

# FLASH ARRESTOR

## SERIES 8491 – BRASS

### DESCRIPTION

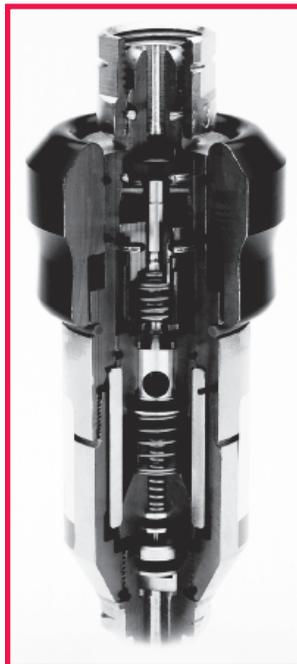
The new 8491 Series re-settable flashback arrestors offer four (4) safety devices in each unit. Safety features include protection against flashbacks with a wide range of mixtures of oxygen or air with flammable gases including hydrogen, acetylene, methane, and LPG gases. The design includes a built-in 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 right), 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 (see flow table). Units are UL listed and meet ISO 5175, EN 730, BS 6158, and AS 4603 standards.

### FEATURES

- 100% flashback tested after assembly.
- UL listed and meets strict international standards .  
 UL Approved Working Pressures:  
 Acetylene @15.0 psig  
 Hydrogen/oxygen @50.0 psig  
 Hydrogen/air @150.0 psig  
 LPG @50.0 psig  
 Oxygen @143.0 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 @ 165°C.
- Built-in 100 micron stainless steel sintered filter on inlet.
- High flow capacity (see flow performance table).

### MATERIALS OF CONSTRUCTION

Body: Alloy 360 brass  
 Internals: brass  
 Flame barrier: stainless steel  
 Elastomers: Neoprene



### WORKING PRESSURE

Gas	Pressure psig	
	UL	BAM
Acetylene	15.0	22.0
Hydrogen/oxygen	50.0	58.0
Hydrogen/air	150.0	-
Methane/LPG	50.0	72.0
Oxygen	143.0	217.0

### FLOW PERFORMANCE

Inlet Press. psig	Air Flow SCFH
7.3	231.0
14.5	465.0
21.8	725.0
36.3	1041.0
2.5	1933.0

### HOW TO ORDER

Model	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