

# FLASHBACK ARRESTORS



## 7000 S E R I E S

Flashbacks and backfires can occur in an instant. The consequences can range from minor equipment damage to deadly cylinder explosions. To help prevent these hazards, CONCOA offers a line of Flashback arrestors to help prevent and protect against flashbacks and backfires.

No device can ever replace the necessity for safe operating practices or properly maintained oxy-fuel torch equipment. CONCOA's line of precision-engineered Flashback Arrestors are designed to enhance safe operating procedures as well as help protect personnel and equipment when these dangerous conditions do exist.



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**AUTOSTOP**

- **Resettable**
- **Regulator Mount**

The AutoStop Models 801-7001 & 801-7002 are CONCOA's standard flashback arrestor designed for applications where maximum safety is essential. The AutoStop size and features make it ideal for use at the regulator outlet.



Stock No.	Service	Regulator End	Hose End	Max PSIG	Max SCFH	Weight
801-7002	Oxygen	9/16"-18 RH Female	9/16"-18 RH Male	143	3745 SCFH (at 143 PSIG)	1.1 lbs. (.5 kg)
801-7001	Acetylene	9/16"-18 LH Female	9/16"-18 LH Male	15	508 SCFH (at 15 PSIG)	1.1 lbs. (.5 kg)
	Hydrogen			50	5213 SCFH (at 50 PSIG)	
	LPG			50	1100 SCFH (at 50 PSIG)	

## AutoStop Model 801-7001 & 801-7002

### Features and Benefits

#### Flame Trap

Designed to quench flames resulting from flashback. All CONCOA arrestors incorporate a dense stainless steel filter designed to stop the most violent flashbacks that result from oxy-fuel gas mixtures.

#### Non-return Valve

This valve prevents reverse flow of gases, a major cause of flashbacks.

#### Flow Cut-Off Valve

The cut-off valve automatically stops the flow of gas in the event of flashback, preventing further gases from being fed to the equipment

#### Warning Re-Set Knob

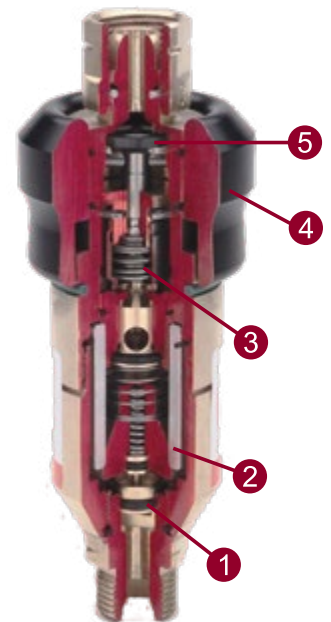
Arrestors with pressure sensitive cut-off valves are fitted with indicating ring to signal the operator that a flashback has occurred and that the reason for the occurrence should be corrected. The knob can be reset without having to remove the arrestor.

#### Inlet Filter

This feature is available on certain models to limit the flow particles into the arrestor which may cause damage to internal components and subsequent malfunction of the arrestor.

#### Temperature Actuated Cut-Off Valve

This thermal sensitive valve is designed to shut off gas supply before critical ignition temperature of the fuel gas is reached. This valve actuates at a temperature of approximately 212° F (100°C).



#### Features

1. Thermal Shut Off
2. Flame Barrier
3. Check Valve
4. Re-settable Pressure Control
5. Inlet Filter



## Series 801-7003 & 801-7004

- Medium Duty
- Regulator Mount

The series 801-7003 and 801-7004 are a budget-priced, general purpose flashback arrestor suitable for cylinder systems. These series should be used whenever there is a possibility of flammable gas mixing with oxygen or air. There are two versions available: the 801-7004 for oxygen and the 801-7003 for fuel gas service. For total protection, 801-7003 and 801-7004 Series Flashback Arrestors should be installed on both oxygen and fuel gas.

CONCOA flashback arrestors should not be used with acetylene generators, hydraulic flashback arrestors or liquid fluxing systems upstream of installation.



Stock No.	Service	Regulator End	Hose End	Max PSIG	Max SCFH	Weight
801-7004	Oxygen	9/16"-18 RH Female	9/16"-18 RH Male	143	2307 SCFH (at 143 PSIG)	5.25 oz. (.15 kg)
801-7003	Acetylene	9/16"-18 LH Female	9/16"-18 LH Male	15	349 SCFH (at 15 PSIG)	5.25 oz. (.15 kg)
	Hydrogen			50	3308 SCFH (at 50 PSIG)	
	LPG			50	698 SCFH (at 50 PSIG)	



## Series 801-7007 & 801-7008

- Compact
- Torch Mount

The Series 801-7007 and 801-7008 Flashback Arrestor is an economically priced safety device suitable for installation at the inlets of hand or machine oxy-fuel gas torches. These models should be used whenever there is a possibility of flammable gas mixing with oxygen or air. There are two versions available: the 801-7008 for oxygen and the 801-7007 for fuel gas service. For total protection, these arrestors should be installed on both oxygen and fuel gas.

CONCOA flashback arrestors should not be used with acetylene generators, hydraulic flashback arrestors or liquid fluxing systems upstream of installation.



Stock No.	Service	Regulator End	Hose End	Max PSIG	Max SCFH	Weight
801-7008	Oxygen	9/16"-18 RH Female	9/16"-18 RH Male	143	1835 SCFH (at 143 PSIG)	2.30 oz. (.07 kg)
801-7007	Acetylene	9/16"-18 LH Female	9/16"-18 LH Male	15	224 SCFH (at 15 PSIG)	2.30 oz. (.07 kg)
	Hydrogen			50	2490 SCFH (at 50 PSIG)	
	LPG			50	526 SCFH (at 50 PSIG)	



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# MAXFLOW

## Series 801-7015 and 801-7016

- Ultra High Flow
- Pipeline mount

- Meets OSHA and NFPA Std. 51 requirements Complies with ISO5175 (Heavy Class) DIN 8521 and BS 6158
- Flame Trap extinguishes flames in the system
- Non-return check valve - prevents reverse flow of gases.
- Automatic temperature-sensitive cut-off valve - prevents overheating of the arrestor.
- Vertical or horizontal mounting

Stock No.	Service	Regulator End	Hose End	Max PSIG	Max SCFH	Weight
801-7016	Oxygen	1" NPT Female	1" NPT Female	143	10,063 SCFH (at 143 PSIG)	7.8 lbs. (3.5 kg)
801-7015	Acetylene	1" NPT Female	1" NPT Female	15	1226 SCFH (at 15 PSIG)	7.8 lbs. (3.5 kg)
	Hydrogen			50	13,646 SCFH (at 50 PSIG)	
	LPG			50	2880 SCFH (at 50 PSIG)	



## Series 801-7005, 801-7006, 801-7011, 801-7012

- High Flow
- Regulator and Pipeline Mount

- UL Listed - Complies with ISO5175 (Heavy Class) DIN 8521 and BS 6158
- Flame Trap extinguishes flames in the system
- Non-return check valve - prevents reverse flow of gases.
- Temperature cut-off valve stops flow when temperature reaches a dangerous level



Stock No.	Service	Regulator End	Hose End	Max PSIG	Max SCFH	Weight
801-7006	Oxygen	9/16"-18 RH Female	9/16"-18 RH Male	143	3745 SCFH (at 143 PSIG)	12 oz. (.34 kg)
801-7005	Acetylene	9/16"-18 LH Female	9/16"-18 LH Male	15	508 SCFH (at 15 PSIG)	12 oz. (.34 kg)
	Hydrogen			50	5213 SCFH (at 50 PSIG)	
	LPG			50	1100 SCFH (at 50 PSIG)	
801-7012	Oxygen	3/8" NPT Female	3/8" NPT Female	143	3745 SCFH (at 143 PSIG)	1.2 lbs. (.54 kg)
801-7011	Acetylene	3/8" NPT Female	3/8" NPT Female	15	508 SCFH (at 15 PSIG)	1.2 lbs. (.54 kg)
	Hydrogen			50	5213 SCFH (at 50 PSIG)	
	LPG			50	1100 SCFH (at 50 PSIG)	

## Flashback Arrestor Testing Kit – Part Number 801-7099

CONCOA Flashback Arrestors offer the highest level of safety protection available. To ensure that the equipment will operate properly in the event of a flashback, it is essential that they are checked at regular intervals. For details outlining recommended testing procedures, please contact your nearest CONCOA distributor. In cases where large quantities of arrestors are to be checked, the CONCOA Flashback Arrestor Test Panel is available. This enables systematic testing under controlled conditions and is recommended in these situations.

### Installation Instructions

When using on pipeline outlets, a shut-off valve should be installed upstream of the arrestor. If there is danger of water vapor being carried off the gas, then a separator should be connected to one flashback arrestor. If it is necessary that the hydraulic and dry flashback arrestors are installed in the same pipeline system, the hydraulic arrestor

should be restricted to separate branch lines. For increased flow requirements, two or more flashback arrestors may be connected in parallel.

When using the resettable arrestors, it is recommended that the gas supply be closed and the connecting nut between arrestor and regulator loosened to release the built-up gas before resetting. This will avoid excessive force being applied to the lever.

*Properly installed and maintained protection arrestors help provide an extra measure of protection to both the operator and the equipment. Operators should always wear proper protective equipment and follow safe operating procedures. Contact your CONCOA distributor for the most up-to-date information on equipment and service.*

