

# 10" and 12" Inside Radius Flush Weld Elbows

All **Elbows** may be also be purchased with tangents. Contact **Wagner** with your requirements - [rfq@mailwagner.com](mailto:rfq@mailwagner.com).

See page 48 for issues relating to deformation in bent **Elbows**.

STEEL  
ALUMINUM 6063  
STAINLESS STEEL Type 304

## 10" Inside Radius Flush Weld Elbows

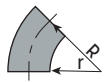
These **Elbows** are precision mandrel bent parts - **without seams**.

Nominal Pipe Size	OD	Inside Radius (r)	Center Line Radius (R)	Theoretical Center to Center Diam. (C-C)
1"	1.315"	10.30"	10.958"	21.915"
1 1/4"	1.66"	10.00"	10.83"	21.66"
1 1/2"	1.90"	10.00"	10.95"	21.90"
2"	2.375"	10.00"	11.188"	22.375"

## 12" Center Line Radius Flush Weld Elbows

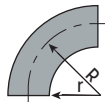
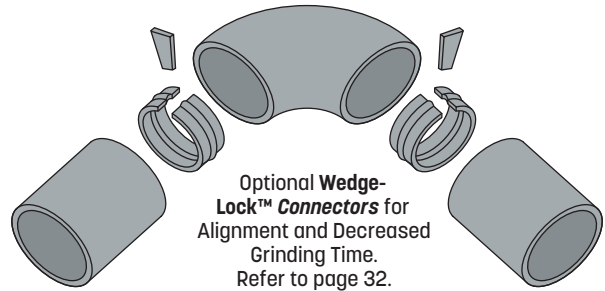
These **Elbows** are precision mandrel bent parts - **without seams**.

Nominal Pipe Size	OD	Inside Radius (r)	Center Line Radius (R)	Theoretical Center to Center Diam. (C-C)
1 1/4"	1.66"	11.170"	12.00"	24.00"
1 1/2"	1.90"	11.05"	12.00"	24.00"
2"	2.375"	10.812"	12.00"	24.00"
2 1/2"	2.875"	10.562"	12.00"	24.00"



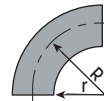
### 45° Elbow

Pipe Size	OD	Wall Thick.	STEEL	ALUMINUM	304 STAINLESS
1 1/4"	1.66"	.140"	8252	8266	8280
1 1/2"	1.90"	.145"	8302	8316	8330
2"	2.375"	.154"	8352		8380†



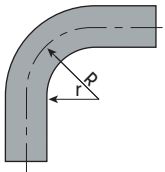
### 90° Elbow

Pipe Size	OD	Wall Thick.	STEEL	ALUMINUM	304 STAINLESS
1 1/4"	1.66"	.140"	8256	8270	8284
1 1/2"	1.90"	.145"	8306	8320	8334
2"	2.375"	.154"	8356	8370	<b>8384†</b>



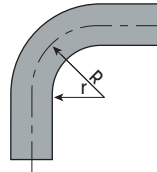
### 90° Elbow

Pipe Size	OD	Wall Thick.	STEEL	ALUMINUM	304 STAINLESS
1 1/4"	1.66"	.140"	9256	9270	9284
1 1/2"	1.90"	.145"	<b>9306</b>	<b>9320</b>	
2"	2.375"	.154"	9356	9370	9384†



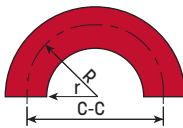
### 90° Elbow with Two 2" Tangents

Pipe Size	OD	Wall Thick.	STEEL	ALUMINUM	304 STAINLESS
1 1/4"	1.66"	.140"	8258	<b>8272</b>	8286
1 1/2"	1.90"	.145"	8308	8322	



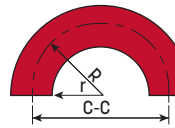
### 90° Elbow with Two 2" Tangents

Pipe Size	OD	Wall Thick.	STEEL	ALUMINUM
1 1/2"	1.90"	.145"		9322
2"	2.375"	.154"	9358	9372



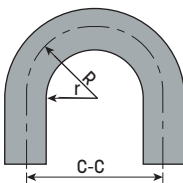
### 180° Elbow

Pipe Size	OD	Wall Thick.	STEEL
1 1/4"	1.66"	.140"	<b>8262</b>
1 1/2"	1.90"	.145"	<b>8312</b>
2"	2.375"	.154"	8362



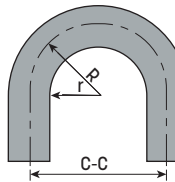
### 180° Elbow

Pipe Size	OD	Wall Thick.	STEEL
1 1/4"	1.66"	.140"	<b>9262</b>
1 1/2"	1.90"	.145"	9312
2"	2.375"	.154"	9362



### 180° Elbow with Two 3" Tangents Untrimmed

Pipe Size	OD	Wall Thick.	STEEL	ALUMINUM	304 STAINLESS
1 1/4"	1.66"	.140"	<b>8263B</b>	<b>8277B</b>	8291B
1 1/2"	1.90"	.145"	<b>8313B</b>	8327B	<b>8341B</b>
2"	2.375"	.154"	<b>8363B</b>	8377B	8391B†



### 180° Elbow with Two 3" Tangents Untrimmed

Pipe Size	OD	Wall Thick.	STEEL	ALUMINUM	304 STAINLESS
1 1/4"	1.66"	.140"	<b>9263B</b>	9277B	9291B
1 1/2"	1.90"	.145"	<b>9313B</b>	9327B	9341B
2"	2.375"	.154"	<b>9363B</b>	<b>9377B</b>	9391B†
2 1/2"	2.875"	.203"	9463B	9477B	9491B

† Denotes Sch. 10.

**Elbows** are supplied with a mill finish. They are also available galvanized, zinc plated, anodized or polished to a satin or bright finish.

**NUMBERS IN BOLD TYPE** are typically in stock. Other items may not be available for immediate shipment or are made-to-order - requiring a minimum quantity and a longer lead time. Visit [shop.wagnercompanies.com](http://shop.wagnercompanies.com) for availability.