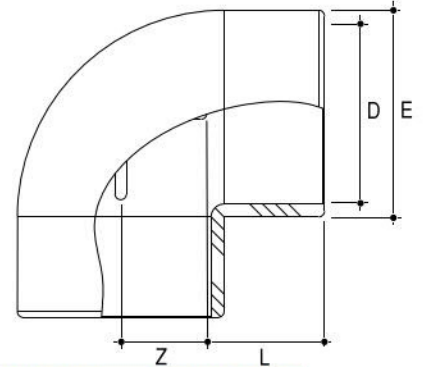
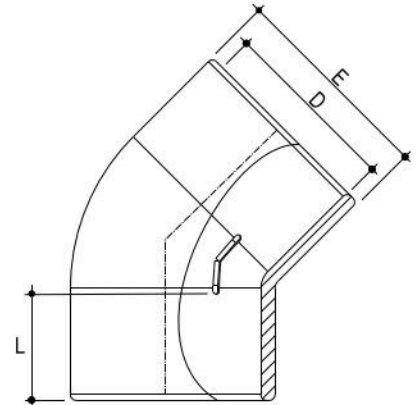


Elbow 90°



| mm / inch | Code 1 / Code 2 | E | D / ASTM | L | Z | PN | Box |
|-------------|---------------------|-----|--------------|-----|-------|----|-----|
| 20 / - | 133101 / - | 25 | 20 / - | 16 | 11 | 16 | 250 |
| 25 / - | 133102 / - | 31 | 25 / - | 19 | 13 | 16 | 400 |
| 32 / 1" | 133103 / 133103ASTM | 39 | 32 / 33.40 | 22 | 17 | 16 | 250 |
| 40 / - | 133104 / - | 48 | 40 / - | 26 | 23 | 16 | 144 |
| 50 / 1-1/2" | 133105 / 133105ASTM | 58 | 50 / 48.26 | 30 | 20 | 16 | 180 |
| 63 / 2" | 133106 / 133106ASTM | 74 | 63 / 60.33 | 38 | 30 | 16 | 100 |
| 75 / - | 133107 / - | 87 | 75 / - | 44 | 38 | 16 | 80 |
| 90 / 3" | 133108 / 133108ASTM | 104 | 90 / 88.90 | 50 | 44 | 16 | 50 |
| 110 / 4" | 133109 / 133109ASTM | 124 | 110 / 114.30 | 60 | 57 | 16 | 30 |
| 125 / - | 133110 / - | 139 | 125 / - | 69 | 67 | 16 | 16 |
| 140 / - | 133111 / - | 155 | 140 / - | 76 | 71 | 16 | 12 |
| 160 / - | 133112 / - | 180 | 160 / - | 75 | 86 | 16 | 8 |
| 200 / - | 133113 / - | 222 | 200 / - | 106 | 106.5 | 10 | 4 |
| 225 / - | 133114 / - | 246 | 225 / - | 119 | 115.5 | 10 | 2 |
| 250 / - | 133115 / - | 279 | 250 / - | 131 | 128 | 10 | 1 |
| 280 / - | 133116 / - | 317 | 280 / - | 150 | 140 | 10 | 1 |
| 315 / - | 133117 / - | 352 | 315 / - | 164 | 161.5 | 10 | 1 |

Elbow 45°



| mm / inch | Code 1 / Code 2 | E | D / ASTM | L | PN | Box |
|-------------|---------------------|-----|------------|-------|----|-----|
| 20 / - | 133201 / - | 25 | 20 / - | 6 | 16 | 600 |
| 25 / - | 133202 / - | 31 | 25 / - | 19 | 16 | 500 |
| 32 / - | 133203 / - | 39 | 32 / - | 22 | 16 | 320 |
| 40 / - | 133204 / - | 48 | 40 / - | 26 | 16 | 150 |
| 50 / 1-1/2" | 133205 / 133205ASTM | 58 | 50 / 48.26 | 30 | 16 | 225 |
| 63 / 2" | 133206 / 133206ASTM | 74 | 63 / 60.33 | 34 | 16 | 150 |
| 75 / - | 133207 / - | 87 | 75 / - | 44 | 16 | 100 |
| 90 / 3" | 133208 / 133208ASTM | 104 | 90 / 88.90 | 56 | 16 | 50 |
| 110 / - | 133209 / - | 124 | 110 / - | 62 | 16 | 30 |
| 125 / - | 133210 / - | 139 | 125 / - | 67 | 16 | 18 |
| 140 / - | 133211 / - | 155 | 140 / - | 77 | 16 | 15 |
| 160 / - | 133212 / - | 180 | 160 / - | 86 | 16 | 9 |
| 200 / - | 133213 / - | 222 | 200 / - | 108 | 10 | 4 |
| 225 / - | 133214 / - | 246 | 225 / - | 199.6 | 10 | 2 |
| 250 / - | 133215 / - | 279 | 250 / - | 131 | 10 | 1 |
| 280 / - | 133216 / - | 317 | 280 / - | 150 | 10 | 1 |
| 315 / - | 133217 / - | 352 | 315 / - | 164 | 10 | 1 |