310 |
| 141 | 350 | 7.24 | 184 | 17.64 | 449 | 13,78 | 350 | 183 | 53 | 12 | 1' | M27 | 12.8 | 325 |
| 16 | 400 | 7.52 | 191 | 20.16 | 512 | 15.75 | 400 | 224 | 102 | 18 | 1' | M27 | 13.39 | 340 |
| 181 | 450 | 7.90 | 203 | 21.54 | 547 | 17.24 | 438 | 273 | 124 | 18 | 1-1/8 | MBO | 14.37 | 385 |
| 20 ' | 500 | 8.62 | 219 | 23.78 | 804 | 10.49 | 495 | 330 | 150 | 20 | 1 1/8* | M30 | 15.16 | 365 |
| 241 | 600 | 8.74 | 222 | 28.15 | 715 | 23.43 | 595 | 447 | 203 | 20 | 1-1/4* | M33 | 15.94 | 405 |
| 28 ' | 700 | 12.01 | 305 | 32.68 | 830 | 26.97 | 685 | 836 | 380 | 28 | 1-1/4* | M3S | 21.28 | 540 |
| 30 (| 750 | 12.01 | 305 | 34.65 | 880 | 28.94 | 735 | 909 | 413 | 28 | 1-1/4" | M33 | 21.05 | 550 |
| 32' | 800 | 12.01 | 305 | 36.93 | 338 | 30.71 | 780 | 1276 | 580 | 26 | 1 1/2* | M39 | 22.44 | 570 |
| 36 ' | 800 | 14.49 | 368 | 41.14 | 1045 | 34.45 | 875 | 1463 | 665 | 32 | 1-1/2* | M39 | 25.98 | 880 |
| /01 | 1000 | 17.01 | 432 | 45.67 | 1160 | 38.39 | 975 | 1936 | 066 | 36 | 1-1/2" | M39 | 28.35 | 720 |
| 421 | 1050 | 17.01 | 432 | 47.67 | 1216 | 40.16 | 1020 | 2196 | 998 | 36 | 1 1/2* | M39 | 29.13 | 740 |
| 481 | 1200 | 20.63 | 524 | 54.33 | 1380 | 45.87 | 1165 | 3234 | 1470 | 44 | 1-1/2* | M39 | 33.45 | 850 |
| 54' | 1350 | 22.36 | 568 | 6C.87 | 1546 | 51.97 | 132C | 4620 | 2100 | 44 | 1-3/4" | M45 | 37.01 | 940 |
| 60' | 1500 | 24.76 | 629 | 67.24 | 1708 | 57.48 | 146C | 6/90 | 2950 | 52 | 1-3/4" | M45 | /0.16 | 1020 |



Dimensions & Weights - Wafer Type - ASME Class 300

| 0 | 75 | | | DIMEN | ISIONS | 2 | 3 | 1 2000 | AUT | ; | S | TUD DETA | LS | |
|--------|-------|-------|-----|-------|--------|-------|------|--------|------|-----|--------|----------|----------|-----------|
| 31 | ZE | E | 3 | 1 | Ą | 1 | 3 |] w⊨i | GHT | 200 | D AM | ETER | STUD LEI | NGTH (RF. |
| NPS | DN | ir | mm | in | mm | n | mm | Lbs | Kgs | No. | 10 | mm | іп | 1 |
| 1-1/2" | 40 | 2.38 | 60 | 3.7 | 94 | 1.65 | 42 | 4 | 1.8 | 4 | 3/4' | N20 | 6.3 | 180 |
| 2' | 50 | 2.38 | 60 | 4.33 | 110 | 2.17 | 55 | Ĥ | 2.5 | 8 | ti/8' | M18 | 6.1 | 155 |
| 2-1/2* | 85 | 2.64 | 67 | 5.04 | 128 | 2.68 | 68 | 9 | 4 | 8 | 3/4' | M20 | 6.89 | 175 |
| 3' | 80 | 2.87 | 73 | 5.79 | 147 | 3.23 | 82 | 11 | 5 | 8 | 3/4* | M20 | 7.48 | 190 |
| 4* | 100 | 2.87 | 73 | 7.05 | 179 | 4.25 | 108 | 15 | 7 | 8 | 3/4* | M20 | 7.68 | 195 |
| 5* | 125 | 3.39 | 86 | 8.43 | 214 | 5.12 | 130 | 25 | 11.2 | 8 | 3/4* | M20 | 8.46 | 215 |
| 6* | 150 | 3.88 | 88 | 9.8 | 249 | 6.5 | 165 | 36 | 16.5 | 12 | 0/4* | M20 | 9.06 | 230 |
| 8* | 200 | 5 | 127 | 12.01 | 305 | 8.68 | 220 | 69 | 31.5 | 12 | 7/8* | M24 | *1.02 | 280 |
| .0, | 250 | 5.75 | 146 | 14.13 | 369 | 10.63 | 270 | 109 | 49.5 | 16 | 1' | M27 | 12.4 | 315 |
| 12 | 300 | 7.13 | 181 | 16.54 | 420 | 12.6 | 320 | 178 | 81 | - 8 | 1-1/8' | M30 | 14.37 | 365 |
| 14 | 350 | 8.74 | 222 | 19.02 | /83 | 13.5 | 313 | 257 | 117 | 20 | 1-1/8' | M30 | 16.14 | 410 |
| 16' | 400 | 9.13 | 232 | 21.14 | 537 | 16.76 | 400 | 3/18 | 168 | 20 | 1-1/4" | M23 | 17.13 | 435 |
| 18' | 450 | 10.39 | 264 | 23.39 | 594 | 17.24 | 438 | 440 | 200 | 24 | 1-1/4" | M33 | 18.7 | 475 |
| 20' | 500 | 11.5 | 292 | 25.67 | 652 | 19.49 | 495 | 627 | 285 | 24 | 1-1/4* | M33 | 20.08 | 510 |
| 24' | 600 | 12.52 | 318 | 30.39 | 772 | 28.43 | 095 | 836 | 380 | 24 | 1-1/2* | M39 | 22.05 | 560 |
| 28" | /00 | 14.49 | 368 | 35.28 | 896 | 26.97 | 635 | 1289 | 586 | 23 | 1-5/8* | M42 | 25.98 | SEO |
| 30" | /50 | 14.49 | 368 | 37.4 | 950 | 28.94 | 735 | 1531 | 886 | 28 | 1-3/4* | M45 | 26.77 | 680 |
| 32* | 800 | 14.49 | 368 | 39.53 | 1004 | 30.71 | 780 | 2169 | 986 | 28 | 1-7/8* | M48 | 27.56 | 700 |
| 36* | 900 | 19.02 | 483 | 43.06 | 1114 | 34.45 | 875 | 2354 | 1070 | 32 | 2' | M51 | 03.07 | 840 |
| 40* | 1000 | 22.38 | 568 | 43.7 | 1110 | 38.39 | 875 | 2904 | 1320 | 32 | 1-5/8* | M42 | 36.22 | 32C |
| 42* | 1050 | 22.36 | 568 | 45.87 | 1160 | 40.18 | 1020 | 3300 | 1500 | 32 | 1-5/81 | M42 | 36.61 | 93C |
| 48* | 1200 | 24.76 | 829 | 51.97 | 1320 | 45.87 | 1165 | 4950 | 2250 | 32 | 1-7/8' | M48 | 4C.55 | 1030 |
| 54* | - 350 | 25 | 835 | 58.58 | 1488 | ō1.97 | 1320 | 7392 | 3360 | 28 | 2-1/4* | M57 | 43.7 | 1110 |
| 60* | 1500 | 27.6 | 701 | 64.57 | 1640 | 57.48 | 1460 | 0735 | 4425 | 32 | 2-1/41 | M57 | 46.85 | 1190 |

Dimensions & Weights - Wafer Type - ASME Class 600

| 0.0 | 20 | | | DIMEN | SIONS | | | | <u>ант – – – – – – – – – – – – – – – – – – –</u> | | | S | TUD DETAI | LS | | |
|--------|------|-------|-----|--------|-------|-------|-------|-------|--|-----|----------|-----|------------------|--------|----------|-----------|
| 51. | ZE | E | 3 | 1 | 4 | 1 |) | S WEI | GHT | Ma | DIAMETER | | STUD LENGTH (PF) | | STUD LEN | CTH (BTJ) |
| NPS | DN | in | mm | in | Υm | in | mm | Los | Kg5 | No. | in. | mm | n | 111111 | in | mm |
| 21 | 50 | 2.36 | БC | 4.33 | 110 | 2.17 | 55 | 6 | 2.5 | н | 5/8* | M16 | 6.89 | 175 | 7.09 | 1HC |
| 2-1/2* | 65 | 2.64 | 67 | 5.04 | 128 | 2.68 | 58 | 9 | 4 | н | 3/4* | M20 | 7.68 | 195 | 7.87 | 200 |
| 3' | 80 | 2.87 | 73 | 5.79 | 147 | 3.23 | 82 | 11 | 5 | 8 | 3/4* | M20 | 8.27 | 210 | 8.46 | 215 |
| 4 ' | 100 | 3.11 | 79 | 7.52 | 191 | 4.25 | 108 | 20 | 9 | B | 7/8* | M24 | 9.25 | 235 | 9.45 | 240 |
| 5' | 125 | 4.13 | 105 | 9.45 | 240 | 5.12 | 130 | 32 | 14.5 | 8 | 1* | M27 | 11.02 | 290 | 11.22 | 285 |
| 6' | 150 | 5.35 | 138 | 10.39 | 264 | 6.5 | 165 | 59 | 27 | 12 | 1' | M27 | 12.6 | 320 | 12.8 | 325 |
| θ' | 200 | 6.5 | 165 | 12.52 | 318 | 8.27 | 210 | 108 | 48 | 12 | 1 - 1/8' | M30 | 14.57 | 370 | 14.76 | 375 |
| 10' | 250 | 8.39 | 2-3 | 15.07 | 308 | 10.04 | 255 | 206 | 93.5 | 10 | 1-1/41 | M33 | 17.32 | 440 | 17.52 | 445 |
| 12' | 300 | 9.02 | 229 | 17.91 | 155 | 11.81 | 300 | 252 | 114.5 | 20 | 1-1/4 | M33 | 18.11 | 460 | 18.31 | 466 |
| 14' | 350 | 10.75 | 273 | 19.29 | 190 | 13.19 | 335 | 411 | ° 87 | 20 | 1-3/8 | M36 | 20.47 | 520 | 20.67 | 526 |
| 16' | /CO | 12.01 | 305 | 22.13 | 562 | 15.16 | 285 | 574 | 261 | 20 | 1-1/2 | M39 | 22.61 | 575 | 22.83 | 580 |
| 18' | 450 | 14.25 | 362 | 24.32 | 810 | 17.13 | 435 | 803 | 365 | 20 | -5/8 | M42 | 25.59 | 65C | 25.79 | 655 |
| 20' | 500 | 14.49 | 368 | 26.77 | 880 | 19.17 | 487 | 997 | 453 | 24 | -5/8 | M42 | 26.38 | 670 | 2ê.77 | 880 |
| 24' | ECO | 17.24 | 438 | 30.94 | 786 | 23.03 | 585 | 1551 | 705 | 24 | ·-//8 | M48 | 39.71 | 78C | 31.1 | 780 |
| 28' | 700 | 19.88 | 505 | 35.91 | 912 | 26.97 | 685 | 2189 | 995 | 28 | 2* | M51 | 34.25 | 870 | 34.65 | 880 |
| 30' | 750 | 19.88 | 505 | 38.11 | 968 | 28.94 | 735 | 2596 | 1180 | 28 | 2. | M51 | 34.65 | BHC | 35.114 | BBO |
| 32' | 800 | 19.88 | 505 | 40.16 | 1020 | 30.71 | 780 | 3685 | 1675 | 28 | 2-1/4 | M57 | 35.43 | элс | 35.83 | 910 |
| 38' | 900 | 25 | 635 | 44.41 | 1128 | 34.45 | 875 | 4620 | 2100 | 28 | 2 1/2 | M64 | 41.34 | 1050 | 41.73 | 1080 |
| 40' | 1000 | 27.6 | 701 | 453.68 | 11523 | 38.39 | 975 | 4939 | 2245 | 32 | 2 1/4 ' | M57 | 48.48 | 1180 | 46.85 | 1190 |
| 42' | 1050 | 27.6 | 701 | 47.93 | 1215 | 40.16 | - 020 | 5610 | 2550 | 29 | 2 1/2 ' | M64 | 47.84 | 1210 | 48.03 | 1220 |
| 45' | 1200 | 30.98 | 797 | 54.57 | 1396 | 45.87 | 165 | 8428 | 3830 | 32 | 2-3/41 | M70 | 53.54 | 1360 | 53.94 | 1370 |



Dimensions & Weights - Wafer Type - ASME Class 900

| SIZE | | | | D MEN | SIONS | | | INTER OF | OUT | | | | | | | |
|--------|------|-------|-----|-------|-------|-------|-----|----------|------|-----|--------|------|----------|---------|----------|-----------|
| 514 | 2E | E | 3 | J. | ç 🔅 | 1 |) (| 1 WE | CHT | 114 | DIAM | ETEN | STUDILET | CTHIRE) | STUD LEN | CTH (RTJ) |
| NPS | DN | in | mm | in | mm | ir- | mm | Los | Kgs | No. | in | imm | in | 11/11 | in | mm |
| 2" | ÷0 | 2.76 | 70 | 5.51 | 140 | 2.17 | 55 | 13 | 6 | 8 | 7/8 | M24 | 8.86 | 225 | 9.06 | 230 |
| 2-1/2* | 65 | 3.27 | 83 | 5.38 | 162 | 2.68 | 68 | 17 | 7.5 | 8 | 1, | M27 | 9.84 | 250 | 10.04 | 255 |
| 30 | 80 | 3.27 | 83 | 6.5 | 165 | 3.23 | 82 | 21 | 9.6 | 8 | 7/8' | M24 | 9.45 | 240 | 9.65 | 245 |
| 4" | 100 | 4.02 | 102 | 8.03 | 204 | 4.25 | 108 | 37 | 17 | 8 | 1-1/8* | M30 | 11.22 | 285 | 11.42 | 290 |
| 5" | 125 | 4.33 | 110 | 9.65 | 245 | 5.12 | 130 | 82 | 28 | 8 | 1-1/4* | M33 | 12.2 | 310 | 12.4 | 315 |
| 8" | 150 | 6.26 | 159 | 11.26 | 286 | 6.3 | 160 | HC | 41 | 12 | 1-1/8* | M30 | 14.37 | 365 | 14.57 | 370 |
| H** | 211G | 8.1* | 206 | 14.02 | 356 | 8.27 | 210 | 178 | 80 | 12 | 1-3/8* | M36 | 17.32 | 440 | 17.52 | 445 |
| 10* | 250 | 9.49 | 241 | 17.01 | 432 | 10.04 | 255 | 297 | 135 | 16 | 1-3/8* | M36 | 19,29 | 490 | 18.48 | 495 |
| 12* | 300 | 1.5 | 282 | 19.49 | 495 | 11.81 | 300 | 465 | 212 | 20 | 1-3/8* | M36 | 22.05 | 560 | 27.24 | 565 |
| 14" | 350 | 14.П2 | 356 | 20.47 | 520 | 12.R | 325 | 737 | 335 | 20 | 1-1/2* | M39 | 25.39 | 545 | 25.78 | 655 |
| 16* | 400 | 15.12 | 384 | 72.52 | 572 | 14.96 | 380 | 889 | 395 | 20 | 1-5/8* | M42 | 26.97 | 885 | 27.36 | 695 |
| 18" | 450 | 17.76 | 451 | 25.04 | 636 | 16.73 | 425 | 1320 | 600 | 20 | 1-7/8* | M48 | 31.1 | 790 | 31.5 | 000 |
| 20* | 500 | 17.76 | 451 | 27.4 | 696 | 10.7 | 475 | 1782 | 810 | 20 | 2' | M52 | 31.69 | 510 | 32.28 | 020 |
| 24" | 800 | 19,49 | 495 | 32.87 | 835 | 22.44 | 570 | 2266 | 1030 | 20 | 2 1/2* | M64 | 37.2 | 345 | 37.6 | 955 |
| 28* | 700 | 22.01 | 569 | 37.17 | 944 | 28.38 | 670 | 3190 | 1450 | 20 | 3' | M78 | 41.34 | 1053 | 41.73 | 1080 |
| 30" | 750 | 22.01 | 559 | 39.69 | - 008 | 28.15 | 715 | 40C4 | 1820 | 20 | 3' | M76 | 41.73 | 1080 | 42.13 | 1070 |
| 32* | 90C | 22.01 | 569 | 42.13 | -07C | 29.92 | 760 | 4620 | 2100 | 20 | 3 1/4" | M82 | 4.33 | 110 | 43.7 | 1110 |
| 38' | 900 | 27.8 | 701 | 47.17 | 198 | 33.88 | 880 | 7150 | 3250 | 20 | 3 1/2" | M88 | 50.39 | 1280 | 50.79 | 1290 |

Dimensions & Weights - Wafer Type - ASME Class 1500

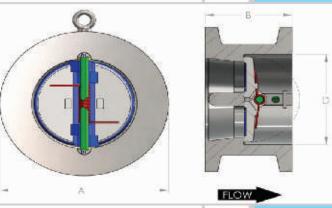
| 20 | SIZE | | D MENSIONS | | | | | | | 1 | STUD DETAILS | | | | | | |
|-----------------|------|-------|------------|-------|-----|-------|-----|-----|------|---------|--------------|------|---------|-----------|---------|-----------|--|
| 012 | 4E | E | 30 | , A | ξ | [|))) | WE | | - Marco | DIAM | ETER | STUDI-P | AG TH IE- | STUDLEN | GIH (BIJ) | |
| NPS | DN | in | mm | іп | mm | in | mm | Los | Kga | No. | in | mm | in | חוד | in | mm | |
| 2" | 50 | 2.76 | 70 | 5.51 | 140 | 2.17 | 55 | 5 | 2.2 | 8 | 7/8 | M24 | 8.86 | 225 | 9.06 | 230 | |
| 2-1/2* | 65 | 3.27 | 63 | 6.38 | 162 | 2.68 | 68 | 7 | 3.1 | 8 | 11 | M27 | 9.84 | 250 | 10.04 | 255 | |
| 3" | 80 | 3.27 | 63 | 9.77 | 172 | 3.23 | 82 | 9 | 4.3 | 8 | 7/8 | M24 | 10.63 | 270 | 10.83 | 276 | |
| 4 ¹⁰ | 100 | 4.02 | 102 | 8.19 | 208 | 4.25 | 103 | 14 | 6.3 | 8 | 1-1/4" | M3S | 12.2 | 310 | 12.4 | 315 | |
| 5^{n} | 125 | 4.33 | 110 | 10.12 | 257 | 5.12 | 130 | 18 | 8.4 | 8 | 1-1/2" | M39 | 14.57 | 370 | 14.76 | 375 | |
| 8 ¹¹ | 150 | 6.26 | 159 | 11.06 | 281 | 5.91 | 150 | 28 | 12.6 | 12 | 1-3/8" | M36 | 16.93 | 430 | 17.32 | 440 | |
| 8" | 200 | 8.1 | 206 | 13.78 | 350 | 7.87 | 200 | 53 | 24 | 12 | 1-5/8" | M42 | 20.08 | 510 | 20.47 | 520 | |
| 10* | 250 | 9.76 | 248 | 17.05 | 433 | 9.84 | 250 | 88 | 40 | 12 | 1-7/8* | M48 | 23.82 | 600 | 24.02 | 610 | |
| 12* | 300 | 12.01 | 305 | 20.39 | 518 | 11.81 | 300 | 145 | 66 | 16 | 2' | Mo2 | 27.36 | 695 | 27.95 | 710 | |
| 14* | 350 | 14.02 | 356 | 22.68 | 576 | 12.6 | 320 | 183 | 83 | 16 | 2-1/4* | Mp6 | 30.51 | 775 | 31.1 | 790 | |
| 16* | 400 | 15.12 | 384 | 25.2 | E40 | 14.17 | 360 | 224 | 102 | 16 | 2-1/2* | M64 | 33.46 | 850 | 84.25 | 870 | |
| 18* | 450 | 18.43 | 468 | 27.68 | 703 | 16.54 | 420 | 273 | 124 | 16 | 2-3/4* | M70 | 38.19 | 970 | 38.98 | 990 | |
| 20* | 500 | 20.98 | 533 | 29.69 | 754 | 18.5 | 470 | 330 | 150 | 16 | 3' | M76 | 42.52 | 1080 | 43.31 | 1100 | |
| 24* | SHO | 22.01 | 559 | 35.35 | 898 | 22.44 | 570 | 447 | 203 | 16 | 3-1/2* | M88 | 46.85 | 1193 | 47.64 | 1210 | |

Dimensions & Weights - Wafer Type - ASME Class 2500

| (212 | 752 3 | 20 50 | - | D MEN | SIONS | VI 30 | - | 14751 | out | | STUD CETAILS | | | | | | |
|--------|-------|-------|--------|-------|------------|-------|-----|-------|------|-----|--------------|-------|-------------------|-------------|-------------------|-----|--|
| SI2 | 2E - | E | 3् | F | 4 | 1 | 2 | 1 WE | GHT | Mar | DIAM | ETER | STUD LENGTH (F.F. | | STUD LENGTH (RTJ) | | |
| NPS | DN | in | (1)(1) | irı | 111011 | ir: | пш | Lus | Kgs | No. | in | ILILI | in | DUD. | in | mm | |
| 2" | 50 | 2.76 | 70 | 5.63 | 143 | 2.17 | 55 | 5 | 2.2 | 8 | 12 | M27 | 10.04 | 255 | 10.24 | 260 | |
| 2-1/2* | 65 | 3.27 | 83 | 8.34 | 166 | 2.69 | 60 | 7 | 3.1 | 8 | 1-1/8* | M30 | 11.42 | 290 | 11.81 | 300 | |
| 3" | 80 | 3.39 | 86 | 7.64 | 194 | 3.23 | 52 | .9 | 4.3 | 8 | 1-1/4" | M33 | 12.6 | 320 | 12.90 | 330 | |
| 4" | 100 | 4.13 | 105 | 9.13 | 232 | 4.25 | 108 | 14 | 6.3 | 8 | 1-1/2" | M39 | 14.57 | 370 | 14.96 | 380 | |
| 5" | 125 | 4.33 | 110 | 10.91 | 277 | 5.12 | 130 | 18 | 8.4 | 8 | 1-3/4* | M45 | 16.54 | 420 | 17.13 | 435 | |
| 6" | 150 | 6.26 | 159 | 12./4 | 316 | 6.1 | 135 | 28 | 12.6 | 8 | 2' | M52 | 20.28 | 515 | 20.87 | 530 | |
| 8" | 200 | 8.11 | 206 | 15.2 | 386 | 6.07 | 205 | 53 | 24 | 12 | 2' | M52 | 23.62 | 300 | 24.41 | 620 | |
| 10" | 250 | 10 | 254 | 18.7 | 475 | 9.65 | 245 | 68 | 40 | 12 | 2-1/2" | M64 | 29.53 | 750 | 30.51 | 775 | |
| 12" | 300 | 12.01 | 305 | 21.67 | <u>548</u> | 11.42 | 290 | 145 | GG | 12 | 2-3/4" | M70 | 33.00 | 95 <u>5</u> | 34.84 | 885 | |



| | 1 | | |
|--------------------------------------|---|---|----|
| Dual plate check valves, Wafer type, | 1 | A | |
| Retainer less design, Spring loaded, | 1 | | 48 |
| Horizontal or Vertical positions. | 1 | | 1 |
| | 1 | | |



Construction:

| 1000 | | | |
|------|------|------|------|
| 134 | ma | nch | ons |
| - | 1110 | 1.21 | 0115 |

| Face to Face | API 6A |
|--------------|------------------------|
| End Flange | API 6A |
| Rating | API 6A Class 2000-5000 |

Dimensions & Weights - Wafer Type - API 6A Class 2000

| SIZE | | | DIMEN | SIONS | 72 36 | | | 0. ET 2 | STUD DETAILS | | | | | | | | |
|---------|-------|-----|-------|-------|-------|-------|---------|---------|--------------|--------|------|------------------|-----|-------------------|------|--|--|
| GIZE | 1 | 1 | - f | ۱. | D | | WEIG-IT | | No. | DIAM | LTLB | STUD LONGTH (ET) | | STUD LENGTH (PTJ) | | | |
| NPS | In | mm | IB | P* 13 | in | 31111 | Lbs | Kgs | No. | ur. | mm | 111 | mm | in | m 11 | | |
| 2-1/16* | 6.5 | 165 | 2.26 | 60 | 2.36 | 60 | 18 | 8.1 | 8 | 5/8" | M16 | 3.27 | 83 | 3.74 | 95 | | |
| 2.9/161 | 7.52 | 191 | 2.64 | 67 | 2.87 | 73 | 28 | 12.9 | 8 | 3/4* | M20 | 3.74 | 95 | 4.02 | 102 | | |
| 3-1/81 | B.27 | 210 | 2.87 | 73 | 2.91 | 74 | 33 | 14.8 | 8 | 3/4* | M20 | 3.74 | 95 | 4.25 | 108 | | |
| 4-1/16* | 10.75 | 273 | 3.11 | 18 | 4.49 | 14 | 90 | 41 | 8 | 7/8* | M24 | 4.25 | 108 | 4.76 | 121 | | |
| 5-1/8 | 12.99 | 330 | 4.02 | 102 | 5.65 | 141 | 130 | 59 | 8 | 1' | M27 | 5 | 127 | 5.24 | 133 | | |
| 7-1/16* | 14.02 | 356 | 5.39 | 137 | 5.61 | 16B | 189 | 77 | 12 | 12 | M27 | 5 | 127 | 5.51 | 140 | | |
| 9* | 16.5 | 418 | 6.5 | 165 | 8.62 | 219 | 3.2 | 143 | 12 | 1-1/8" | MSU | 5.75 | 146 | 5.98 | 152 | | |
| 11 | 20 | 508 | 8.39 | 213 | 10.75 | 273 | 517 | 235 | 10 | 1-1/4* | M33 | 0.26 | 169 | 0.73 | 171 | | |
| 13-5/8" | 22.01 | 559 | 9.02 | 229 | 12.78 | 324 | 552 | 251 | 20 | 1-1/4' | M33 | 0.5 | 165 | 8.73 | 171 | | |
| 16-3/4* | 27.01 | 686 | 12.01 | 305 | 15.98 | 406 | 1012 | 450 | 20 | 1-1/2' | M39 | 7.52 | 131 | 7.76 | 197 | | |
| 20-3/4* | 32.01 | 813 | 14.49 | 368 | 20 | 508 | 1694 | 770 | 24 | 1-5/8' | M42 | 8.27 | 21C | 9.02 | 229 | | |

Dimensions & Weights - Water Type - API 6A Class 3000

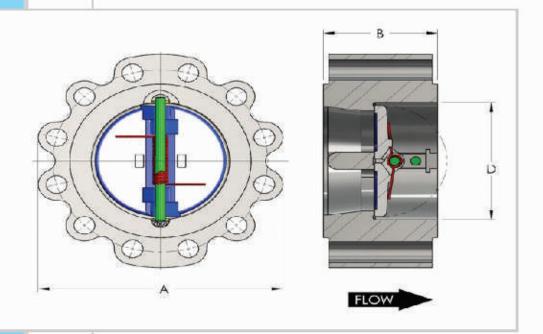
| SIZE | 9 | | DIMEN | SIONS | | | 13/01 | G-П | STUD DETAILS | | | | | | | | |
|---------|-------|-----|-------|------------------|-------|-------|-------|--------|--------------|--------|------|---------|-----------|----------|------------|--|--|
| aize | 1 | 1 | P | 1 | L |) | 23911 | 9-11 × | 1986 | DIAM | LIEN | STUD LE | ICTL HERE | STUD LON | ICTEL INFO | | |
| NPS | in | mm | іп | г [.] П | in | 11111 | Lbs | Kga | No. | ir. | mm | in | mm | in | m | | |
| 2 1/16* | 8.5 | 216 | 2.76 | 70 | 2.36 | 60 | 40 | 18 | 8 | 7/8* | M24 | 4.25 | 108 | 4.76 | 121 | | |
| 2-9/16* | 9.6* | 744 | 3.27 | 83 | 2.87 | 73 | 88 | 30 | 8 | 1" | M27 | 4.78 | 121 | 5.24 | 133 | | |
| 8-1/8" | 9.49 | 241 | 3.27 | 83 | 2.91 | /4 | 64 | 29 | 8 | 7/8* | M24 | 4.02 | 102 | 4.49 | 114 | | |
| 4-1/16* | 11.5 | 292 | 4.02 | 102 | 4.49 | - 14 | 99 | 45 | - 8 | 1-1/8' | M30 | 5 | 127 | 5.61 | 140 | | |
| 5 1/8" | 13.74 | 349 | 5.24 | 133 | 5.66 | 141 | 191 | 87 | 8 | 1 1/4' | M33 | 5.51 | 140 | 5.98 | 152 | | |
| 7-1/16* | 15 | 381 | 8.26 | 159 | 5.61 | 188 | 257 | 117 | 12 | 1-1/8' | M30 | 5.24 | 133 | 5.75 | 146 | | |
| 9. | 18.5 | 470 | 8.11 | 206 | 5.62 | 219 | 182 | 2.9 | 12 | 1-3/8' | MS6 | 6.26 | 168 | 6.73 | 1/1 | | |
| 11' | 21.5 | 546 | 9.49 | 241 | 10.75 | 273 | 720 | 330 | 16 | 1-3/8' | M36 | 6.5 | 165 | 7.01 | 178 | | |
| 13-5/8* | 24.02 | 61C | 11.5 | 292 | 12.78 | 324 | 770 | 350 | 26 | 1-3/8' | M36 | 6.73 | 171 | 7.24 | 184 | | |
| 16-3/4* | 27.76 | /06 | 16.12 | 384 | 15.98 | 406 | 1210 | 550 | 20 | 1-5/8' | M42 | 1.16 | 187 | 8.5 | 216 | | |
| 20-3/4* | 33.74 | 867 | 17.70 | 761 | 20 | 508 | 3865 | 1757 | 20 | 2" | M51 | 9.25 | 235 | -0 | 25/ | | |

Dimensions & Weights - Wafer Type - API 6A Class 5000

| SIZE | | DIMENSIONS | | | | | | WEIGHT | | STUD DETAILS | | | | | | | | |
|---------|-------|------------|------|-----------|-------|------|-----------|--------|-----|--------------|-----|------------------|-----|-------------------|-----|--|--|--|
| aize | E E | 1 | A | | U | | 376155 11 | | Ma | DIAMETER | | STUD LENGTH IRFI | | STUD LENGTH (RTJ) | | | | |
| NPS | in | mm | in | FT | in | ΠΠ | Lbs | Kgs | No. | 1 | mm | in | mm | іп | пп | | | |
| 2 1/161 | 8.5 | 216 | 2.76 | 70 | 2.36 | 60 | 37 | 17 | 8 | 7/8* | M24 | 4.25 | 108 | 4.76 | 121 | | | |
| 2-9/16* | 9.6* | 244 | 3.27 | 83 | 2.87 | 73 | 66 | 30 | 8 | 1. | M27 | 4.76 | 121 | 5.24 | 133 | | | |
| 3-1/8" | 10.51 | 267 | 3.27 | ĉŝ | 2.91 | 74 | 68 | 31 | 8 | 1-1/8' | M30 | 5.24 | 133 | 5./e | 146 | | | |
| 4 1/16* | 12.24 | 311 | 4.02 | 102 | 4.40 | - 14 | 154 | 70 | 8 | 1 1/4' | M33 | 5,98 | 162 | 8.26 | 150 | | | |
| 5-1/81 | 14.76 | 375 | 5.24 | 133 | 5.55 | 141 | 231 | 105 | 8 | 1-1/2' | M39 | 7.24 | 184 | 7.76 | 197 | | | |
| 7-1/16* | 15.51 | 394 | 5.26 | 159 | 5.61 | 168 | 268 | 122 | 12 | 1-3/8" | M36 | 1.24 | 184 | 7.76 | 197 | | | |
| 9' | 19.02 | 483 | 8.11 | 206 | 8.62 | 219 | 927 | 265 | 12 | 1-5/8' | M42 | 8.27 | 210 | 9.02 | 229 | | | |
| 11' | 22.99 | 584 | 9.76 | 248 | 10.75 | 273 | 732 | 380 | 12 | 1.7/6' | M48 | 9.49 | 241 | 10.24 | 260 | | | |



SOLID LUG DUAL PLATE CHECK VALVE



| Construction: Dimensions | Dual plate check valves, Lug type, Retainer less design, Spring loaded, Horizontal or Vertical positions. |
|-----------------------------|--|
| Face to Face | ASME B16.10 |
| End Flange | ASME B16.5* |
| Rating | ASME Class 150-2500 |

*26" and larger are available with ASME B16.47 end flanges, either Series A or Series B (formerly MSS SP-44 and API 605.)

| Dimensions & Weights - Lug Type - ASME Class 1 | 50 |
|--|----|
|--|----|

| (1) | 20 | | | DIMEN | SIONS | | | MIC | CH IT | | S | LD DETA | ILS | |
|--------|-----|------|----------------|-------|-------|-------|-----|-------|-------|------------|--------|---------|----------|---------|
| SD | a a | - I | 1 | 1 | 1 | C | S | evi i | GIIT | No. | DIAM | ETER | STUD LEN | GTH (AF |
| NPS | DN | ir | initian initia | ir | 61310 | j= | mm | Lbs | Kgs | 110. | in | rrirri | in | mm |
| 1 1/2' | 40 | 2.38 | 60 | 5 | 127 | 1.85 | 42 | 6 | 2.5 | 4 | 1/2* | M12 | 5.12 | - 30 |
| 2. | 50 | 2.35 | 60 | 5.98 | 152 | 2.17 | 55 | 8 | 3.5 | 4 | 5/8* | M16 | 5.51 | 140 |
| 2-1/2 | 65 | 2.54 | 67 | 7.91 | 178 | 2.88 | 68 | 11 | 5 | 4 | 5/8* | M16 | 5.91 | 150 |
| 3" | 05 | 2.87 | /3 | 7.48 | 190 | 3.23 | 82 | 15 | - K | 4 | 5/8" | M16 | 6.3 | 160 |
| 4" | 100 | 2.87 | 73 | 9.02 | 229 | 4.25 | 108 | 22 | 10 | 8 | 5/8" | M16 | 0.09 | 170 |
| 5* | 125 | 3.39 | 88 | 10 | 254 | 5.12 | 130 | 30 | 13.5 | 8 | 3/4* | M20 | 7.40 | 190 |
| 3. | 150 | 3.66 | 98 | 10.98 | 279 | 6.5 | 165 | 44 | 20 | 8 | 3/4* | M20 | 8.07 | 205 |
| 8* | 200 | 5 | 127 | 13.5 | 343 | 8.66 | 220 | 85 | 38.5 | 8 | 3/4" | M20 | 9.45 | 240 |
| 10* | 250 | 6.75 | 146 | 15.98 | 406 | 10.63 | 270 | 150 | 68 | 12 | //8/ | M24 | 0.63 | 2/0 |
| 12* | 300 | 7.13 | 181 | 18.52 | 478 | 12.6 | 320 | 253 | 115 | 12 | 7/8' | M24 | 12.2 | 310 |
| 14" | 360 | 7.24 | 184 | 20.98 | 533 | 13.78 | 350 | 341 | 155 | 12 | -1* | M27 | 12.8 | 325 |
| 16* | 400 | 7.52 | 191 | 23.5 | 597 | 15.75 | 400 | 477 | 192 | 18 | ٦. | M27 | 10.39 | 340 |
| 18* | 450 | 7.99 | 203 | 25 | 635 | 17.24 | 438 | 717 | 328 | * 8 | 1-1/8* | M30 | 14.37 | 365 |
| 20" | a00 | 8.62 | 219 | 27.28 | 693 | 19.49 | 495 | 627 | 285 | 20 | 1-1/8* | M30 | 15.18 | 385 |
| 24" | 600 | 8.74 | 222 | 31.89 | 810 | 23./3 | 595 | 847 | 385 | 20 | 1-1/4* | M33 | 15.94 | 405 |

SOLID LUG DUAL PLATE CHECK VALVE



Dimensions & Weights - Lug Type - ASME Class 300

| SIZ | 70 | | | DIMEN | SIONS | | | WED | out | · | 5 | UD DETA | LS | |
|--------|-----|-------|-----|-------|-------|-------|------|------|------|--------|--------|---------|----------|-----------|
| 312 | | E | 3 | 1 | V | 0 |) | | an | (hist) | MAIC | EER | STUD LEN | IGTH (RF) |
| NPS | 11N | in | າາຫ | in | mm | in | mm | Tbs | Kgs | Nc. | in | mm | in | mm |
| 1/2* | 40 | 2.38 | 8C | 6.14 | 156 | 1.85 | 42 | 7 | 3 | 4 | 3/4* | M20 | 6.3 | 160 |
| 2" | 50 | 2.36 | 60 | 6.38 | 162 | 2.17 | - 55 | 9 | 4.2 | В | 5/8" | M16 | 6.1 | 165 |
| 2-1/2* | fiò | 2.64 | 87 | 7.4 | 188 | 2.68 | 68 | 15 | 6.8 | -8 | 3/4* | M20 | 6.89 | 175 |
| 3' | 80 | 2.87 | 73 | 8.19 | 208 | 3.23 | 82 | 19 | 8.5 | 8 | 3/4* | M20 | 7.48 | 190 |
| 4' | 100 | 2.87 | 73 | 9.53 | 242 | 4.25 | 108 | 28 | 12 | 9 | 3/4* | M20 | 7.68 | 195 |
| 51 | 125 | 3.39 | BG | 10.98 | 279 | 5.12 | 130 | -42 | 19 | 8 | 3/4* | M20 | 8.46 | 215 |
| 6' | 150 | 3.86 | 98 | 12.05 | 306 | 6.5 | 165 | 62 | 28 | 12 | 3/4" | M20 | 9.06 | 230 |
| 8" | 200 | 5 | 127 | 14.72 | 374 | 8.66 | 220 | 128 | 58 | 12 | 7/8* | M24 | 11.02 | 280 |
| 10' | 250 | 5.75 | 148 | 17.24 | 438 | 10.63 | 270 | 202 | 92 | 16 | 11 | M27 | 12.4 | 315 |
| 12. | 300 | 7.13 | 181 | 20.16 | 512 | 12.6 | 320 | 337 | 153 | 16 | 1-1/9" | M30 | 14.37 | 365 |
| 141 | 350 | 8.74 | 222 | 22.72 | 577 | 13.5 | 343 | 484 | 220 | 20 | 1-1/8" | MSC | 16.14 | 410 |
| 161 | 400 | 9.13 | 232 | 23.07 | 586 | 15.75 | 400 | 882 | -810 | 20 | 1-1/4" | M33 | 17.13 | 435 |
| 181 | 450 | 10.39 | 264 | 27,24 | 592 | 17.24 | 438 | 858 | 390 | 24 | 1-1/4" | M33 | 18.7 | 475 |
| 20' | 500 | 11.5 | 292 | 29.61 | 752 | 19.49 | 495 | 1254 | 670 | 24 | 1-1/4" | M33 | 20.08 | 510 |
| 24' | 600 | 12.52 | 318 | 31.89 | 910 | 23.43 | 595 | 1672 | 760 | 24 | 1-1/2" | M38 | 22.05 | 560 |

Dimensions & Weights - Lug Type - ASME Class 600

| SIZ | 70 | | | DIMEN | SIONS | | | WER | PLUT: | | | S | FUD DETAI | LS | | |
|-------|-----|-------|-----|-------|-------|-------|-----|-------|-------|------|------------------|------|------------------|-----------|----------|-----------|
| 312 | | E | } | A | | |) | 1 WEP | oni. | ble. | DIAM | ETER | STUD LEN | IGTH (BF) | STUD LEN | GTH (PTJ) |
| NPS | DN | in | mm | in | mm | in | mm | Lbs | Kgs | No. | in | mm | in | mm | іп | mm |
| 2* | 50 | 2.36 | 80 | 6.38 | 162 | 2.17 | hb | 9 | 4.2 | Х | 5/8 ^r | M16 | 6,89 | 175 | 7.09 | 180 |
| 2-1/2 | 65 | 2.64 | 67 | 7.68 | 195 | 2.68 | 68 | 15 | 6.8 | Ð | 3/41 | M20 | 7.69 | 195 | 7.87 | 200 |
| 3* | 83 | 2.87 | 73 | 8.19 | 208 | 3.23 | 62 | 19 | 8.5 | θ | 3/41 | M20 | 8.27 | 210 | 8.46 | 215 |
| 4* | 100 | 3.11 | 79 | 10.24 | 260 | 4.25 | 108 | 37 | 17 | 8 | 7/81 | M24 | 9.25 | 235 | 9.45 | 240 |
| 5* | 125 | 4.13 | 105 | 11.02 | 280 | 5.12 | 130 | 59 | 27 | 8 | 1" | M27 | 11.02 | 280 | 1.22 | 285 |
| 6* | 150 | 5.35 | 138 | 13.46 | 342 | 6.5 | 185 | 112 | 51 | 12 | 1" | M27 | 12.8 | 320 | 12.8 | 325 |
| 8* | 200 | 6.5 | 185 | 15.75 | 4CO | 8.27 | 210 | 200 | 91 | 12 | 1-1/8' | M30 | 14.57 | 370 | *4.76 | 375 |
| 10' | 250 | 8.39 | 213 | 19.21 | 188 | 10.04 | 255 | 411 | 187 | 10 | 1-1/4' | M33 | 17.32 | 140 | 17.52 | 445 |
| 121 | 300 | 9.02 | 229 | 21.81 | 5E4 | 11.81 | 300 | £04 | 229 | 20 | 1-1/4 | M3S | 18.11 | 460 | 18.31 | 485 |
| 14' | 350 | 10.75 | 273 | 22.6 | 574 | 13.19 | 335 | 823 | 374 | 20 | 1-3/8' | M36 | 20.47 | 520 | 20.67 | 525 |
| 16' | 400 | 12.01 | 305 | 26.48 | 672 | 15.16 | 395 | - 148 | 522 | 20 | 1 1/2' | M39 | 22.64 | 575 | 22.83 | 590 |
| 18' | 450 | 17.26 | 362 | 28.58 | 726 | 17.13 | 435 | 1430 | 650 | 20 | 1-5/8' | M42 | 25.59 | 050 | 25.79 | 655 |
| 201 | 500 | 14.49 | 368 | 31.5 | 800 | 19.17 | 487 | 1474 | 670 | 24 | 1-5/8' | M42 | 26.38 | 870 | 26.77 | 680 |
| 221 | 5CO | 17.24 | 438 | 36.3 | 922 | 23.03 | 585 | 1716 | 780 | 24 | 1-7/8' | M48 | 30.71 | 780 | 31.1 | 790 |

Dimensions & Weights - Lug Type - ASME Class 900

| 207 | 71- | | | DIMEN | SIONS | | | WEI | our l | | | S | LOD DETAI | 18 | | |
|--------|------|-------|-----|-------|-------|-------|--------|-------|-------|------|--------|------|-----------|-----------|---------|-----------|
| SIZ | CE . | E | 3 | A | | 1 |) | 1 WEF | GHI | N.L. | DIAM | ETER | STUD LEN | IGTH (BF) | STUDIEN | GTH (FTJ) |
| NPS | DN | іп | mm | in | mm | in | rrirri | Lbs | Kgs | No. | in | mm | in | רחוד | in | rtirti |
| 2* | 50 | 2.76 | 70 | 8.27 | 210 | 2.17 | 55 | 26 | 2 | 8 | 7/81 | M24 | 8.88 | 225 | 9.06 | 230 |
| 2-1/21 | 65 | 3.27 | 83 | 9.21 | 234 | 2.68 | 68 | 33 | 15 | 8 | 4.0 | M27 | 9.84 | 250 | 10.04 | 255 |
| 3. | 80 | 3.27 | 03 | 9.21 | 234 | 3.23 | 02 | 42 | 19 | 0 | 7/01 | M24 | 9.45 | 240 | 9.65 | 245 |
| 4. | 100 | 4.02 | 102 | 11.5 | 292 | 4.25 | 108 | 75 | 34 | 8 | 1-1/8' | M30 | 11.22 | 285 | 1.42 | 290 |
| 5" | 125 | 4.33 | 110 | 13.19 | 335 | 5.12 | 130 | 123 | 56 | 8 | 1-1/4 | M33 | 12.2 | 310 | 12.4 | 3.2 |
| 6* | 150 | 6.26 | 159 | 14.96 | 380 | 6.3 | 180 | 180 | 82 | 12 | 1-1/8' | M30 | 14.37 | 365 | 14.57 | 370 |
| 8* | 200 | 8.11 | 208 | 18.03 | 458 | 8.27 | 210 | 352 | 160 | 12 | 1-3/8' | M36 | 17.32 | 440 | *7.52 | 445 |
| 10' | 250 | 0.49 | 241 | 20.87 | 530 | 10.04 | 255 | 694 | 270 | 10 | 1-3/8' | M36 | 19.29 | 400 | 10.40 | 495 |
| 121 | 300 | 11.5 | 292 | 23.39 | 594 | 11.81 | 300 | \$33 | 424 | 20 | 1-3/8' | M36 | 22.05 | 560 | 22.24 | 565 |
| 141 | 350 | 14.02 | 356 | 24.61 | 625 | 12.8 | 325 | *474 | 670 | 20 | 1-1/2' | M39 | 25.39 | 845 | 25.79 | 655 |
| 16' | 400 | 15.12 | 384 | 27.24 | 692 | 14.96 | 380 | *738 | 790 | 20 | 1-5/8' | M42 | 26.97 | 688 | 27.36 | 695 |
| 18' | 450 | 17.76 | 451 | 30.31 | 770 | 16.73 | 425 | 2640 | 1200 | 20 | 1-7/8' | M48 | 31.1 | 790 | 31.5 | 800 |
| 20' | 500 | 17.76 | 451 | 33.07 | 840 | 19.7 | 476 | 3564 | 1620 | 20 | 2' | MS2 | 31.89 | 810 | 32.28 | 820 |
| 241 | 800 | 19.49 | 495 | 39.76 | 1010 | 22.44 | 570 | 4532 | 2060 | 20 | 2-1/2' | M64 | 37.2 | 945 | 37.6 | 955 |

SOLID LUG DUAL PLATE CHECK VALVE



Dimensions & Weights - Lug Type - ASME Class 1500

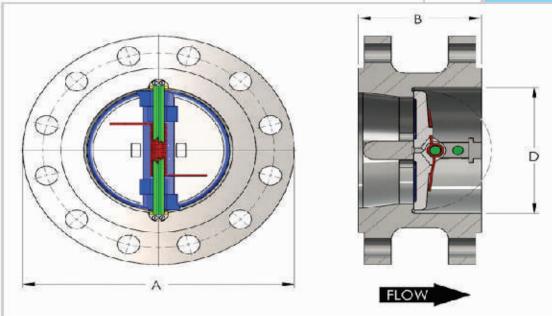
| P.P | ZE | | DIMENSIONS | | | | | | GHT | STUD DETAILS | | | | | | | | |
|--------|-----|-------|------------|-------|-----|-------|-----|------|-----|--------------|----------|-----|------------------|-----|-------------------|-----|--|--|
| SI. | 2E | E | 3 | J + | A | | D | | GHI | S No. | DIAMETER | | STUD LENGTH (RF) | | STUD LENGTH (RTJ) | | | |
| NPS | DN | in | mm | in | mm | in | mm | Lbs | Kgs | No. | in | mm | in | mm | in | mm | | |
| 2' | 50 | 2.78 | 70 | 8.27 | 210 | 2.17 | 55 | 28 | 12 | 8 | 7/8* | M24 | 9.96 | 225 | 9.08 | 230 | | |
| 2-1/2* | 65 | 3.27 | 83 | 9.21 | 234 | 2.68 | 68 | 53 | 27 | 8 | 11 | M27 | 9.84 | 250 | 10.04 | 255 | | |
| 3' | 80 | 3.27 | - 53 | 10.04 | 255 | 3.23 | 82 | 70 | 32 | 8 | 7/8* | M24 | 10.63 | 270 | 10.83 | 275 | | |
| 4' | 100 | 4.02 | 102 | 11.5 | 202 | 4.25 | 108 | 132 | 60 | 8 | 1-1/4" | M33 | 12.2 | 310 | 12.4 | 315 | | |
| 5' | 125 | 4.33 | 110 | 13.98 | 355 | 5.12 | 130 | 229 | 104 | 8 | 1-1/2" | M39 | 14.37 | 365 | 14.76 | 375 | | |
| 6' | 150 | 6.28 | 159 | 15.2 | 396 | 5.91 | 150 | 286 | 130 | 12 | 1 3/81 | M36 | 16.93 | 430 | 17.32 | 443 | | |
| - 8 | 200 | 8.11 | 206 | 18.7 | 475 | 7.87 | 200 | 5/6 | 248 | 12 | 1-5/8" | M42 | 20.08 | 510 | 20.47 | 520 | | |
| 10* | 250 | 9.78 | 248 | 22.24 | 565 | 9.84 | 250 | 981 | 446 | 12 | 1-7/8" | M48 | 23.62 | 600 | 24.02 | 610 | | |
| 12" | 300 | 12.01 | 305 | 25.98 | 860 | 11.81 | 300 | 1738 | 790 | 16 | 2' | M52 | 27.36 | 695 | 27.95 | 710 | | |

Dimensions & Weights - Lug Type - ASME Class 2500

| | ZE | 10000 | | DIMEN | SIONS | | | WEI | CUIT | 83 | | S | TUD DETAI | LS | | | |
|--------|------|-------|-----|-------|-------|-------|-----|--------|------|------|--------|----------|-----------|------------------|-------|--------------------|--|
| 50 | 4E | B | | A | | D | |] """" | GHT | N.A. | DIAM | DIAMETER | | STUD LENGTH (RF) | | STUD LENGTH (ITTJ) | |
| NPS | DN | in | mm | in. | (110) | in | mm | Lbs | Kgs | NO. | in | :11(1) | in. | rum | in | mm | |
| 2' | 50 | 2.76 | 70 | 8.86 | 225 | 2.17 | 55 | 40 | 18 | 8 | 1' | M27 | 10.04 | 255 | 10.24 | 260 | |
| 2-1/2" | 65 | 3.27 | 83 | 10.04 | 255 | 2.68 | 68 | 53 | 24 | 8 | 1-1/8" | M30 | 11.42 | 290 | 11.81 | 300 | |
| 3' | 80 | 3.39 | 56 | 11.42 | 290 | 3.23 | 82 | 70 | 32 | 8 | 1-1/4" | M33 | 12.6 | 320 | 12.09 | 330 | |
| 4' | 100 | 4.13 | 105 | 13.58 | 345 | 4.25 | 108 | 132 | -60 | 8 | 1-1/2" | M39 | 14.57 | 370 | 14.96 | 380 | |
| 5' | 125 | 4.33 | 110 | 15.60 | 402 | 5.12 | 130 | 229 | 104 | 8 | 1-3/4" | M45 | 16.54 | 420 | 17.13 | 435 | |
| 6' | 150 | 6.20 | 159 | 17.8 | 462 | 6.1 | 155 | 286 | 130 | 8 | 2' | M52 | 20.28 | 516 | 20.87 | 630 | |
| 8' | 2110 | 8.11 | 208 | 20.87 | 525 | 8.07 | 205 | 546 | 248 | 12 | 2' | M52 | 23.62 | 600 | 24.4* | 620 | |
| 10* | 250 | 10 | 254 | 25.30 | 845 | 9.66 | 245 | 961 | 448 | 12 | 2-1/2" | M84 | 29.53 | 750 | 30.51 | 775 | |
| 12* | 300 | 12.01 | 305 | 28.74 | 730 | 11.42 | 290 | 1738 | 790 | 12 | 2-3/4" | M70 | 33.66 | 856 | 34.84 | 885 | |

DOUBLE FLANGE TYPE DUAL PLATE CHECK VALVE





Construction: Du

Dual plate check valves, Flange type, Retainer less design, Spring loaded, Horizontal or Vertical positions.

Dimensions

| Face to Face | ASME B16.10 |
|--------------|---------------------|
| End Flange | ASME B16.5* |
| Rating | ASME Class 150-2500 |

*26" and larger are available with ASME B16.47 end flanges, either Series A or Series B (formerly MSS SP-44 and API 605.)

Dimensions & Weights - Flange Type - ASME Class 150

| - 201 | a.: | 2. vz | | DIMEN | SIONS | | | | annes - S | | 81 | UD DE1A | LS | |
|-------|-------|-------|-----|-------|-------|-------|------|-------|-----------|-----|--------|---------|----------|----------|
| - Oi | ZE | 1 | | | 4 | |) | - WEI | uni s | 1 | DIAM | ETER | STUD LEN | GTH (RF) |
| NPS | DN | 3 | mm | in | mm | іп | mm | Lios | Kgs | No. | in | 67 | in | mm |
| 8. | 200 | 5 | 127 | 13.5 | 343 | 5.68 | 220 | 68 | 31 | 3 | 3/4* | M20 | 4.72 | 120 |
| 10' | 250 | a.75 | 146 | 15.98 | 405 | 10.63 | 270 | 114 | 52 | 12 | 7/8 | M24 | 5.S1 | 135 |
| 12' | 300 | 7.13 | 181 | 19.02 | 483 | 12.6 | 320 | 189 | 86 | 12 | 7/8* | M24 | 6.81 | 135 |
| 14' | 350 | 7.24 | 184 | 20.99 | \$33 | 13.78 | 350 | 238 | 108 | 12 | 1* | M27 | 5.71 | 145 |
| 16' | 400 | 7.52 | 191 | 23.5 | 597 | 15.75 | 400 | 293 | 133 | 16 | 1. | M27 | 5.91 | 150 |
| 18 | 450 | 7.99 | 203 | 25 | 635 | 17.24 | 438 | 354 | 161 | 16 | 1-1/8' | M30 | 6.3 | 160 |
| 20 | 500 | 2.62 | 219 | 27.52 | 699 | 19,49 | 195 | 429 | 195 | 20 | 1-1/8' | M30 | 6.5 | 165 |
| 24 | 600 | 8.74 | 222 | 32.01 | 513 | 23.43 | 595 | 579 | 263 | 20 | 1-1/4' | M33 | 7.09 | 180 |
| 20.1 | 700 | 12.01 | 305 | 38.5 | 927 | 26.97 | 605 | 1087 | 494 | 28 | 1-1/4 | M33 | 9.06 | 230 |
| 30 ' | 750 | 12.01 | 305 | 38.74 | 984 | 28.94 | 735 | 1179 | 536 | 28 | 1-1/4 | M33 | 9.45 | 240 |
| 32 ' | 800 | 12.01 | 305 | 41.73 | 1060 | 30.71 | 780 | 1669 | 764 | 28 | 1-1/2 | M39 | 10.43 | 265 |
| 36' | 900 | 14.49 | 365 | 45.08 | 1168 | 34.45 | 875 | 1901 | 864 | 32 | 1 1/2 | M39 | 11.22 | 285 |
| 401 | 1000 | 17.01 | 432 | 50.75 | 1289 | 38.39 | 975 | 2517 | 1144 | 38 | 1-1/2 | M39 | 11.22 | 285 |
| 42 ' | 1050 | 17.01 | 432 | 52.99 | 1346 | 40.16 | 1020 | 2853 | 1297 | 3/6 | 1-1/21 | M39 | 11.61 | 295 |
| 48* | 1200 | 20.03 | 524 | 59./9 | 1011 | 45.87 | 1.62 | 4204 | 1911 | 44 | 1-1/21 | M39 | 2.6 | 320 |
| 54* | - 350 | 22.36 | 565 | 66.26 | 1683 | 51.97 | 1320 | 6006 | 2730 | 44 | 1.3/4' | M45 | 14.17 | 360 |
| 60* | 1500 | 24.78 | 829 | 72.99 | 1854 | 57.48 | 1480 | 8437 | 3835 | 52 | 1-3/41 | M45 | 15.16 | 385 |

DOUBLE FLANGE TYPE DUAL PLATE CHECK VALVE



Dimensions & Weights - Flange Type - ASME Class 300

| e. | ZE | | 300- | DIMEN | SIONS | | | V.C. | OUT | | S | TUD DETA | ILS | |
|-----|------|-------|------|-------|-------|-------|------|-------|------|----------------|--------|----------|----------|----------|
| 5 | ZE | ji | | 1 | - | 1 1 | 2 | WE | GHI | | DIAM | ETER | STUD LEN | GTH (RF) |
| NPS | DN | ir | ຕາກ | n | mm | in | mm | Lbs | Kgs | Na. | ir | mm | in | mm |
| 12* | 300 | 7.13 | 181 | 20.51 | 521 | 12.6 | 320 | 231 | 1115 | 1 0 | 1-1/81 | MSO | 7.08 | 180 |
| 14" | 350 | 8.74 | 222 | 22.93 | 584 | 13.5 | 343 | 334 | 152 | 20 | 1-1/B | M30 | 7.28 | 185 |
| 16* | 400 | 9.13 | 232 | 25,51 | 648 | 15.75 | 400 | 451 | 205 | 20 | 1-1/4 | M33 | 7.07 | 200 |
| 18" | 450 | 10.39 | 264 | 27.93 | 711 | *7.24 | 435 | 572 | 280 | 24 | 1 1/4 | M33 | 8.27 | 210 |
| 20* | 600 | 11.5 | 292 | 30.51 | 775 | 19.49 | 495 | 814 | 370 | 24 | 1-1/4 | M23 | 8.46 | 215 |
| 24" | 600 | 12.52 | 318 | 35.99 | 914 | 23.43 | 695 | 1097 | 494 | 24 | 1-1/2' | M39 | 9.15 | 240 |
| 28" | 700 | 14.79 | 368 | 40.75 | 1035 | 26.97 | 685 | 167/ | 761 | 28 | 1-5/8' | M42 | 11.02 | 280 |
| 30" | 760 | 14.49 | 368 | 42.99 | 1092 | 28.94 | 735 | 1991 | 905 | 28 | 1-3/4 | M45 | 11.8 | 300 |
| 32* | 800 | 14.49 | 368 | 45.24 | 1149 | 30.71 | 780 | 2820 | 1282 | 28 | 1-7/8 | M48 | 13.19 | 335 |
| 36* | 900 | 19.02 | 483 | 50 | 1270 | 34.45 | 875 | 2060 | 1391 | -32 | 22 | M51 | 13.58 | 345 |
| 40* | 1000 | 22.36 | 588 | 48.74 | 1239 | 38.39 | 975 | 3775 | 1716 | 32 | 1 5/8' | M42 | 13.39 | 340 |
| 42" | 1050 | 22.36 | 568 | 60.73 | 1289 | 40.18 | 1020 | 4290 | 1950 | -32 | 1 5/8' | M42 | 13.78 | 350 |
| <8. | 1200 | 24.76 | 629 | 67.76 | 1467 | 45.87 | 1165 | 6435 | 2925 | 32 | 1-7/8' | M48 | 15.35 | 390 |
| 54" | 1350 | 25 | 635 | 65.24 | 1657 | 31.97 | 1320 | 9610 | 4368 | 28 | 2-1/4 | MS7 | 18.11 | 460 |
| 80' | 1500 | 27.6 | 701 | 71.26 | 1810 | 57.48 | 1480 | 12854 | 5752 | 32 | 2-1/4' | M57 | 18.9 | 480 |

Dimensions & Weights - Flange Type - ASME Class 600

| Ċ1 | /F | | 601 | DIMEN | SIONS | | | WED | 044 | | | S | TUD DETAI | LS . | | |
|-----|------|-------|-----|-------|-------|-------|------|-------|------|------|--------|------|------------------|------|----------|-----------|
| 51 | | | | н | | 1 |) | W P | GHT | No. | DIAM | FTFR | STUD LENGTH (RP) | | STUD LEN | GTH (FTJ) |
| NPS | DN | in | mm | in i | mm | in | mm | Los | Kgs | SPAD | in | mm | 2 | mm | ir) | mm |
| 12' | 300 | 9.02 | 229 | 22.01 | 569 | 11.81 | 300 | 352 | 160 | 20 | 1 1/4" | M33 | 8.86 | 220 | 9.56 | 225 |
| 14' | 350 | 10.75 | 273 | 23.74 | 603 | 13.19 | 335 | 570 | 262 | 20 | 1-3/8* | M36 | 0.25 | 236 | 9.45 | 240 |
| 16' | 400 | 12.01 | 305 | 27.01 | 686 | 15.10 | 385 | 803 | 365 | 20 | 1-1/2" | M39 | 10.04 | 256 | 10.24 | 260 |
| 18' | 450 | 14.25 | 362 | 29.25 | 743 | 17.13 | 435 | * 124 | 511 | 20 | 1-5/8* | W42 | 10.83 | 276 | 11.02 | 280 |
| 20' | 500 | 14.49 | 368 | 32.01 | 813 | 19.17 | 487 | 397 | 635 | 24 | 1-5/8* | M42 | 11.22 | 28£ | 11.42 | 290 |
| 24' | 600 | 17.24 | 438 | 37.01 | 940 | 23.03 | 585 | 2171 | 987 | 24 | 1-7/8* | M48 | 12.99 | 330 | 13.19 | 335 |
| 28' | 700 | 19.68 | 505 | 42,24 | 1073 | 28.97 | 885 | 3065 | 1393 | 28 | 2" | M51 | 14.*7 | 360 | 14.37 | 365 |
| 30' | 750 | 19.60 | 505 | 44.49 | 1130 | 28.94 | 735 | 3634 | 1652 | 28 | 2" | M51 | 14.37 | 365 | 14.57 | 370 |
| 32' | 800 | 10.88 | 505 | 47.01 | 1194 | 30.71 | 780 | 5159 | 2345 | 28 | 2-1/4" | M57 | 15.16 | 385 | 15.35 | 390 |
| 36' | 900 | 25 | 635 | 51.73 | 1314 | 34.45 | 875 | 6499 | 2954 | 28 | 2-1/2* | M04 | 16.54 | 420 | 16.54 | 420 |
| 40' | .000 | 27.6 | 701 | 52.01 | 1321 | 38.39 | 975 | 6915 | 3143 | 32 | 2-1/4* | M57 | 18.6 | 170 | 18.5 | 470 |
| 42' | 1850 | 27.6 | 701 | 55.24 | 1403 | 40.18 | 1028 | 7854 | 3570 | 28 | 2-1/2" | M64 | 20.08 | 510 | 20.08 | 510 |
| 48' | .500 | 30.98 | /8/ | 57.76 | 1487 | 45.87 | 1165 | 11/96 | 5362 | 32 | 2-3/4* | M7U | 22.24 | 565 | 22.24 | 565 |

| | | | _ | | | | | | 214 | en inventori | ALLA 24 2 44 | ging | | JWW I | When the | |
|-----|-----|-------|-------|----------------------|-------|-------|-----|-------|------|---------------|--------------|------------------------------------|-------|-------------------|----------|------|
| SI | ZE | L | | DIMENSIONS L II D | | | WEI | GHT | 210 | S DIAMETER | | TUD DE TAILS STUD LENGTH (BP) | | STUD LENGTH (FT.) | | |
| NPS | DN | in | 11011 | | 11111 | in | | Lbs | Kgs | No. | in | mm | 1 | area. | in | a.u. |
| 12' | 300 | 11.3 | 292 | 24.02 | 610 | 11.81 | 300 | 65- | 296 | 20 | 1-3/8* | M36 | 10.04 | 255 | 10.24 | 260 |
| 14' | 350 | 14.02 | 356 | 25.2 | 640 | 12.8 | 325 | 1032 | 469 | 20 | 1-1/2* | M39 | 11.02 | 28C | 11.22 | 285 |
| 16' | 400 | 15.12 | 384 | 27.76 | 705 | 14.96 | 380 | 217 | 553 | 20 | 1-5/8" | M42 | 11.61 | 295 | 11.81 | 300 |
| 18' | 450 | 17.76 | 451 | 30.91 | 785 | 16.73 | 425 | 848 | 84C | 20 | 1-7/8* | M48 | 13.19 | 33t | 13.39 | 340 |
| 20' | 500 | 17.76 | 45* | 33.86 | 855 | 18.7 | 4/5 | 2485 | 1134 | 20 | 2' | M52 | 14.17 | 360 | 14.37 | 365 |
| 24' | 603 | 19.49 | 495 | 40.94 | 1040 | 22.44 | 570 | 3172 | 1442 | 20 | 2-1/2* | M64 | 17.72 | 450 | 17.91 | 455 |
| 25' | 700 | 22.01 | 559 | 45.90 | 1180 | 28.39 | 870 | 4466 | 2030 | 20 | Э" | M76 | 18.9 | 400 | 19.09 | 405 |
| 30' | 750 | 22.01 | 669 | 48.6 | 1232 | 28.15 | 715 | 5806 | 2548 | 20 | 3' | M76 | 19.69 | 500 | 19.85 | 505 |
| 32' | 800 | 22.01 | 669 | 61.38 | 1559 | 29.92 | 760 | 6468 | 2940 | 20 | 3-1/4" | MB2 | 21.06 | 536 | 21.26 | 540 |
| 36' | 900 | 27.6 | 701 | 57.48 | 1460 | 33.86 | 860 | 10010 | 4550 | 20 | 3-1/2* | M88 | 22.44 | 570 | 92.64 | 576 |

Dimensions & Weights - Flange Type - ASME Class 900

PRESSURE TEMPERATURE RATINGS



ASME B16.34-2009

| | | | CO | LD WOR | KING PRE | SSURE, | psig | | | |
|-------|--|---------------------------------------|------------|-------------------------------|--------------------------------|--------------------------------|-------------------------|--|--|-----------------------|
| CLASS | TEMP "F | A216 WCB A105 & LF2 | A352 LCC | A217 WC6 A182 F11 | A217 WC9 A182 F22 | A217 C5 A182 F5 | A217 C12 A162 F9 | A351 CFB A182 F304 | A351 CF8M A182 F316 | A352 CN7M |
| | 20 to 100 | 265 | 290 | 290 | 290 | 290 | 290 | 275 | 275 | 235 |
| Ĵ. | 200 | 280 | 283 | 280 | 260 | 260 | 28C | 230 | 235 | 200 |
| | 300 | 250 | 230 | 230 | 230 | 230 | 230 | 205 | 205 | 180 |
| | 400 | 200 | 200 | 200 | 200 | 200 | 200 | 190 | 190 | 160 |
| | 600 | 170 | 170 | 170 | - 70 | 170 | 170 | 170 | 170 | 150 |
| | 600 | 140 | 142 | 14C | -40 | 140 | 140 | 140 | 140 | 140 |
| | 650 | 125 | 125 | 125 | - 25 | 125 | 125 | 125 | 125 | |
| | 700 | 1°C | 110 | 1°C | - 10 | 110 | 110 | 110 | 110 | |
| l i | 750 | 85 | 95 | 95 | .95 | 85 | 95 | 95 | 35 | |
| | 800 | 05 | 0.8 | 08 | 80 | ēC | 80 | 60 | - 80 | |
| | 850 | 65 | 65 | 65 | 65 | 35 | 65 | 65 | 35 | |
| | 900 | 50 | 50 | 50 | 50 | 5C | 50 | 50 | 50 | |
| 150 | 950 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | |
| 1 | 1000 | 20 | 20 | 20 | 25 | 20 | 20 | 23 | 20 | 2 |
| 1 | 1050 | | | 20 (a) | 20 (u) | 20 (a) | 20 (a) | 20(a) | 20(a) | |
| | - 100 | | | 20 (a) | 20 (a) | 20 (a) | 20 (9) | 20(a) | 20(a) | |
| | 1150 | | | 20 (a) | 20 (u) | 20 (6) | 20 (a) | 20(a) | 20(a) | - |
| | -200 | | - | 15 ⟨a⟩ | 15 (a) | 15 (a) | 20 (a) | 20(a) | 20(a) | |
| | 1250 | | | | | | | 20(a) | 20(a) | |
| 8 | 1300 | | | | | <u>.</u> | | 20(u) | 20(a) | |
| 1 | 10.50 | | | <u>.</u> | | <u>.</u> | | 20(a) | 20(a) | |
| 1 | * 400 | | | | | - | t d | 20(a) | 20(a) | 2 |
| 1 | - 450 | | | | | 4 | | 20(a) | 25(a) | |
| | - 500 | | | | | ÷ | | 15(a) | 15(a) | 2 |
| | 300 | | | | | 1017.05 | | | | |
| CLASS | TEMP 'F | A216 WCB A105 & LF2 | A352 LCC | A217 WC6 A182 F11 | A217 WC9 A182 F22 | A217 C5 A182 F5 | A217 C12 A182 F9 | A351 CF8 A182 F304 | A351 CFBM A182 F316 | A352 CN7M |
| 1 | -20 to 100 | /40 | 750 | 750 | 750 | 700 | 790 | /20 | 720 | 600 |
| 3 | 200 | 680 | 750 | 750 | 750 | 750 | 750 | 8C0 | 620 | 520 |
| | 300 | 655 | 730 | 790 | 730 | 730 | 730 | 540 | 560 | 465 |
| | 400 | 635 | 705 | 895 | 705 | 705 | 705 | 495 | ñ15 | 420 |
| | 500 | 605 | 865 | 665 | 865 | 365 | 665 | 465 | 460 | 390 |
| l (| 0:0 | 570 | 005 | 665 | 935 | 305 | 605 | 440 | 450 | 060 |
| | 820 | 550 | 590 | 590 | 590 | 200 | 590 | 430 | ≤40 | |
| | 700 | 530 | 555 | 57¢ | 570 | 570 | 570 | 420 | 435 | |
| | 750 | 305· | 505 | 530 | 5-30 | 330 | 530 | 415 | 425 | |
| | 900 | 410 | 410 | 510 | 510 | 510 | 51C | 405 | 420 | |
| 10 | 850 | 320 | 3.20 | 465 | 430 | 485 | 480 | 305 | 490 | |
| | | | C 0.00 - 7 | 1940 B | 450 | 375 | 45C | 390 | ∠15 | |
| 1.11 | 900 | 230 | 225 | 45C | 430 | 200000 | | | | |
| 300 | 900 950 | 230 135 | 225 | 460 320 | 430 385 | 975 | 375 | 380 | 365 | |
| 300 | | · · · · · · · · · · · · · · · · · · · | | - <u>2013</u> | 2.02 | | 375 255 | 380 365 | 365 305 | 1 |
| 300 | 950 | 135 | . 32 | 3% | 395 | 975 | | 100.00 | | - - - - |
| 300 | 950 1000 | 135 | . 32 | 320 215 | 325 205 | 975 200 | 255 | 355 | 305 | 0 7 0 0 0 |
| 300 | 950 1000 1050 | 135 | . 32 | 320 215 145 | 345 265 175 | 975 200 145 | 255 170 | 355 325 | 305 360 | |
| 300 | 950 1000 1050 1100 | 135 | . 32 | 320 215 145 95 | 345 265 175 110 | 975 200 145 100 | 255 170 116 | 365 325 265 | 305 360 305 | |
| 300 | 950 1000 1050 1100 1100 1150 | 135 | . 32 | 320 215 145 90 65 | 345 265 175 110 70 | 975 200 145 100 30 | 265 170 116 76 | 355 325 205 205 | 305 360 305 255 | |
| 300 | 950 1000 1050 1100 1100 1150 1200 | 135 | . 32 | 320 215 145 90 65 | 345 265 175 110 70 | 975 200 145 100 30 | 265 170 116 76 | 305 325 205 165 | 305 360 305 255 185 | |
| 300 | 950 1000 1000 1100 1110 1150 1200 1200 1300 | 135 | . 32 | 320 215 145 90 65 | 345 265 175 110 70 | 975 200 145 100 30 | 265 170 116 76 | 305 325 205 105 135 115 | 305 300 305 255 185 145 115 | |
| 300 | 950 1000 1000 11100 11100 11100 11200 1250 125 | 135 | . 32 | 320 215 145 90 65 | 345 265 175 110 70 | 975 200 145 100 30 | 265 170 116 76 | 305 325 205 105 135 115 95 | 305 300 305 255 185 145 145 145 90 | |
| 300 | 950 1000 1000 1100 1110 1150 1200 1200 1300 | 135 | . 32 | 320 215 145 90 65 | 345 265 175 110 70 | 975 200 145 100 30 | 265 170 116 76 | 305 325 205 105 135 115 | 305 300 305 255 185 145 115 | |



PRESSURE TEMPERATURE RATINGS

ASME B16.34-2009

| | | | (| COLD WO | ORKING F | PRESSUR | RE, psig | | | |
|-------|---|---|---|--|---|--|--|--|--|-----------|
| CLASS | TEMP °F | A216 WCB A105 & LF2 | A352 LCC | A217 WC8 A182 F11 | A217 WC9 A182 F22 | A217 C5 A182 F5 | A217 C12 A182 F9 | A351 CF8 A182 F304 | A351 CF8M A182 F316 | A352 CN7M |
| | -20 te 100 | - 480 | 1500 | 1500 | 1500 | 1500 | 1500 | 1440 | 1440 | -200 |
| | 200 | 1360 | 1900 | 1500 | 1500 | 1a00 | 1600 | 1200 | 1240 | 1035 |
| | 300 | :1310 | 1455 | 1445 | 1458 | 1455 | 1465 | 1075 | 1120 | 930 |
| | 400 | - 265 | 1405 | 1385 | 1410 | 1410 | 1410 | 995 | 1025 | 845 |
| | 500 | 7.205 | 1035 | 1330 | 1353 | 1335 | 1000 | 800 | 955 | 705 |
| | 000 | *195 | 1210 | 1210 | 1210 | 1210 | 1210 | 385 | 900 | 720 |
| | 650 | 100 | 1175 | 11/0 | 11/0 | 1175 | 1175 | 805 | 985 | |
| | /00 | 1060 | 1110 | 1130 | 1135 | 1135 | 1135 | 875 | 870 | |
| | 750 | -015 | 1015 | 1065 | 1055 | 1065 | 1065 | 825 | 855 | |
| | 500 | 825 | 525 | 1015 | 1018 | 1015 | 1015 | 810 | 845 | |
| | 550 | 645 | 840 | 975 | 875 | 975 | 975 | 790 | 805 | |
| | 900 | 460 | 445 | 900 | 900 | 745 | 900 | 760 | 830 | |
| 600 | 950 | 275 | 2/0 | 640 | /05 | 550 | 755 | 765 | 775 | |
| | 1000 | 170 | . 10 | 430 | 535 | 100 | 535 | /10 | 725 | |
| | 1050 | S | 229 ₁₀ C | 290 | 350 | 290 | 315 | 650 | 720 | |
| | 1100 | ç | Q | 190 | 220 | 200 | 225 | 515 | ē10 | |
| | 1150 | | ÷ | 100 | 105 | :25 | 150 | 410 | 475 | |
| | 1200 | | ; | 90 | 60 | 70 | 105 | 330 | 370 | |
| | 1250 | | | ~~~ | | | 100 | 205 | 295 | |
| | | 6 | | 5 | | <u>6</u> 2 | () | 1700-02 | - <u>(1997)</u> 22 | |
| | 1900 | ŝ | ş | 6 B | | 16 N | ;; | 225 | 235 | |
| | 1350 | 8 | | e e | | 15 | | 185 | 190 | |
| | 1400 | | | | | | | 150 | 150 | |
| | 1455 | | | | | | | 115 | 115 | |
| | 1500 | | | | | | | 85 | 85 | |
| CLASS | TEMP "F | A216 WCB A105 & LF2 | A352 LCC | A217 WC6 A182 F11 | A217 WC9 A182 F22 | A217 C5 A182 F5 | A217 C12 A182 F9 | A351 CF8 A182 F304 | A351 CF8M A182 F316 | A352 CN7M |
| | -20 lu: 100 | 2200 | 2255 | 2250 | 2250 | 2250 | 2250 | 2160 | 2180 | - 800 |
| | 200 | 2:05 | 2250 | 2250 | 2250 | 2250 | 2250 | 1500 | 1850 | - 865 |
| l i | 350 | 1965 | 2165 | 2165 | 2165 | 2165 | 2185 | 1815 | 1650 | - 395 |
| | 400 | 1900 | 2110 | 2080 | 2115 | | | | | 1265 |
| | 500 | | | | 321.5 | 2115 | 2115 | 1490 | 154C | 1,500.07 |
| | | 1810 | 1995 | 1990 | 1995 | 9115 1995 | 2115 1995 | 1490 1330 | 1540 1436 | 160 |
| | 600 | 1510 1705 | 1005 1815 | 1990 1815 | | | | | | |
| | 600 850 | 8 9 | id an anna an a | 1210000 | 1995 | 1995 | 1905 | 1330 | 1436 | 160 |
| | - <u>2000</u> / | 705 | 1815 | 181 0 | 1995 1815 | 1995 1815 | 1995 1815 | 1300 1326 | 1436 1856 | 160 |
| | 850 | 705 1860 | 1815 1765 | 1815 1765 | 1995 1815 1785 | 1995 1815 1765 | 1005 1815 1765 | 1300 1329 1295 | 1430 1855 1825 | 160 |
| | 850 700 | 705 1650 1590 | 1815 1765 1665 | 1815 1765 1705 | 1005 1815 1785 1705 | 1995 1815 1765 1705 | 1005 1815 1765 1705 | 1330 1325 1285 1265 | 1430 1855 1825 1335 | 160 |
| | 850 700 750 900 | 705 - 660 - 590 - 520 - 235 | 1815 1765 1665 1520 1235 | 1815 1765 1705 1595 1525 | 1095 1812 1785 1705 1595 1595 | 1995 1815 1765 1705 1795 1595 | 1005 1815 1765 1705 1595 1525 | 1339 1329 1285 1285 1285 1285 1240 | 1430 1855 1825 1825 1825 1950 1950 | 160 |
| | 880 700 750 900 850 | 705 - 680 - 590 - 590 - 520 - 235 - 235 - 055 | 1815 1765 1685 1620 1520 1235 955 | 1810 1765 1703 1595 1595 1595 1460 | 1095 1813 1785 1705 1595 1595 1595 1490 | 1005 1815 1765 1705 1595 1525 1625 | 1005 1815 1765 1705 1595 1595 1525 1460 | 1330 1329 1285 1265 1265 1240 1240 1215 1290 | 1430 1855 1828 1335 1950 1955 1955 | 160 |
| 900 | 880 700 750 800 850 800 | 705 - 680 - 580 - 520 - 520 - 535 065 690 | 1815 1765 1685 1520 1235 950 670 | 1819 1765 1703 1595 1595 1595 1460 1390 | 1095 1815 1785 1705 1595 1595 1490 1890 | 1005 1815 1765 1705 1595 1525 1400 1120 | 1005 1815 1765 1705 1595 1595 1525 1460 1390 | 1330 1325 1285 1265 1265 1240 1240 1215 1290 1265 | 1430 1855 1825 1335 1950 1955 1255 1245 | 160 |
| 900 | 850 700 750 600 850 900 850 | 705 - 550 - 550 - 520 - 335 - 335 - 055 - 690 - 210 | 1815 1765 1665 1520 1235 950 870 410 | 1819 1766 1705 1595 1595 1490 1590 955 | 1095 1818 1788 1705 1595 1695 1490 1895 1490 | 1005 1815 1765 1705 1595 1525 1400 1120 823 | 1005 1815 1765 1705 1595 1595 1525 1460 1350 1350 | 1330 1329 1285 1265 1265 1240 1215 1265 1265 1265 1165 | 1430 1855 1825 1335 1950 1950 1955 1245 1245 1245 | 160 |
| 900 | 880 700 750 600 850 900 860 1000 | 705 - 680 - 580 - 520 - 520 - 535 065 690 | 1815 1765 1685 1520 1235 950 670 | 1819 1766 1705 1595 1595 1460 1380 855 655 | 1005 1813 1785 1705 1595 1595 1490 1990 1990 1160 500 | 1005 1815 1765 1705 1595 1595 1595 1460 1120 826 565 | 1905 1815 1765 1705 1595 1595 1460 1350 1130 750 | 1330 1329 1285 1265 1265 1240 1215 1240 1245 1290 1165 1145 1065 | 1430 1855 1825 1335 1250 1255 1255 1245 1150 1050 | 160 |
| 900 | 880 750 950 850 850 850 850 1005 1055 | 705 - 550 - 550 - 520 - 335 - 335 - 055 - 690 - 210 | 1815 1765 1665 1520 1235 950 870 410 | 1810 1765 1705 1595 1595 1490 1300 955 650 480 | 1095 1813 1785 1795 1595 1595 1460 1990 1160 500 525 | 1995 1815 1765 1705 1595 1595 1460 1120 825 595 430 | 1005 1815 1765 1705 1595 1595 1460 1390 1130 750 515 | 1339 1329 1285 1265 1265 1240 1215 1240 1245 1265 1145 1065 975 | 1430 1855 1825 1335 1250 1265 1255 1248 1150 1050 | 160 |
| 900 | 850 750 900 850 900 860 1005 1055 1105 | 705 - 550 - 550 - 520 - 335 - 335 - 055 - 690 - 210 | 1815 1765 1665 1520 1235 950 870 410 | 1819 1765 1705 1595 1595 1460 1590 955 655 655 430 285 | 1005 1813 1785 1705 1595 1595 1490 1595 1490 1595 1160 505 505 300 | 1005 1815 1765 1705 1595 1525 1460 1120 825 595 430 300 | 1005 1815 1765 1705 1595 1595 1460 1390 1130 780 515 340 | 1330 1329 1285 1265 1265 1240 1215 1240 1245 1240 1265 1145 1065 975 770 | 1430 1855 1825 1335 1255 1255 1255 1240 1150 1050 915 | 160 |
| 900 | 850 750 500 850 900 850 1005 1005 1100 1160 | 705 - 550 - 550 - 520 - 335 - 335 - 055 - 690 - 210 | 1815 1765 1665 1520 1235 950 870 410 | 1819 1765 1703 1595 1595 1460 1390 855 655 430 280 280 100 | 1995 1813 1785 1705 1595 1695 1490 1990 1990 500 525 300 525 300 | 1005 1815 1765 1705 1595 1525 1460 1120 826 565 430 300 - %6 | 1005 1815 1765 1705 1595 1525 1460 1350 1350 1350 1350 515 515 340 225 | 1330 1329 1285 1265 1240 1240 1240 1240 1245 1240 1245 1245 145 145 145 145 165 975 770 015 | 1430 1855 1828 1335 1265 1265 1255 1255 1255 1255 1255 125 | 160 |
| 90.0 | 880 700 750 800 800 900 900 900 900 1000 1000 1000 | 705 - 550 - 550 - 520 - 335 - 335 - 055 - 690 - 210 | 1815 1765 1665 1520 1235 950 870 410 | 1819 1765 1705 1595 1595 1460 1590 955 655 655 430 285 | 1005 1813 1785 1705 1595 1595 1490 1595 1490 1595 1160 505 505 300 | 1005 1815 1765 1705 1595 1525 1460 1120 825 595 430 300 | 1005 1815 1765 1705 1595 1595 1460 1390 1130 780 515 340 | 1330 1329 1285 1265 1265 1240 1215 1240 1245 1240 1245 1245 1245 1245 145 1265 975 770 615 795 | 1430 1855 1825 1335 1250 1255 1255 1255 1255 1255 1255 125 | 160 |
| 900 | 880 700 750 800 850 800 800 1005 1005 1005 1100 1150 1200 1250 | 705 - 550 - 550 - 520 - 335 - 335 - 055 - 690 - 210 | 1815 1765 1665 1520 1235 950 870 410 | 1819 1765 1703 1595 1595 1460 1390 855 655 430 280 280 100 | 1995 1813 1785 1705 1595 1695 1490 1990 1990 500 525 300 525 300 | 1005 1815 1765 1705 1595 1525 1460 1120 826 565 430 300 - %6 | 1005 1815 1765 1705 1595 1525 1460 1350 1350 1350 1350 515 515 340 225 | 1330 1329 1285 1285 1285 1240 1245 1240 1245 1245 1245 1245 1245 1245 1245 1245 | 1430 1855 1825 1335 1255 1255 1255 1255 1255 1255 12 | 160 |
| 900 | 880 700 750 800 850 800 880 1005 1005 1105 1105 1 | 705 - 550 - 550 - 520 - 335 - 335 - 055 - 690 - 210 | 1815 1765 1665 1520 1235 950 870 410 | 1819 1765 1703 1595 1595 1460 1390 855 655 430 280 280 100 | 1995 1813 1785 1705 1595 1695 1490 1990 1990 500 525 300 525 300 | 1005 1815 1765 1705 1595 1525 1460 1120 826 565 430 300 - %6 | 1005 1815 1765 1705 1595 1525 1460 1350 1350 1350 1350 515 515 340 225 | 1330 1329 1285 1265 1265 1240 1215 1240 1245 1240 1265 1145 1065 975 770 015 795 200 340 | 1430 1855 1825 1335 1250 1255 1255 1255 1255 1255 1255 125 | 160 |
| 90-0 | 850 750 900 900 900 960 1005 1005 1100 1100 1100 1200 1250 1300 | 705 - 550 - 550 - 520 - 335 - 335 - 055 - 690 - 210 | 1815 1765 1665 1520 1235 950 870 410 | 1819 1765 1703 1595 1595 1460 1390 855 655 430 280 280 100 | 1995 1813 1785 1705 1595 1695 1490 1990 1990 500 525 300 525 300 | 1005 1815 1765 1705 1595 1525 1460 1120 826 565 430 300 - %6 | 1005 1815 1765 1705 1595 1525 1460 1350 1350 1350 1350 515 515 340 225 | 1330 1329 1285 1265 1265 1240 1240 1240 1265 1145 1065 975 770 615 795 200 340 260 | 1436 1855 1825 1335 1250 1265 1265 1265 1265 1265 1265 1265 1265 | 160 |
| 90.0 | 850 750 500 500 850 900 880 1005 1005 1100 1160 1200 1250 1300 1400 | 705 - 550 - 550 - 520 - 335 - 335 - 055 - 690 - 210 | 1815 1765 1665 1520 1235 950 870 410 | 1819 1765 1703 1595 1595 1460 1390 855 655 430 280 280 100 | 1995 1813 1785 1705 1595 1695 1490 1990 1990 500 525 300 525 300 | 1005 1815 1765 1705 1595 1525 1460 1120 826 565 430 300 - %6 | 1005 1815 1765 1705 1595 1525 1460 1350 1350 1350 1350 515 515 340 225 | 1330 1329 1285 1265 1265 1240 1215 1240 1240 1245 1240 1245 1240 1265 975 770 015 705 200 340 260 225 | 1430 1855 1825 1925 1255 1255 1255 1255 1255 1255 12 | 160 |
| 900 | 850 750 900 900 900 960 1005 1005 1100 1100 1100 1200 1250 1300 | 705 - 550 - 550 - 520 - 335 - 335 - 055 - 690 - 210 | 1815 1765 1665 1520 1235 950 870 410 | 1819 1765 1703 1595 1595 1460 1390 855 655 430 280 280 100 | 1995 1813 1785 1705 1595 1695 1490 1990 1990 500 525 300 525 300 | 1005 1815 1765 1705 1595 1525 1460 1120 826 565 430 300 - %6 | 1005 1815 1765 1705 1595 1525 1460 1350 1350 1350 1350 515 515 340 225 | 1330 1329 1285 1265 1265 1240 1240 1240 1265 1145 1065 975 770 615 795 200 340 260 | 1436 1855 1825 1335 1250 1265 1265 1265 1265 1265 1265 1265 1265 | 160 |

PRESSURE TEMPERATURE RATINGS



ASME B16.34-2009

| | | | co | LD WOR | KING PR | ESSURE, | psig | | r | |
|------------------|--|------------------------|--------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|---|---|-----------|
| CLASS | TEMP °F | A216 WCB A105 & LF2 | A352 LCC | A217 WC6 A182 F11 | A217 WC9 A182 F22 | A217 C5 A182 F5 | A217 C12 A182 F9 | A351 CF8 A182 F304 | A351 CF8M A182 F316 | A352 CN7M |
| | -20 to 100 | 8705 | 3760 | 375C | 3760 | 3750 | 3750 | 3600 | 3600 | 3000 |
| 5 | 200 | 33 9ñ | 3750 | 375¢ | 3750 | 8750 | 3750 | 3000 | 3095 | .359C |
| 5 | 300 | 3670 | 9840 | 36°C | 0640 | 3640 | 3640 | 2690 | 2795 | 2330 |
| 1 | 400 | 0170 | 3520 | 3465 | 3560 | 3500 | 3530 | 2465 | 2370 | 2110 |
| 8 | 500 | 3015 | 3025 | 0325 | 3025 | 3325 | 3325 | 2330 | 2090 | 1945 |
| 2 | 800 | 2540 | 3625 | 3025 | 3025 | 3025 | 3025 | 2210 | 2255 | 1800 |
| | 650 | 2745 | 2840 | 294C | 2940 | 2940 | 2940 | 218C | 2210 | |
| | 700 | 2865 | 2775 | 284C | 2840 | 2840 | 2840 | 21*0 | 2170 | |
| | 750 | 2535 | 2685 | 2650 | 2660 | 2660 | 2660 | 2065 | 2135 | |
| | 800 | 2066 | 2055 | 2540 | 2040 | 25/10 | 25/10 | 2030 | 2110 | |
| | 850 | 1505 | 1095 | 2430 | 2485 | 2435 | 2435 | 1950 | 2090 | |
| | 900 | 1160 | 1115 | 3924o | 25145 | .870 | 9240 | 1(14c) | 2075 | 0 |
| 1500 | 950 | 685 | 680 | 1bêo | 1950 | 1370 | 1680 | 1910 | -930 | |
| 3 | 1000 | 430 | 430 | 1090 | 1355 | 995 | 1270 | 1770 | -820 | - |
| 3 | 1050 | 0.000 | | 720 | 675 | 720 | 855 | 1630 | 1800 | |
| 8 | 1100 | | - | 480 | 550 | 495 | 565 | 1255 | 1525 | - |
| 10 | 1150 | | - | 325 | 545 | 310 | 375 | 1050 | 1165 | |
| 3 | 1200 | | | 205 | 205 | 170 | 255 | 525 | 925 | |
| 1 | 1250 | | | 200 | 210 | 1.4 | 200 | 570 | 735 | |
| 2 | 1300 | | | 6 | | | | | 586 | 0 |
| 5 | 1998 | | 2 | 0 3 | | | | 565 | 1000 | 2 |
| 1 | 1350 | - | | 2 2 | | | h | 465 | 190 | |
| 3 | 1400 | | | - | | | | 380 | 890 | |
| ä | 140C | | | | | | 4 | 290 | 290 | - |
| | 1500 | | | | | | | 205 | 205 | |
| CLASS | TEMP 'F | A216 WCB A105 & LF2 | A352 LCC | A217 WCB A182 F11 | A217 WC9 A182 F22 | A217 C5 A182 F5 | A217 C12 A182 F9 | A351 CF8 A182 F304 | A351 CFBM A162 F316 | A352 CN7M |
| 2 | 20 to 100 | 6170 | 8250 | 6250 | 6250 | 6250 | 6250 | 6000 | 5000 | 500C |
| 15 | 200 | 5855 | 8250 | 6250 | 8250 | 6250 | 6250 | 5000 | 5160 | 4320 |
| 3 | 300 | 5450 | 8070 | 6015 | 5070 | 6070 | 6070 | 44B0 | 4660 | 385C |
| | 400 | 2280 | 5865 | 5775 | 5880 | 5880 | 5B30 | 4140 | 4280 | 352C |
| | 500 | 6026 | 5640 | 551C | 5640 | 5540 | 5540 | 3880 | 388D | 3240 |
| l î | 600 | 4730 | 5040 | 504C | 2040 | 5040 | 50/10 | 3680 | 3760 | 3000 |
| | 650 | 4576 | 4905 | 4906 | 4905 | 4905 | 4906 | 3600 | 3680 | |
| | 700 | 4420 | 4630 | 479C | 4750 | 4/30 | 4730 | 3620 | 3620 | |
| 1 | 750 | 42.30 | 4230 | 430) | 4450 | 4430 | 44,30 | 344C | 3060 | |
| | 600 | 3430 | 3430 | 423C | 4250 | 4230 | 4230 | 335C | 3520 | |
| 1 | | 0475 | 2655 | 4050 | 4060 | 4060 | 4060 | 2320 | 3460 | |
| | 650 | 2855 | | | | | 3745 | 3240 | 3460 | |
| 1 1 1 1 | 028 900 | 2665 1915 | 1855 | 3745 | 3745 | 3115 | 111.961 | | A 19 19 19 19 19 19 19 19 19 19 19 19 19 | |
| 2 50 0 | | | 0.020000 | 0745 2655 | 3745 3225 | 3115 2285 | 3-45 | 015C | 3220 | |
| 2500 | 900 | 1915 1145 | 1255 1145 | 2655 | | 2285 | 3145 | 0150 2950 | | |
| 2500 | 900 950 | 1915 | 1255 | | 3225 | | | 295C | 3225 3035 3005 | |
| 2500 | 900 950 10D0 | 1915 1145 | 1255 1145 | 2655 1800 1200 | 3225 2235 1/55 | 2285 1655 120D | 3°45 2°15 | 295C 27*5 | 3030 3000 | |
| 2500 | 900 950 1000 1050 1100 | 1915 1145 | 1255 1145 | 2655 1800 1200 300 | 3225 2230 1/55 915 | 2285 1655 1200 850 | 3145 2115 1430 845 | 2950 27*6 2145 | 3030 3000 2645 | |
| 2500 | 900 950 1000 1050 1100 1150 | 1915 1145 | 1255 1145 | 2655 1830 1230 200 3/5 | 3225 2235 1/55 915 570 | 2285 1655 1200 830 518 | 3145 2115 1430 845 630 | 2950 2715 2115 1716 | 3030 3000 2645 1970 | |
| 2500 | 900 950 1000 1050 1105 1100 1150 1200 | 1915 1145 | 1255 1145 | 2655 1800 1200 300 | 3225 2230 1/55 915 | 2285 1655 1200 850 | 3145 2115 1430 845 | 2950 27*5 2145 17*5 1370 | 3030 3000 2645 1970 1645 | |
| 2500 | 900 950 1000 1050 1100 1150 1200 1256 | 1915 1145 | 1255 1145 | 2655 1830 1230 200 3/5 | 3225 2235 1/55 915 570 | 2285 1655 1200 830 518 | 3145 2115 1430 845 630 | 2950 2715 2145 1715 1870 1110 | 3030 3000 2545 1970 1945 1980 | |
| 2500 | 900 950 1000 1050 1105 1150 1150 1200 1200 12 | 1915 1145 | 1255 1145 | 2655 1830 1230 200 3/5 | 3225 2235 1/55 915 570 | 2285 1655 1200 830 518 | 3145 2115 1430 845 630 | 2950 2715 2145 1715 1870 1110 945 | 3030 3000 2645 1970 1945 1980 970 | |
| 2500 | 900 950 1000 1050 1100 1150 1200 1200 1250 1300 1350 | 1915 1145 | 1255 1145 | 2655 1830 1230 200 3/5 | 3225 2235 1/55 915 570 | 2285 1655 1200 830 518 | 3145 2115 1430 845 630 | 2950 27°5 2145 17°5 1870 11°0 945 770 | 3030 3000 2645 1970 1945 1980 970 800 | |
| 2500 | 900 950 1000 1050 1150 1150 1200 1200 1250 1350 1350 1400 | 1915 1145 | 1255 1145 | 2655 1830 1230 200 3/5 | 3225 2235 1/55 915 570 | 2285 1655 1200 830 518 | 3145 2115 1430 845 630 | 2950 2715 2145 1715 1870 1110 945 770 800 | 3030 3000 2645 1970 1945 1980 970 600 830 | |
| 2500 | 900 950 1000 1050 1100 1150 1200 1200 1250 1300 1350 | 1915 1145 | 1255 1145 | 2655 1830 1230 200 3/5 | 3225 2235 1/55 915 570 | 2285 1655 1200 830 518 | 3145 2115 1430 845 630 | 2950 27°5 2145 17°5 1870 11°0 945 770 | 3030 3000 2645 1970 1945 1980 970 800 | |



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These terms and conditions apply to all Fastuel valve products, and supersedes all previously published terms and conditions.

Hereafter, Fastwell Fitting Industries shall be referred to as Fastwell

Special terms and conditions printed on a buyer's order will only apply insofar as they conform to the terms and conditions detailed on these pages. Terms and conditions of an order that change or modify those on this sheet shall not be binding on Fastwell

APPROVAL

All quotations, contracts, orders, or agreements are subject to approval and/or acceptance by the main offce of Fastwell

We reserve the right to correct clerical or stenographic errors in quotations, orders, invoices, and other contracts, agreements, or documents.

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Possession of price lists will not be accepted by Fastwell as an obligation, or offer to sell the goods listed therein to anyone.

All prices contained therein are subject to change without notice, and supersede all previous lists. All orders will be invoiced at prices in effect at the time of shipment unless quoted in writing.

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Orders cannot be cancelled or specifications be changed without the consent of Fastwell and then only in terms indemnifying Fastwell against loss.

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We assume no responsibility for delays in delivery, or defaults resulting from strikes, work stoppages, fres, foods, accidents, war, inability to obtain materials, or any other cause unavoidable and beyond our control.

TAXES

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Catalog illustrations are actual representations of a certain size of each product line, but do not necessarily represent all sizes in details. We reserve the right to institute changes in materials, designs, and specifications without notice in keeping with our policy of continuing product improvement.

CATALOG WEIGHTS

Catalog weights represent average weights of products and are in no sense guaranteed.

RETURNS

See Return Goods Policy on next page.

SPECIAL ORDERS

Orders for special goods must be in writing and accompanied with detailed prints and/or sets of specifcations, unless specifcations on the orders are defnite and complete. Orders will not be entered with the factory unless this is adhered to. Cancellation charges will be as outlined in our quotations.

FREIGHT TERMS

All shipments are F.O.B. our service centers. See current bulletin for freight allowance.

WARRANTY

See warranty on reverse side

RETURN GOODS POLICY



This policy supersedes all other policies for return goods.

- I. Goods returned at customers request:
 - A. Material must be:
 - 1. Of our manufacture.
 - 2. In clean, new and saleable condition. It must have been stored inside out of the weather.
 - 3. Shipped from one of our service centers within the 12 calendar months preceding the request for return, and the return will not cause inventory to exceed maximum allowable levels.
 - 4. Personally inspected by a Fastwell representative prior to its return.
 - 5. Special or non-standard items are non-returnable.
 - B. Return shipments must be prepaid.
 - C. Credit will be allowed at invoice price, less 25% handling cost, and less any freight paid by Fastwell
 - D. A Return Goods Card must be furnished by a Fastwellrepresentative after inspection of the material, and must be returned with the shipment.
 - E. Shipments received without a Return Goods Authorization Card will be refused. Customer will be responsible for any storage and/or return freight.
 - F Material returned which is not of Fastell manufacture, not in clean and saleable condition, or not authorized for return will be returned to the customer freight collect.
- II. Goods returned because of an error by Fastwell
 - A. Material must be in a clean, new, saleable condition.
 - B. Return shipment should be made freight collect.
 - C. Full credit will be allowed.
 - D. Customer must receive Return Goods authorization prior to the return of the material. Return Goods Authorization Card must accompany shipment. Shipments received without Return Goods Authorization Card will be refused. Return Goods Authorization Card should be attached to the packing list.

All requests to return material to **Fastwell Fitting Industries.** must be submitted in writing to our National Sales Manager for authorization.

WARRANTY

Fastwell Fitting Industries. warrants each product sold, if the products are of our manufacture, against defects in material and workmanship under normal use and service for a period of one year after date of shipment.

This warranty is made to the buyer only, and does not extend to any other party. The obligation of Fastwell Valve International, Inc. under this warranty is limited to: (a) replacement of any part or parts proven defective in material or workmanship, (b) repair of the product FO.B. the factory or service center, (c) refund of the purchase price. In the case of product or parts not wholly of Fastwell manufacture, Fastwell liability under this warranty shall be limited to the extent of Fastwell recovery from the manufacture of such parts under its warranty to Fastwell This warranty does not extend to any claims for labor, consequential damages, down time, or any other loss, damage, or expense of any kind arising out of the defect. We do not allow claims for unauthorized repairs, labor, or material. We are not responsible for loss of use, personal injury, lost profts, or any other damages whatsoever in connection with the warranties set forth.

No warranty shall apply to any product which has been modifed or changed in design or function after leaving Fastwell facilities or which is misused or operated beyond its design capabilities, or used for other than its intended purpose. Purchasers of Fastwell products should consult knowledgeable advisors in the selection of product type and material of construction for their specific use. The buyer assumes all risk of this selection.

The buyer shall permit Fastwell or its authorized representative to inspect the product so that it may determine its obligation. Fastwell shall be entitled to the return of the defective product or parts. Buyer must notify Fastwell promptly upon discover of any claimed defect.

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