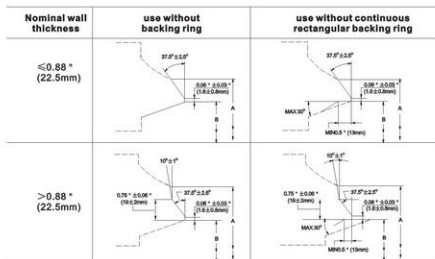




BUTT-WELDING ENDS



Class 150 and 300 valve which size equal to 12 inch and smaller and 12 inch valves which contract with standard wall pipe (0.375" thickness) are regularly machined. Unless have other requirement.

Order for class 150 and 300 butt-welding valves which size equal to 14 and larger and class 400 and higher valve for all sizes, it should specified the diameter of the pipe that contract with valves. If need backing ring, indicate specification.

Other types of weld end preparation would be furnished of specified.

ASME B16.25-Butt-Welding Ends

| 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | |
|-----------------------|-----|-------------------------------|---------------------------------|-----|-----------------------|-------|---------------------------------|-------|----------------------------------|--------|------------------------|-------|--|
| Nominal Pipe Diameter | | Wall Thickness of Pipe Number | Outside Diameter of Welding End | | | | Nominal Inside Diameter of Pipe | | Machined Inside Diameter of Pipe | | Nominal Wall Thickness | | |
| NPS | DN | | Steel Valve | | Forged ⁽¹⁾ | | In. B | | In. C | | t | | |
| In. | mm | | In. | mm | In. | mm | In. | mm | In. | mm | In. | mm | |
| 2 1/2 | 65 | 40 | 2.96 | 75 | 2.88 | 73.0 | 2.469 | 62.5 | 2.479 | 62.93 | 0.203 | 5.16 | |
| | | 80 | 2.96 | 75 | 2.88 | 73.0 | 2.323 | 59 | 2.351 | 59.69 | 0.276 | 7.01 | |
| | | 160 | 2.96 | 75 | 2.88 | 73.0 | 2.125 | 54 | 2.178 | 55.28 | 0.375 | 9.53 | |
| 3 | 80 | XXS | 2.96 | 75 | 2.88 | 73.0 | 1.771 | 45 | 1.866 | 47.43 | 0.552 | 14.02 | |
| | | 40 | 3.59 | 91 | 3.50 | 88.9 | 3.068 | 78 | 3.081 | 78.25 | 0.216 | 5.49 | |
| | | 80 | 3.59 | 91 | 3.50 | 88.9 | 2.900 | 73.5 | 2.934 | 74.53 | 0.300 | 7.62 | |
| 160 | 80 | XXS | 3.59 | 91 | 3.50 | 88.9 | 2.624 | 66.5 | 2.692 | 68.38 | 0.438 | 11.13 | |
| | | 40 | 4.12 | 105 | 4.00 | 101.6 | 3.548 | 90 | 3.564 | 90.52 | 0.226 | 25.74 | |
| | | 80 | 4.12 | 105 | 4.00 | 101.6 | 3.364 | 85.5 | 3.402 | 86.42 | 0.318 | 8.08 | |
| 4 | 100 | 40 | 4.62 | 117 | 4.50 | 114.3 | 4.026 | 102 | 4.044 | 102.73 | 0.237 | 6.02 | |
| | | 80 | 4.62 | 117 | 4.50 | 114.3 | 3.926 | 97 | 3.869 | 98.28 | 0.337 | 8.56 | |
| | | 120 | 4.62 | 117 | 4.50 | 114.3 | 3.624 | 92 | 3.692 | 93.78 | 0.438 | 11.13 | |
| 160 | 100 | XXS | 4.62 | 117 | 4.50 | 114.3 | 3.438 | 87.5 | 3.530 | 89.65 | 0.531 | 13.49 | |
| | | 40 | 4.62 | 117 | 4.50 | 114.3 | 3.152 | 80 | 3.279 | 83.90 | 0.674 | 17.12 | |
| | | 80 | 5.69 | 144 | 5.56 | 141.3 | 5.047 | 128 | 5.070 | 128.80 | 0.258 | 6.55 | |
| 5 | 125 | 40 | 5.69 | 144 | 5.56 | 141.3 | 4.813 | 122 | 4.866 | 123.58 | 0.375 | 9.53 | |
| | | 80 | 5.69 | 144 | 5.56 | 141.3 | 4.563 | 116 | 4.647 | 118.04 | 0.500 | 12.70 | |
| | | 120 | 5.69 | 144 | 5.56 | 141.3 | 4.313 | 109.5 | 4.428 | 112.47 | 0.625 | 15.88 | |
| 160 | 125 | XXS | 5.69 | 144 | 5.56 | 141.3 | 4.063 | 103 | 4.209 | 106.92 | 0.750 | 19.05 | |
| | | 40 | 6.78 | 172 | 6.62 | 168.3 | 6.065 | 154 | 6.094 | 154.82 | 0.280 | 7.11 | |
| | | 80 | 6.78 | 172 | 6.62 | 168.3 | 5.781 | 146.5 | 5.828 | 148.06 | 0.432 | 10.97 | |
| 120 | 150 | XXS | 6.78 | 172 | 6.62 | 168.3 | 5.501 | 140 | 5.600 | 142.29 | 0.562 | 14.27 | |
| | | 40 | 6.78 | 172 | 6.62 | 168.3 | 5.187 | 132 | 5.328 | 135.31 | 0.719 | 18.26 | |
| | | 80 | 6.78 | 172 | 6.62 | 168.3 | 4.897 | 124.5 | 5.072 | 128.85 | 0.864 | 21.95 | |
| 8 | 200 | 40 | 8.78 | 223 | 8.62 | 219.1 | 7.981 | 203 | 8.020 | 203.75 | 0.322 | 8.18 | |
| | | 80 | 8.78 | 223 | 8.62 | 219.1 | 7.813 | 198.5 | 7.873 | 200.02 | 0.406 | 10.31 | |
| | | 120 | 8.78 | 223 | 8.62 | 219.1 | 7.625 | 193.5 | 7.709 | 195.84 | 0.500 | 12.70 | |
| 100 | 200 | XXS | 8.78 | 223 | 8.62 | 219.1 | 7.437 | 189 | 7.544 | 191.65 | 0.594 | 15.09 | |
| | | 40 | 8.78 | 223 | 8.62 | 219.1 | 7.187 | 182.5 | 7.326 | 186.11 | 0.719 | 18.26 | |
| | | 80 | 8.78 | 223 | 8.62 | 219.1 | 7.001 | 178 | 7.163 | 181.98 | 0.812 | 20.62 | |
| 120 | 200 | XXS | 8.78 | 223 | 8.62 | 219.1 | 6.875 | 174.5 | 7.053 | 179.16 | 0.875 | 22.23 | |
| | | 40 | 8.78 | 223 | 8.62 | 219.1 | 6.813 | 173 | 6.998 | 177.79 | 0.906 | 23.01 | |
| | | 80 | 10.94 | 278 | 10.75 | 273.0 | 10.020 | 254.5 | 10.070 | 255.74 | 0.365 | 9.27 | |
| 60 | 150 | XXS | 10.94 | 278 | 10.75 | 273.0 | 9.750 | 247.5 | 9.834 | 249.74 | 0.500 | 12.70 | |
| | | 40 | 10.94 | 278 | 10.75 | 273.0 | 9.562 | 243 | 9.670 | 245.55 | 0.594 | 15.09 | |
| | | 80 | 10.94 | 278 | 10.75 | 273.0 | 9.312 | 236.5 | 9.451 | 240.01 | 0.719 | 18.26 | |
| 10 | 250 | XXS | 10.94 | 278 | 10.75 | 273.0 | 9.062 | 230 | 9.232 | 234.44 | 0.844 | 21.44 | |
| | | 40 | 10.94 | 278 | 10.75 | 273.0 | 8.750 | 222 | 8.959 | 227.51 | 1.000 | 25.40 | |
| | | 80 | 10.94 | 278 | 10.75 | 273.0 | 8.500 | 216 | 8.740 | 221.95 | 1.125 | 28.58 | |



BUTT-WELDING ENDS

ASME B16.25-Butt-Welding Ends

| 1 | | 2 | | 3 | | | | 4 | | | | 5 | | | | 6 | | | | 7 | |
|-----------------------|----------|-------------------------------|-------|---------------------------------|----------------|----------------------|--------|---------------------------------|--------|--------|-------|----------------------------------|----|-----|----|------------------------|----|-----|----|---|--|
| Nominal Pipe Diameter | | Wall Thickness of Pipe Number | | Outside Diameter of Welding End | | | | Nominal Inside Diameter of Pipe | | | | Machined Inside Diameter of Pipe | | | | Nominal Wall Thickness | | | | | |
| NPS in. | DN mm | | | Steel Valve | | Forged ¹⁾ | | B | | C | | t | | | | | | | | | |
| | | | | A | A ₁ | B | C | in. | mm | in. | mm | in. | mm | in. | mm | | | | | | |
| in. | mm | | | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | | |
| 12 | 300 | STD | 12.97 | 329 | 12.75 | 323.8 | 12.000 | 305 | 12.053 | 306.08 | 0.375 | 9.53 | | | | | | | | | |
| | | 40 | 12.97 | 329 | 12.75 | 323.8 | 11.938 | 303 | 11.999 | 304.72 | 0.406 | 10.31 | | | | | | | | | |
| | | XS | 12.97 | 329 | 12.75 | 323.8 | 11.750 | 298.5 | 11.834 | 300.54 | 0.500 | 12.70 | | | | | | | | | |
| | | 60 | 12.97 | 329 | 12.75 | 323.8 | 11.626 | 295 | 11.725 | 297.79 | 0.562 | 14.27 | | | | | | | | | |
| | | 80 | 12.97 | 329 | 12.75 | 323.8 | 11.374 | 289 | 11.505 | 292.17 | 0.688 | 17.48 | | | | | | | | | |
| | | 100 | 12.97 | 329 | 12.75 | 323.8 | 11.062 | 281 | 11.232 | 285.24 | 0.844 | 21.44 | | | | | | | | | |
| | | 120 | 12.97 | 329 | 12.75 | 323.8 | 10.750 | 273 | 10.959 | 278.31 | 1.000 | 25.40 | | | | | | | | | |
| | | 140 | 12.97 | 329 | 12.75 | 323.8 | 10.500 | 266.5 | 10.740 | 272.75 | 1.125 | 28.58 | | | | | | | | | |
| | | 160 | 12.97 | 329 | 12.75 | 323.8 | 10.126 | 257 | 10.413 | 264.45 | 1.312 | 33.32 | | | | | | | | | |
| | | 180 | 12.97 | 329 | 12.75 | 323.8 | 9.750 | 248 | 10.100 | 256.15 | 1.500 | 38.10 | | | | | | | | | |
| 14 | 350 | STD | 14.25 | 362 | 14.00 | 355.6 | 13.250 | 336.5 | 13.303 | 337.88 | 0.375 | 9.53 | | | | | | | | | |
| | | 40 | 14.25 | 362 | 14.00 | 355.6 | 13.124 | 333.5 | 13.192 | 335.08 | 0.438 | 11.13 | | | | | | | | | |
| | | XS | 14.25 | 362 | 14.00 | 355.6 | 13.000 | 330 | 13.084 | 332.34 | 0.500 | 12.70 | | | | | | | | | |
| | | 60 | 14.25 | 362 | 14.00 | 355.6 | 12.812 | 325.5 | 12.920 | 328.15 | 0.594 | 15.09 | | | | | | | | | |
| | | 80 | 14.25 | 362 | 14.00 | 355.6 | 12.500 | 317.5 | 12.646 | 321.22 | 0.750 | 19.05 | | | | | | | | | |
| | | 100 | 14.25 | 362 | 14.00 | 355.6 | 12.124 | 308 | 12.318 | 312.86 | 0.938 | 23.83 | | | | | | | | | |
| | | 120 | 14.25 | 362 | 14.00 | 355.6 | 11.812 | 300 | 12.044 | 305.93 | 1.094 | 27.79 | | | | | | | | | |
| | | 140 | 14.25 | 362 | 14.00 | 355.6 | 11.500 | 292 | 11.771 | 299.00 | 1.250 | 31.75 | | | | | | | | | |
| | | 160 | 14.25 | 362 | 14.00 | 355.6 | 11.188 | 284 | 11.498 | 292.07 | 1.406 | 35.71 | | | | | | | | | |
| | | 180 | 14.25 | 362 | 14.00 | 355.6 | 10.876 | 276 | 11.226 | 285.14 | 1.562 | 39.67 | | | | | | | | | |
| 16 | 400 | STD | 16.25 | 413 | 16.00 | 406.4 | 15.250 | 387.5 | 15.303 | 388.68 | 0.375 | 9.53 | | | | | | | | | |
| | | 40 | 16.25 | 413 | 16.00 | 406.4 | 15.000 | 381 | 15.084 | 383.14 | 0.500 | 12.70 | | | | | | | | | |
| | | 60 | 16.25 | 413 | 16.00 | 406.4 | 14.888 | 373 | 14.811 | 373.21 | 0.656 | 16.66 | | | | | | | | | |
| | | 80 | 16.25 | 413 | 16.00 | 406.4 | 14.312 | 363.6 | 14.482 | 367.84 | 0.844 | 21.44 | | | | | | | | | |
| | | 100 | 16.25 | 413 | 16.00 | 406.4 | 13.938 | 354 | 14.155 | 359.53 | 1.031 | 26.19 | | | | | | | | | |
| | | 120 | 16.25 | 413 | 16.00 | 406.4 | 13.562 | 344.5 | 13.826 | 351.18 | 1.219 | 30.96 | | | | | | | | | |
| | | 140 | 16.25 | 413 | 16.00 | 406.4 | 13.124 | 333.5 | 13.442 | 341.43 | 1.438 | 36.53 | | | | | | | | | |
| | | 160 | 16.25 | 413 | 16.00 | 406.4 | 12.812 | 325.5 | 13.170 | 334.50 | 1.594 | 40.49 | | | | | | | | | |
| | | 180 | 16.25 | 413 | 16.00 | 406.4 | 12.500 | 317.5 | 12.900 | 327.57 | 1.750 | 44.45 | | | | | | | | | |
| | | 200 | 16.25 | 413 | 16.00 | 406.4 | 12.124 | 308 | 12.630 | 320.64 | 1.906 | 48.41 | | | | | | | | | |
| 18 | 450 | STD | 18.28 | 464 | 18.00 | 457.2 | 17.250 | 438 | 17.303 | 439.48 | 0.375 | 9.53 | | | | | | | | | |
| | | XS | 18.28 | 464 | 18.00 | 457.2 | 17.000 | 432 | 17.084 | 433.94 | 0.500 | 12.70 | | | | | | | | | |
| | | 40 | 18.28 | 464 | 18.00 | 457.2 | 16.124 | 409.5 | 16.318 | 414.46 | 0.938 | 23.83 | | | | | | | | | |
| | | 60 | 18.28 | 464 | 18.00 | 457.2 | 16.500 | 419 | 16.646 | 422.82 | 0.750 | 19.05 | | | | | | | | | |
| | | 80 | 18.28 | 464 | 18.00 | 457.2 | 16.124 | 409.5 | 16.318 | 414.46 | 0.938 | 23.83 | | | | | | | | | |
| | | 100 | 18.28 | 464 | 18.00 | 457.2 | 15.688 | 398.5 | 15.936 | 404.78 | 1.156 | 29.36 | | | | | | | | | |
| | | 120 | 18.28 | 464 | 18.00 | 457.2 | 15.250 | 387.5 | 15.553 | 395.03 | 1.375 | 34.93 | | | | | | | | | |
| | | 140 | 18.28 | 464 | 18.00 | 457.2 | 14.876 | 378 | 15.225 | 386.77 | 1.562 | 39.67 | | | | | | | | | |
| | | 160 | 18.28 | 464 | 18.00 | 457.2 | 14.438 | 366.5 | 14.842 | 376.99 | 1.751 | 45.24 | | | | | | | | | |
| | | 180 | 18.28 | 464 | 18.00 | 457.2 | 14.000 | 355 | 14.460 | 367.21 | 1.906 | 48.41 | | | | | | | | | |
| 20 | 500 | STD | 20.31 | 516 | 20.00 | 508.0 | 19.250 | 489 | 19.303 | 490.29 | 0.375 | 9.53 | | | | | | | | | |
| | | XS | 20.31 | 516 | 20.00 | 508.0 | 19.000 | 482.5 | 19.084 | 484.74 | 0.500 | 12.70 | | | | | | | | | |
| | | 40 | 20.31 | 516 | 20.00 | 508.0 | 18.812 | 478 | 18.920 | 480.55 | 0.594 | 15.09 | | | | | | | | | |
| | | 60 | 20.31 | 516 | 20.00 | 508.0 | 18.376 | 467 | 18.538 | 470.88 | 0.812 | 20.62 | | | | | | | | | |
| | | 80 | 20.31 | 516 | 20.00 | 508.0 | 17.938 | 455.5 | 18.155 | 461.13 | 1.031 | 26.19 | | | | | | | | | |
| | | 100 | 20.31 | 516 | 20.00 | 508.0 | 17.438 | 443 | 17.717 | 450.02 | 1.281 | 32.54 | | | | | | | | | |
| | | 120 | 20.31 | 516 | 20.00 | 508.0 | 17.000 | 432 | 17.334 | 440.29 | 1.500 | 38.10 | | | | | | | | | |
| | | 140 | 20.31 | 516 | 20.00 | 508.0 | 16.500 | 419 | 16.896 | 429.17 | 1.750 | 44.45 | | | | | | | | | |
| | | 160 | 20.31 | 516 | 20.00 | 508.0 | 16.062 | 408 | 16.513 | 419.44 | 1.969 | 50.01 | | | | | | | | | |
| | | 180 | 20.31 | 516 | 20.00 | 508.0 | 15.625 | 396.5 | 16.130 | 410.71 | 2.188 | 55.57 | | | | | | | | | |
| 22 | 550 | STD | 22.34 | 567 | 22.00 | 558.8 | 21.250 | 520 | 21.303 | 541.08 | 0.375 | 9.53 | | | | | | | | | |
| | | XS | 22.34 | 567 | 22.00 | 558.8 | 21.000 | 533 | 21.084 | 535.54 | 0.500 | 12.70 | | | | | | | | | |
| | | 40 | 22.34 | 567 | 22.00 | 558.8 | 20.250 | 514 | 20.428 | 518.86 | 0.875 | 22.23 | | | | | | | | | |
| | | 60 | 22.34 | 567 | 22.00 | 558.8 | 19.750 | 502 | 19.990 | 507.75 | 1.125 | 28.58 | | | | | | | | | |
| | | 80 | 22.34 | 567 | 22.00 | 558.8 | 19.250 | 488.5 | 19.553 | 496.63 | 1.375 | 34.93 | | | | | | | | | |
| | | 100 | 22.34 | 567 | 22.00 | 558.8 | 18.750 | 476 | 19.115 | 485.52 | 1.625 | 41.28 | | | | | | | | | |
| | | 120 | 22.34 | 567 | 22.00 | 558.8 | 18.250 | 464 | 18.678 | 474.41 | 1.875 | 47.63 | | | | | | | | | |
| | | 140 | 22.34 | 567 | 22.00 | 558.8 | 17.750 | 452 | 18.240 | 463.30 | 2.125 | 53.98 | | | | | | | | | |
| | | 160 | 22.34 | 567 | 22.00 | 558.8 | 17.250 | 440 | 17.800 | 452.19 | 2.375 | 60.33 | | | | | | | | | |
| | | 180 | 22.34 | 567 | 22.00 | 558.8 | 16.750 | 428 | 17.360 | 441.08 | 2.625 | 66.68 | | | | | | | | | |

NOTE: 1). Forged or Machined Component Part

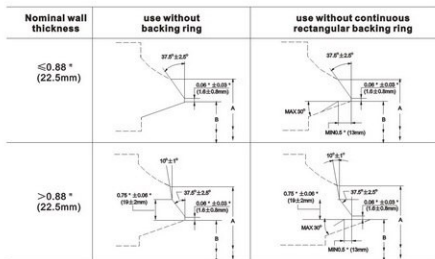
a. STD=Standard Wall Thickness.

b. XS=Intensifying Wall Thickness.

c. XXS=Double Intensifying Wall Thickness.



BUTT-WELDING ENDS



Class 150 and 300 valve which size equal to 12 inch and smaller and 12 inch valves which contract with standard wall pipe (0.375" thickness) are regularly machined. Unless have other requirement.

Order for class 150 and 300 butt-welding valves which size equal to 14 and larger and class 400 and higher valve for all sizes, it should specified the diameter of the pipe that contract with valves. If need backing ring, indicate specification.

Other types of weld end preparation would be furnished if specified.

ASME B16.25-Butt-Welding Ends

| 1 | | 2 | | 3 | | | | 4 | | 5 | | 6 | | 7 | |
|-----------------------|-------|-------------------------------|---------------------------------|-------|----------------------|-------|---------------------------------|--------|----------------------------------|--------|------------------------|-------|-----|----|--|
| Nominal Pipe Diameter | | Wall Thickness of Pipe Number | Outside Diameter of Welding End | | | | Nominal Inside Diameter of Pipe | | Machined Inside Diameter of Pipe | | Nominal Wall Thickness | | | | |
| NPS DN | | | Steel Valve | | Forged ¹⁾ | | A | | B | | C | | t | | |
| in. | mm | | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | |
| 24 | 600 | STD | 24.38 | 619 | 24.00 | 609.6 | 23.250 | 590.5 | 23.303 | 591.88 | 0.375 | 9.53 | | | |
| | | XS | 24.38 | 619 | 24.00 | 609.6 | 23.000 | 584 | 23.084 | 586.34 | 0.500 | 12.70 | | | |
| | | 30 | 24.38 | 619 | 24.00 | 609.6 | 22.876 | 581 | 22.975 | 583.59 | 0.562 | 14.27 | | | |
| | | 40 | 24.38 | 619 | 24.00 | 609.6 | 22.624 | 574.5 | 22.755 | 577.97 | 0.688 | 17.48 | | | |
| | | 60 | 24.38 | 619 | 24.00 | 609.6 | 22.062 | 560.5 | 22.263 | 565.49 | 0.969 | 24.61 | | | |
| | | 80 | 24.38 | 619 | 24.00 | 609.6 | 21.562 | 547.5 | 21.826 | 554.38 | 1.219 | 30.96 | | | |
| | | 100 | 24.38 | 619 | 24.00 | 609.6 | 20.938 | 532 | 21.280 | 540.49 | 1.531 | 38.89 | | | |
| | | 120 | 24.38 | 619 | 24.00 | 609.6 | 20.376 | 517.5 | 20.788 | 528.03 | 1.812 | 46.02 | | | |
| | | 140 | 24.38 | 619 | 24.00 | 609.6 | 19.876 | 505 | 20.350 | 516.91 | 2.062 | 52.37 | | | |
| 26 | 650 | 10 | 24.38 | 619 | 24.00 | 609.6 | 19.312 | 490.5 | 19.857 | 504.37 | 2.344 | 59.54 | | | |
| | | 20 | 26.38 | 670 | 26.00 | 660.4 | 25.376 | 645.5 | 25.413 | 645.50 | 0.312 | 7.92 | | | |
| | | 20 | 26.38 | 670 | 26.00 | 660.4 | 25.000 | 635 | 25.084 | 637.14 | 0.500 | 12.70 | | | |
| 28 | 700 | 10 | 28.38 | 721 | 28.00 | 711.2 | 27.376 | 695.5 | 27.413 | 696.30 | 0.312 | 7.92 | | | |
| | | 20 | 28.38 | 721 | 28.00 | 711.2 | 27.000 | 686 | 27.084 | 687.94 | 0.500 | 12.70 | | | |
| | | 30 | 28.38 | 721 | 28.00 | 711.2 | 26.750 | 679.5 | 26.865 | 682.37 | 0.625 | 15.88 | | | |
| 30 | 750 | 10 | 30.38 | 772 | 30.00 | 762.0 | 29.376 | 746 | 29.413 | 747.10 | 0.312 | 7.92 | | | |
| | | 20 | 30.38 | 772 | 30.00 | 762.0 | 29.000 | 736.5 | 29.084 | 738.74 | 0.500 | 12.70 | | | |
| | | 30 | 30.38 | 772 | 30.00 | 762.0 | 27.750 | 730 | 28.865 | 733.17 | 0.625 | 15.88 | | | |
| 32 | 800 | 10 | 32.50 | 825 | 32.00 | 812.8 | 31.376 | 797 | 31.413 | 797.90 | 0.312 | 7.92 | | | |
| | | 20 | 32.50 | 825 | 32.00 | 812.8 | 31.000 | 787.5 | 31.084 | 789.54 | 0.500 | 12.70 | | | |
| | | 30 | 32.50 | 825 | 32.00 | 812.8 | 30.750 | 781 | 30.865 | 783.97 | 0.625 | 15.88 | | | |
| 34 | 850 | 10 | 34.50 | 876 | 34.00 | 863.6 | 33.376 | 848 | 33.413 | 848.70 | 0.312 | 7.92 | | | |
| | | 20 | 34.50 | 876 | 34.00 | 863.6 | 33.000 | 838 | 33.084 | 840.34 | 0.500 | 12.70 | | | |
| | | 30 | 34.50 | 876 | 34.00 | 863.6 | 32.750 | 832 | 32.865 | 834.77 | 0.625 | 15.88 | | | |
| 36 | 900 | 10 | 36.50 | 927 | 36.00 | 914.4 | 35.376 | 898.5 | 35.413 | 899.50 | 0.312 | 7.92 | | | |
| | | 20 | 36.50 | 927 | 36.00 | 914.4 | 35.000 | 889 | 35.084 | 891.14 | 0.500 | 12.70 | | | |
| | | 30 | 36.50 | 927 | 36.00 | 914.4 | 34.750 | 882.5 | 34.865 | 885.57 | 0.625 | 15.88 | | | |
| 40 | 36.50 | 927 | 36.00 | 914.4 | 34.500 | 876.5 | 34.646 | 880.02 | 0.750 | 19.05 | | | | | |

NOTE: 1). Forged or Machined Component Part

a. STD=Standard Wall Thickness.

b. XS=Intensifying Wall Thickness.

c. XXS=Double Intensifying Wall Thickness.