

# COMET Flashback Arrestors



## Model F1 (regulator mounted)

Part No.	Model	Gas type	Connections	Connection to	Pressure rating	Max airflow l/min
308799	F1 Super	Oxygen	5/8"-18 UNF RH	Regulator outlet	1000 kPa	1122
308800	F1 Super	Fuel	5/8"-18 UNF LH	Regulator outlet	500 kPa (150 kPa Acetylene)	557 170



Designed for connection to the outlet of regulators, with the following features:

- Pressure actuated cut-off valve to prevent further gas flow after a flashback occurs. Operation is indicated by a signal level. After resetting the lever it is ready for immediate re-use.
- Non-return valve.
- Large surface stainless steel conical flame arrestor.
- Pressure relief valve to vent excessive pressure.
- Temperature activated shut-off valve.
- Supplied with inlet filter.
- Complies to AS4603.
- Conforms to EN730/DIN 8521, UL, ISO 5175 class I (fittings to AS4267-1995).
- Tested by BAM.

### Ordering Information

#### OXYGEN

Flashback Arrestor – Model F1 Super  
(Regulator Mounted) Part No. 308799

#### FUEL

Flashback Arrestor – Model F1 Super  
(Regulator Mounted) Part No. 308800

## Model F2R (regulator mounted)

Part No.	Model	Gas type	Connections	Connection to	Pressure rating	Max airflow l/min
308734	F2R	Oxygen	5/8"-18 UNF RH	Regulator outlet	1000 kPa	1133
308735	F2R	Fuel	5/8"-18 UNF LH	Regulator outlet	500 kPa (150 kPa Acetylene)	533 187



Designed for connection to the outlet of regulators and pipelines, with the following features:

- Non-return valve.
- Large cylindrical stainless steel flame arrestor.
- Medium-flow capacity.
- Supplied with inlet filter.
- Temperature activated cut-off valve.
- Complies to AS4603.
- Conforms to EN730/DIN 8521, UL, ISO 5175 class I (fittings to AS4267-1995).
- Tested by BAM.

### Ordering Information

#### OXYGEN

Flashback Arrestor – Model F2R  
(Regulator Mounted) Part No. 308734

#### FUEL

Flashback Arrestor – Model F2R  
(Regulator Mounted) Part No. 308735

#### SET

1 x F2R Oxygen;  
1 x F2R Fuel Part No. 308890

#### BULK

25 x F2R Oxygen Part No. 308734IND  
25 x F2R Fuel Part No. 308735IND

NB: the thermal cut-off sealing element is not in the gas stream and is shrouded from flashbacks. The cut-off valve closes in the direction of flow assisted by a strong spring at an internal temperature of approximately 90°C. Operation is not indicated and the cut-off valve is not resettable by the user.

# COMET Flashback Arrestors



## Model F2B (blowpipe mounted)

Part No.	Model	Gas type	Connections	Connection to	Pressure rating	Max airflow l/min
308854	F2B	Oxygen	5/8"-18 UNF RH	Blowpipe inlet	1000 kPa	1250
308853	F2B	Fuel	5/8"-18 UNF LH	Blowpipe inlet	500 kPa (150 kPa Acetylene)	693 220



Designed for connection to the inlet of blowpipes where medium flow is required (handheld and machine), incorporating the following features:

- Non-return valve.
- Large cylindrical stainless steel flame arrestor.
- Medium flow capacity.
- Complies to AS4603.
- Conforms to EN730/DIN 8521, UL, ISO 5175 class I (fittings to AS4267-1995).
- Tested by BAM.

### Ordering Information

#### OXYGEN

Flashback Arrestor – Model F2B  
(Blowpipe Mounted) Part No. 308854

#### FUEL

Flashback Arrestor – Model F2B  
(Blowpipe Mounted) Part No. 308853

#### SET

1 x F2B Oxygen;  
1 x F2B Fuel Part No. 308891

#### BULK

26 x F2B Oxygen Part No. 308854IND  
26 x F2B Fuel Part No. 308853IND

## Model F6 (blowpipe mounted)

Part No.	Model	Gas type	Connections	Connection to	Pressure rating	Max airflow l/min
308777	F6	Oxygen	5/8"-18 UNF RH	Blowpipe inlet	2000 kPa	1000
308778	F6	Fuel	5/8"-18 UNF LH	Blowpipe inlet	500 kPa (150 kPa Acetylene)	463 148



Designed for connection to the inlet of blowpipes (handheld and machine), incorporating the following features:

- Non-return valve.
- Cylindrical stainless steel flame arrestor.
- Supplied with inlet filter.
- Complies to AS4603.
- Conforms to EN730/DIN 8521, UL, ISO 5175 class I (fittings to AS4267-1995).
- Tested by BAM.

### Ordering Information

#### OXYGEN

Flashback Arrestor – Model F6  
(Regulator Mounted) Part No. 308777

#### FUEL

Flashback Arrestor – Model F6  
(Regulator Mounted) Part No. 308778

#### SET

1 x F6 Oxygen;  
1 x F6 Fuel Part No. 308889

#### BULK

25 x F6 Oxygen Part No. 308777IND  
25 x F6 Fuel Part No. 308778IND

# COMET Flashback Arrestors



## QuickConnect

Part No.	Model	Gas type	Connections	Connection to	Pressure rating
308362	F6Q	Fuel	5/8"-18 UNF LH	Blowpipe inlet	Acet 150 kPa; LP/Nat Gas 500 kPa
308363	F6Q	Oxygen	5/8"-18 UNF RH	Blowpipe inlet	2000 kPa
308364	F2RQ	Fuel	5/8"-18 UNF LH	Regulator outlet	Acet 150 kPa; LP/Nat Gas 500 kPa
308365	F2RQ	Oxygen	5/8"-18 UNF RH	Regulator outlet	2000 kPa
308366	F2BQ	Fuel	5/8"-18 UNF LH	Blowpipe inlet	Acet 150 kPa; LP/Nat Gas 500 kPa
308367	F2BQ	Oxygen	5/8"-18 UNF RH	Blowpipe inlet	2000 kPa



Designed for connection to the inlet of blowpipes OR the outlets of regulators, with the following features:

- Quick disconnect for equipment storage
- Allows for quick connection and safe interchange of equipment
- Integral shutoff valve ensures gas tight seal when disconnected
- Unique barb design prevents improper gas connection
- Spare barbs available.
- Complies to AS4603.

### Ordering Information

#### OXYGEN

Flashback Arrestor – Model F6Q  
(Blowpipe Mounted) Part No. 308363

#### FUEL

Flashback Arrestor – Model F6Q  
(Blowpipe Mounted) Part No. 308362

#### OXYGEN

Flashback Arrestor – Model F2RQ  
(Regulator Mounted) Part No. 308365

#### FUEL

Flashback Arrestor – Model F2RQ  
(Regulator Mounted) Part No. 308364

#### OXYGEN

Flashback Arrestor – Model F2BQ  
(Blowpipe Mounted) Part No. 308367

#### FUEL

Flashback Arrestor – Model F2BQ  
(Blowpipe Mounted) Part No. 308366

### Ordering Information - Spare Parts

Connection barb to suit F6Q, F2BQ (fuel)	Part No. 308369
Connection barb to suit F6Q, F2BQ (oxy)	Part No. 308368
Connection barb to suit F2RQ (fuel)	Part No. 308373
Connection barb to suit F2RQ (oxy)	Part No. 308372

# COMET Flashback Arrestors



## Model 85-10

Part No.	Model	Gas type	Connections	Connection to	Pressure rating	Max airflow l/min
308831/308859/308861/308882	85-10	Oxygen	Various	see ordering details	1000 kPa	5500
308830/308860/308862/308883	85-10	Fuel	Various	see ordering details	500 kPa (150 kPa Acetylene)	1040 337



85-10P



85-10B



85-10R



85-10R-LP

Designed for high-flow applications: Blowpipe mounting (85-10B), Regulator mounting (85-10R) and Pipeline installations (85-10P). They incorporate the following features:

- Non-return valve.
- Large cylindrical stainless steel flame arrestor.
- High-flow capacity.
- Temperature activated cut-off valve.
- 85-10R and 85-10P supplied with inlet filter.
- 85-10B has offset connections to accommodate their size onto the blowpipe.
- 85-10R takes full advantage of the CIGWELD high-flow regulators (TR92 Oxygen, TR93 Acetylene) with their 5/8" BSP high flow outlet connection.
- 85-10R is suitable for use with COMET regulators fitted with the standard welding hose connection 5/8"-UNF.
- Conforms to EN730, ISO 5175 class I.
- Tested by BAM.

NB: the thermal cut-off sealing element is not in the gas stream and is shrouded from flashbacks. The cut-off valve closes in the direction of flow assisted by a strong spring at an internal temperature of approximately 90°C. Operation is not indicated and the cut-off valve is not resettable by the user.

### Ordering Information

#### OXYGEN

Flashback Arrestor – Model 85-10P (5/8" BSP)	Part No. 308831
Flashback Arrestor – Model 85-10R (5/8" BSP - 5/8"-18UNF)	Part No. 308859
Flashback Arrestor – Model 85-10B (5/8"-18UNF)	Part No. 308861
Flashback Arrestor – Model 85-10R-LP (5/8"-18UNF)	Part No. 308882

#### FUEL

Flashback Arrestor – Model 85-10P (5/8" BSP)	Part No. 308830
Flashback Arrestor – Model 85-10R (5/8" BSP - 5/8"-18UNF)	Part No. 308860
Flashback Arrestor – Model 85-10B (5/8"-18UNF)	Part No. 308862
Flashback Arrestor – Model 85-10R-LP (5/8"-18UNF)	Part No. 308883

P= Pipeline (High-flow)

R= Regulator Mounted (High-flow) 5/8"BSP - 5/8"-18UNF

B= Blowpipe Mounted (High-flow)

LP= Regulator Mounted (High-flow) 5/8"-18UNF - 5/8"-18UNF

# COMET Flashback Arrestors



## Selection Chart

Process	Part Number	Nozzle/Tip Size	Regulator (Outlet pressure kPa)	Regulator Mounted Flashback Arrestor	HOSE		Blowpipe Mounted Flashback Arrestor	
					Min ID (mm)	Max Length(m)		
WELDING	307056, 307057 307000-307005 307006	4 to 26 32	COMET 700 Oxy (4-15:50, 20-26:100) COMET 700 Acet (4-15:50, 20-26:100) COMET 700 Oxy (150) COMET 700 Acet (100)	F2R, F1 SUPER, 85-10R(-LP) -	5 5	20 5	F6, F/Buster F6, F2B, 85-10B F2B, 85-10B	
	306068	10 x 12 HT	COMET 700 Oxy (350) COMET 700 Acet (100)	F2R, F1 SUPER, 85-10R(-LP)	5	20	F6, F/Buster F6, F2B, 85-10B	
	306034	20 x 9 HT	COMET 700 Oxy (500) COMET 500 LPG (100)	F2R, F1 SUPER, 85-10R(-LP)	5	20	F6, F/Buster F6, F2B, 85-10B	
HEATING TIPS	307007	8 x 12 HT	COMET 700 Oxy (150) COMET 700 Acet (100)	- F2R, F1 SUPER, 85-10R(-LP)	5 10	5 20	F2B, 85-10B F6, F/Buster F6, F2B, 85-10B	
	307121	8 X 12 (SHA1)	COMET 700 Oxy (150) COMET 700 Acet (100)	- F2R, F1 SUPER, 85-10R(-LP)	5 10	5 20	F2B, 85-10B F6, F/Buster F6, F2B, 85-10B	
	307122	12 x 12 (SHA2)	COMET 700 Oxy (200) COMET 700 Acet (100)	F2R, F1 SUPER, 85-10R(-LP)	10	20	F6, F/Buster F6, F2B, 85-10B	
	307120	18 x 12 (SHP1)	COMET 700 Oxy (500) COMET 500 LPG (100)	-	5	10	F6, F/Buster F6, F2B, 85-10B	
				F2R, F1 SUPER, 85-10R(-LP)	5	10	F2B, 85-10B	
				F2R, F1 SUPER, 85-10R(-LP)	10	20	F6, F/Buster F6, F2B, 85-10B	
	307119	36 x 12 (SHP2)	COMET 700 Oxy (600) COMET 500 LPG (100)	-	10	10	F6, F/Buster F6, F2B, 85-10B	
				F2R, F1 SUPER, 85-10R(-LP)	10	10	F2B, 85-10B	
				F2R, F1 SUPER, 85-10R(-LP)	10	10	F/Buster F6, F2B, 85-10B	
	307118	48 x 12 (SHP3)	COMET 700 Oxy (800) COMET 500 LPG (150)	F2R, F1 SUPER, 85-10R(-LP)	10	10	F2B, 85-10B	
				F2R, F1 SUPER, 85-10R(-LP)	10	20	F6, F/Buster F6, F2B, 85-10B	
				F2R, F1 SUPER, 85-10R(-LP)	10	20	F6, F/Buster F6, F2B, 85-10B	
307117	48 x 15 (SHP4)	TR92 Oxy (1000) COMET 700 (1000) COMET 500 LPG (300)	F2R, F1 SUPER, 85-10R(-LP)	10	20	F/Buster F6, F2B, 85-10B		
CUTTING	306046-306050 306025, 306026, 306028-306030, 306067	Type 41 & 44 - 6, 8, 12, 15, 20 (up to 150mm plate thickness)	Oxy: COMET 700 Oxy (up to 220l/min@450) Fuel: 41 - COMET 700 Acet (100), 44 - COMET 500 LPG (150)	- F2R, F1 SUPER, 85-10R(-LP) F2R, F1 SUPER, 85-10R(-LP) F2R, F1 SUPER, 85-10R(-LP)	5 10 5	10 20 20	F6, F/Buster F6, F2B, 85-10B F2B, 85-10B F6, F/Buster F6, F2B, 85-10B F6, F/Buster F6, F2B, 85-10B	
	306051, 306052 306031, 306032	TYPE 41 & 44 - 24, 32 (greater than 150mm plate thickness)	Oxy: COMET 700 Oxy (up to 450l/min@800) Fuel: 41 - COMET 700 Acet (150), 44 - COMET 500 LPG (150)	F2R, F1 SUPER, 85-10R(-LP)	10	10	F2B, 85-10B	
	306076	15RC	Oxy: COMET 700 Oxy (500) Fuel: 41 - COMET 700 Acet (100), 44 - COMET 500 LPG (150)	F2R, F1 SUPER, 85-10R(-LP)	10	20	F6, F/Buster F6, F2B, 85-10B	
				F2R, F1 SUPER, 85-10R(-LP)	5	20	F6, F/Buster F6, F2B, 85-10B	
	RIVET CUTTING GOUGING	306035-7, 306054-6 306038, 306033 306077	32GB, 48GB, 64GB 32GS 60DG	Oxy: TR92 Oxy (1000) COMET 700 (1000) Fuel: 41 - COMET 700 Acet (150), 44 - COMET 500 LPG (300)	F2R, F1 SUPER, 85-10R(-LP)	5	20	F6, F/Buster F6, F2B, 85-10B
		306078	15 x 51 FW	Oxy: TR92 Oxy (1000) COMET 700 (1000)	F2R, F1 SUPER, 85-10R(-LP)	10	20	F6, F/Buster F6, F2B, 85-10B
FLAME WASHING	307049 307048	75mm 175mm	Fuel: 41 - COMET 700 Acet (100), 44 - COMET 500 LPG (300)	F2R, F1 SUPER, 85-10R(-LP)	5	20	F6, F/Buster F6, F2B, 85-10B	

## Key to the chart

Flashback arrestor model, placement, hose length, hose diameter, regulator outlet pressure and application inlet pressure are interrelated. For full protection it is essential all components have adequate flow capacity when used as an inter-connected system. Operation outside the recommendations eg. smaller hose diameter, longer length of hose, no flashback arrestor or smaller than indicated flashback arrestor could lead to flame instability and tip starvation. This increases the likelihood of a flashback.

Combinations in the table above fall under two different categories:

**White Box** – Full protection is provided with both regulator mounted and blowpipe mounted flashback arrestors providing sufficient inlet pressure for the application to have optimum flow and flame stability. This should be selected wherever possible.

**Blue Box** – Only blowpipe mounted flashback arrestors can be fitted to allow sufficient inlet pressure for the application. These combinations should be used only when those highlighted white are not practical or possible. Note the level of protection will not be optimal.

The maximum recommended safe length of hose is 30M. Greater lengths than this are not recommended due to pressure drop and the operator being too far from the cylinders. This table is for hand held blowpipe applications only, not for machine cutting applications. For more detailed information consult the flow charts of the relevant flashback arrestors.