

G. Pipe Sizes

TABLE 3.16 Wall thickness of standard steel pipe.

| Nominal Size, in. | Outside Diameter | | Wall Thickness | | | | | |
|----------------------|------------------|-------|--|-----|---------------------------------------|------|---|------|
| | | | Standard Weight Pipe (Schedule 40) | | Extra Strong Pipe (Schedule 80) | | Double Extra Strong Pipe (Schedule 160) | |
| | in. | mm. | in. | mm | in. | mm | in. | mm |
| 1/8 | 0.405 | 10.3 | 0.068 | 1.7 | 0.095 | 2.4 | | |
| 1/4 | 0.504 | 12.8 | 0.088 | 2.2 | 0.119 | 3.0 | | |
| 3/8 | 0.675 | 17.1 | 0.091 | 2.3 | 0.126 | 3.2 | | |
| 1/2 | 0.840 | 21.3 | 0.109 | 2.8 | 0.147 | 3.7 | 0.294 | 7.5 |
| 3/4 | 1.105 | 28.1 | 0.113 | 2.9 | 0.154 | 3.9 | 0.308 | 7.8 |
| 1 | 1.315 | 33.4 | 0.133 | 3.4 | 0.179 | 4.5 | 0.358 | 9.1 |
| 1 1/4 | 1.660 | 42.2 | 0.140 | 3.6 | 0.191 | 4.9 | 0.382 | 9.7 |
| 1 1/2 | 1.900 | 48.3 | 0.145 | 3.7 | 0.200 | 5.1 | 0.400 | 10.2 |
| 2 | 2.375 | 60.3 | 0.154 | 3.9 | 0.218 | 5.5 | 0.436 | 11.1 |
| 2 1/2 | 2.875 | 73.0 | 0.203 | 5.2 | 0.276 | 7.0 | 0.552 | 14.0 |
| 3 | 3.500 | 88.9 | 0.216 | 5.5 | 0.300 | 7.6 | 0.600 | 15.2 |
| 3 1/2 | 4.000 | 101.6 | 0.226 | 5.7 | 0.318 | 8.1 | 0.636 | 16.2 |
| 4 | 4.500 | 114.3 | 0.237 | 6.0 | 0.337 | 8.6 | 0.674 | 17.1 |
| 4 1/2 | 5.000 | 127.0 | 0.247 | 6.3 | 0.355 | 9.0 | 0.710 | 18.0 |
| 5 | 5.563 | 141.3 | 0.258 | 6.6 | 0.375 | 9.5 | 0.750 | 19.1 |
| 6 | 6.625 | 168.3 | 0.280 | 7.1 | 0.432 | 11.0 | 0.864 | 21.9 |
| 7 | 7.625 | 193.7 | 0.301 | 7.6 | 0.500 | 12.7 | 0.875 | 22.2 |
| 8 | 8.625 | 219.1 | 0.322 | 8.2 | 0.500 | 12.7 | 0.875 | 22.2 |
| 9 | 9.625 | 244.5 | 0.342 | 8.7 | 0.500 | 12.7 | | |
| 10 | 10.75 | 273.1 | 0.365 | 9.3 | 0.500 | 12.7 | 1.000 | 25.4 |
| 11 | 11.75 | 298.5 | 0.375 | 9.5 | 0.500 | 12.7 | | |
| 12 | 12.75 | 323.9 | 0.375 | 9.5 | 0.500 | 12.7 | 1.000 | 25.4 |
| 14 | 14.00 | 355.6 | 0.375 | 9.5 | 0.500 | 12.7 | | |
| 16 | 16.00 | 406.4 | 0.375 | 9.5 | 0.500 | 12.7 | | |
| 18 | 18.00 | 457.2 | 0.375 | 9.5 | 0.500 | 12.7 | | |
| 20 | 20.00 | 508.0 | 0.375 | 9.5 | 0.500 | 12.7 | | |
| 22 | 22.00 | 558.8 | 0.375 | 9.5 | 0.500 | 12.7 | | |
| 24 | 24.00 | 609.6 | 0.375 | 9.5 | 0.500 | 12.7 | | |

H. List of Selected ASTM Reference Radiographs

E 155 Aluminum and Magnesium Castings

E 186 Heavy-Walled [2 to 4 1/2-in. (51 to 114-mm)] Steel Castings