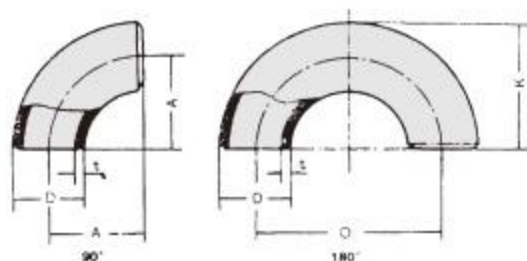


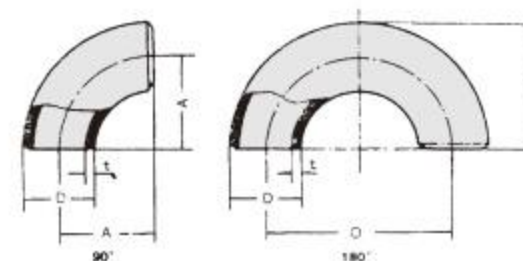
## ELBOWS SHORT RADIUS ASME/ANSI B16.28



| Nominal<br>Pipe Size<br>公称尺寸<br>inch | Dimensions 尺寸                             |       |                                                                                                       |
|--------------------------------------|-------------------------------------------|-------|-------------------------------------------------------------------------------------------------------|
|                                      | Outside Diameter<br>at Bevel D<br>坡口处外径 D |       | Center End: A/B<br>中心至端面: A/B<br>Center to Center: O<br>中心至中心: O<br>Back to Face: K<br>顶端至端面: K<br>mm |
|                                      | inch                                      | mm    |                                                                                                       |
| 1                                    | 1.315                                     | 33.4  | A=25.4<br>O=50.8<br>K=41.1                                                                            |
| 1 1/4                                | 1.660                                     | 42.2  | A=31.8<br>O=63.5<br>K=52.3                                                                            |
| 1 1/2                                | 1.900                                     | 48.3  | A=38.1<br>O=76.2<br>K=62.0                                                                            |
| 2                                    | 2.375                                     | 60.3  | A=50.8<br>O=101.6<br>K=81.0                                                                           |
| 2 1/2                                | 2.875                                     | 73.0  | A=63.5<br>O=127.0<br>K=100.1                                                                          |
| 3                                    | 3.500                                     | 88.9  | A=76.2<br>O=152.4<br>K=120.7                                                                          |
| 4                                    | 4.500                                     | 114.3 | A=101.6<br>O=203.2<br>K=158.8                                                                         |
| 5                                    | 5.563                                     | 141.3 | A=127.0<br>O=254.0<br>K=196.9                                                                         |

| Wall Thickness:t<br>壁厚:t             |       |       | Approx. Weight<br>理论重量 |            |
|--------------------------------------|-------|-------|------------------------|------------|
| Sch. No.                             | t     |       | 90°<br>kg              | 180°<br>kg |
|                                      | inch  | mm    |                        |            |
| Std/40<br>XS/80<br>160<br>XXS        | 0.133 | 3.38  | 0.10                   | 0.20       |
|                                      | 0.179 | 4.55  | 0.13                   | 0.26       |
|                                      | 0.250 | 6.35  | 0.17                   | 0.34       |
|                                      | 0.358 | 9.09  | 0.22                   | 0.44       |
| Std/40<br>XS/80<br>160<br>XXS        | 0.140 | 3.56  | 0.17                   | 0.34       |
|                                      | 0.191 | 4.85  | 0.22                   | 0.44       |
|                                      | 0.250 | 6.35  | 0.28                   | 0.56       |
|                                      | 0.382 | 9.70  | 0.39                   | 0.78       |
| Std/40<br>XS/80<br>160<br>XXS        | 0.145 | 3.68  | 0.24                   | 0.48       |
|                                      | 0.200 | 5.08  | 0.32                   | 0.64       |
|                                      | 0.281 | 7.14  | 0.43                   | 0.86       |
|                                      | 0.400 | 10.15 | 0.57                   | 1.14       |
| Std/40<br>XS/80<br>160<br>XXS        | 0.154 | 3.91  | 0.45                   | 0.86       |
|                                      | 0.218 | 5.54  | 0.60                   | 1.20       |
|                                      | 0.344 | 8.74  | 0.89                   | 1.78       |
|                                      | 0.436 | 11.07 | 1.07                   | 2.14       |
| Std/40<br>XS/80<br>160<br>XXS        | 0.203 | 5.16  | 0.86                   | 1.72       |
|                                      | 0.276 | 7.01  | 1.14                   | 2.28       |
|                                      | 0.375 | 9.53  | 1.49                   | 2.98       |
|                                      | 0.552 | 14.02 | 2.03                   | 4.06       |
| Std/40<br>XS/80<br>160<br>XXS        | 0.216 | 5.49  | 1.35                   | 2.70       |
|                                      | 0.300 | 7.62  | 1.83                   | 3.66       |
|                                      | 0.438 | 11.13 | 2.56                   | 5.12       |
|                                      | 0.600 | 15.24 | 3.31                   | 6.62       |
| Std/40<br>XS/80<br>120<br>160<br>XXS | 0.237 | 6.02  | 2.57                   | 5.14       |
|                                      | 0.337 | 8.56  | 3.56                   | 7.12       |
|                                      | 0.438 | 11.13 | 4.52                   | 9.04       |
|                                      | 0.531 | 13.49 | 5.35                   | 10.70      |
| Std/40<br>XS/80<br>120<br>160<br>XXS | 0.674 | 17.12 | 6.54                   | 13.08      |
|                                      | 0.258 | 6.55  | 4.34                   | 8.68       |
|                                      | 0.375 | 9.53  | 6.18                   | 12.40      |
|                                      | 0.500 | 12.70 | 8.04                   | 16.10      |
| Std/40<br>XS/80<br>120<br>160<br>XXS | 0.625 | 15.88 | 9.80                   | 19.60      |
|                                      | 0.750 | 19.05 | 11.45                  | 22.90      |

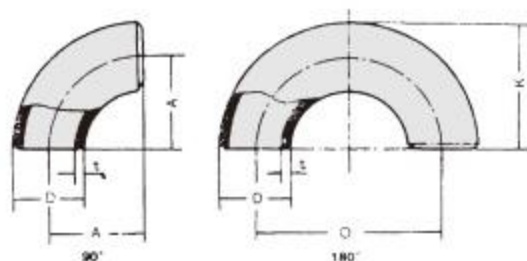
## ELBOWS SHORT RADIUS ASME/ANSI B16.28



| Nominal<br>Pipe Size<br>公称尺寸<br>inch | Dimensions 尺寸                             |       |                                                                                                 |
|--------------------------------------|-------------------------------------------|-------|-------------------------------------------------------------------------------------------------|
|                                      | Outside Diameter<br>at Bevel:D<br>坡口处外径:D |       | Center End:A/B<br>中心至端面:A/B<br>Center to Center:O<br>中心至中心:O<br>Back to Face:K<br>背端面端面:K<br>mm |
|                                      | inch                                      | mm    |                                                                                                 |
| 6                                    | 6.625                                     | 168.3 | A=152.4<br>O=304.8<br>K=236.5                                                                   |
| 8                                    | 8.625                                     | 219.1 | A=203.2<br>O=406.4<br>K=312.7                                                                   |
| 10                                   | 10.750                                    | 273.0 | A=254.0<br>O=508.0<br>K=390.7                                                                   |
| 12                                   | 12.750                                    | 323.9 | A=304.8<br>O=609.6<br>K=466.9                                                                   |

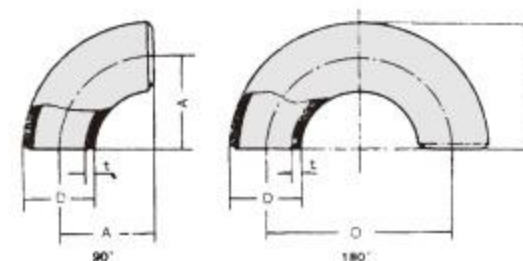
| Wall Thickness:t<br>壁厚:t |       |       | Approx. Weight<br>理论重量 |            |
|--------------------------|-------|-------|------------------------|------------|
| Sch. No.                 | t     |       | 90°<br>kg              | 180°<br>kg |
|                          | inch  | mm    |                        |            |
| Std/40                   | 0.280 | 7.11  | 6.77                   | 13.5       |
| XS/80                    | 0.432 | 10.97 | 10.2                   | 20.4       |
| 120                      | 0.562 | 14.27 | 13.0                   | 26.0       |
| 160                      | 0.719 | 18.26 | 16.2                   | 32.4       |
| XXS                      | 0.864 | 21.95 | 19.0                   | 38.0       |
| 20                       | 0.250 | 6.35  | 10.6                   | 21.2       |
| 30                       | 0.277 | 7.04  | 11.8                   | 23.6       |
| Std/40                   | 0.322 | 8.18  | 13.6                   | 27.2       |
| 60                       | 0.406 | 10.31 | 16.9                   | 33.8       |
| XS/80                    | 0.500 | 12.70 | 20.9                   | 41.8       |
| 100                      | 0.594 | 15.09 | 24.2                   | 48.4       |
| 120                      | 0.719 | 18.26 | 28.8                   | 57.6       |
| 140                      | 0.812 | 20.62 | 32.2                   | 64.4       |
| 160                      | 0.906 | 23.01 | 35.5                   | 71.0       |
| XXS                      | 0.875 | 22.23 | 34.4                   | 68.8       |
| 20                       | 0.250 | 6.35  | 16.7                   | 33.4       |
| 30                       | 0.307 | 7.80  | 20.4                   | 40.8       |
| Std/40                   | 0.365 | 9.27  | 24.1                   | 48.2       |
| XS/60                    | 0.500 | 12.70 | 32.5                   | 65.0       |
| 80                       | 0.594 | 15.09 | 38.2                   | 76.4       |
| 100                      | 0.719 | 18.26 | 45.7                   | 91.4       |
| 120                      | 0.844 | 21.44 | 53.0                   | 106.0      |
| 140/XXS                  | 1.000 | 25.40 | 61.9                   | 124.0      |
| 160                      | 1.125 | 28.58 | 68.7                   | 137.0      |
| 20                       | 0.250 | 6.35  | 23.8                   | 47.6       |
| 30                       | 0.330 | 8.38  | 31.2                   | 62.4       |
| Std                      | 0.375 | 9.53  | 35.4                   | 70.8       |
| 40                       | 0.406 | 10.31 | 38.2                   | 76.4       |
| 60                       | 0.562 | 14.27 | 52.2                   | 104.0      |
| XS                       | 0.500 | 12.70 | 46.7                   | 93.4       |
| 80                       | 0.688 | 17.48 | 63.1                   | 126.0      |
| 100                      | 0.844 | 21.44 | 76.5                   | 153.0      |
| 120/XXS                  | 1.000 | 25.40 | 89.5                   | 179.0      |
| 140                      | 1.125 | 28.58 | 99.6                   | 199.0      |
| 160                      | 1.312 | 33.32 | 114.0                  | 228.0      |

## ELBOWS SHORT RADIUS ASME/ANSI B16.28



| Nominal<br>Pipe Size<br>公称尺寸<br>inch | Dimensions 尺寸                               |       | Center End: A/B<br>中心至端面: A/B<br>Center to Center: O<br>中心至中心: O<br>Back to Face: K<br>顶端至端面: K<br>mm | Wall Thickness: t<br>壁厚: t |       | Approx. Weight<br>理论重量 |           |            |
|--------------------------------------|---------------------------------------------|-------|-------------------------------------------------------------------------------------------------------|----------------------------|-------|------------------------|-----------|------------|
|                                      | Outside Diameter<br>at Bevel: D<br>坡口处外径: D |       |                                                                                                       | Sch. No.                   | t     |                        | 90°<br>kg | 180°<br>kg |
|                                      | inch                                        | mm    |                                                                                                       |                            | inch  | mm                     |           |            |
| 14                                   | 14.000                                      | 355.6 | A=355.6<br>O=711.2<br>K=533.4                                                                         | 10                         | 0.250 | 6.35                   | 30.6      | 61.2       |
|                                      |                                             |       |                                                                                                       | 20                         | 0.312 | 7.92                   | 37.9      | 75.8       |
|                                      |                                             |       |                                                                                                       | Std/30                     | 0.375 | 9.53                   | 45.4      | 90.8       |
|                                      |                                             |       |                                                                                                       | 40                         | 0.438 | 11.13                  | 52.8      | 106        |
|                                      |                                             |       |                                                                                                       | XS                         | 0.500 | 12.70                  | 60.0      | 120        |
|                                      |                                             |       |                                                                                                       | 60                         | 0.594 | 15.09                  | 70.6      | 141        |
|                                      |                                             |       |                                                                                                       | 80                         | 0.750 | 19.05                  | 88.3      | 177        |
|                                      |                                             |       |                                                                                                       | 100                        | 0.938 | 23.83                  | 109       | 218        |
|                                      |                                             |       |                                                                                                       | 120                        | 1.094 | 27.79                  | 125       | 250        |
|                                      |                                             |       |                                                                                                       | 140                        | 1.250 | 31.75                  | 142       | 284        |
| 160                                  | 1.406                                       | 35.71 | 157                                                                                                   | 314                        |       |                        |           |            |
| 16                                   | 16.000                                      | 406.4 | A=406.4<br>O=812.8<br>K=609.6                                                                         | 10                         | 0.250 | 6.35                   | 40.0      | 80.0       |
|                                      |                                             |       |                                                                                                       | 20                         | 0.312 | 7.92                   | 49.7      | 99.0       |
|                                      |                                             |       |                                                                                                       | Std/30                     | 0.375 | 9.53                   | 59.5      | 119        |
|                                      |                                             |       |                                                                                                       | XS/40                      | 0.500 | 12.70                  | 78.7      | 157        |
|                                      |                                             |       |                                                                                                       | 60                         | 0.656 | 16.66                  | 102       | 204        |
|                                      |                                             |       |                                                                                                       | 80                         | 0.844 | 21.44                  | 130       | 260        |
|                                      |                                             |       |                                                                                                       | 100                        | 1.031 | 26.19                  | 157       | 314        |
|                                      |                                             |       |                                                                                                       | 120                        | 1.219 | 30.96                  | 183       | 366        |
|                                      |                                             |       |                                                                                                       | 140                        | 1.438 | 36.53                  | 213       | 426        |
|                                      |                                             |       |                                                                                                       | 160                        | 1.594 | 40.49                  | 233       | 466        |
| 18                                   | 18.000                                      | 457.0 | A=457.0<br>O=914.4<br>K=685.8                                                                         | 10                         | 0.250 | 6.35                   | 50.7      | 101        |
|                                      |                                             |       |                                                                                                       | 20                         | 0.312 | 7.92                   | 63.0      | 126        |
|                                      |                                             |       |                                                                                                       | Std                        | 0.375 | 9.53                   | 75.6      | 151        |
|                                      |                                             |       |                                                                                                       | 30                         | 0.438 | 11.13                  | 87.9      | 176        |
|                                      |                                             |       |                                                                                                       | 40                         | 0.562 | 14.27                  | 112       | 224        |
|                                      |                                             |       |                                                                                                       | XS                         | 0.750 | 19.05                  | 148       | 296        |
|                                      |                                             |       |                                                                                                       | 60                         | 0.500 | 12.70                  | 100       | 200        |
|                                      |                                             |       |                                                                                                       | 80                         | 0.938 | 23.83                  | 183       | 366        |
|                                      |                                             |       |                                                                                                       | 100                        | 1.156 | 29.36                  | 222       | 444        |
|                                      |                                             |       |                                                                                                       | 120                        | 1.375 | 34.93                  | 261       | 522        |
| 140                                  | 1.562                                       | 39.67 | 293                                                                                                   | 586                        |       |                        |           |            |
| 160                                  | 1.781                                       | 45.24 | 330                                                                                                   | 660                        |       |                        |           |            |
| 20                                   | 20.000                                      | 508.0 | A=508.0<br>O=1016.0<br>K=762.0                                                                        | 10                         | 0.250 | 6.35                   | 62.7      | 123        |
|                                      |                                             |       |                                                                                                       | Std/20                     | 0.375 | 9.53                   | 93.4      | 187        |
|                                      |                                             |       |                                                                                                       | XS/30                      | 0.500 | 12.70                  | 124       | 248        |
|                                      |                                             |       |                                                                                                       | 40                         | 0.594 | 15.09                  | 146       | 292        |
|                                      |                                             |       |                                                                                                       | 60                         | 0.812 | 20.62                  | 198       | 396        |
|                                      |                                             |       |                                                                                                       | 80                         | 1.031 | 26.19                  | 248       | 496        |
|                                      |                                             |       |                                                                                                       | 100                        | 1.281 | 32.54                  | 304       | 608        |
|                                      |                                             |       |                                                                                                       | 120                        | 1.500 | 38.10                  | 352       | 704        |
|                                      |                                             |       |                                                                                                       | 140                        | 1.750 | 44.45                  | 405       | 810        |
|                                      |                                             |       |                                                                                                       | 160                        | 1.969 | 50.01                  | 451       | 902        |

## ELBOWS SHORT RADIUS ASME/ANSI B16.28



| Nominal<br>Pipe Size<br>公称尺寸<br>inch | Dimensions 尺寸                             |     |                                                                                                  | Wall Thickness:t<br>壁厚:t                                               |                                                                                                 | Approx. Weight<br>理论重量                                                                        |                                                                            |                                                                               |
|--------------------------------------|-------------------------------------------|-----|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|-------------------------------------------------------------------------------|
|                                      | Outside Diameter<br>at Bevel:D<br>坡口处外径:D |     | Center End:A/B<br>中心至端面:A/B<br>Center to Center:O<br>中心至中心:O<br>Back to Face:K<br>颈端面至端面:K<br>mm | Sch. No.                                                               | t                                                                                               |                                                                                               | 90°<br>kg                                                                  | 180°<br>kg                                                                    |
|                                      | inch                                      | mm  |                                                                                                  |                                                                        | inch                                                                                            | mm                                                                                            |                                                                            |                                                                               |
| 22                                   | 22.000                                    | 559 | A=558.8<br>O=1117.6<br>K=838.3                                                                   | 10<br>Std/20<br>XS/30<br>60<br>80<br>100<br>120<br>140<br>160          | 0.250<br>0.375<br>0.500<br>0.875<br>1.125<br>1.375<br>1.625<br>1.875<br>2.125                   | 6.35<br>9.53<br>12.70<br>22.23<br>28.58<br>34.93<br>41.28<br>47.63<br>53.98                   | 75.9<br>113<br>150<br>258<br>328<br>396<br>462<br>527<br>590               | 152<br>226<br>300<br>516<br>656<br>792<br>924<br>1054<br>1180                 |
| 24                                   | 24.000                                    | 610 | A=609.6<br>O=1219.2<br>K=914.4                                                                   | 10<br>Std/20<br>30<br>40<br>60<br>XS<br>80<br>100<br>120<br>140<br>160 | 0.250<br>0.375<br>0.562<br>0.688<br>0.969<br>0.500<br>1.219<br>1.531<br>1.812<br>2.062<br>2.344 | 6.35<br>9.53<br>14.27<br>17.48<br>24.61<br>12.70<br>30.96<br>38.89<br>46.02<br>52.37<br>59.54 | 90.5<br>135<br>201<br>244<br>340<br>179<br>423<br>524<br>612<br>689<br>773 | 181<br>270<br>402<br>488<br>680<br>358<br>846<br>1048<br>1224<br>1378<br>1546 |
|                                      |                                           |     |                                                                                                  |                                                                        |                                                                                                 |                                                                                               |                                                                            |                                                                               |