

# TESUCO

**TECHNICAL SUPPLIES COMPANY**



## Flashback Arrestors

**QUALITY GAS EQUIPMENT**

[tesuco.com.au](http://tesuco.com.au)





Our name Tesuco® comes from  
**Technical Supplies Company.**

## We Thank You For Choosing Our Quality Gas Equipment

Beginning in 1988, Tesuco® has established itself as a specialist equipment supplier for all gas welding, heating and cutting applications. Tesuco® is proud to be 100% Australian owned and has been quality endorsed by SAI Global to the AS/NZS ISO 9001 Standard since 1995.

Tesuco® continues to introduce new and exciting products from the best Australian and overseas manufacturers. This booklet introduces you to our range of flashback arrestors, available through our extensive distributor network both here and abroad.



### Tesuco Pty Ltd

Head Office	Unit 12, 110-120 Silverwater Road, Silverwater NSW 2128
Hours	Mon - Fri 8am - 5pm
Phone	+61 2 9737 9937
Sales	<a href="mailto:sales@tesuco.com.au">sales@tesuco.com.au</a>
Orders	<a href="mailto:orders@tesuco.com.au">orders@tesuco.com.au</a>
Website	<a href="http://tesuco.com.au">tesuco.com.au</a>



Only trained operators may use this equipment.



Scan QR code to view  
our complete range  
of gas equipment.

All flashback arrestors comply and meet Australian Standards - AS 4603.

Independently tested by BAM in Germany.

Fully meets the requirements outlined by Safe Work Australia, Code of Practice: Welding processes.

## Complete Range

Tesuco® stocks the largest range of flashback arrestors and gas quick couplings available in Australia. The range includes regulator end, torch end, manifold and pipeline models of differing sizes, flow-rates and functional elements.

This brochure has been designed to showcase this range and provide the information needed to match the correct arrestor with every application.



## Display Packaging

A large range of the most popular models of Tesuco® flashback arrestors are available in display packaging for retail environments so the products are clearly visible. There are single, some twin packs and a four pack.

Box product are available for those who can not display the flashback arrestors or have limited storage area.



BX



DP



All IBEDA flashback arrestors are tested prior to leaving the factory in accordance to the latest International Standards - ISO 5175-1:2017 Annex C



### THROUGH FLOW

To ensure the flow rate is right.



### REVERSE FLOW

To make sure the non-return valve is working.



### GAS TIGHTNESS

To make sure there is no gas leaks.



### FLAME TEST

Every flashback arrestor is subjected to a flashback to make sure they stop the flame.



SOLUTIONS FOR GASES





# Flashback Arrestors

## Testing

It is important that flashback arrestors continue to work to a minimum specification, as determined by the manufacturer, IBEDA, Germany. Failure to do so may actually be the cause of problems the flashback arrestor is designed to prevent from occurring. For example, a faulty non-return valve will allow the back-flow of gas to upstream equipment and an arrestor not allowing adequate through flow could be the cause of a flashback. To help prevent this, testing of flashback arrestors in service every 12 months is a requirement of AS 4603 and must be carried out on a machine built for the purpose and approved by the manufacturer. The IBEDA testing machine has been engineered to test reverse flow, through flow and the activation of the pressure sensitive cut-off valve available in resettable arrestors. The flashback arrestor models able to be tested on the IBEDA testing machine are listed on the instruction sheet; those not listed on the instruction sheet cannot be tested on the IBEDA testing machine.



### WARNING

Check with Tesuco® before testing other brands.  
Not all flashback arrestors sold in Australia have been tested independently or are production flame and leak tested.

Flashback arrestor with BAM testing to the latest international standard is proof that the IBEDA flashback arrestors have undergone independent product testing to fully comply with the highest standards. BAM certification body has certified the gas welding equipment – Safety devices and quick-action couplings to meet the requirements listed in:

ISO 5175-1:2017

"Gas welding equipment – safety devices – Part 1: Devices incorporating a flame (flashback) arrestor"

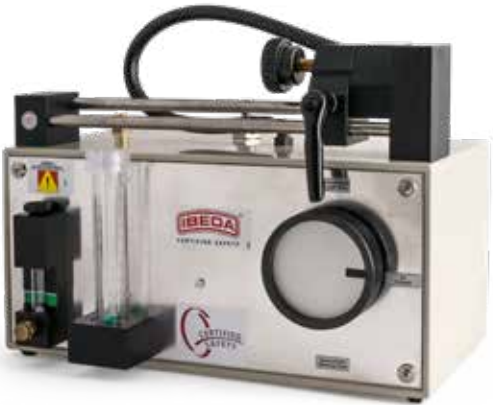
ISO 7289:2018

"Gas welding equipment – Quick-action couplings with shut-off valves for welding, cutting and allied processes."



BAM, The Federal Institute for Materials Research and Testing in Berlin, Germany.

Certification N°: BAM/ZBA/007/03



### FBA TESTING MACHINE

Model: PVGD

The flashback arrestor testing machine is fully mobile. It is small, lightweight and does not require any power. Test medium for the PVGD is oil and grease, free compressed air or nitrogen only for the machine to be fully operational. The testing machine is supplied complete with a full range of adaptors, a regulator with a 3 m hose and quick couplings.

PART NO	DESCRIPTION
FTNI	Side entry, nitrogen regulator, adaptors and test labels
FTNID	Disposable nitrogen bottle and regulator, adaptors and test labels
FTAI	Side entry, air regulator, adaptors and test labels



### FBA TESTING MACHINE TRAINING

Part No: FTTC

Training on the FBA testing machine is required and is supplied when you first purchase the PVGD from Tesuco®.

All training certificates are valid for two years, if additional training is required or the certificate is out of date, please contact Tesuco® for further information.

# Regulator End

## Welding, Brazing & Cutting Applications



### STANDARD FLOW

Model: DGN

The DGN model flashback arrestor is suitable for the majority of oxygen/fuel gas welding, brazing and cutting processes.

*Note: Other thread sizes available.*



Available in a four pack, oxygen and fuel gas, 2 torch end and 2 regulator end.  
See page 13

DF NV TV PV FA

SPECIFICATIONS	FRSFD	FRSOD	FRD	FRSF	FRSO
Gas service	Fuel Gas	Oxygen	Twin Pack FRSFD FRSOD	Fuel Gas	Oxygen
Inlet connection	5/8-18 UNF-LH Female	5/8-18 UNF-RH Female		5/8-18 UNF-LH Female	5/8-18 UNF-RH Female
Outlet Connection	5/8-18 UNF-LH Male	5/8-18 UNF-RH Male		5/8-18 UNF-LH Male	5/8-18 UNF-RH Male
Max. working pressure (kPa)	A 150 H 350 MP 500	O 2500		A 150 H 350 MP 500	O 2500
Max. airflow					
Acetylene	185 L/min @ 150 kPa				
LpG natural gas	541 L/min @ 500 kPa				
Hydrogen	358 L/min @ 350 kPa				
Oxygen	2,035 L/min @ 2,500 kPa				
Packaging	DP	DP	DP	BX	BX



### STANDARD FLOW QUICK ACTION COUPLING

Model: DGNDK-D4

The DGNDK model flashback arrestor offers all of the functionality of the DGN standard flow model, with the addition of a quick action coupling and pin. The pin connects to the hose while the flashback arrestor remains on the regulator. The hose can then be connected to the flashback arrestor via the coupling pin. This allows for quick connection and disconnection of the hose without the need for spanners. The coupling and pin meet ISO 7289:2018 and the IBEDA design ensures no leakage.

*Note: The DGNDK-D4 models are supplied with D4 5/8-18 UNF coupling pins to ISO 7289:2018 (others are available)  
Other thread sizes available.*

DF NV TV PV FA

SPECIFICATIONS	FRSFQD4D	FRSQD4D	FRQD4D	FRSFQD4	FRSQD4
Gas service	Fuel Gas	Oxygen	Twin Pack FRSFQD4D FRSQD4D	Fuel Gas	Oxygen
Inlet connection	5/8-18 UNF-LH Female	5/8-18 UNF-RH Female		5/8-18 UNF-LH Female	5/8-18 UNF-RH Female
Outlet Connection	5/8-18 UNF-LH Male	5/8-18 UNF-RH Male		5/8-18 UNF-LH Male	5/8-18 UNF-RH Male
Max. working pressure (kPa)	A 150 H 350 MP 500	O 2000		A 150 H 350 MP 500	O 2000
Max. airflow					
Acetylene	145 L/min @ 150 kPa				
LpG natural gas	401 L/min @ 500 kPa				
Hydrogen	233 L/min @ 350 kPa				
Oxygen	1,435 L/min @ 2,000 kPa				
Packaging	DP	DP	DP	BX	BX

O Oxygen A Acetylene H Hydrogen M Methane P Propane (LpG)

IBEDA instruction sheet supplied with every item.

# Regulator End

## Welding, Brazing, Cutting, Gouging & Heating Applications



DF NV TV PV FA

### HIGH FLOW

Model: DG91N

The DG91N model flashback arrestor is suitable for applications where a higher flow rate is required for the process being performed; for example, when using larger cutting, heating and gouging nozzles.

*Note: Other thread sizes available.*

SPECIFICATIONS	FRHF	FRHO	FP058	FPF58
Gas service	Fuel Gas	Oxygen	Oxygen	Fuel Gas
Inlet connection	5/8-18 UNF-LH Female	5/8-18 UNF-RH Female	G5/8" RH Female	G5/8" RH Female
Outlet Connection	5/8-18 UNF-LH Male	5/8-18 UNF-RH Male	5/8-18 UNF-RH Male	5/8-18 UNF-RH Male
Max. working pressure (kPa)	A 150 H 400 MP 500	O 2500	O 2500	A 150 H 400 MP 500
Max. airflow				
Acetylene	376 L/min @ 150 kPa			
LpG natural gas	1,003 L/min @ 500 kPa			
Hydrogen	833 L/min @ 400 kPa			
Oxygen	3,532 L/min @ 2,500 kPa			
Packaging	BX BX			



DF NV TV PV FA

### HIGH PRESSURE

Model: DG91NH

The DG91NH model flashback arrestor is designed for use where a higher fuel gas pressure than available through the standard range of flashback arrestor is required for the process.

SPECIFICATIONS	FRHH
Gas service	Fuel Gas
Inlet connection	5/8-18 UNF-LH Female
Outlet Connection	5/8-18 UNF-LH Male
Max. working pressure (kPa)	A 250 H 900 MP 1000
Max. airflow	
Acetylene	212 L/min @ 250 kPa
LpG natural gas	916 L/min @ 1,000 kPa
Hydrogen	825 L/min @ 900 kPa
Packaging	<div><div></div><div>BX</div></div>

O Oxygen A Acetylene H Hydrogen M Methane P Propane (LpG)

IBEDA instruction sheet supplied with every item.

Regulator End

Extra Protection for Pressure Wave



DF

NV

TV

PV

FA

STANDARD FLOW RESETTABLE

Welding, Brazing, Cutting, Applications

Model: DS1000

The DS1000 model flashback arrestor has all the features of the DGN model, with the addition of a resettable pressure sensitive cut-off valve. When the flashback arrestor is subjected to a pressure wave preceding a flashback, the cut-off valve is activated and stops the flow of gas. Once the equipment has been checked for faults, the device can be reset and normal operation resumed. Suitable for welding, brazing and cutting processes.

*Note: Other thread sizes available.*

SPECIFICATIONS	FRSFR	FRSOR
Gas service	Fuel Gas	Oxygen
Inlet connection	5/8-18 UNF-LH Female	5/8-18 UNF-RH Female
Outlet Connection	5/8-18 UNF-LH Male	5/8-18 UNF-RH Male
Max. working pressure (kPa)	A 150 H 3500 MP 500	O 1500
Max. airflow		
Acetylene	146 L/min @ 150 kPa	
LpG natural gas	473 L/min @ 500 kPa	
Hydrogen	233 L/min @ 400 kPa	
Oxygen	1,315 L/min @ 1,500 kPa	
Packaging	<div>BX</div>	<div>BX</div>



DF

NV

TV

PV

FA

HIGH FLOW RESETTABLE

Welding, Brazing, Cutting, Gouging & Heating Applications

Model: DS2000

The DS2000 model flashback arrestor has all of the features of the DG91N high flow model, with the addition of a resettable pressure sensitive cut-off valve. When the flashback arrestor is subjected to a pressure wave preceding a flashback, the cut-off valve is activated and stops the flow of gas. Once the equipment has been checked for faults, the device can be reset and normal operation resumed. Suitable for use with high flow applications.

*Note: Other thread sizes available.*

SPECIFICATIONS	FRHFR	FRHOR
Gas service	Fuel Gas	Oxygen
Inlet connection	5/8-18 UNF-LH Female	5/8-18 UNF-RH Female
Outlet Connection	5/8-18 UNF-LH Male	5/8-18 UNF-RH Male
Max. working pressure (kPa)	A 150 H 400 MP 500	O 1500
Max. airflow		
Acetylene	308 L/min @ 150 kPa	
LpG natural gas	810 L/min @ 500 kPa	
Hydrogen	683 L/min @ 400 kPa	
Oxygen	2,258 L/min @ 1,500 kPa	
Packaging	<div>BX</div>	<div>BX</div>

**O** Oxygen   
**A** Acetylene   
**H** Hydrogen   
**M** Methane   
**P** Propane (LpG)

IBEDA instruction sheet supplied with every item.

# Torch End

## Welding, Brazing & Cutting Applications



Available in a four pack, oxygen and fuel gas, 2 torch end and 2 regulator end.  
See page 13

### STANDARD FLOW

Model: GG

The GG model flashback arrestor is suitable for the majority of oxygen/fuel gas welding, brazing and cutting processes.

*Note: Other thread sizes available.*

SPECIFICATIONS	FTSFD	FTSOD	FTSF	FTSO	FTD
Gas service	Fuel Gas	Oxygen	Fuel Gas	Oxygen	Twin Pack FRSFD FRSOD
Inlet connection	5/8-18 UNF-LH Female	5/8-18 UNF-RH Female	5/8-18 UNF-LH Female	5/8-18 UNF-RH Female	
Outlet Connection	5/8-18 UNF-LH Male	5/8-18 UNF-RH Male	5/8-18 UNF-LH Male	5/8-18 UNF-RH Male	
Max. working pressure (kPa)	A 150 H 400 MP 500	O 2500	A 150 H 400 MP 400	O 1500	
Max. airflow	Acetylene 147 L/min @ 150 kPa LpG natural gas 380 L/min @ 500 kPa Hydrogen 350 L/min @ 350 kPa Oxygen 1,483 L/min @ 2,500 kPa				
Packaging	DP	DP	BX	BX	DP

### STANDARD FLOW

European Style

SPECIFICATIONS	FTSFH	FTSOH	FTSF3	FTSO3	FTSO4
Gas service	Fuel Gas	Oxygen	Fuel Gas	Oxygen	Oxygen
Inlet connection	5/8-18 UNF-LH Female	5/8-18 UNF-RH Female	G 3/8 LH Female	G 3/8 RH Female	G 1/4 RH Female
Outlet Connection	9/16-18 UNF-LH Male	9/16-18 UNF-RH Male	G 3/8 LH Female	G 3/8 RH Male	G 1/4 RH Male
Max. working pressure (kPa)	A 150 H 400 MP 400	O 1500	A 150 H 400 MP 400	O 1500	O 1500

DF NV TV PV FA



### STANDARD FLOW QUICK ACTION COUPLING

Model: DKSG-D1

The DKSG model flashback arrestor offers all of the functionality of the GG standard flow model, with the addition of a quick action coupling and pin. The pin connects to the blowpipe while the flashback arrestor remains on the hose. The hose with the flashback arrestor can then be connected to the blowpipe via the coupling pin. This allows for quick connection and disconnection of the hose without the need for spanners. The coupling and pin meet ISO 7289:2018 and the IBEDA design ensures no leakage.

*Note: The DKSG-D1 models are supplied with D1 5/8-18 UNF coupling pins to ISO 7289:2018 (others are available)*

SPECIFICATIONS	FTSFQD1D	FTSOQD1D	FTSFQD1	FTSOQD1	FTQD1D
Gas service	Fuel Gas	Oxygen	Fuel Gas	Oxygen	Twin Pack FTSFQD1D FTSOQD1D
Inlet connection	5/8-18 UNF-LH Female	5/8-18 UNF-RH Female	5/8-18 UNF-LH Female	5/8-18 UNF-RH Female	ISO 7289:2018 coupling pin models
Outlet Connection	5/8-18 UNF-LH Male	5/8-18 UNF-RH Male	5/8-18 UNF-LH Male	5/8-18 UNF-RH Male	
Max. working pressure (kPa)	A 150 H 400 MP 400	O 1500	A 150 H 400 MP 400	O 1500	
Packaging	DP	DP	BX	BX	DP

DF NV TV PV FA

O Oxygen A Acetylene H Hydrogen M Methane P Propane (LpG)

IBEDA instruction sheet supplied with every item.



# Torch End

Welding, Brazing, Cutting & Small Heating Applications



## MEDIUM FLOW

Model: DGU

The DGU model flashback arrestor offers a small and lighter solution for when the flow rate required is more than a standard model arrestor can provide, but less than the larger heavier high flow models.

DF NV TV PV FA

SPECIFICATIONS	FTMF	FTMO
Gas service	Fuel Gas	Oxygen
Inlet connection	5/8-18 UNF-LH Female	5/8-18 UNF-RH Female
Outlet Connection	5/8-18 UNF-LH Male	5/8-18 UNF-RH Male
Max. working pressure (kPa)	A 150 H 250 MP 500	O 2500
Max. airflow		
Acetylene	197 L/min @ 150 kPa	
LpG natural gas	543 L/min @ 500 kPa	
Hydrogen	306 L/min @ 250 kPa	
Oxygen	2,105 L/min @ 2,500 kPa	
Packaging	BX	BX



## MEDIUM FLOW QUICK ACTION COUPLING

Model: DGUDK-D1

The DGUDK model flashback arrestor offers all of the functionality of the DGN medium flow model, with the addition of a quick action coupling and pin. The pin connects to the blowpipe while the flashback arrestor remains on the hose. The hose with the flashback arrestor can then be connected to the blowpipe via the coupling pin. This allows for quick connection and disconnection of the hose without the need for spanners. The coupling and pin meet ISO 7289:2018 and the IBEDA design ensures no leakage.

*Note: The DGUDK-D1 models are supplied with D1 5/8-18 UNF coupling pins to ISO 7289:2018 (others are available).*

DF NV TV PV FA

SPECIFICATIONS	FTMFQD1	FTMQD1
Gas service	Fuel Gas	Oxygen
Inlet connection	5/8-18 UNF-LH Male	5/8-18 UNF-LH Male
Outlet Connection	5/8-18 UNF-LH Female	5/8-18 UNF-LH Female
Max. working pressure (kPa)	A 150 H 350 MP 500	O 2000
Max. airflow		
Acetylene	145 L/min @ 150 kPa	
LpG natural gas	401 L/min @ 500 kPa	
Hydrogen	233 L/min @ 350 kPa	
Oxygen	1,435 L/min @ 2,000 kPa	
Packaging	BX	BX

O Oxygen A Acetylene H Hydrogen M Methane P Propane (LpG)

IBEDA instruction sheet supplied with every item.

# Torch End

## Welding, Brazing, Cutting, Gouging & Heating Applications



### HIGH FLOW

Model: DG91UA

The DG91UA model flashback arrestor is suitable for applications where a higher flow rate is required for the process being performed; for example, when using larger cutting, heating and gouging. Special off-set outlet design ensures the DG91UA can be fitted to a standard cutting torch or blowpipe.

SPECIFICATIONS	FTHFD	FTHOD	FTHF	FTHO
Gas service	Fuel Gas	Oxygen	Fuel Gas	Oxygen
Inlet connection	5/8-18 UNF-LH Female	5/8-18 UNF-RH Female	5/8-18 UNF-LH Female	5/8-18 UNF-RH Female
Outlet Connection	5/8-18 UNF-LH Male	5/8-18 UNF-RH Male	5/8-18 UNF-LH Male	5/8-18 UNF-RH Male
Max. working pressure (kPa)	A 150 H 400 MP 500	O 2500	A 150 H 400 MP 500	O 2500
Max. airflow				
Acetylene	376 L/min @ 150 kPa			
LpG natural gas	1,003 L/min @ 500 kPa			
Hydrogen	833 L/min @ 400 kPa			
Oxygen	3,532 L/min @ 2,500 kPa			
Packaging	DP	DP	BX	BX

### HIGH FLOW

European Style

SPECIFICATIONS	FTHFH	FTHOH
Gas service	Fuel Gas	Oxygen
Inlet connection	5/8-18 UNF-LH Female	9/16-18 UNF-RH Female
Outlet Connection	5/8-18 UNF-LH Male	9/16-18 UNF-RH Male
Max. working pressure (kPa)	A 150 H 400 MP 400	O 2500

DF NV TV PV FA



### SPECIAL FLASHBACK ARRESTORS

Other models are available depending on material or flow rates. These include stainless steel flashback arrestors. Contact Tesuco® for further information.

O Oxygen A Acetylene H Hydrogen M Methane P Propane (LpG)

IBEDA instruction sheet supplied with every item.

# Flashback Arrestors

## Inline



### STANDARD FLOW QUICK ACTION COUPLING

Model: DKSG-D4

The DKSG model flashback arrestor offers all of the functionality of the GG standard flow model, with the addition of a quick action coupling and pin. This model has a male pine so that lengths of hoses can be coupled together to safely achieve longer hose lengths when required. The coupling and pin meets ISO 7289:2018 and the IBEDA design ensures no leakage.

*Note: The DKSG-D4 models are supplied with D4 5/8-18 UNF coupling pins to ISO 7289:2018 (others are available)*

DF NV TV PV FA

SPECIFICATIONS	FISFQD4	FISOQD4
Gas service	Fuel Gas	Oxygen
Inlet connection	5/8-18 UNF-LH Male	5/8-18 UNF-RH Male
Outlet Connection	5/8-18 UNF-LH Male	5/8-18 UNF-RH Male
Max. working pressure (kPa)	A 150 H 350 MP 400	O 2000
Max. airflow		
Acetylene	241 L/min @ 150 kPa	
LpG natural gas	241 L/min @ 400 kPa	
Hydrogen	230 L/min @ 350 kPa	
Oxygen	1,256 L/min @ 2,000 kPa	
Packaging	BX	BX



### FLASHBACK ARRESTOR DEMONSTRATION MACHINE

The flashback arrestor demonstration machine is fully mobile. It is small, lightweight and does not require any power. A supply of oxygen and acetylene gas is all that is required for the machine to be fully operational. The demonstration machine is designed to safely replicate and demonstrate a flashback and shows how the flashback arrestor stops the flame. It can also demonstrate how the thermal cut off valve works. It is supplied complete with quick connect couplings and replacement thermal cutoff valves.

PART NO	DESCRIPTION
FD	Demonstration machine complete DMFL
FDT	Thermal cutoff valve (1pce) for demonstration machine



The training included in the purchase of a demonstration machine covers the Sydney and Melbourne metropolitan areas. Training is available in other areas for a fee, contact us for details.

O Oxygen A Acetylene H Hydrogen M Methane P Propane (LpG)

IBEDA instruction sheet supplied with every item.



# Flashback Arrestors

## Manifold & Pipeline

SCAN HERE



Fuel Gas Installations with multiple work stations require manifold arrestors designed for high flow applications. They feature varying numbers of standard or high flow arrestors in parallel and have various size adapters available for fitting to most applications.

### DEMAX FUEL GAS

DEMAX manifold flashback arrestors feature five standard flow flashback arrestors in parallel. They are available with a number of different inlet and outlet connections to suit various sizes of pipework.

Contains 5 x FMD Standard Flow Flashback Arrestors



SPECIFICATIONS	FMD5F1
Gas service	Fuel Gas
Inlet connection	G 1" RH Female
Outlet Connection	G 1" RH Female
Max. working pressure (kPa)	A 150 H 300 MP 500

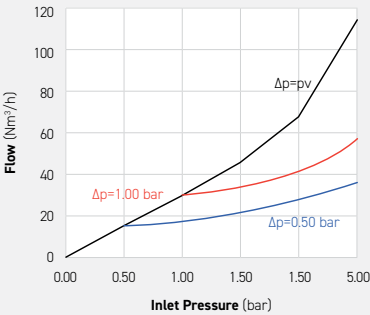
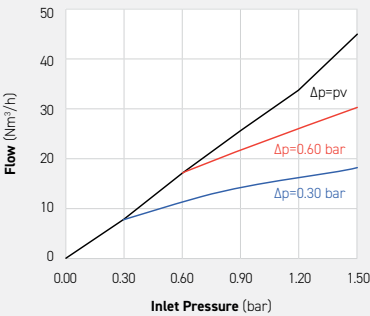
DF NV TV PV FA



SPECIFICATIONS	FMD5F2
Gas service	Fuel Gas
Inlet connection	G 1/2" LH Female
Outlet Connection	G 1/2" LH Male
Max. working pressure (kPa)	A 150 H 300 MP 500



SPECIFICATIONS	FMD5F3
Gas service	Fuel Gas
Inlet connection	G 3/8" LH Female
Outlet Connection	G 3/8" LH Male
Max. working pressure (kPa)	A 150 H 400 MP 500



**Flow Rates**  
pv = Primary pressure  
ph = Secondary pressure  
p = Primary pressure minus secondary pressure

**Conversion Factors**  
0.1 MPa = 1 bar = 100 kPa = 14,504 psi  
1 m³/h = 35.31 cu ft/h

# Flashback Arrestors

## Manifold & Pipeline

### DEMAX OXYGEN

Oxygen Installations with multiple work stations require manifold arrestors designed for high flow applications. They feature varying numbers of standard or high flow arrestors in parallel and have various size adapters available for fitting to most applications.

Contains 5 x FMD Standard Flow Flashback Arrestors



SPECIFICATIONS	FMD501
Gas service	Oxygen
Inlet connection	G 1" RH Female
Outlet Connection	G 1" RH Female
Max. working pressure (kPa)	O 1500

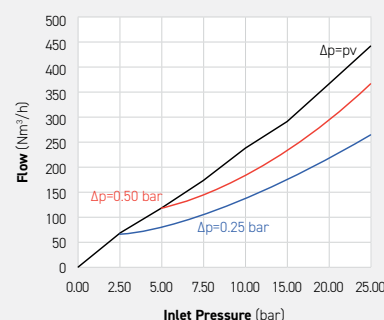
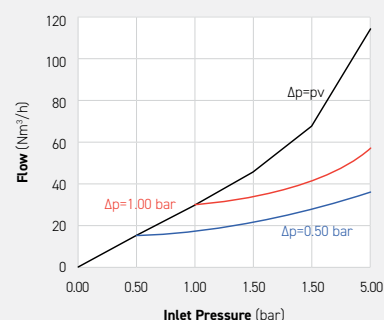
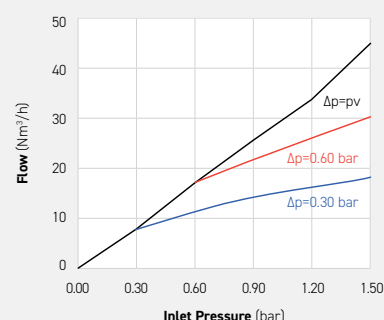
DF NV TV PV FA



SPECIFICATIONS	FMD502
Gas service	Oxygen
Inlet connection	G 1/2" RH Female
Outlet Connection	G 1/2" RH Male
Max. working pressure (kPa)	O 1500



SPECIFICATIONS	FMD503
Gas service	Oxygen
Inlet connection	G 3/8" RH Female
Outlet Connection	G 3/8" RH Male
Max. working pressure (kPa)	O 1500



**Flow Rates**  
 pv = Primary pressure  
 ph = Secondary pressure  
 p = Primary pressure minus secondary pressure

**Conversion Factors**  
 0.1 MPa = 1 bar = 100 kPa = 14,504 psi  
 1 m³/h = 35.31 cu ft/h

# Flashback Arrestors

## Manifold & Pipeline

### DEMAX-5N TECHNICAL DATA

Gas types	Acetylene (A)	Hydrogen Industrial gas (H) (C)	Natural gas (Methane) Propane (M) (P)	Oxygen (O)	Compressed air (D)
Working pressure	0.15 MPa 1.5 bar	0.30 MPa 3.0 bar	0.50 MPa 5.0 bar	2.5 MPa 25 bar	2.5 MPa 25 bar
Cracking pressure	50 to 70 mbar position-independent				
Gas temperature	-20°C up to +70°C ( Oxygen -20°C up to +60°C)				
Ambient temperature	-20°C up to +70°C				
Connection	Maximum connectable inner tube/hose Ø 25 mm				
Threads EN 560 ISO/TR 28821	G3/8 LH G1/2 LH G3/4 LH G1 LH G1 RH-F <sup>3)</sup> UNF 9/16-18 LH 1NPT-F <sup>3)</sup>		G3/8 RH G1/2 RH G3/4 RH G1 RH G1 RH-F <sup>3)</sup> UNF 9/16-18 RH 1NPT-F <sup>3)</sup>		
Diameter	64 mm				
Length DEMAX G 1 RH DEMAX G 3/8 LH DEMAX G 1/2 LH	111 mm 142 mm 150 mm				
Weight DEMAX G 1 RH DEMAX G 3/8 LH DEMAX G 1/2 LH	1270 g 1370 g 1420 g				
Welding	Up to 30 mm				
Cutting	> 700 mm				
Heating	> 100 mm				



# Flashback Arrestors

## Manifold & Pipeline

SCAN HERE



### SIMAX FUEL GAS

Part No: FMS5F

SIMAX manifold flashback arrestors feature 3, 5 or 8 high flow flashback arrestors in parallel. They are available in G 1" RH inlets and a number of different inlet and outlet connections to suit various sizes of pipework connections are available.



Adaptors available  
See page 15 & 16

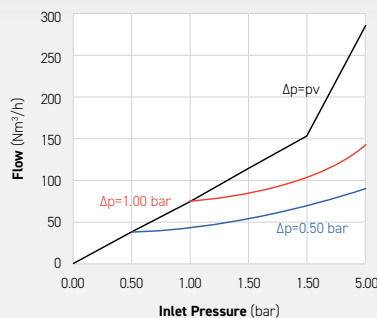
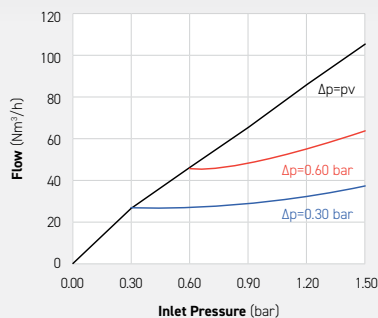


#### SPECIFICATIONS

#### FMS5F

Gas service	Fuel Gas
Inlet connection	G 1" RH Female
Outlet Connection	G 1" RH Female
Max. working pressure (kPa)	A 150 MP 500

DF NV TV PV FA



#### Flow Rates

pv = Primary pressure  
ph = Secondary pressure  
p = Primary pressure minus secondary pressure

#### Conversion Factors

0.1 MPa = 1 bar  
= 100 kPa  
= 14,504 psi  
1 m³/h = 35.31 cu ft/h



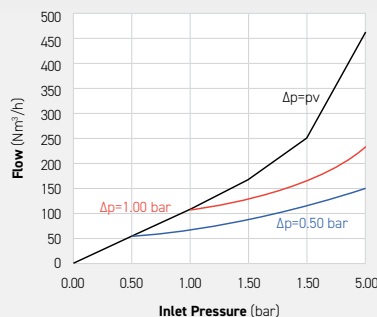
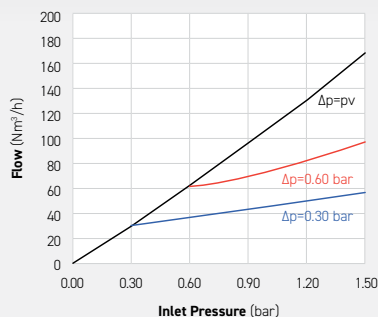
### SIMAX FUEL GAS

Part No: FMS8F

#### SPECIFICATIONS

#### FMS8F

Gas service	Fuel Gas
Inlet connection	G 1" RH Female
Outlet Connection	G 1" RH Female
Max. working pressure (kPa)	A 150 MP 500



#### Flow Rates

pv = Primary pressure  
ph = Secondary pressure  
p = Primary pressure minus secondary pressure

#### Conversion Factors

0.1 MPa = 1 bar  
= 100 kPa  
= 14,504 psi  
1 m³/h = 35.31 cu ft/h

# Flashback Arrestors

## Manifold & Pipeline



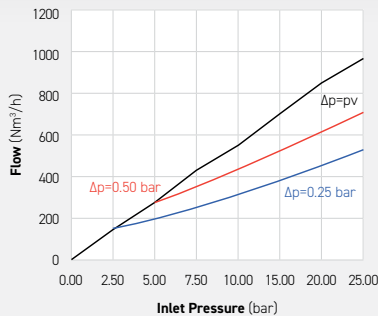
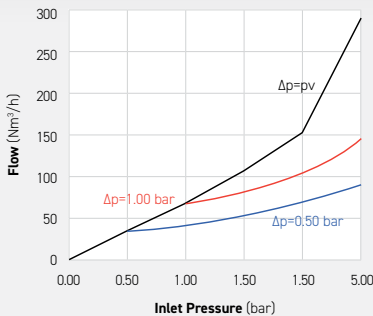
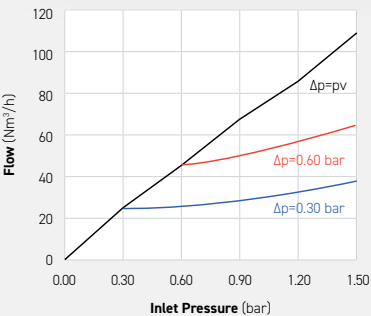
### SIMAX OXYGEN

Part No: FMS50

Contains 5 x FMS High Flow Flashback Arrestors

SPECIFICATIONS	FMS50
Gas service	Oxygen
Inlet connection	G 1" RH Female
Outlet Connection	G 1" RH Female
Max. working pressure (kPa)	0 2500

DF NV TV PV FA



**Flow Rates**  
pv = Primary pressure  
ph = Secondary pressure  
p = Primary pressure minus  
secondary pressure

**Conversion Factors**  
0.1 MPa = 1 bar  
= 100 kPa  
= 14,504 psi  
1 m³/h = 35.31 cu ft/h

### SIMAX-5N TECHINCAL DATA

Gas types	Acetylene (A)	Hydrogen Industrial gas (H) (C)	Natural gas (Methane) Propane (M) (P)	Oxygen (O)	Compressed air (D)
Working pressure	0.15 MPa 1.5 bar	0.30 MPa 3.0 bar	0.50 MPa 5.0 bar	2.5 MPa 25 bar	2.5 MPa 25 bar
Cracking pressure	50 mbar position-independent				
Gas temperature	-20°C up to +70°C ( Oxygen -20°C up to +60°C)				
Ambient temperature	-20°C up to +70°C				
Connection	Maximum connectible inner tube/hose Ø 25 mm				
Threads EN 560 ISO/TR 28821	G 1" RH Female				
Diameter	90.0 mm				
Length	163.0 mm				
Weight	3916.0 g				
Welding	Up to 30 mm				
Cutting	> 700 mm				
Heating	> 100 mm				

Note: Other thread sizes are available, see pages 15 and 16

# Flashback Arrestors

## Manifold & Pipeline

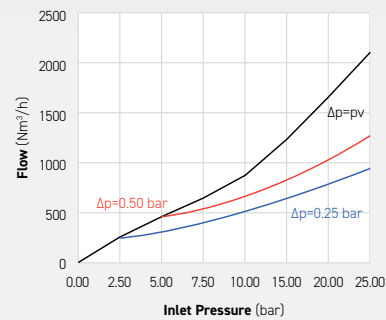
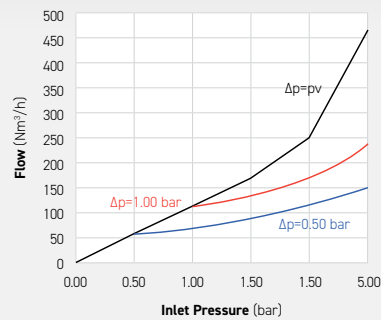
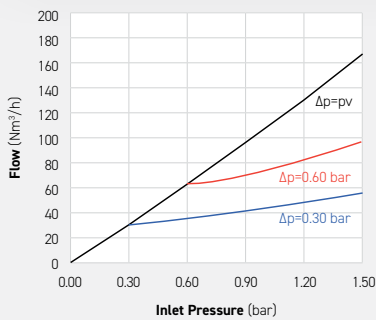


### SIMAX OXYGEN

Part No: FMS80

Contains 8 x FMS High Flow Flashback Arrestors

SPECIFICATIONS	FMS80
Gas service	Oxygen
Inlet connection	G 1" RH Female
Outlet Connection	G 1" RH Female
Max. working pressure (kPa)	0 2500



**Flow Rates**  
 pv = Primary pressure  
 ph = Secondary pressure  
 p = Primary pressure minus secondary pressure

**Conversion Factors**  
 0.1 MPa = 1 bar  
 = 100 kPa  
 = 14,504 psi  
 1 m³/h = 35.31 cu ft/h

### SIMAX-8N TECHNICAL DATA








Gas types	Acetylene (A)	Hydrogen (H) Industrial gas (C)	Natural gas (Methane) (M) Propane (P)	Oxygen (O)	Compressed air (D)
Working pressure	0.15 MPa 1.5 bar	0.30 MPa 3.0 bar	0.50 MPa 5.0 bar	2.5 MPa 25 bar	2.5 MPa 25 bar
Cracking pressure	50 mbar position-independent				
Gas temperature	-20°C up to +70°C ( Oxygen -20°C up to +60°C)				
Ambient temperature	-20°C up to +70°C				
Connection	Maximum connectible inner tube/hose Ø 25 mm				
Threads EN 560 ISO/TR 28821	G 1" RH Female				
Diameter	127.0 mm				
Length	174.0 mm				
Weight	Approx. 9110.0 g				
Welding	Up to 30 mm				
Cutting	> 700 mm				
Heating	> 100 mm				

Note: Other thread sizes are available, see pages 15 and 16



# Flashback Arrestors

## Manifold & Pipeline Accessories

	PART NO	DESCRIPTION
	CAF12M1	Connecting Adaptor G1/2" Female - G1" Male
	CAF34M1	Connecting Adaptor G3/4" Female - G1" Male
	CAF38M1	Connecting Adaptor G3/8" Female - G1" Male
	CAF78M1	Connecting Adaptor G7/8" Female - G1" Male
	CAM12M1	Connecting Adaptor G1/2" Male - G1" Male
	CAM1M1	Connecting Adaptor G1" Male - G1" Male
	CAM34M1	Connecting Adaptor G3/4" Male - G1" Male

# Flashback Arrestors

## Manifold & Pipeline Accessories

	PART NO	DESCRIPTION
	CAM58M1	Connecting Adaptor G5/8" Male - G1" Male
	CAM78M1	Connecting Adaptor G7/8" Male - G1" Male
	FMD	Flashback Arrestor Replacement For Demax Flashback Arrestor
	FMD0	O-Ring For Demax Flashback Arrestor
	FMS	Flashback Arrestor Replacement For Simax Flashback Arrestor
	FMS0	O-Ring For Simax Flashback Arrestor
	FMS0D	O-Ring For Simax Body

# Flashback Arrestors

## Manifold & Pipeline



FPF11



FPF1F1S



FP058

Pipeline flashback arrestors are safety devices with a range of inlet and outlet connections, designed for easy fitments into a pipeline system.

*Note: Other thread sizes available upon request.*

PART NO	GAS SERVICE	FINISH	INLET CONNECTION	OUTLET CONNECTION	MAX. WORKING PRESSURE (kPa)
FPF3	Fuel Gas	Brass	G 3/8" LH Female	G 3/8" LH Male	A 150 H 400 MP 500
FP03	Oxygen	Brass	G 3/8" RH Female	G 3/8" RH Male	O 2500
FPF2	Fuel Gas	Brass	G 1/2" LH Female	G 1/2" LH Male	A 150 H 400 MP 500
FP02	Oxygen	Brass	G 1/2" RH Female	G 1/2" RH Male	O 2500
FPF5	Fuel Gas	Brass	G 5/8" LH Female	G 5/8" LH Male	A 150 H 400 MP 500
FP05	Oxygen	Brass	G 5/8" RH Female	G 5/8" RH Male	O 2500
FPF11	Fuel Gas	Brass	1/4" NPT-RH Male	1/4" NPT-RH Male	A 150 H 400 MP 500
FP011	Oxygen	Brass	1/4" NPT-RH Male	1/4" NPT-RH Male	O 2500
FPF1F1S	Fuel Gas	Stainless Steel	1/4" NPT-RH Female	1/4" NPT-RH Male	A 250 H 1000 MP 1000
FP01F1S	Oxygen	Stainless Steel	1/4" NPT-RH Female	1/4" NPT-RH Male	O 2500
FPF3H	Fuel Gas	Brass	G 3/8" LH Female	G 3/8" LH Male	A 150 H 400 MP 500
FP058	Oxygen	Brass	G 5/8" RH Female	5/8 UNF-RH Male	O 2500
FPF58	Fuel Gas	Brass	G 5/8" RH Female	5/8 UNF-RH Male	A 150 H 400 MP 500

DF NV TV PV FA

O Oxygen A Acetylene H Hydrogen M Methane P Propane (LpG)

IBEDA instruction sheet supplied with every item.



# Flashback Arrestors

## Coupling Pins



### FEMALE THREADED

Model: D1

*Note: Other thread sizes available upon request.*

PART NO	GAS SERVICE	DESCRIPTION
QPFD5	Fuel Gas	5/8-18 UNF-LH
QPOD5	Oxygen	5/8-18 UNF-RH



### MALE THREADED

Model: D4

*Note: Other thread sizes available upon request.*

PART NO	GAS SERVICE	DESCRIPTION
QPFDM5	Fuel Gas	5/8-18 UNF-LH
QPDM5	Oxygen	5/8-18 UNF-RH



### HOSE BARB

Model: D2

*Note: Other thread sizes available upon request.*

PART NO	GAS SERVICE	DESCRIPTION
QPFDT5	Fuel Gas	5 mm Tail
QPODT5	Oxygen	5 mm Tail
QPFDT1	Fuel Gas	10 mm Tail
QPODT1	Oxygen	10 mm Tail



### HOSE CLIP

PART NO	DESCRIPTION
GWC5	5 mm ID Hose
<input type="checkbox"/> DP GWC5D	5 mm ID Hose (pack of 10)
GWC10	10 mm ID Hose



### CRIMPING TOOL

Part No: A2100

The crimping tool is specifically designed for use with the GWC5 clips to secure the hose barb once inserted into the ends of the hose. The tool is robust and easy to use and makes this a very simple fixing method.

☐ DP

# Flashback Arrestors

## Multi-Pack



### QUAD PACK

Part No: FSD

DP

The Quad pack contains one each of the standard flow oxygen and fuel gas torch end flashback arrestors and one each of the standard flow oxygen and fuel gas regulator end flashback arrestors in display packaging.

Comprises one of each of the following.

PART NO	DESCRIPTION	
FRSF	Fuel Gas, Standard flow, Regulator end	DF NV TV PV FA
FRSO	Oxygen, Standard flow, Regulator end	DF NV TV PV FA
FTSF	Fuel Gas, Standard flow, Torch end	DF NV TV PV FA
FTSO	Oxygen, Standard flow, Torch end	DF NV TV PV FA



### GAS CONTROL

Gas Control is a technologically advanced gas leakage detection spray, designed to test the hermetic sealing of any type of gas system. The liquid has a special formulation to inhibit corrosion when used on copper, brass and steel. The liquid, when applied will detect the slightest leak, forming bubbles or foam where it occurs.

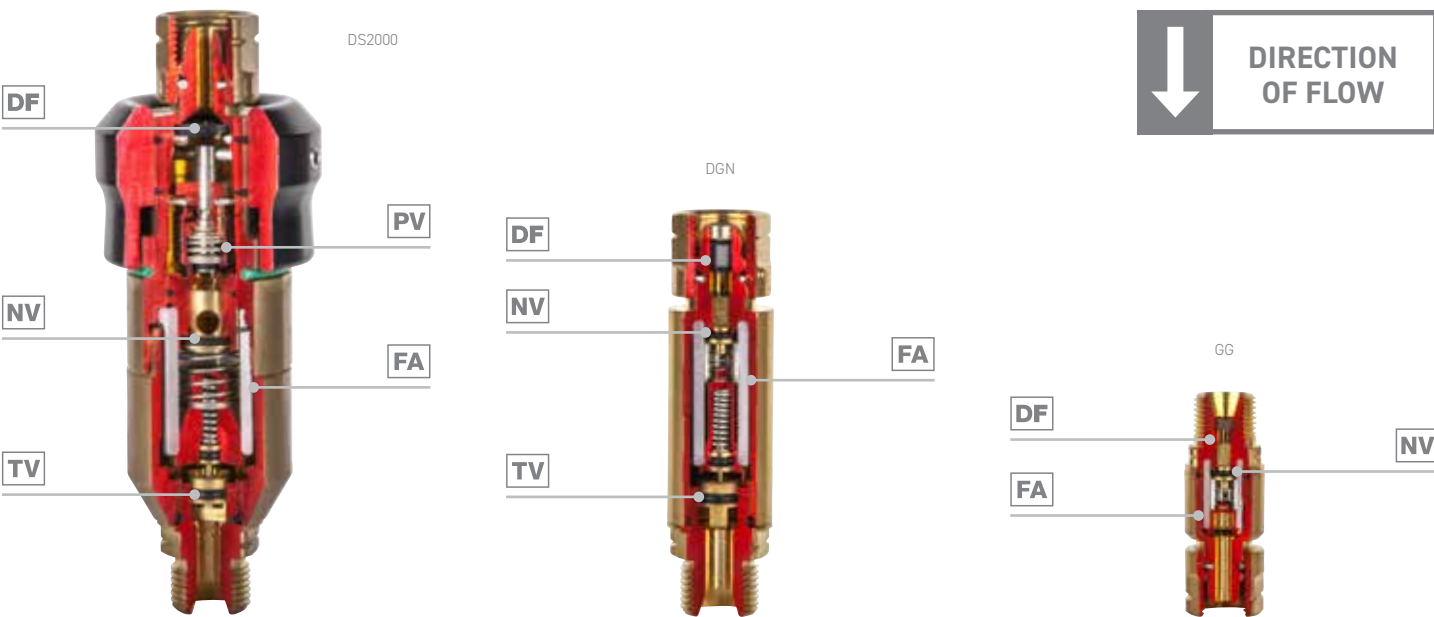
#### FEATURES

- Sold to distributors in a display pack of 12 units
- Aerosol with easy to use Acc-U-Sol valve
- Aluminum container
- Safety tear-off tab
- Small extension tube supplied for accurate application
- Approved by DVGW to DIN EN 14291

SPECIFICATIONS	OTLDS
Contents	400 g
Dimensions (mm)	
Product only	(H) 215 x (Ø) 66
Carton of 12	(H) 225 x (W) 270 x (D) 205
Classification	UN 1950, aerosols, class 2.2

# Flashback Arrestors

## Safety Features



**DF**

### Dust Filter

Protects the integrity of the non-return valve and prevents clogging of the sintered filter.

**PV**

### Pressure Cut off Valve

Stops the flow of gas in the event the mechanism is tripped by the pressure wave preceding a flashback.

**TV**

### Thermal Cut off Valve

Stops the flow of gas in the event the mechanism is activated by sustained backfire.

**NV**

### Gas Non-Return Valve

Stops the back flow of gas to upstream equipment.

**FA**

### Sintered Filter

Stops the propagation of a flashback by quenching the heat.

### Packaging Type

**DP**

Display Pack

**BX**

Boxed



### FLASHBACK ARRESTOR CUT-AWAYS

Tesuco® have available a variety of cut-away flashback arrestors, which are used to show the features of the different types of flashback arrestors in the range. These items are often used in our training programs and are an invaluable tool in demonstrating the ingenuity and engineering found inside every IBEDA flashback arrestor.

PART NO	DESCRIPTION
FCT	Standard flow, Torch end
FCR	Standard flow, Regulator end
FCRQ	Standard flow, Regulator end, Quick action coupling
FCRH	High flow, Regulator end



Registered Trademarks

Tesuco®

Bevline®

Leakxpose®

Flame///Pro®

Flame Pro™

**FLAME**  **PRO**

 <b>TESUCO</b> <b>TECHNICAL SUPPLIES COMPANY</b>	<b>HOSPITALITY</b>
	<b>GAS SAFETY</b>
	<b>INDUSTRIAL</b>
	<b>SCIENTIFIC</b>
	<b>MEDICAL</b>

Phone +61 2 9737 9937  
Email [sales@tesuco.com.au](mailto:sales@tesuco.com.au)  
Website [tesuco.com.au](http://tesuco.com.au)

The information in this brochure is to be used as a guide only.  
The ultimate responsibility for safe use of the equipment lies with the operator. In the interest of constant improvement in quality and design, product specifications may change at any time, without notice. E&OE

DISTRIBUTED BY

