

A-BRN

Anti-flashback burner



APPLICATION

Vapor combustion

BODY

304 stainless steel

ELEMENT

304 stainless steel

PERFORMANCE

Model-specific testing

A-BRN burner family. Product configurations vary by model.

A purpose-built anti-flashback burner family for marine vapor-control and vapor-combustion systems. The source documents stainless steel body and element construction, together with model-specific stabilized-burn testing at the reported worst-case flow rates.

Dedicated burner design

Purpose-built flame-arresting elements support the anti-flashback function at the burner.

Stainless construction

The five models in the source performance table use 304 stainless steel for both the body and flame element.

Documented test conditions

Reported burn duration must be read together with the model and its test flow rate. Results are not interchangeable between sizes.

Application review

Confirm the vapor composition, flow range, control arrangement and applicable acceptance record before specifying a burner.

DRAWINGS & INSTALLATION

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



A-BRN / TECHNICAL DATA

Specification overview

Materials and reported test results for the source configurations.

Product type	Anti-flashback burner (AFB)
Application	Marine vapor-control / vapor-combustion systems
Body material	304 stainless steel for the models tabulated below
Element material	304 stainless steel for the models tabulated below
Test method in source	Internally developed design and test protocol using worst-case flow rate (WCFR)
Regulatory context	The source refers to USCG acceptance for marine vapor-control service. Confirm the specific model and installation record.

REPORTED BURN TEST RESULTS

Model	Reported burn duration	Test flow (SCFM)
A-3BRN	2+ hours	4.8
A-4BRN	2+ hours	7.5
A-6BRN	2.5 hours	26.4
A-8BRN	72.8+ minutes	34
A-10BRN	1 hour	57.9

A plus sign (+) means the unit did not fail during the reported test. Durations describe the specific tests; they are not guaranteed endurance times in every service.

WCFR means worst-case flow rate. SCFM means standard cubic feet per minute. Use the associated test report for test context; use the model-specific flow curve for flow capacity.

Additional configurations require their own performance record. The A-BRN2-GD flow curve does not establish a burn rating for that configuration from the table above.

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

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Model A-BRN2-GD
Anti-Flashback Burners | Flow Capacity

