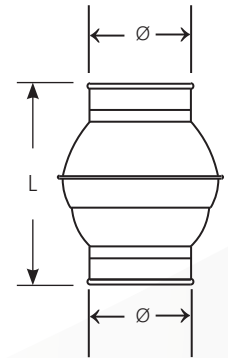


Ball Joint

Ordering Information

- When ordering, specify material, gauge (if non-standard) dimension and end style.
- Allows up to 22° of movement off-center. Ideal for machines with moving dust ports.
- Air flow directional arrow sticker is attached to product.
- Odd sizes available upon request, with possibility of up to 6 weeks lead time.**



QF Material Options

Galv		
Gauges	Size (in)	
	Min. Ø	Max. Ø
All collars are 22ga for sizes 4" - 12", collar is 20ga for 14"		
20 (body)	4	7
18 (body)	8	10
16 (body)	12	12
14 (body)	14	14

Not available in SS.

Standard

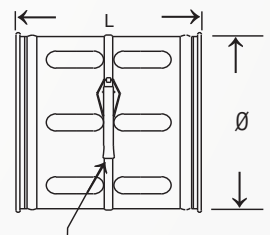
Ø in.	Length in.	Std Weight Lbs
4	9.5	10.19
5	10.75	15.18
6	11.75	17.13
7	10.75	19.23
8	14.0	21.36
9	15.0	23.3
10	14.25	26.59
12	15.25	28.86
14*	17.5	36.11

* 14" diameter - up to 6 weeks lead time

Bleed-in Valve

Ordering Information

- When ordering, specify material, gauge (if non-standard) dimension and end styles.
- Used to adjust airflow to balance system by introducing ambient air.



To adjust, loosen QF Clamp and turn outer sleeve to get proper airflow. Re-clamp when finished.

QF / Flanged Material Options

Galv				SS			
Gauges		Size (in)		Gauges		Size (in)	
		Min. Ø	Max. Ø			Min. Ø	Max. Ø
Standard	22	3	12	Standard	22	3	12
	20	13	24		20	13	24
Optional	18	4	24	Optional	18	8	24
	16	8	24		16	8	24

Construction

Seam: longitudinal seam is laser welded.

Collars: 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 painted 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.

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

Ø in.	Length in.	No. of Slots	Std Weight Lbs
3	11	4	3.75
4		4	4.00
5		6	4.25
6		6	4.50
7		8	4.75
8		8	5.00
9		10	5.25
10		10	5.50
11		10	5.75
12		12	6.25
13		12	6.75
14		14	7.50
15		14	8.25
16		16	10.00
17		16	11.75
18		18	13.50
20		20	15.00
22		22	18.00
24		24	22.00