

# Instructions for Use

## Firesafe™ Nozzle



### Intended Use

The Firesafe™ Nozzle is a thermal fuse designed to stop the flow of oxygen in the event that the downstream PVC tube is ignited. In doing so, the fire in the PVC tube is inclined to extinguish because PVC will not normally burn in air. The Firesafe™ Nozzle is fitted directly to the outlet of each oxygen delivery device, typically an oxygen flowmeter or the outlet of an oxygen concentrator. Several models of Firesafe™ Nozzle are available to suit different types of connection.



Style	Bayonet	Threaded	DISS – 9/16" UNF
Part Number	827-0011	827-0021	827-0031

### Device Specification

Maximum Flow	25 l/min	
Typical Resistance to Flow <sup>(1)</sup>	1 kPa at 2 l/min	(1) Typical performance of the DISS version, other figures available on request.
	2 kPa at 5 l/min	
	16 kPa at 15 l/min	
Maximum Static Operating Pressure <sup>(2)</sup>	1000 kPa	(2) Likely upstream system pressure following activation of a Firesafe™ Nozzle
Maximum Internal Leak <sup>(3)</sup>	10 ml/min	(3) Leak through the Firesafe™ Nozzle after full activation. Full activation may not occur at oxygen flow rates of less than 0.7 l/min; consequently, the internal leak rate may exceed the maximum value under very low flow conditions.
Maximum External Leak <sup>(4)</sup>	5 ml/min	(4) Leak from the Firesafe™ Nozzle body after full activation.
Operating Temperature	0°C to 50°C (32°F to 122°F)	
Transport and Storage Temperature	-20°C to 60°C (-4°F to 140°F)	

### Warnings!

- Read through this entire manual before installing this Firesafe™ Nozzle. As with all medical equipment, attempting to use or install this device without a thorough understanding of its operation and limitations may result in patient or user injury.
- Oxygen is not flammable but the presence of oxygen will drastically increase the rate and severity of combustion. Oil and/or grease in the presence of oxygen become highly combustible. Do not use oil or grease on this device. In particular, do not lubricate the seals or hose barb connector.
- Never administer oxygen or undertake oxygen therapy while smoking or when near an open flame.

### Cautions!

- Do not install this device near an open flame or near a source of excessive heat that is likely to exceed 50°C (122°F).
- The performance of this device cannot be guaranteed when used at flow rates outside of those given in the device specification.
- This device offers a resistance to flow; consider the impact of this impedance on the system when installing the device.



No smoking



Use no oil



Attention, consult accompanying documents



Consult Instructions for Use



CE Marked to Medical Device Directive 93/42/EEC modified by directive 2007/47/EC



Manufacturer

## Fitting Instructions

1. Remove the existing connector from the flowmeter or oxygen concentrator outlet and replace with an equivalent Firesafe™ Nozzle in accordance with the manufacturer's instructions for use.
2. Once installed, check that gas flows through the Firesafe™ Nozzle and there are no obvious leaks.
3. A DISS Firesafe™ Nozzle can be tightened in one of 2 ways: 1) by hand to allow easy removal or, 2) to ensure it cannot be removed by hand, should be installed and removed using an appropriate tool (Example: 802-0017 Firesafe™ Torque Wrench). See note below.

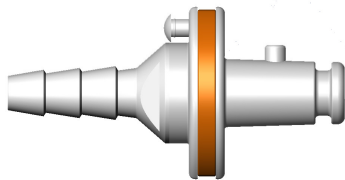
### Specific Note for DISS Models (when fitting to an Oxygen Concentrator)

The DISS model (827-0032) pictured below should be fitted to a DISS outlet (CGA V-5-2005, connection 1240). They can be tightened to a torque of between 1.5 and 2.0 Nm, to ensure that the nozzle can only be detached by the operator and only with the use of a tool. This being in accordance with ISO 8359 Oxygen concentrators for medical use -- Safety requirements, sub clause 56.12, additional requirements for fire mitigation (proposed).

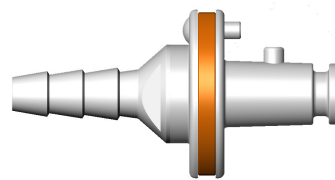


### Specific Note for Bayonet Models

The bayonet model 827-0011 pictured below has an integrated locking pin that, once fitted, prevents the fitting from being easily removed from the flowmeter. To fit, push the locking pin back towards the barb tip. Fit the Firesafe™ Nozzle to the flowmeter and then snap the locking pin back into place.



Pin Out



Pin In

## Cleaning

Clean the exterior surfaces of the device using an alcohol or disinfectant wipe. Do not immerse the device in any fluid or allow fluid to enter the device. Always clean the device before moving it between flowmeters.

## Maintenance and Disposal

The Firesafe™ Nozzle is maintenance free and has an intended life of 8 years.

Dispose of any Firesafe™ Nozzle 8 years after the manufacturing date stated on the device label.

Once activated, the FireSafe™ Nozzle cannot be reset and should be discarded.

The date of manufacture of a Firesafe™ Nozzle may be derived from the second line of the batch code, which is printed in the format yyyy-mm.