



QF Gored Elbows, Sizes 8" - 24"

3210

TECHNICAL DATA

Size In.	ID In.	Bend Degrees Available	CLR (Center Line Radius)	Tangents	Std Weight Lbs	Galvanized Steel			304SS (or 316SS)	
						22ga	20ga	18ga	22ga	20ga
8	7.88	15°	1.5 *Long Radius Elbows are 2.5	2.25	6.10	Std			Std	
9	8.88				7.60					
10	9.89				9.00					
11	10.86				10.50					
12	11.97				12.40					
13	12.97	30°			14.26		Std	Optional		Std
14	13.96	45°			19.00					
15	14.97	60°			21.25					
16	15.94	90°			24.00					
17	16.97				27.50					
18	17.96				30.90					
20	19.96				35.97					
22	21.97				43.06					
24	23.94				55.50					



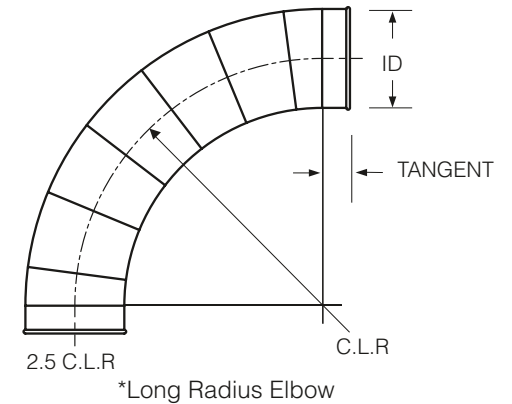
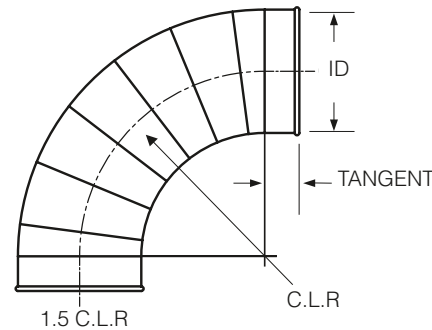
Construction:

8" and larger elbows shown here are gored (segmented) construction with a lock form standing seam every 15°. These elbows are produced as follows:

Degree of angle	Number of gores
15°	(2) 7.5° + (2) tangents
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

Seam: laser welded longitudinal seam on collar and gores on 1.5 CLR 22" and below. 24" dia. elbows have spot welded and caulked gores.

Ends: Standard QF end can be changed to Raw ID (RAWID), Raw OD (RAWOD), No Fitting (NF), Hose Adapter (RAWFLEX), Flat Flange (FFL), Angle Flange (ANGFL), or Van Stone (VANSTONE).





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Temperature Rating of Product Components						
° F	QF Gored Elbows	Sealants				
-60°	Galvanized Steel	Optional - 304SS		Optional - 3M Polyurethane Adhesive Sealant 540		Optional - Epoxy - 3M DP 125 Gray Sealant
-40°						
0°						
194°			3M Scotch Seal Metal Sealant 2084		Optional - Rock River Silicone Sealant	Optional - Red Devil HVAC/R High Temperature Silicone Sealant
250°						
400°						
500°						
1100°						

Additional Notes
Rock River Silicone Sealant and Red Devil HVAC/R High Temperature Silicone Sealant are not paintable
Galvanized steel provides little or no breakdown of zinc (zinc melting point 740°F)
304SS: • bluing may occur at 800° F and above

Compliance / Rating of Product Components		
Product	Material	Compliance / Rating
QF Gored Elbows	Galvanized	ASTM A527 with a G-90 rating
	304SS	Finish meets ASTM A240
	316SS	Finish meets ASTM A240
3M Scotch Seal Metal Sealant 2084	Acetone blend	AAMA Specification 801.1
3M Polyurethane Sealant 540	Polyurethane	ASTM E 162, ASTM E 662, Bombardier SP 800-C
Rock River Sealant	100% Silicone	ASTM C920 Class 25, TT-S-00230C Class A and TT-S-001543A, FDA No 421 CFR 117.2600, conforms to FDA requirements
Red Devil HVAC/R High Temperature Sealant	Silicone	ASTM C920 Class 25, TT-S-00230C Class A and TT-S-001543A, CEBTP 432.6 140-2, Mil Spec 46106A, CGSB 19C9-9B, DIN 18540 Part 2, OREX 150031-2