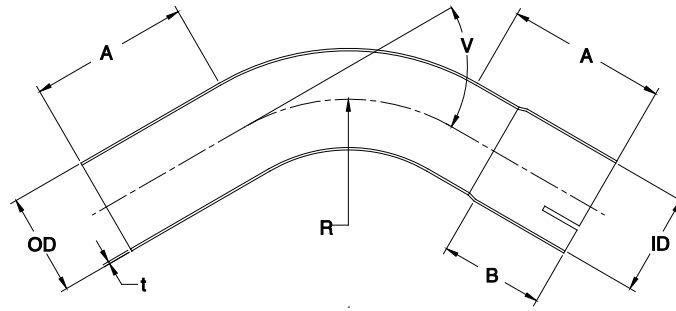


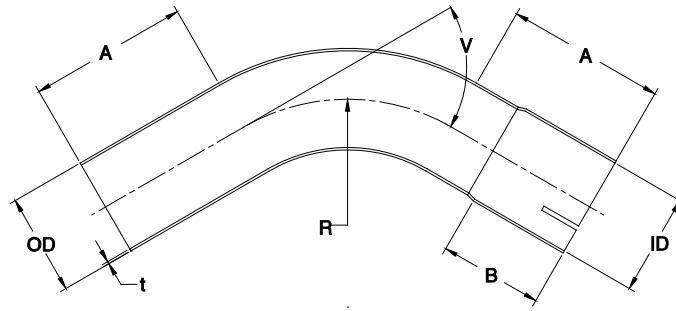
Bends:



| Part No. | Description | O/D | I/D | A | B | R | V | t |
|-----------|------------------------|------|------|-----|----|-----|-----|-----|
| U023830/R | Bend with sleeve, 30° | 38.0 | 38.3 | 75 | 65 | 60 | 30 | 1.5 |
| U023845/R | Bend with sleeve, 45° | 38.0 | 38.3 | 75 | 65 | 60 | 45 | 1.5 |
| U023860/R | Bend with sleeve, 60° | 38.0 | 38.3 | 75 | 65 | 60 | 60 | 1.5 |
| U023890/R | Bend with sleeve, 90° | 38.0 | 38.3 | 75 | 65 | 60 | 90 | 1.5 |
| U023818/R | Bend with sleeve, 180° | 38.0 | 38.3 | 160 | 65 | 60 | 180 | 1.5 |
| U024230/R | Bend with sleeve, 30° | 42.0 | 42.3 | 84 | 65 | 75 | 30 | 1.5 |
| U024245/R | Bend with sleeve, 45° | 42.0 | 42.3 | 84 | 65 | 75 | 45 | 1.5 |
| U024260/R | Bend with sleeve, 60° | 42.0 | 42.3 | 84 | 65 | 75 | 60 | 1.5 |
| U024290/R | Bend with sleeve, 90° | 42.0 | 42.3 | 84 | 65 | 75 | 90 | 1.5 |
| U024218/R | Bend with sleeve, 180° | 42.0 | 42.3 | 84 | 65 | 75 | 180 | 1.5 |
| U024530/R | Bend with sleeve, 30° | 44.5 | 44.8 | 100 | 65 | 100 | 30 | 1.5 |
| U024545/R | Bend with sleeve, 45° | 44.5 | 44.8 | 100 | 65 | 100 | 45 | 1.5 |
| U024560/R | Bend with sleeve, 60° | 44.5 | 44.8 | 100 | 65 | 100 | 60 | 1.5 |
| U024590/R | Bend with sleeve, 90° | 44.5 | 44.8 | 100 | 65 | 100 | 90 | 1.5 |
| U024518/R | Bend (no sleeve), 180° | 44.5 | 44.8 | 160 | 65 | 75 | 180 | 1.5 |
| U024830/R | Bend with sleeve, 30° | 48.3 | 48.6 | 110 | 65 | 75 | 30 | 1.5 |
| U024845/R | Bend with sleeve, 45° | 48.3 | 48.6 | 110 | 65 | 75 | 45 | 1.5 |
| U024860/R | Bend with sleeve, 60° | 48.3 | 48.6 | 110 | 65 | 75 | 60 | 1.5 |
| U024890/R | Bend with sleeve, 90° | 48.3 | 48.6 | 110 | 65 | 75 | 90 | 1.5 |
| U024818/R | Bend with sleeve, 180° | 48.3 | 48.6 | 110 | 65 | 75 | 180 | 1.5 |
| U025130/R | Bend with sleeve, 30° | 50.8 | 51.1 | 100 | 65 | 100 | 30 | 1.5 |
| U025145/R | Bend with sleeve, 45° | 50.8 | 51.1 | 100 | 65 | 100 | 45 | 1.5 |
| U025160/R | Bend with sleeve, 60° | 50.8 | 51.1 | 100 | 65 | 100 | 60 | 1.5 |
| U025190/R | Bend with sleeve, 90° | 50.8 | 51.1 | 100 | 65 | 100 | 90 | 1.5 |
| U025118/R | Bend (no sleeve), 180° | 50.8 | 51.1 | 160 | 65 | 85 | 180 | 1.5 |
| U025430/R | Bend with sleeve, 30° | 54.0 | 54.3 | 95 | 65 | 110 | 30 | 1.5 |
| U025445/R | Bend with sleeve, 45° | 54.0 | 54.3 | 95 | 65 | 110 | 45 | 1.5 |
| U025460/R | Bend with sleeve, 60° | 54.0 | 54.3 | 95 | 65 | 110 | 60 | 1.5 |
| U025490/R | Bend with sleeve, 90° | 54.0 | 54.3 | 95 | 65 | 110 | 90 | 1.5 |
| *U025730R | Bend with sleeve, 30° | 57.0 | 57.3 | 100 | 65 | 110 | 30 | 1.5 |
| *U025745R | Bend with sleeve, 45° | 57.0 | 57.3 | 100 | 65 | 110 | 45 | 1.5 |
| *U025760R | Bend with sleeve, 60° | 57.0 | 57.3 | 100 | 65 | 110 | 60 | 1.5 |
| *U025790R | Bend with sleeve, 90° | 57.0 | 57.3 | 100 | 65 | 110 | 90 | 1.5 |
| U026330/R | Bend with sleeve, 30° | 63.5 | 63.8 | 100 | 65 | 130 | 30 | 1.5 |
| U026345/R | Bend with sleeve, 45° | 63.5 | 63.8 | 100 | 65 | 130 | 45 | 1.5 |
| U026360/R | Bend with sleeve, 60° | 63.5 | 63.8 | 100 | 65 | 130 | 60 | 1.5 |
| U026390/R | Bend with sleeve, 90° | 63.5 | 63.8 | 100 | 65 | 130 | 90 | 1.5 |
| U026318/R | Bend (no sleeve), 180° | 63.5 | 63.8 | 160 | 65 | 100 | 180 | 1.5 |
| *U027030R | Bend with sleeve, 30° | 70.0 | 70.3 | 130 | 75 | 110 | 30 | 1.5 |
| *U027045R | Bend with sleeve, 45° | 70.0 | 70.3 | 130 | 75 | 110 | 45 | 1.5 |
| *U027060R | Bend with sleeve, 60° | 70.0 | 70.3 | 130 | 75 | 110 | 60 | 1.5 |
| *U027090R | Bend with sleeve, 90° | 70.0 | 70.3 | 130 | 75 | 110 | 90 | 1.5 |
| U027630/R | Bend with sleeve, 30° | 76.1 | 76.4 | 115 | 75 | 160 | 30 | 1.5 |
| U027645/R | Bend with sleeve, 45° | 76.1 | 76.4 | 115 | 75 | 160 | 45 | 1.5 |
| U027660/R | Bend with sleeve, 60° | 76.1 | 76.4 | 115 | 75 | 160 | 60 | 1.5 |
| U027690/R | Bend with sleeve, 90° | 76.1 | 76.4 | 115 | 75 | 160 | 90 | 1.5 |
| U027618/R | Bend (no sleeve), 180° | 76.1 | 76.4 | 160 | 75 | 120 | 180 | 1.5 |

Tolerance ±0.1mm ±0.2mm ±5mm ±5mm ±2mm ±2° ±0.1mm

Bends continued:



| Part No. | Description | O/D | I/D | A | B | R | V | t |
|-----------|-----------------------|--------------------|--------------------|------------------|------------------|------------------|---------------|--------------------|
| U028930/R | Bend with sleeve, 30° | 88.9 | 89.3 | 165 | 75 | 160 | 30 | 1.5 |
| U028945/R | Bend with sleeve, 45° | 88.9 | 89.3 | 165 | 75 | 160 | 45 | 1.5 |
| U028960/R | Bend with sleeve, 60° | 88.9 | 89.3 | 165 | 75 | 160 | 60 | 1.5 |
| U028990/R | Bend with sleeve, 90° | 88.9 | 89.3 | 165 | 75 | 160 | 90 | 1.5 |
| U020230/R | Bend with sleeve, 30° | 101.6 | 102.1 | 200 | 90 | 220 | 30 | 1.5 |
| U020245/R | Bend with sleeve, 45° | 101.6 | 102.1 | 200 | 90 | 220 | 45 | 1.5 |
| U020260/R | Bend with sleeve, 60° | 101.6 | 102.1 | 200 | 90 | 220 | 60 | 1.5 |
| U020290/R | Bend with sleeve, 90° | 101.6 | 102.1 | 200 | 90 | 220 | 90 | 1.5 |
| U022730/R | Bend with sleeve, 30° | 127.0 | 127.5 | 250 | 110 | 285 | 30 | 2.0 |
| U022745/R | Bend with sleeve, 45° | 127.0 | 127.5 | 250 | 110 | 285 | 45 | 2.0 |
| U022760/R | Bend with sleeve, 60° | 127.0 | 127.5 | 250 | 110 | 285 | 60 | 2.0 |
| U022790/R | Bend with sleeve, 90° | 127.0 | 127.5 | 250 | 110 | 285 | 90 | 2.0 |
| | <i>Tolerance</i> | $\pm 0.1\text{mm}$ | $\pm 0.2\text{mm}$ | $\pm 5\text{mm}$ | $\pm 5\text{mm}$ | $\pm 2\text{mm}$ | $\pm 2^\circ$ | $\pm 0.1\text{mm}$ |

* only available in stainless steel