



SERIES B

High-pressure deflagration arrester



DUTY
HP deflagration

GAS DESIGNATION
IIA (D)

CONNECTIONS
2-12 in. nominal

SOURCE BURN RATING
15 minutes

Series B assemblies. Configuration shown is illustrative.

Bi-directional protection for low- and high-pressure deflagration duty, including qualified short flare-stack arrangements. Crimped-ribbon cells and screen sections combine flame quenching with accessible, removable element construction.

Application-specific duty

Use for high-pressure deflagration service within the qualified piping arrangement. It is not a general-purpose detonation arrester.

Service access

Removable elements support cleaning and replacement without disconnecting the pipe connection flanges.

End-section options

Standard reducer and compact styles, with concentric or eccentric configurations available by model.

Project options

Optional drains, pressure taps and temperature ports, plus application-specific material and coating selections.

DRAWINGS & INSTALLATION

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



SERIES B / TECHNICAL DATA

Specification overview

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

Arrester type	In-line, bi-directional high-pressure deflagration arrester
Installation	Vertical or horizontal. Confirm the qualified run-up piping, elbow arrangement and model-specific limits.
Nominal connections	2-12 in.
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	19.7 psia
Operating temperature	-17 °C to +60 °C
Hydrostatic test pressure	350 psig
Gas designation	NEC D / IEC IIA
Test basis in source	API 2028, section 5, paragraph b; propane
Source burn rating	15-minute stabilized burn, described as USCG Type II

The source reports testing with a flare-stack arrangement and a 90-degree elbow. The permitted piping arrangement must be confirmed for the selected model and service.

The 15-minute burn rating is a source test designation, not a substitute for the installation's flame detection, shutdown and maintenance requirements.

The standard nominal connection range includes B-2C, B-3C, B-4C, B-6C, B-8C, B-10C and B-12C. Match the complete configuration, including parenthetical size suffixes, to the appropriate curve.

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Confirm the current technical revision, application limits and model-specific approval or acceptance before use.

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Model B-3C-GD
Gas Group D (IIA) | Flow Capacity

