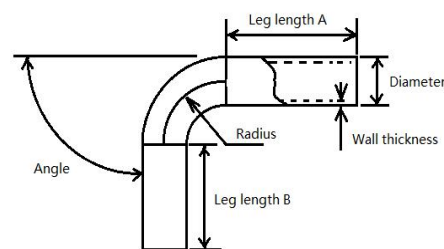


Black Pipe Mild Steel Mandrel Bends

Diameter (Inch)	Diameter (mm)	Wall thickness	Angles	Standard Radius	Leg length for reference
1"	25.4 mm	1.5 mm	0° ~ 180°	1.5D	100 mm
1-1/4"	32 mm	1.5 mm	0° ~ 180°	1.5D	100 mm
1-3/8"	35 mm	1.5 mm	0° ~ 180°	1.5D	110 mm
1-1/2"	38.1 mm	1.5 mm	0° ~ 180°	1.5D	110 mm
1-5/8"	42 mm	1.5 mm	0° ~ 180°	1.5D	110 mm
1-3/4"	45 mm	1.5 mm	0° ~ 180°	1.5D	110 mm
1-7/8"	48 mm	1.5 mm	0° ~ 180°	1.5D	110 mm
2"	50.8 mm	1.5 mm	0° ~ 180°	1.5D	110 mm
2-1/8"	54mm	1.5 mm	0° ~ 180°	1.5D	120 mm
2-1/4"	57 mm	1.5 mm	0° ~ 180°	1.5D	120 mm
2-3/8"	60 mm	1.5 mm	0° ~ 180°	1.5D	130 mm
2-1/2"	63.5 mm	1.5 mm	0° ~ 180°	1.5D	130 mm
2-3/4"	70 mm	1.5 mm	0° ~ 180°	1.5D	140 mm
3"	76.2 mm	1.5 mm	0° ~ 180°	1.5D	160 mm
3-1/8"	80 mm	1.5 mm	0° ~ 180°	1.5D	160 mm
3-1/2"	89 mm	1.5 mm	0° ~ 180°	1.5D	180 mm
4"	101.6 mm	1.5 mm	0° ~ 180°	1.5D	230 mm
4-1/2"	114.3 mm	1.5 mm	0° ~ 180°	1.5D	230 mm
5"	127 mm	1.5 mm	0° ~ 90°	1.5D	250 mm
6"	152.4mm	2.0 mm	0° ~ 90°	1.5D	380 mm



Notifications

Regular angles: 30°, 45°, 60°, 90°
135° 180°

Min radius: 1.0 D

Other length available: 1 ~ 3000mm

Wall thickness range: 1 - 4 mm

Multi bending services available

Packaging

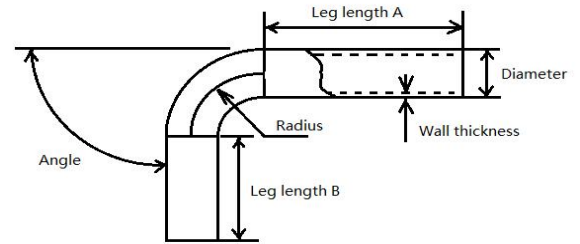
Surface treatment Rust proof oil protection

Wood crate size 116x97x110 mm

Wood crate weight 60 kgs

Semi Bright Mild Steel Mandrel Bends

Diameter (Inch)	Diameter (mm)	Wall thickness	Angles	Standard	Leg length for reference
1"	25.4 mm	1.5 mm	0° ~ 180°	1.5D	100 mm
1-1/4"	32 mm	1.5 mm	0° ~ 180°	1.5D	100 mm
1-3/8"	35 mm	1.5 mm	0° ~ 180°	1.5D	110 mm
1-1/2"	38.1 mm	1.5 mm	0° ~ 180°	1.5D	110 mm
1-5/8"	42 mm	1.5 mm	0° ~ 180°	1.5D	110 mm
1-3/4"	45 mm	1.5 mm	0° ~ 180°	1.5D	110 mm
1-7/8"	48 mm	1.5 mm	0° ~ 180°	1.5D	110 mm
2"	50.8 mm	1.5 mm	0° ~ 180°	1.5D	110 mm
2-1/8"	54mm	1.5 mm	0° ~ 180°	1.5D	120 mm
2-1/4"	57 mm	1.5 mm	0° ~ 180°	1.5D	120 mm
2-3/8"	60 mm	1.5 mm	0° ~ 180°	1.5D	130 mm
2-1/2"	63.5 mm	1.5 mm	0° ~ 180°	1.5D	130 mm
2-3/4"	70 mm	1.5 mm	0° ~ 180°	1.5D	140 mm
3"	76.2 mm	1.5 mm	0° ~ 180°	1.5D	160 mm
3-1/8"	80 mm	1.5 mm	0° ~ 180°	1.5D	160 mm
3-1/2"	89 mm	1.5 mm	0° ~ 180°	1.5D	180 mm
4"	101.6 mm	1.5 mm	0° ~ 180°	1.5D	230 mm
4-1/2"	114.3 mm	1.5 mm	0° ~ 180°	1.5D	230 mm
5"	127 mm	1.5 mm	0° ~ 90°	1.5D	250 mm
6"	152.4mm	2.0 mm	0° ~ 90°	1.5D	380 mm



Notifications

Regular angles: 30°, 45°, 60°, 90°
135° 180°

Min radius: 1.0 D

Other length available: 1 ~ 3000mm

Wall thickness range: 1 - 4 mm

Multi bending services available

Packaging

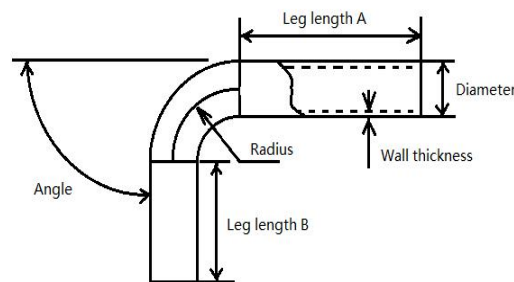
Surface treatment Rust proof oil protection

Wood crate size 116x97x110 mm

Wood crate weight 60 kgs

Aluminized Steel Mandrel Bends

Diameter (Inch)	Diameter (mm)	Wall thickness	Angles	Standard	Leg length for reference
1"	25.4 mm	1.5 mm	0° ~ 180°	1.5D	100 mm
1-1/4"	32 mm	1.5 mm	0° ~ 180°	1.5D	100 mm
1-3/8"	35 mm	1.5 mm	0° ~ 180°	1.5D	110 mm
1-1/2"	38.1 mm	1.5 mm	0° ~ 180°	1.5D	110 mm
1-5/8"	42 mm	1.5 mm	0° ~ 180°	1.5D	110 mm
1-3/4"	45 mm	1.5 mm	0° ~ 180°	1.5D	110 mm
1-7/8"	48 mm	1.5 mm	0° ~ 180°	1.5D	110 mm
2"	50.8 mm	1.5 mm	0° ~ 180°	1.5D	110 mm
2-1/8"	54mm	1.5 mm	0° ~ 180°	1.5D	120 mm
2-1/4"	57 mm	1.5 mm	0° ~ 180°	1.5D	120 mm
2-3/8"	60 mm	1.5 mm	0° ~ 180°	1.5D	130 mm
2-1/2"	63.5 mm	1.5 mm	0° ~ 180°	1.5D	130 mm
2-3/4"	70 mm	1.5 mm	0° ~ 180°	1.5D	140 mm
3"	76.2 mm	1.5 mm	0° ~ 180°	1.5D	160 mm
3-1/8"	80 mm	1.5 mm	0° ~ 180°	1.5D	160 mm
3-1/2"	89 mm	1.5 mm	0° ~ 180°	1.5D	180 mm
4"	101.6 mm	1.5 mm	0° ~ 180°	1.5D	230 mm
4-1/2"	114.3 mm	1.5 mm	0° ~ 180°	1.5D	230 mm
5"	127 mm	1.5 mm	0° ~ 90°	1.5D	250 mm
6"	152.4mm	2.0 mm	0° ~ 90°	1.5D	380 mm



Notifications

Regular angles: 30°, 45°, 60°, 90°
135° 180°

Min radius: 1.0 D

Other length available: 1 ~ 3000mm

Wall thickness range: 1 - 4 mm

Multi bending services available

Packaging

Surface treatment Rust proof oil protection

Wood crate size 116x97x110 mm

Wood crate weight 60 kgs

Aluminum Mandrel Bends

Surface finish: Raw, Polished, Brushed

Diameter (Inch)	Diameter (mm)	Wall Thickness (mm)	Angles	Standard Radius	Leg length for reference
1"	25.4 mm	1.5 mm	0° ~ 180°	1.5D	100 mm
1-1/4"	32 mm	1.5 mm	0° ~ 180°	1.5D	100 mm
1-3/8"	35 mm	1.5 mm	0° ~ 180°	1.5D	110 mm
1-1/2"	38.1 mm	1.5 mm	0° ~ 180°	1.5D	110 mm
1-5/8"	42 mm	1.5 mm	0° ~ 180°	1.5D	110 mm
1-3/4"	45 mm	1.5 mm	0° ~ 180°	1.5D	110 mm
1-7/8"	48 mm	1.5 mm	0° ~ 180°	1.5D	110 mm
2"	50.8 mm	1.8 mm	0° ~ 180°	1.5D	110 mm
2-1/8"	54mm	1.8 mm	0° ~ 180°	1.5D	120 mm
2-1/4"	57 mm	1.8 mm	0° ~ 180°	1.5D	120 mm
2-3/8"	60 mm	1.8 mm	0° ~ 180°	1.5D	130 mm
2-1/2"	63.5 mm	1.8 mm	0° ~ 180°	1.5D	130 mm
2-3/4"	70 mm	1.8 mm	0° ~ 180°	1.5D	140 mm
3"	76.2 mm	1.8 mm	0° ~ 180°	1.5D	160 mm
3-1/8"	80 mm	2.0 mm	0° ~ 180°	1.5D	160 mm
3-1/2"	89 mm	2.0 mm	0° ~ 180°	1.5D	180 mm
4"	101.6 mm	2.0 mm	0° ~ 180°	1.5D	230 mm
4-1/2"	114.3 mm	2.0 mm	0° ~ 180°	1.5D	230 mm
5"	127 mm	2.5 mm	0° ~ 90°	1.5D	250 mm
6"	152.4mm	2.5 mm	0° ~ 90°	1.5D	380 mm



Packaging

Polished and brushed bends to be packed in poly bag, then into wood crate

Wood crate size 116x97x110 mm

Wood crate weight 60 kgs

Notifications

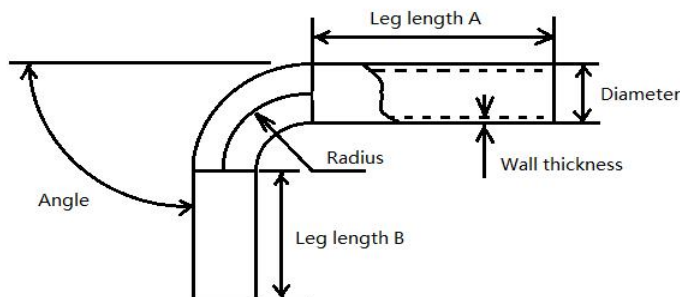
Regular angles: 30°, 45°, 60°, 90°
135° 180°

Min radius: 1.0 D

Other length available: 1 ~ 3000mm

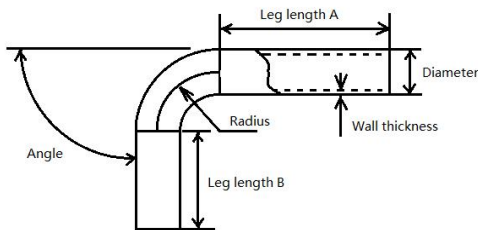
Wall thickness range: 1 - 4 mm

Multi bending services available



Titanium Mandrel Bends

Surface finish: Polished, Brushed



Diameter (Inch)	Diameter (mm)	Wall thickness (mm)	Angles	Standard Radius	Leg length for reference
1-1/2"	38.1 mm	1.2 mm	0° ~ 180°	1.5D	110 mm
1-5/8"	42 mm	1.2 mm	0° ~ 180°	1.5D	110 mm
1-3/4"	45 mm	1.2 mm	0° ~ 180°	1.5D	110 mm
1-7/8"	48 mm	1.2 mm	0° ~ 180°	1.5D	110 mm
2"	50.8 mm	1.2 mm	0° ~ 180°	1.5D	110 mm
2-1/8"	54mm	1.2 mm	0° ~ 180°	1.5D	120 mm
2-1/4"	57 mm	1.2 mm	0° ~ 180°	1.5D	120 mm
2-3/8"	60 mm	1.2 mm	0° ~ 180°	1.5D	130 mm
2-1/2"	63.5 mm	1.2 mm	0° ~ 180°	1.5D	130 mm
2-3/4"	70 mm	1.2 mm	0° ~ 180°	1.5D	140 mm
3"	76.2 mm	1.2 mm	0° ~ 180°	1.5D	160 mm
3-1/8"	80 mm	1.2 mm	0° ~ 180°	1.5D	160 mm
3-1/2"	89 mm	1.2 mm	0° ~ 180°	1.5D	180 mm

Aluminum Mandrel Bends 300mm

Surface finish: Polished, brushed, swaged ends

Diameter (Inch)	Diameter (mm)	Wall Thickness (mm)	Angles	Standard Radius	Total length (reference)
1"	25.4 mm	1.5 mm	45°, 90°, 180°	1.5D	300 mm
1-1/4"	32 mm	1.5 mm	45°, 90°, 180°	1.5D	300 mm
1-3/8"	35 mm	1.5 mm	45°, 90°, 180°	1.5D	300 mm
1-1/2"	38.1 mm	1.5 mm	45°, 90°, 180°	1.5D	300 mm
1-5/8"	42 mm	1.5 mm	45°, 90°, 180°	1.5D	300 mm
1-3/4"	45 mm	1.5 mm	45°, 90°, 180°	1.5D	300 mm
1-7/8"	48 mm	1.5 mm	45°, 90°, 180°	1.5D	300 mm
2"	50.8 mm	1.8 mm	45°, 90°, 180°	1.5D	300 mm
2-1/8"	54mm	1.8 mm	45°, 90°, 180°	1.5D	300 mm
2-1/4"	57 mm	1.8 mm	45°, 90°, 180°	1.5D	300 mm
2-3/8"	60 mm	1.8 mm	45°, 90°, 180°	1.5D	300 mm
2-1/2"	63.5 mm	1.8 mm	45°, 90°, 180°	1.5D	300 mm
2-3/4"	70 mm	1.8 mm	45°, 90°, 180°	1.5D	300 mm
3"	76.2 mm	1.8 mm	45°, 90°, 180°	1.5D	300 mm
3-1/8"	80 mm	2.0 mm	45°, 90°, 180°	1.5D	300 mm
3-1/2"	89 mm	2.0 mm	45°, 90°, 180°	1.5D	300 mm
4"	101.6 mm	2.0 mm	45°, 90°, 180°	1.5D	300 mm
4-1/2"	114.3 mm	2.0 mm	45°, 90°, 180°	1.5D	300 mm
5"	127 mm	2.5 mm	45°, 90°	1.5D	300 mm



Packaging

The total length is 300mm, and keep the straight leg length 50mm min

Polished and brushed bends to be packed in poly bag, then into wood crate

Wood crate size 116x97x110 mm

Wood crate weight 60 kgs

Notifications

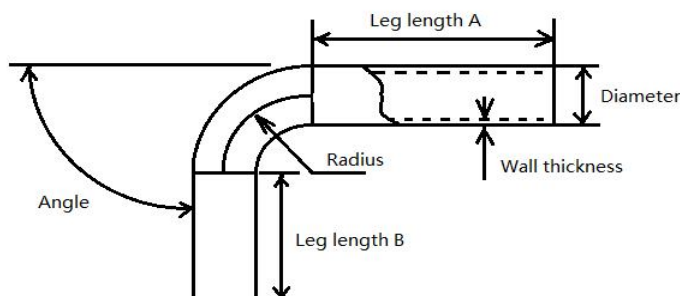
Regular angles: 30°, 45°, 60°, 90°
135° 180°

Bend radius: 1.5 D

Other length available: 1 ~ 3000mm

Wall thickness range: 1 - 4 mm

Multi bending services available



Aluminum Mandrel Bends 600mm

Surface finish: Polished, brushed, swaged ends

Diameter (Inch)	Diameter (mm)	Wall Thickness (mm)	Angles	Standard Radius	Total length (reference)
1"	25.4 mm	1.5 mm	45°, 90°, 180°	1.5D	600 mm
1-1/4"	32 mm	1.5 mm	45°, 90°, 180°	1.5D	600 mm
1-3/8"	35 mm	1.5 mm	45°, 90°, 180°	1.5D	600 mm
1-1/2"	38.1 mm	1.5 mm	45°, 90°, 180°	1.5D	600 mm
1-5/8"	42 mm	1.5 mm	45°, 90°, 180°	1.5D	600 mm
1-3/4"	45 mm	1.5 mm	45°, 90°, 180°	1.5D	600 mm
1-7/8"	48 mm	1.5 mm	45°, 90°, 180°	1.5D	600 mm
2"	50.8 mm	1.8 mm	45°, 90°, 180°	1.5D	600 mm
2-1/8"	54mm	1.8 mm	45°, 90°, 180°	1.5D	600 mm
2-1/4"	57 mm	1.8 mm	45°, 90°, 180°	1.5D	600 mm
2-3/8"	60 mm	1.8 mm	45°, 90°, 180°	1.5D	600 mm
2-1/2"	63.5 mm	1.8 mm	45°, 90°, 180°	1.5D	600 mm
2-3/4"	70 mm	1.8 mm	45°, 90°, 180°	1.5D	600 mm
3"	76.2 mm	1.8 mm	45°, 90°, 180°	1.5D	600 mm
3-1/8"	80 mm	2.0 mm	45°, 90°, 180°	1.5D	600 mm
3-1/2"	89 mm	2.0 mm	45°, 90°, 180°	1.5D	600 mm
4"	101.6 mm	2.0 mm	45°, 90°, 180°	1.5D	600 mm
4-1/2"	114.3 mm	2.0 mm	45°, 90°, 180°	1.5D	600 mm
5"	127 mm	2.5 mm	45°, 90°	1.5D	600 mm



Packaging

The total length is 600mm, and keep the straight leg length 50mm min

Polished and brushed bends to be packed in poly bag, then into wood crate

Wood crate size 116x97x110 mm

Wood crate weight 60 kgs

Notifications

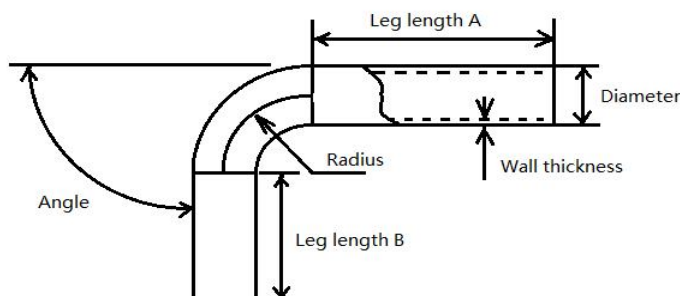
Regular angles: 30°, 45°, 60°, 90°
135° 180°

Bend radius: 1.5 D

Other length available: 1 ~ 3000mm

Wall thickness range: 1 - 4 mm

Multi bending services available



Universal aluminum intercooler pipe kits

Surface finish: Polished, swaged ends

Diameter (Inch)	Diameter (mm)	Wall Thickness (mm)	Standard Radius	Total length (reference)	Part number
2"	50.8 mm	1.8 mm	1.5D	610 mm	4431.200
2-1/4"	57 mm	1.8 mm	1.5D	610 mm	4431.214
2-1/2"	63.5 mm	1.8 mm	1.5D	610 mm	4431.212
2-3/4"	70 mm	1.8 mm	1.5D	610 mm	4431.234
3"	76.2 mm	1.8 mm	1.5D	610 mm	4431.300
3-1/2"	89 mm	2.0 mm	1.5D	610 mm	4431.312
4"	101.6 mm	2.0 mm	1.5D	610 mm	4431.400
5"	127 mm	2.5 mm	1.5D	610 mm	4431.500

Notifications

Straight pipes	2 units
45° bends	2 units
90° bends	2 units
180° bends	2 units
Silicone tube	6 units
Silicone elbow	2 units
T clamps	16 units



Packaging

Polished and brushed bends to be packed in poly bag, then into carton box each set