



Model A-TIN - Threaded In-Line Flame Arrestor

The Paradox In-Line Flame Arrestor, prevents flame propagation by acting as a heat sink, cooling the flame front to cause it to be extinguished. This heat sink is made from spiral wound crimped ribbon that allows gas to flow with a minimum pressure drop. All Paradox units are bi-directional and are proven to stop an ignited flammable vapor mixture approaching from either direction traveling at subsonic velocities.



Standard housing construction is carbon steel with 3000# threaded half coupling connections (NPTF). Stainless steel and other alloys are available upon request. The standard element is 304SS and 316SS or hastelloy is also available. Aluminum is not available or used in any Paradox arrester products.

Gas Groups
IIA (D)
IIB (C)
IIC (B)



Inline Threaded Flame Arrester Series-A-TIN

Features and Benefits

- **All Paradox A-TIN Arrestors** are designed & tested for deflagrations.
- **Large Flame Channels for long reduced clogging and extended life.**
- outstanding corrosion and chemical resistance.
- Large variety of pipe sizes available.
- Metric pipe thread also available.



Paradox's Large Crimp Opening Provide:

- Maximum flow
- Less Pressure Drop
- Easy Cleaning
- Less Clogging
- Less Maintenance
- Bi-directional Design





Series “A-TIN” In Line Flame Arrester for Group D Gas Specification Data Sheet

Flame Arrester Type	In-Line Flame Arrester
Recommended installation /use	Vertically & Horizontal in Piping systems with a maximum 10’ of pipe from the ignition source.
Design/Test Standard/Test Gas	UL525/Propane
NPT Connection sizes	.5” through 4” Pipe sizes
Type of connection	Threaded connection.
Coupling Rating	3000#
Housing Materials	Standard Model; Carbon Steel, also available in 304, 316L & most other Austenitic metal or hastelloy.
Element Type/Material	The element is crimped metal ribbon made from 304 Stainless Steel and is also available in 316L or hastelloy.
Maximum Initial pressure	15.7 Psia.
Operating temperature range	-20 to 140 F
Design Pressure	150 Psig.
Gas Group Application Rating	NEC Group D,C, & B
Pressure Drop	Contact us for flow curves