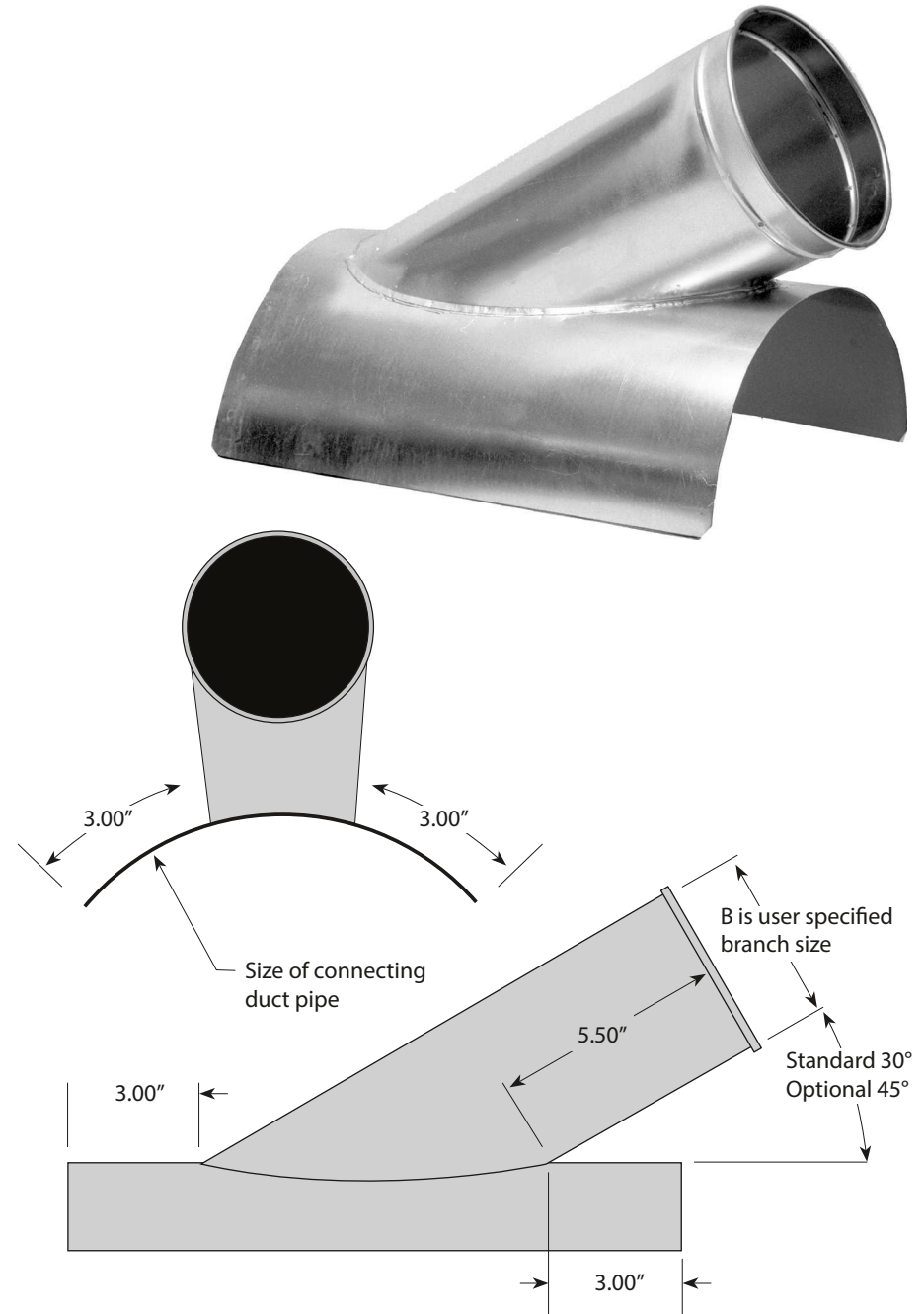


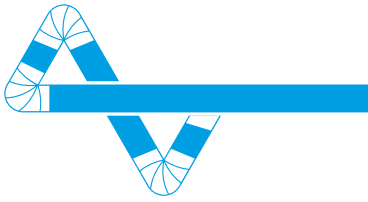


QF In-Cut 3223

TECHNICAL
DATA

Size In.	ID In.	Weight Lbs	Galvanized Steel				304SS (or 316SS)		
			22ga	20ga	18ga	16ga	22ga	20ga	18ga
3	3.05	1.25	Std				Std	Optional	
4	3.86	1.48							
5	4.86	2.15							
6	5.89	2.84							
7	6.89	3.53							
8	7.88	4.48							
9	8.88	5.38							
10	9.89	6.47							
11	10.88	7.62							
12	11.97	8.77							
13	12.97	11.23	Std		Optional	Optional	Std	Optional	
14	13.96	13.88							
15	14.97	15.79							
16	15.97	17.20							
17	16.97	19.26							
18	17.96	21.29							
19	18.96	23.25							
20	19.96	25.58							
21	20.97	27.75							
22	21.97	30.47							
23	22.97	33.00							
24	23.94	35.36	Std				Std		
25	24.93	37.75							
26	25.96	40.28							
27	26.96	42.50							
28	27.94	45.01							
29	28.89	50.50							
30	29.89	56.53							
31	30.94	59.75							
32	31.87	62.97							
33	32.92	63.75							
34	33.95	67.42	Std				Std		
35	34.90	69.50							
36	35.93	71.38							
37	36.99	73.75							
38	37.86	76.74							
39	38.88	79.00							
40	39.97	81.41							





QF In-Cut 3223

TECHNICAL DATA

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

Construction:

Seam: longitudinal seam is lapped, spot welded, and caulked.

Collars: located on the exterior side of each port and considered as air flow non-directional. Collars have a laser welded longitudinal seam (exception: 3" collars are lapped, spot welded, and caulked.) 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 may be incurred.

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).