

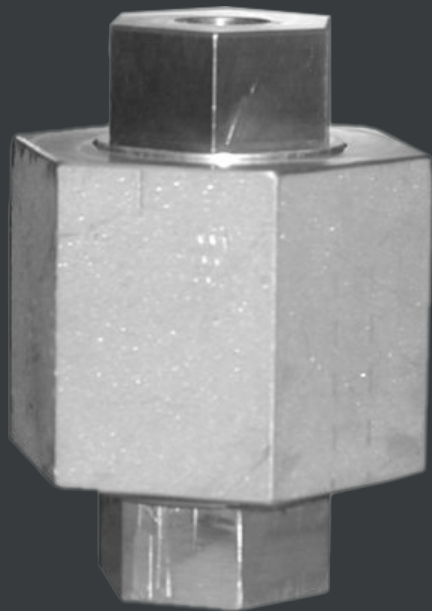
97200

Flame Check

The Shand & Jurs Biogas Model 97200 Flame Check protects regulators, instruments, and small-diameter gas connections from flashback exposure at localized ignition points. Unlike header flame arresters intended for main piping protection, this device is installed directly at equipment connections, where sensitive components are most vulnerable to heat damage.

Gas flows through a woven stainless quenching element that absorbs flame energy and cools it below ignition temperature before reaching upstream components. Because protection occurs at the connection, the flame path is stopped within inches of the ignition source, preventing thermal damage to diaphragms, gauges, transmitters, and vent piping while maintaining normal gas flow and sensing accuracy.

The compact union body permits removal for inspection without disturbing adjacent equipment. It supports installation at pilot, regulator, and burner supply lines where larger arresters cannot be practically located. Rated for 25 PSIG service with threaded sizes from 1/4 in. to 2 in., it provides localized flashback protection in low-pressure gas systems.



Key Features

Close-coupled installation geometry

Protects equipment directly at the ignition source rather than only protecting piping runs.

Stainless woven quenching element

Absorbs flame energy and extinguishes flashback before upstream exposure occurs.

Low-restriction flow path

Permits installation on sensing and pilot lines without affecting device performance.

Union service body

Allows removal and cleaning without disconnecting adjacent equipment.

Corrosion-resistant construction

Suitable for wet and mildly corrosive gas service.

Small threaded connection range

Enables protection at instrument and control device connections.

Benefits



STOPS FLAME AT DEVICE CONNECTION

Prevents heat damage to regulators and instrumentation.



MAINTAINS SENSING ACCURACY

Avoids regulator drift and unstable control caused by added restriction.



PRESERVES PILOT STABILITY

Prevents nuisance burner shutdowns and relight events.



PROTECTS VENT AND GAUGE LINES

Reduces failures of transmitters and measurement devices.



SERVICEABLE IN PLACE

Encourages continued use instead of removal after fouling.



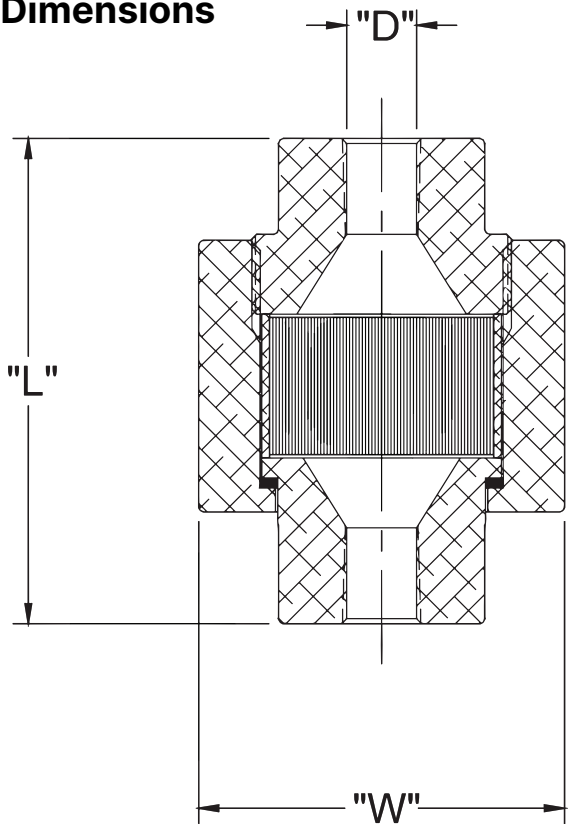
LOCALIZED PROTECTION APPROACH

Extends the life of connected equipment in low-pressure gas systems.

Key Performance Data

Parameter	Value
Function	Local flashback protection
Working Pressure	25 PSIG
Sizes	1/4 in. – 2 in. NPT
Mounting	Inline at equipment connection
Body and Seat	Aluminum or Stainless Steel
Element	Stainless Steel woven media
Gasket	Nitrile fiber
Hardware	Stainless Steel

Dimensions



Dimensions (Inches [mm])							
Size Code		1	2	3	4	5	6
D	Nominal Pipe Size	¼ [6 m]	½ [13]	¾ [19]	1 [25]	1 ½ [38]	2 [51]
W	Width	2 [51]	3 ½ [89]	3 ½ [89]	3 ½ [89]	4 ¾ [121]	4 ¾ [121]
L	Length	3 [76]	3 ½ [89]	3 ½ [89]	3 ½ [89]	4 ½ [114]	4 ½ [114]
Shipping Weight		1	2	2	3	3	4

Model Number Selection

The model number will have a base number 97200 followed by 2 digit numbers. These digits will represent 2 sets of option tables.

97200 - AB

Table A - Line Size & Connection

Option A	Line Size & Connection
1	1/4" NPT
2	1/2" NPT
3	3/4" NPT
4	1" NPT
5	1-1/2" NPT
6	2" NPT

Table B - Body Material

Option B	Element / Body Material
1	316 Stainless Steel / 316 Stainless Steel
2	316 Stainless Steel / Aluminum

Summary

The Model 97200 provides equipment-level flashback protection where full-size arresters cannot be installed. By stopping flame at the connection point without restricting flow, it safeguards regulators, instruments, and pilot systems while preserving normal control operation. Its serviceable compact design supports long-term use in low-pressure gas connections exposed to localized ignition sources.

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This document is for information purposes only. All designs subject to change. Certified dimensions, specifications, and performance data available upon request