

1" Inside Radius Flush Weld Elbows

These 1" inside radius **Elbows** have a seam - unless noted.

90° and 180° **Elbows** with tangents are mandrel bent and have no seam. The 1" inside radius on these **Elbows** is tighter than anyone else's in the market.

Elbows are supplied with a mill finish. They are available galvanized, zinc plated, anodized or polished to a satin or bright finish. All **Elbows** may also be purchased with tangents. Contact **Wagner** with your requirements.

See page 32 for optional **Wedge-Lock™ Connectors**.
See page 38 for typical **Wall Returns**.

See page 41 for issues relating to deformation in bent **Elbows**.



269-6 Steel 180° 1" IR with Two Tangents



266 Steel 90° 1" IR



254 Steel 45° 1" IR

35° Elbow *Cut to order. Ship within 48 hours.*

These **Elbows** have a seam unless noted.



Pipe Size	Sch.	OD	Wall Thick.	STEEL	ALUMINUM	STAINLESS
3/4"	40	1.05"	.113"	151 ^f		
1"	40	1.315"	.133"	200		
1 1/4"	40	1.66"	.140"	248	272	297
1 1/2"	40	1.90"	.145"	320	344	369
2"	40	2.375"	.154"	392 ^f		

45° Elbow *Cut to order. Ship within 48 hours.*

These **Elbows** have a seam unless noted.



Pipe Size	Sch.	OD	Wall Thick.	STEEL	ALUMINUM	STAINLESS
3/4"	40	1.05"	.113"	153 ^f		
1"	40	1.315"	.133"	206		
1 1/4"	40	1.66"	.140"	254	278	303
1 1/2"	40	1.90"	.145"	326	350	375
2"	40	2.375"	.154"	398		

55° Elbow *Cut to order. Ship within 48 hours.*

These **Elbows** have a seam unless noted.



Pipe Size	Sch.	OD	Wall Thick.	STEEL	ALUMINUM	STAINLESS
3/4"	40	1.05"	.113"	155 ^f		
1"	40	1.315"	.133"	212		
1 1/4"	40	1.66"	.140"	260	284	309
1 1/2"	40	1.90"	.145"	332	356	
2"	40	2.375"	.154"	404		

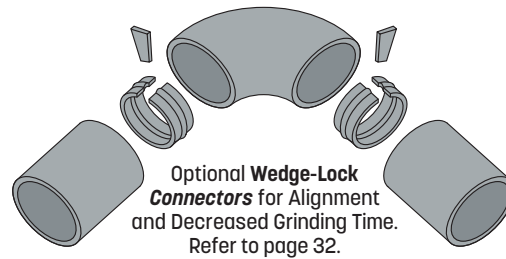
STEEL
ALUMINUM
STAINLESS STEEL Type 304

3003 Seamed Elbows
6063 Pipe Elbows

Made in MILWAUKEE

- Stainless Steel Type 316 and Brass Alloy C23000 are available upon request to rfq@mailwagner.com.

Nominal Pipe Size	OD	Inside Radius (r)	Center Line Radius (R)	Theoretical Center to Center Diam. (C-C)
3/4"	1.05"	1.00"	1.525"	3.05"
1"	1.315"	1.00"	1.658"	3.316"
1 1/4"	1.66"	1.00"	1.83"	3.66"
1 1/2"	1.90"	1.00"	1.95"	3.90"
2"	2.375"	1.00"	2.188"	



90° Elbow

These **Elbows** have a seam unless noted.



Pipe Size	Sch.	OD	Wall Thick.	STEEL	ALUMINUM	STAINLESS
3/4"	40	1.05"	.113"	157 ^f	167 ^f	
1"	40	1.315"	.133"	218	242	219-S
1 1/4"	40	1.66"	.140"	218-S ^f	242-S ^f	
1 1/4"	40	1.66"	.140"		290-S ^f	315
1 1/2"	40	1.90"	.145"	338	362	387
1 1/2"	40	1.90"	.145"		362-S ^f	
2"	40	2.375"	.154"	410	434	459-1

90° Elbow with Two 2" Tangents

Without Seam



Pipe Size	Sch.	OD	Wall Thick.	STEEL	ALUMINUM	STAINLESS
3/4"	40	1.05"	.113"	157-8 ^f	166 ^f	
1"	40	1.315"	.133"	218-2 ^f	242-2 ^f	219S-2 ^f
1 1/4"	40	1.66"	.140"	266-2 ^f	290-2 ^f	315-2 ^f
1 1/2"	40	1.90"	.145"	338-2 ^f	362-2 ^f	387-2 ^f

180° Elbow with Two 2" Tangents

Without Seam



Pipe Size	Sch.	OD	Wall Thick.	STEEL	ALUMINUM	STAINLESS
3/4"	40	1.05"	.113"	159 ^f	169 ^f	
1"	40	1.315"	.133"	218-4 ^f	242-4 ^f	219S-4 ^f
1 1/4"	40	1.66"	.140"	266-4 ^f	290-4 ^f	
1 1/2"	40	1.90"	.145"	338-4 ^f	362-4 ^f	

^f Denotes an **Elbow** without a seam.

⁰ Available with two untrimmed tangents.

Add a **B** at the end of the number when ordering

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APPENDIX