

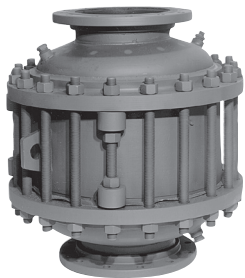
Turbulent flow and compressive heat effects can cause a propagating flame to transition to unstable detonation, resulting in extremely high velocity and pressure. It is very difficult to say with any degree of confidence when and where the transition to unstable detonation will occur. Installed equipment should be able to provide the maximum protection under the most dangerous situations.

Some companies offer a light-duty stable detonation flame arrester rated for only stable detonation. An unstable detonation could destroy a stable detonation flame arrester. This would allow a flame to propagate further down the pipeline, damaging the equipment that the detonation flame arrester was intended to protect.

If your process requires a detonation flame arrester, make sure it can handle the worst case of unstable detonation. All Groth detonation flame arresters are designed to withstand both stable and unstable detonations.

**Ensure that you protect your employees, your equipment and the environment.
Play it safe - specify a detonation flame arrester
designed to withstand both stable AND unstable detonations...**

Models 7658A & 7758A Detonation Flame Arresters by Groth Corporation®



**Model 7658A
Detonation Flame
Arrester**
NEC Group D /
IEC Group IIA



**Model 7758A
Detonation Flame
Arrester**
NEC Group C & D /
IEC Group IIA, IIB1, IIB2, IIB3

Specifications:

- Sizes 2" through 12"
- NEC Group D and Group C (IEC Class II A and IIB1 through IIB3 vapors)
- Pre-Ignition Pressure - Model 7658A : up to 1 psig (15.7 psia)
- Pre-Ignition Pressure - Model 7758A : up to 4.5 psig (19.2 psia)
- Maximum Pre-Ignition Temperature: 140°F
- MAWP: up to 100 psig (depending on flange size)
- Burn Duration Rating: 30 min. (USCG), 1 min. (ATEX)
- Bolting: ASTM A193 Grade B8

Materials:

- Housings are available in carbon steel, 316 SS, and Hastelloy C
- Elements are available in 316 SS, Hastelloy C, and other corrosion resistant alloys

Certifications:

- USCG, ATEX (per EN12874)
- Factory Mutual (Model 7758A)

Industries | Applications:

- Oil & Gas
- Chemical
- Liquid Storage
- Food & Beverage
- Wastewater

Benefits:

- Low pressure drop
- Easy maintenance
- Install anywhere in pipeline



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