

Press Formed Elbows, Angle Flanged, Sizes 3" - 7"

TECHNICAL DATA

a 3211

ID	Bend Degrees	CLR (Center Line		Std Weight 30°	Std Weight 45°	Std Weight 60°	Std Weight 90°	Galvanized Steel		ISS 16SS)
In.	Available	Radius)	Tangents	Lbs	Lbs	Lbs	Lbs	24ga	14ga	22ga
3		Galvanized: 1.0	2.00	1.60	1.75	1.60	1.75	Std	Tubed	
4	30°			2.00	2.25	2.00	2.25			
5	45° 60°	Optional : 1.5		2.75	2.80	2.75	2.80			
6	90°	Stainless Steel: 1.5		3.65	3.85	3.65	3.85			
7				4.80	4.90	4.80	4.90			Std



Construction:

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.

Ends: Angle Flange (ANGFL) - Nordfab Angle Flange is industry standard angle flange with pre-drilled holes. See 3261 QF Angle Flange Technical Data sheet for flange dimensions and hole patterns.

Collars: Collar is located on the exterior side of each port and considered as air flow 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.

Notes:

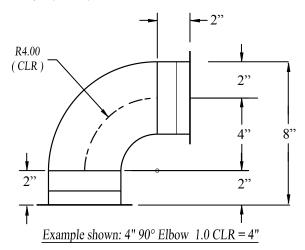
Long Radius Elbows available with 1.5 CLR.

Size 8" to 40" elbows are gored - see 3211 Gored Elbows, Angle Flanged Technical Data Sheet

Reference Nordfab's QF Machine Adapter Technical Data sheet for actual ID and OD dimensions.

Height of 90° elbows can be calculated:

(Elbow diameter X CLR) + length of one tangent + 1/2 diameter Example: (4" X 1.0) + 2 + 2 = 8





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Temperature Rating of Product Components							Additional Notes		
° F	° F QF Press Formed Elbows			Seal	ants	At temperatures ranging between 390° F and 480° F, the zinc-iron alloy layers in galvanized steel will continue to			
1100°							provide a high level of protection from corrosion. Howev- er, there may be some peeling, changes in mechanical		
500°							properties, and reduction in the corrosion protection.		
390°				River Silicone	Optional - Red Devil HVAC/R High Temperature Silicone Sealant		Recommended max. service temperature is 390° F.		
250°		Optional -	KIVI Scotch Seal				Rock River Silicone Sealant and Red Devil HVAC/R High		
194°	Galvanized	304SS				Optional - Epoxy - 3M DP 125 Gray Sealant	Temperature Silicone Sealant are not paintable		
0 °	Steel		Metal Sealant 2084				 304SS: 3" - caulking on collared seam only bluing may occur at 800° F and above 		
-40 °									
-60°									

Compliance / Rating of Product Components					
Product	Material	Compliance / Rating			
QF Press Formed Elbows	Galvanized	ASTM A653 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			
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			

