

In-line Spark Trap 2.0

New Improved Design



Not an explosion isolation device

Ordering / Installation Information

- When ordering, specify dimension and QF end type or AFL Assembly (incl. Spark Trap and two Angle Flange Adapters).
- 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.
- Recommended airflow velocity: 1500-3500 fpm
For max performance, we suggest 3000 fpm. (7.62m/sec - 17.78m/sec)
- Duct distance recommended: At least ten diameters from dust collector / cyclone and the source (example: 8" duct line, recommended distance is min. 80")

Ø in.	Width nom. in.	Height nom. in.	Std Weight Lbs
4	10	40	17.8
5	11	40	20.3
6	12	40	22.5
7	13	44	26.3
8	14	44	28.6
9	15	44	31.8
10	16	44	34.3
11	17	44	38.4
12	18	44	41.0
13	19	48	46.5
14	20	48	49.3
15	21	48	56.5
16	22	48	58.7
17	23	48	62.4
18	24	48	64.5
19	25	48	69.5
20	26	48	71.5
22	28	48	77.4
24	30	48	84.9

New and improved 2023 design:

- Improved pressure loss
- Improved design based upon flow design analysis
- Can be installed into duct line in vertical or horizontal position
- Reduced risk of internal buildup (snag-free construction)
- Quick clamp disassembly for sizes up to 18 inches. Assemblies with Angle Flange Adapters available for larger sizes.
- Sturdier construction - heavier gauge, powder-coated mild steel

QF / Flanged Material Options

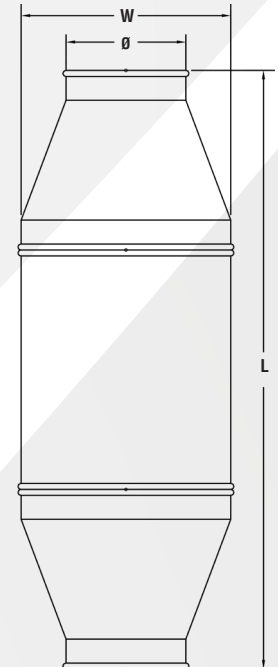
Spark Trap 2.0 is constructed of Mild Steel with a blue powder coating applied. Sizes 4" to 12" are 22ga and larger sizes are 24ga.



Temperature Rating: Each In-line Spark Trap 2.0, sizes 4" - 18", includes two QF Clamps attaching the sections together. If your application requires materials rated for temperatures consistently higher than 158°F, please specify the optional ePTFE seal available for the clamps, which allows application up to 600°F. Larger Spark Traps are assembled via standing seam without QF Clamps.

Ø in.	Pressure Loss		
	3000 fpm	4500 fpm	5500 fpm
4	0.8	2.1	3.1
5	1.0	2.6	3.0
6	1.1	2.0	2.9
7	1.0	2.0	2.8
8	1.0	2.0	2.8
9	1.2	3.0	4.5
10	1.2	2.9	4.6
11	1.6	2.8	5.0
12	1.6	2.8	5.0
13	1.7	2.8	5.1
14	1.7	2.8	5.1
15	1.8	2.9	5.5
16	1.8	2.9	5.5
17	1.8	3.0	5.7
18	1.8	3.0	5.7
19	1.9	3.1	6.0
20	1.9	3.1	6.0
22	2.0	3.2	6.2
24	2.2	3.2	7.0

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.



Construction

Seam: Longitudinal seam is laser welded.

Collars: Collars have a laser welded longitudinal seam which are also caulked and powder-coated.

End Types: Nordfab In-line Spark Trap 2.0 is available only with Quick-Fit ends. For flanged application, order our Spark Trap AFL Assembly which includes a Spark Trap and two Angle Flange Adapters.

Spark Traps, sizes 4" - 18", are sold only as a complete unit, which includes three sections and two clamps 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 20" - 24", are sold only as a complete unit, which includes three sections attached via standing seam. These sizes cannot be disassembled.