



Effective July 1st, 2003, all flame and detonation arresters installed in the jurisdiction of the European Economic Area must have ATEX certification.

All Groth model 7618, 7628 and 7658A arresters have been examined according to Standard EN 12874:2001 and the following certificates have been issued, assuring compliance with the Essential Health and Safety Requirements of Directive 94/9/EC:

- DNV-2003-OSL-ATEX-0233X
- DNV-2003-OSL-ATEX-0234X
- DNV-2003-OSL-ATEX-0235X

Groth flame and detonation arresters utilize the proven spiral wound, crimped ribbon construction. Flow capacities, dimensions, weights and other features are shown in the Groth Corporation Product Catalog, Section 2.

They are designed and certified for the following applications:

Model 7618 with Weatherhood or Flanged Outlet

For tank or end-of-line installations where vapors are venting to atmosphere, either via a weatherhood, a short tailpipe or a pressure/vacuum relief valve, these arresters are available in 2" through 12" sizes with carbon steel, stainless steel or aluminum housings, and stainless steel elements. Consult factory for availability of other corrosion resistant materials.

They are tested and certified to protect systems containing flammable vapors or gases in explosion group IIA (NEC Group D) with minimum MESH of 0,90 mm (0.036") and maximum operating temperature of 60°C (140°F).

Model 7618 and 7628 with flanged outlet

These arresters are certified for tank or in-line installations where vapors are discharging into a piping system or other device, such as a short tailpipe or a pressure/vacuum relief valve. They are available in 2" through 12" sizes with carbon steel or stainless steel housings, and stainless steel elements. Consult factory for availability of other corrosion resistant materials.

They are tested and certified to protect systems containing flammable vapors or gases in explosion group IIA (NEC Group D) with minimum MESH of 0,90 mm (0.036") and maximum operating temperature of 60°C (140°F).

Maximum operating pressure depends on size as follows:

Table I —Maximum Operating Pressure, Model 7618 or 7628 Flame Arresters

Size	Maximum Operating Pressure	
	PSIA	BARA
2"	18.7	1,3
3" - 12"	15.7	1,1

The maximum allowable length from the potential source of ignition (run-up-length), in pipe diameters, is also dependent on size as follows:

Table II —Maximum Run-Up-Length, Model 7618 or 7628 Flame Arresters

Size	Run-up-length [L/D]
2"	48
3" - 6"	20
8" - 12"	10

Model 7658A Detonation flame arrester

These arresters are certified for in-line installations with no restrictions on pipe length or system configuration because they will prevent flame propagation under the most extreme conditions. They are available in 2" through 12" sizes with carbon steel or stainless steel housings, and stainless steel elements. Consult factory for availability of other corrosion resistant materials.

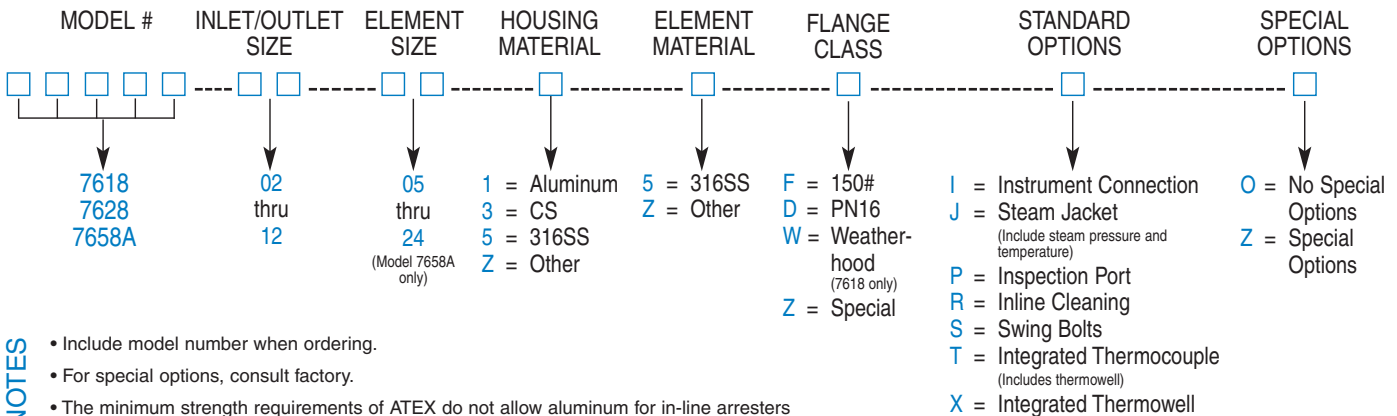
They are tested and certified to protect systems containing flammable vapors or gases in explosion group IIA (NEC Group D) with minimum MESG of 0,90 mm (0.036"),

maximum operating temperature of 60°C (140°F), and maximum operating pressure of 15.7 PSIA (1,1 BARA)

In compliance with the ATEX directive, the user is required to maintain a system that will shut down or inert the vapor flow within one minute after ignition occurs. Groth offers one or multiple ATEX approved integrated thermocouples that will provide the signal to the user's system. Alternately, Groth will provide an integrated thermowell in the arrester housing, including specifications and instructions for installation of a user supplied thermocouple.

HOW TO ORDER

For easy ordering, select proper model number



NOTES

- Include model number when ordering.
- For special options, consult factory.
- The minimum strength requirements of ATEX do not allow aluminum for in-line arresters

EXAMPLE

7 6 5 8 A — 0 3 — 0 6 — 3 5 — F T O

Indicates a 3" Model 7658A with 6" element, CS housing, 316SS element, ANSI 150# flanges, ATEX integrated thermocouple and no special options.

Groth Corporation has representatives throughout the world.
Contact the Groth Corporation office nearest you for the authorized representative in your area.



Pressure Equipment Directive
Available When Specified

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