SERIES C-FH

Compact detonation flame arrester

C-FH compact assembly. Configuration shown is illustrative.

DUTY
Detonation protection

CONFIGURATION
Compact / Stubby

CONNECTIONS
2-22 in. nominal

SERVICE
Removable element

The compact 'Stubby' configuration brings Series C detonation-arrester technology to installations with restricted axial space. Its staged crimped-ribbon element is designed to quench the flame front and attenuate the associated pressure wave.

Compact configuration

Concentric and eccentric end-section options support different piping layouts. Confirm the arrangement on the product drawing.

Flame protection

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

Service access

Removable elements and optional inspection ports on larger models support cleaning and maintenance.

Project options

Optional instrument and drain ports, material selections and protective coatings can be specified for the service.

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-FH / 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; concentric or eccentric configuration
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. B-service concentric configurations are described as tested; this does not establish approval for every size.

EN 12874 testing is reported in the source. It is not presented here as ATEX certification. Select the C-FH flow curve matching the complete model and gas designation.

The C-FH family includes nominal sizes from 2 through 22 in. and the C-22C(48)-FH configuration. Confirm the full model suffix, materials and options when ordering.

Publication updated 2026-10-28. Technical basis: Rev. 6 / June 20, 2022.
Confirm the current technical revision, application limits and model-specific approval or acceptance before use.

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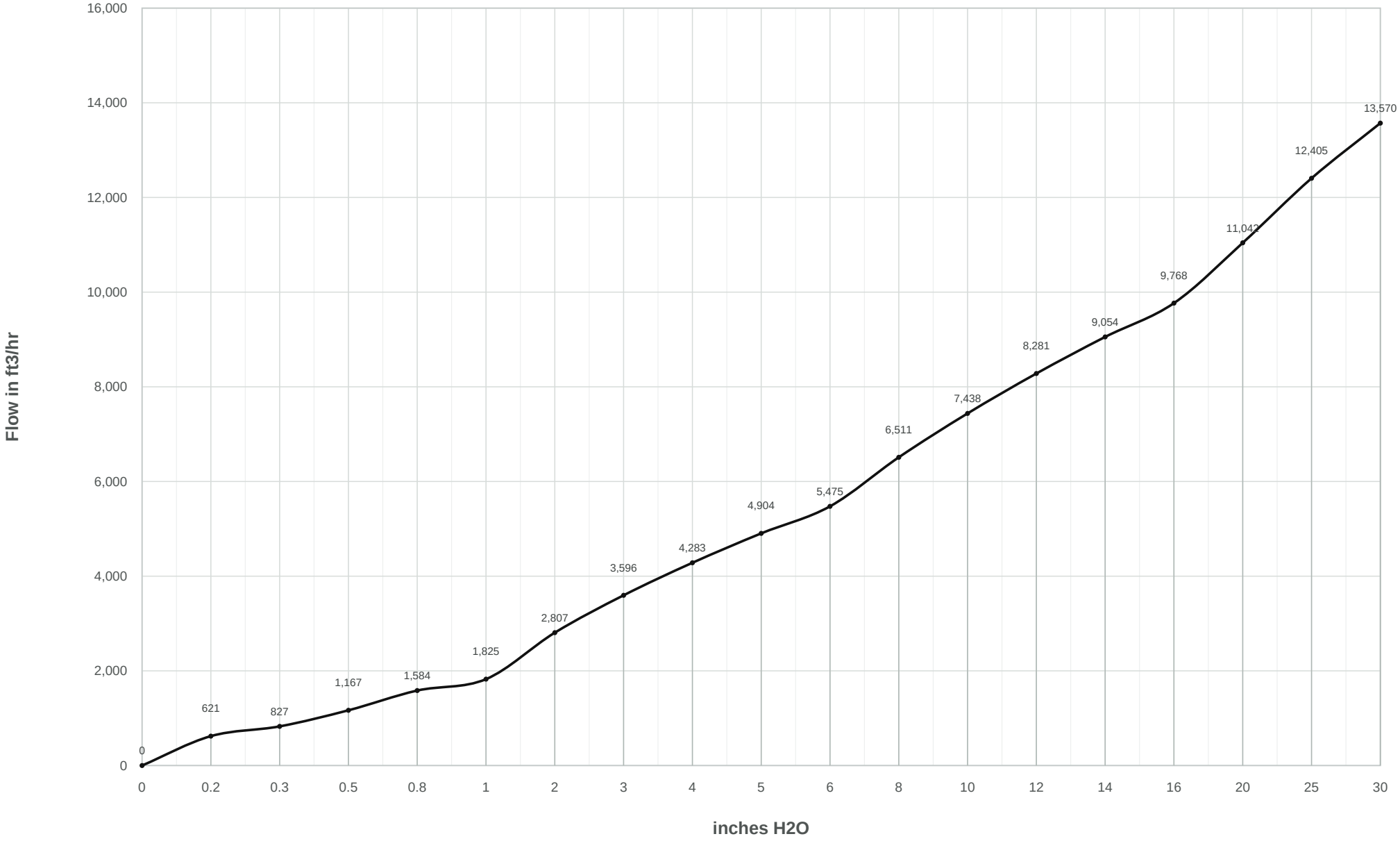
Model C-2C-FH-GC

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.