Elbow

Ordering Information

- When ordering, specify material, gauge (if nonstandard), dimension and end styles, degree (30°, 45°, 60°, or 90°).
- Elbows in heavier gauges can be supplied in solid welded construction at an additional cost.
- Other CLRs available upon request.

16 Gauge Elbows:

- 16ga Elbows are constructed of gores lapped over one another and spot welded.
- This is a directional elbow supplied with an arrow to indicate the direction of flow. Please specify direction if ordering ends other than QF.
- Interior buffing available with upcharge.
- Galvanized is 16 gauge with 16 gauge collars. SS is 16ga with 20ga collars.

14 Gauge Galvanized Elbows:

- · Constructed of butt-welded gores.
- Interior buffing available with upcharge.
- If flanged, vanstone ends with rotational Angle Flanges standard. Welded flanges will be clocked at the centerline as standard.





QF Material Options

Galv				SS			
		Size (i	inches)			Size (inches)
Ga	uges	Min. Ø	Max. Ø	Gauges		Min. Ø	Max. Ø
ard	24	3	7	70		- 6" See ows on p	
Standard	22	8	12	Standard	22	7	12
	20	13	24	Sta	20	10	0.4
onal	16	7	24		20	13	24
Optional	14	8	24	Optional	18	8	24
				Opti	16	8	24

Flanged Material Options

Galv						SS	
		Size (i Min.	nches) Max.			Size (inches)	
Ga	iuges	Ø	Ø			Min.	Max.
	24	3	7	Ga	uges	Ø	Ø
	22	8	12			· 6" See t ows on p	
Б	20	13	24	Standard	22	7	12
Standard	18	26	30		20	13	24
S	16	32	40		18	26	30
	14	42	50		16	32	40
	12	52	72		20	0	10
	20	8	12	اعر	20	8	12
ınal	18	8	24	Optional	18	8	24
	16	8	30	O	16	8	30
Optional	14	8	50				
	12	10	72				

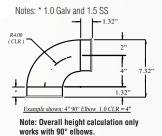
72

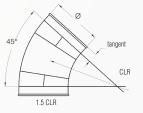
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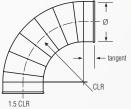
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Degrees	30 45 60 90	5°)°
Diameters	3" - 7"	1.0**
CLR's	8" and larger	1.5



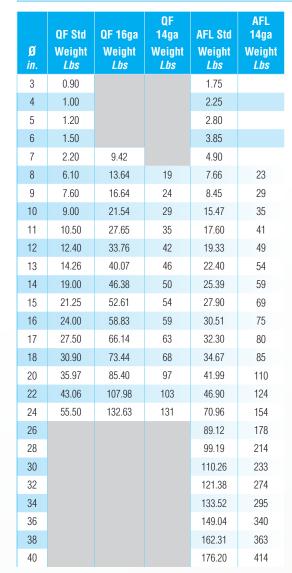




Notes: CLR= Center Line radius

_		AFL		
Galv	SS	Galv	SS	
2.00	2.00			
1.32	2.00			
1.32	2.00	2.00	2.00	
1.32	2.00	2.00		
1.32	2.25			
2.00	2.00			
2.00	2.00	4.00	4.00	
2.00	2.00	4.00	4.00	
	2.00 1.32 1.32 1.32 1.32	2.00 2.00 1.32 2.00 1.32 2.00 1.32 2.00 1.32 2.25 2.00 2.00	QF AF Galv SS Galv 2.00 2.00 2.00 1.32 2.00 2.00 1.32 2.00 2.00 1.32 2.25 2.00 2.00 2.00	

11/07/22





Elbow

Construction

3"-7":

Standard galvanized steel 3" to 7" elbows are press formed. Press formed halves are stitch welded together with rolled ends. Stainless steel 3" to 6" elbows are tubed. Press formed halves are stitch welded together with rolled ends.

8" to 24":

8" and larger elbows shown here are gored (segmented) construction with a lock form standing seam every 15°. Gores are spot welded and caulked.

These elbows are produced as follows:

Degree of angle	Number of gores
30°	(1) 15° + (2) 7.5° + (2) tangents
45°	(2) 15° + (2) 7.5° + (2) tangents
60°	(3) 15° + (2) 7.5° + (2) tangents
90°	(5) 15° + (2) 7.5° + (2) tangents

Optional End Styles

Standard QF end can be changed to Raw ID (RI), Raw OD (RO), No Fitting (NF), Hose Adapter (RF), Flat Flange (FFL), Angle Flange (AFL), or Van Stone (VS). Angle Flange (AFL) - Nordfab Angle Flange is industry standard angle flange with pre-drilled holes.

Collars: Collar is located on the exterior side of each port and considered as airflow non-directional. Collars have a laser welded longitudinal seam. If air flow directional product is required, it must be stated on the PO and additional cost may be incurred. A raised lap seam and spot weld are used for attaching the collar to the body and no caulking is used. If caulking is required, additional cost is incurred.

Elbow Long Radius

Ordering Information

- When ordering, specify material, gauge (if non-standard), dimension, end styles, degree (30°, 45°, 60°, or 90°) and note LR (Long Radius).
- Elbows in heavier gauges can be supplied in solid welded construction at an additional cost.
- · Other CLRs available upon request.

16 Gauge Elbows:

- 16ga Elbows are constructed of gores lapped over one another and spot welded.
- This is a directional elbow supplied with an arrow to indicate the direction of flow. Please specify direction if ordering ends other than QF.
- Interior buffing available with upcharge.
- Galvanized is 16 gauge with 16 gauge collars. SS is 16ga with 20ga collars.

14 Gauge Galvanized Elbows:

- · Constructed of butt-welded gores.
- Interior buffing available with upcharge.
- If flanged, vanstone ends with rotational Angle Flanges standard. Welded flanges will be clocked at the centerline as standard.
- One additional gore is included on each degree style.



Elbows in SS sizes 3" - 6" are Tubed.



Degrees	30° 45° 60° 90°			
Diameters	3" - 7"	1.5**		
CLR's	8 -24"	2.5		

Notes: * 1.5 Galv and 2.5 SS

Construction 3"-7":

Standard galvanized steel 3" to 7" elbows are press formed. Press formed halves are stitch welded together with rolled ends.

Stainless steel 3" to 6" elbows are tubed. Press formed halves are stitch welded together with rolled ends.

8" to 24":

8" and larger elbows shown here are gored (segmented) construction with a lock form standing seam every 15°. Gores are spot welded and caulked. See standard radius Elbow above for number of gores.

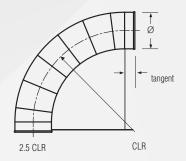
End Styles

Standard QF end can be changed to Raw ID (RI), Raw OD (RO), No Fitting (NF), Hose Adapter (RF), Flat Flange (FFL), Angle Flange (AFL), or Van Stone (VS). Angle Flange (AFL) - Nordfab Angle Flange is industry standard angle flange with pre-drilled holes.

Collars: Collar is located on the exterior side of each port and considered as airflow non-directional. Collars have a laser welded longitudinal seam. If air flow directional product is required, it must be stated on the PO and additional cost may be incurred. A raised lap seam and spot weld are used for attaching the collar to the body and no caulking is used. If caulking is required, additional cost is incurred.

QF Material Options

Galv				SS			
		Size (inches)			Size (i	inches)
		Min.	Max.			Min.	Max.
Gauges		Ø	Ø	Ga	uges	Ø	Ø
ard	24	3	7	р		- 6" See t ows on p	
Standard	22	8	12	Standard	22	7	12
	20	13	24	Sta	20	13	24
onal	16	7	24				
Optional	14	8	24	Optional (18	8	24
				Opti	16	8	24



Notes: CLR= Center Line radius
** 7" Ø 16Ga elbow has a 2.5CLR

Flanged Material Options

Galv						SS	
		Size (i	nches)			Size	
		Min.	Max.			(inc	hes)
Ga	uges	Ø	Ø			Min.	Max.
	24	3	7	Ga	uges	Ø	Ø
	22	8	12			· 6" See t ows on p	
rd	20	13	24	ard	22	7	12
Standard	18	26	30	Standard	20	13	24
S	16	32	32 40 IES	Sta	18	26	32
	14	42	50	S	10		
	12	52	72		16	32	40
	20	8	12	_	20	8	12
	18	8	24	Optional	18	8	24
onal	16	8	30 S	16	8	30	
Optional	14	8	50		10	U	00
_	12	10	72				
	10	12	72				

Elbow Tubed

Ordering Information

- · When ordering, specify material, gauge (if nonstandard), dimension and degree (30°, 45°, 60°, or 90°).
- Tubed elbows are airflow directional (collar on outside of tube for outlet and collar on inside of tube for inlet).
- · Please specify direction if ordering end styles other than QF.

Ø in.	Weight <i>Lbs</i>
3	3.50
4	5.00
5	7.40
6	10.25
8	15.00

QF Material Options

Galv				SS			
		Size (inches)			Size (inches)	
Gauges		Min. Ø	Max. Ø	Gauges		Min. Ø	Max. Ø
Std	16	3	4	Þ	pt 14	3 8	0
S	14	5	8	S			0

Flanged Material Options

Galv			SS				
Size (inches)				Size (i	nches)		
G	auges	Min. Ø	Max. Ø	Gauges		Min. Ø	Max. Ø
Std	16	3	4	Std	14	3	0
S	14 5 8 5	S	14	3	Ŏ		

Construction

Standard galvanized steel tube.

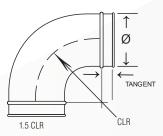
Optional End Styles

Standard QF end can be changed to Raw ID (RI), Raw OD (RO), No Fitting (NF), Hose Adapter (RF), Flat Flange (FFL), Angle Flange (AFL), or Van Stone (VS). Nordfab Angle Flange is industry standard angle flange with pre-drilled holes.

Collars: Each end has 2" long collars with one collar on the outside of the tube and another on the inside to make the elbow airflow directional. Please specify direction if ordering varying ends. Collars have a laser welded longitudinal seam. A raised lap seam and spot weld are used for attaching the collar to the body and no caulking is used. If caulking is required, additional cost is incurred.



Degrees	30 45 60 90	5°)°
Diameters CLB's	3" - 8"	1.5



Elbow Tubed Long Radius

Ordering Information

Weight

Lbs

5.00

7.00

11.25

14.75

25.00

Ø in.

3

4

5

6

8

- When ordering, specify material, gauge (if nonstandard), dimension and degree (30°, 45°, 60°, or 90°).
- Tubed elbows are airflow directional (collar on outside of tube for outlet and collar on inside of tube for inlet).
- Please specify direction if ordering end styles other than QF.

QF Mate	rial	Opti	ons
	Ga	ılv	
		Size (inche

		Galv				SS	
Size (inches)			Size (inche				
G	auges	Min. Ø	Max. Ø	G	auges	Min. Ø	Max. Ø
Std	16	3	4	Std	1/	2	0
S	14	5	8	S	14	3	8

See Elbow Tubed for Construction, End Styles, and Collars information.

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Degrees	30° 45° 60° 90°	
Diameters CLR's	3" - 8"	2.5

TANGENT CLR 2.5 CLR 11/07/22

Flanged Material Options

Galv		SS					
		Size (i	nches)			Size (inches)	
Gauges		Min. Ø	Max. Ø	Gauges		Min. Ø	Max. Ø
Std	16	3	4	Std	14	3	8
S	14	5	8		14	J	0

