



Unit= mm

| Nominal Pipe Size | 90° Elbow | | | | 45° Elbow | |
|-------------------|-------------|-----|--------------|-----|-------------|-----|
| | Long radius | | Short radius | | Long radius | |
| | R | A | R | A | R | B |
| 8A | 25.4 | 55 | 12.7 | 42 | 25.4 | 40 |
| 10A | 25.4 | 62 | 12.7 | 49 | 25.4 | 47 |
| 15A | 38.1 | 75 | 12.7 | 49 | 38.1 | 52 |
| 20A | 38.1 | 75 | 19.1 | 56 | 38.1 | 52 |
| 25A | 38.1 | 75 | 25.4 | 62 | 38.1 | 52 |
| 32A | 47.6 | 94 | 31.8 | 78 | 47.6 | 66 |
| 40A | 57.2 | 104 | 38.1 | 85 | 57.2 | 70 |
| 50A | 76.2 | 123 | 50.8 | 97 | 76.2 | 78 |
| 65A | 95.3 | 147 | 63.5 | 115 | 95.3 | 91 |
| 80A | 114.3 | 166 | 76.2 | 128 | 114.3 | 99 |
| 100A | 152.4 | 204 | 101.6 | 153 | 152.4 | 115 |
| 125A | 190.5 | 250 | 127.0 | 185 | 190.5 | 145 |
| 150A | 228.6 | 290 | 152.4 | 210 | 228.6 | 155 |
| 200A | 304.8 | 375 | 203.2 | 275 | 304.8 | 195 |



Unit= mm

| Nominal Tube Size | 90° Elbow | | 45° Elbow | |
|-------------------|-----------|-----|-----------|-----|
| | R | A | R | B |
| OD(OD1) | | | | |
| 1/4" | 20 | 49 | 20 | 38 |
| 3/8" | 23 | 52 | 23 | 39 |
| 1/2" | 25 | 54 | 25 | 40 |
| 5/8" | 28 | 64 | 28 | 48 |
| 3/4" | 30 | 66 | 30 | 49 |
| 1" | 33 | 69 | 33 | 50 |
| 1 1/4" | 47.6 | 84 | 47.6 | 56 |
| 1 1/2" | 57.2 | 104 | 57.2 | 70 |
| 2" | 76.2 | 123 | 76.2 | 78 |
| 2 1/2" | 95.3 | 147 | 95.3 | 91 |
| 3" | 95.3 | 147 | 95.3 | 91 |
| 4" | 133.4 | 185 | 133.4 | 107 |
| 5" | 190.5 | 250 | 190.5 | 140 |
| 6" | 228.6 | 290 | 228.6 | 155 |