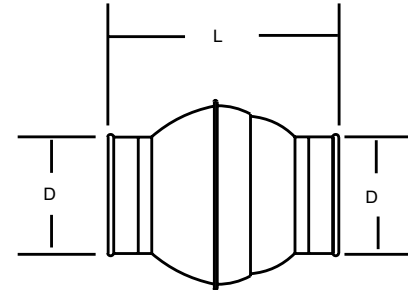


QF Ball Joint 3209

Size In.	Length In.	Galvanized Steel Gauge
4	9.5	20
5	10.75	20
6	11.75	20
7	10.75	20
8	14	18
9	15	18
10	14.25	18
12	15.25	16
14	17.5	14

Construction
Collars: located on the exterior side of each port and considered as air flow non-directional. 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 may be incurred.

Note: 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).



Allows 22° of movement off-center. Perfect for machines with moving dust ports.

Temperature Rating of Product Components					
° F	QF Ball Joint		Sealants		
1100°	Galvanized Steel	Optional - 304SS	3M Scotch Seal Metal Sealant 2084	Optional - Rock River Silicone Sealant	Optional - Red Devil HVAC/R High Temperature Silicone Sealant Optional - Epoxy - 3M DP 125 Gray Sealant
500°					
390°					
250°					
194°					
0°					
-40°					
-60°					

Additional Notes
At temperatures ranging between 390° F and 480° F, the zinc-iron alloy layers in galvanized steel will continue to provide a high level of protection from corrosion. However, there may be some peeling, changes in mechanical properties, and reduction in the corrosion protection. Recommended max. service temperature is 390° F.
Rock River Silicone Sealant and Red Devil HVAC/R High Temperature Silicone Sealant are not paintable
304SS: • bluing may occur at 800° F and above

Compliance / Rating of Product Components		
Product	Material	Compliance / Rating
QF Ball Joint	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