SERIES C

Standard detonation flame arrester

Installed Model C-8E-GD-CS-C-DPT. Configuration shown is illustrative.

DUTY
Detonation protection

CONFIGURATION
Concentric or eccentric

CONNECTIONS
2-22 in. nominal

SERVICE
Removable element

Bi-directional detonation protection for manifolded piping, extended run-up distances and systems with multiple bends. Staged crimped-ribbon cells and screen sections absorb heat and attenuate the pressure wave while quenching the flame front.

Flame protection

Designed for stable, unstable and overdriven detonations, as well as deflagrations, within the qualified application limits.

Service access

Removable element construction supports inspection, cleaning and replacement without disconnecting the pipe connection flanges.

Material options

Carbon steel, stainless steel and Hastelloy options support application-specific material selection.

Instrumentation

Optional drains, pressure and temperature ports. ANSI, DIN and JIS connection options are available by configuration.

DRAWINGS & INSTALLATION

Installation dimensions are under review. Request a confirmed product drawing before laying out piping, supports or installation clearances.

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SERIES C / TECHNICAL DATA

Specification overview

Initial pressure is absolute (psia); hydrostatic test pressure is gauge (psig).

Arrester type	In-line, bi-directional detonation flame arrester
Installation	Vertical or horizontal; confirm the specified model and system arrangement
Nominal connections	2-22 in.; 24 in. and 30 in. configurations by special order
Standard flange	ASME Class 150 raised face
Housing	Carbon steel; 304 / 316L stainless steel or Hastelloy options
Element	Crimped metal ribbon; 304 stainless steel with 316-series stainless steel or Hastelloy options
Maximum initial pressure	22.7 psia (D); 20.7 psia (C); 19.7 psia (B)
Operating temperature	-17 °C to +60 °C
Hydrostatic test pressure	350 psig
Gas designations in source	IIA (D), IIB3 (C), IIC (B); applicability is configuration-specific
Test basis in source	USCG 33 CFR; propane, ethylene and hydrogen

The source identifies USCG-approved 2-22 in. concentric and eccentric configurations for D and C service, and a 2 in. configuration for B service. Confirm the applicable model record; testing of other sizes does not establish approval.

EN 12874 testing is reported in the source. It is not presented here as ATEX certification. Refer to the matching model and gas-specific flow curve for flow capacity.

Standard series includes C-2C, C-3C, C-4C, C-6C, C-8C, C-10C, C-12C, C-14C, C-16C, C-18C, C-20C and C-22C. Specify the complete model, gas designation, materials and options.

Publication updated 2026-10-28. Technical basis: Rev. 7 / June 20, 2022.
Confirm the current technical revision, application limits and model-specific approval or acceptance before use.

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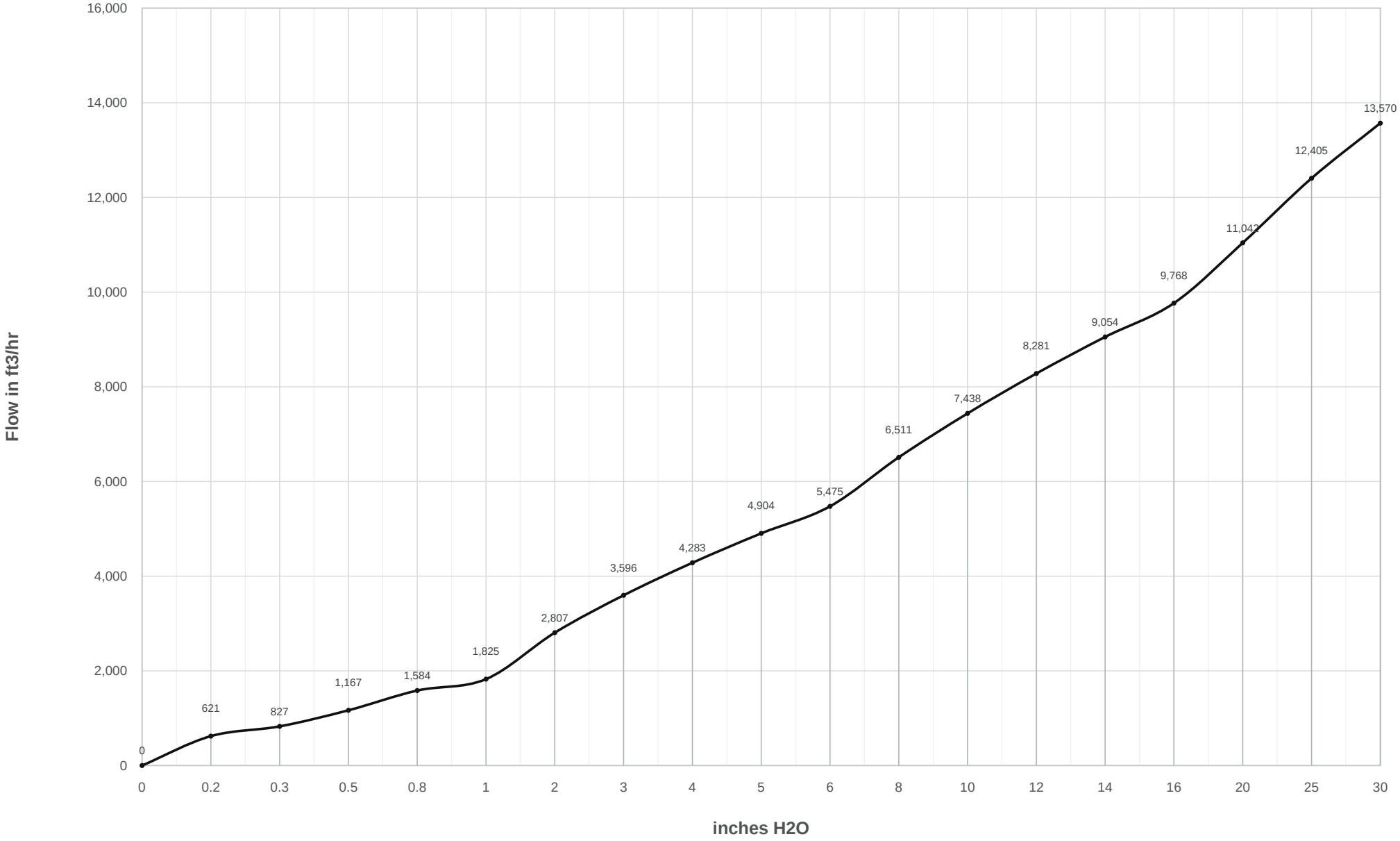
Model C-2C-GC

Gas Group C (IIB) | Flow Capacity



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Original source values or curve geometry retained; white-background chart format standardized September 13, 2026.