

Series 8491 Flash Arrestor



The 8491 Series re-settable flashback arrestors offer four (4) safety devices in each unit. Safety features include protection against flashbacks with a wide range of mixtures of oxygen or air with flammable gases including hydrogen, acetylene, methane, and LPG gases. The design includes a built-in non-return (check) valve to stop reverse flow and a thermal shut off which stops gas flow in the event of a hose or pipe line fire. An easily re-settable pressure control stops gas flow in the event of reverse flow or a flashback that creates 10 psig back pressure. This feature alerts the user that a reverse flow or a flashback of greater than 10 psig has occurred. These units are easily re-set by pulling up on the pressure control ring (shown at left), no disassembly of the gas line or special tools are needed. The 8491 Series' high flow capacity makes them suitable for a broad range of applications. Units are U/L listed and meet ISO 5175, EN 730, BS 6158, and AS 4603 standards.

8491 Features

- 100% Flashback Tested After Assembly
- U/L Listed and Meets Strict International Standards
 - Working Pressures:
 - Acetylene @15.0 psig
 - Hydrogen/Oxygen @50.0 psig
 - Hydrogen/Air @150.0 psig
 - LPG @50.0 psig
 - Oxygen @143.0 psig
- Automatically Re-sets for Flashbacks and Reverse Flow Below 10 PSIG
- Alerts User by Shutting Off Gas Flow in the Event of a Reverse Flow or Flashback Exceeding 10 PSIG Back Pressure (captures back pressure in the housing, no flame or gas is exhausted to the atmosphere)

- Stainless Steel Flame Barrier Positively Extinguishes Flame within the Housing.
- Checks Reverse Flow and Provides Positive Shut-Off of Reverse Flow Over 10 PSIG.
- Thermal Cut-Off
- Built-In 100 Micron Stainless Steel Sintered Filter on Inlet.
- High Flow Capacity (see table)

Materials of Construction

Body	Alloy 360 Brass
Internals	Brass
Flame Barriers	Stainless Steel
Elastomers	Neoprene

Working Pressure (U/L)

Acetylene	15.0 PSIG
Hydrogen/Oxygen	50.0 PSIG
Hydrogen/Air	150.0 PSIG
Methane/LPG	50.0 PSIG
Oxygen	143.0 PSIG

Flow Performance

Inlet Pressure PSIG	Air Flow SCFH
7.3	231.0
14.5	465.0
21.8	725.0
36.3	1041.0
72.5	1933.0

How to Order:

Model Number	Gas Service	Connections	
		Inlet	Outlet
8491-F	flammables	1/4" NPT female	1/4" NPT female
8491-O	oxidizers	1/4" NPT female	1/4" NPT female
8491-FL	flammables	9/16-18 LH female	9/16-18 LH male
8491-OR	oxidizers	9/16-18 RH female	9/16-18 RH male