

# In-line Spark Trap

## Ordering / Installation Information

- When ordering, specify material, gauge (if non-standard), dimension and end style.
- Greatly reduces the possibility of fire in cyclones / collectors by decreasing the number of sparks which could reach these through the air handling system. This is accomplished by disrupting the laminar airflow to cause sparks to cool and extinguish before they can enter the dust collector / cyclone. The Spark Trap does not replace spark detection or explosion isolation devices; it is a complementary device to existing detection and suppression equipment.
- No moving parts and no power required for operation.
- Airflow Velocity: 1500-5000 fpm (7.62m/sec - 25.4m/sec)
- Duct distance recommended: At least ten diameters from dust collector / cyclone and the source (example: 8" duct line, recommended distance is min. 80")
- IMPORTANT: Horizontal mounting only.



**Not an explosion isolation device**

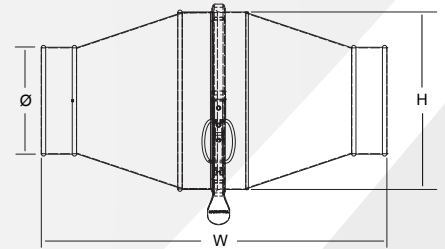
Ø in.	Length nom. in.	Height nom. in.	Std Weight Lbs
4	18	7	6
5	20	9	7
6	20	10	8
7	22	12	11
8	22	13	13
9	24	15	15
10	24	16	16
11	26	18	19
12	26	19	21
13	28	21	23
14	28	22	26
16	30	25	33
18	32	28	47
20	34	31	58
22	38	35	72
24	40	38	87

## QF / Flanged Material Options

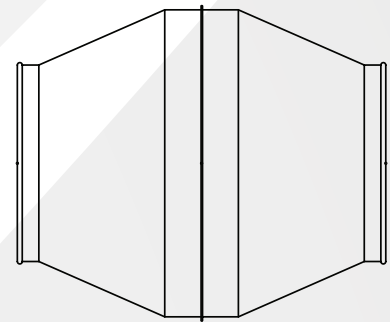
		Galv			SS		
		Size (in)			Size (in)		
		Gauges	Min. Ø	Max. Ø	Gauges	Min. Ø	Max. Ø
Standard		22	4	12	22	4	12
		20	13	24	20	13	24
Optional		20	4	6	18	7	24
		18	7	24			



**Temperature Rating:** Each In-line Spark Trap, sizes 4" - 14", includes a QF clamp to attach the two sections together. If your application requires materials rated for temperatures consistently higher than 158°F, please specify the optional ePTFE seal available for the clamp, which allows application up to 600°F. Larger Spark Traps are attached via standing seam without QF Clamps.



Drawing above illustrates construction of Spark Traps in sizes 4" - 14".  
Drawing below illustrates construction of Spark Traps in sizes 16" - 24".



### Construction

**Seam:** longitudinal seam is laser welded.

**Collars:** Collars have a laser welded longitudinal seam which are also caulked and painted.

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

**Notes:** The exterior is available in optional materials, as shown above, but the internal components must remain standard.

Spark Traps, sizes 4" - 14", are sold only as a complete unit, which includes two sections and a clamp attaching the sections. Diameter of both ends must be the same measurement (i.e. if diameter of airflow side is 6", diameter of downstream side must also be 6".)

Spark Traps, sizes 16" - 24", are sold only as a complete unit, which includes two sections attached via standing seam. These sizes cannot be disassembled.

Clamps are not available in 316SS

The Nordfab In-line Spark Trap is a simple, low-cost tool that can reduce incidents of fire events, reducing costs and disruption and improving safety. System redundancy and complementary measures should be applied. It is not a primary safety device and does not replace spark detection or explosion isolation devices.

Our Pressure Loss Test Results	
Ø in.	Airflow at 3000 FPM prior to Spark Trap (w.g.)
4	-0.85
5	-0.85
6	-0.90
7	-1.00
8	-1.10
9	-1.10
10	-1.20
12	-1.35
14	-1.45
16	-1.20
18	-1.20
20	-1.25
22	-1.20
24	-1.25