

Vent or End Of Line Flame Arrester SERIES-AV



The Paradox End of Line Flame Arrestors, are designed for free venting while simultaneously preventing flame propagation of confined and unconfined low pressure deflagrations. They prevent an ignited atmospheric vapor cloud from propagating beyond the Flame Arrestor into the line or tank.

For installation on the top of an atmospheric vent line or storage tank (end of line), with an operating pressure which is near atmospheric and there is little chance of flame stabilizing on the Flame Arrester element face.

Flame Arresters prevent 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 and are only used for pipe lengths of up to 10 feet with no pipe bend, stopping confined and unconfined, low pressure deflagrations. All Paradox units are bi-directional and are proven to stop an ignited flammable vapor mixture approaching form either direction traveling at subsonic velocities.

All of our arrester come with **strong lifting points designed to lift the entire unit.**

The arrestor provides the option of the removing the flame cell (element) for easy cleaning and replacement without disconnection of the pipe flanges.

Standard housing construction is carbon steel and stainless steel. The element is available in 304 S.S and 316 S.S. Tested for 2" (50mm) through 24" (600mm)
 Gas Groups IIA (D) IIB3 (C) IIC (B)



Features and Benefits

- All Paradox Flame
 Arrestors are de
 signed to arrest
 deflagrations.
- Removable Element design allows for easy replacement.
- outstanding corrosion and chemical resistance.
- Temperature
 ports are optional.

me Paradox's Large Crimp Opening Provide:

- Maximum flow
- Less Pressure Drop
- Easy Cleaning
- Less Clogging
- Less Maintenance
- Bi-directional Design
- Available in ANSI, DIN and JIS flange and NPT.



Material Specifications

Housing	Cell	Gas Group
Carbon Steel	304 SS	IIA (D)
304 SS	316 SS	IIB3 (C)
316L SS	Hastelloy	IIC (B)
Hastelloy		

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1-352-493-0616 or 1-352-493-2111



Series "AV" End of Line Flame Arrester for Group D, Gas Spec Sheet

Model	A 150# ANSI Conn. Size in. (mm) (Optional 125# FF)	B Housing Size In. (mm)	C Outside Diameter In. (mm)	Approx. Weight Lb. (Kg.) Grp D
AV-1/4	1 (25)	4 (101)	12 (304)	60 (27.2)
AV-2/4	2 (50)	4 (101)	12 (304)	65 (29.48)
AV-2/6	2 (50)	6 (152.4)	18 (547)	65 (29.48)
AV-2/8	2 (50)	8 (200)	18 (547)	77 (35)
AV-3/8	3 (75)	8 (200)	18 (547)	81 (36)
AV-4/8	4 (100)	8 (200)	18 (547)	86 (39)
AV-6/12	6 (150)	12 (300)	23.5 (596)	149 (67.6)
AV-8/16	8 (200)	16 (400)	30 (762)	243 (111)
AV-10/20	10 (254)	20 (500)	36 (914)	360 (164)
AV-12/24	12 (304)	24 (600)	44(1118)	550 (250)



Designed & Tested to prevent this!!

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Series "AV" End of Line Flame Arrester for Group D, Gas Specification Data Sheet

End of Line Flame Arrester	
Vertically in Piping systems with a maximum 10' of pipe from the ignition source or directly onto storage tanks.	
ASTM F-1273 /UL525/ Test gas: Propane	
2" through 12" Pipe sizes	
Flanged or threaded connection available.	
Available in ASME 150/125# Flat Face or Raised Faced Flange	
Standard Model; Carbon Steel, also available in 304, 316L & most other Austenitic metal or hastelloy.	
The element is crimped metal ribbon made from 304 Stainless Steel and is also available in 316L or hastelloy.	
14.7 Psia.	
-17ºC to +60ºC or (1024ºC for 5 minutes Stabilized Burn Condition)	
350 Psig.	
NEC Group D,(IEC Group IIA,)	