

## Technical Information

### Compliance within surveyors inspections for Flash back arrestors

Unimarine welding equipment and especially *Regulators* and *Flash back arrestors* are according to UI , EN and ISO standards and are covered by the surveyors requirement during inspections on board of our clients needs.

In the next pages you will find all necessary documentation and information needed and should be recorded with vessels technical files.

#### H288-ULB Series Flash back arrestors



#### CERTIFICATIONS :

UL listed

Conform with EN 730-1 and ISO 5175-1

For any questions please do not hesitate to contact us:



Email: [info@unimarine-services.com](mailto:info@unimarine-services.com)  
[jgeorgiou@unimarine-services.com](mailto:jgeorgiou@unimarine-services.com)



[www.uniclean-services.com](http://www.uniclean-services.com)  
[www.unimarine-services.com](http://www.unimarine-services.com)



Unimarine services Group.  
Uniclean Chemical & Gases Ltd.



Tel: +00357 25331054  
24/7 d: 00357 99833991

## Technical Information

### Features :

Non-return Valve [NV]	Max. working pressure :	OX : 10 bar (140 psi)
Flame Arrestor [FA]		15 bar (218 psi)
Dust filter [DF]		AC : 1.5 bar (22 psi)
HB288 for Regulator		LPG : 3.5 bar (50 psi)

### Specification :

Model	Gas	Max. Flow (l/h)	Inlet	Outlet
HB288-R	Oxygen	7000	9/16"-18 RH	9/16"-18 RH
HB288-L	Fuel Gas	2600	9/16"-18 LH	9/16"-18 LH
HB288-AR	Oxygen	7000	5/8"-18 RH	5/8"-18 RH
HB288-AL	Fuel Gas	2600	5/8"-18 LH	5/8"-18 LH
HB288-RB	Oxygen	7000	M16x1.5 RH	M16x1.5 RH
HB288-LB	Fuel Gas	2600	M16x1.5 LH	M16x1.5 LH
HB288-RGB	Oxygen	7000	G 3/8 RH	G 3/8 RH
HB288-LGB	Fuel Gas	2600	G 3/8 LH	G 3/8 LH
HB288-RA	Oxygen	7000	G 1/4 RH	G 1/4 RH
HB288-LA	Fuel Gas	2600	G 1/4 LH	G 1/4 L

## Technical Information

The date of manufacturing is engraved on the bottom of the body of Flash back arrestor.

We strongly recommend that a replacement takes place after 5 years of production date or earlier if leak test is failed or corrosion starts appearing .

We recommend to avoid maintenance of flash back arrestors for safety reasons but if necessary only authorized personnel should proceed.

Cost for replacement with Unimarine saves client cost and always secure safety on board.

All technical instructions are attached in case needed.



# IOXYGEN®

MORRIS PRECISION TECHNOLOGY CO., LTD.

No.7-1 Kung Yeh Rd., Kuan Tien Ind. Dist. Tainan City, Taiwan 72042  
 886-6-6991119 886-6-6991239 iosales@ioxygen.com



Rev.	PART No.	BY	DATE
02	31AJ6111-H288 Flashback Arrestor Manual	Pearl	2020/08/05
CONFIRMATION (SIGNATURE)			DATE

## 31AJ6111 (H288 Flashback Arrestor Manual)



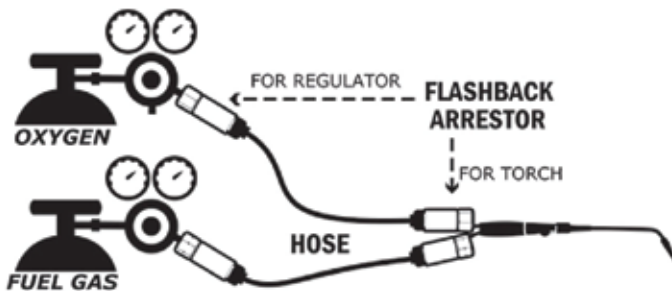
### FLASHBACK ARRESTOR INSTRUCTION MANUAL

**⚠ Please read this instruction manual carefully before using and keep it for further reference.**

#### ■ TECHNICAL DATA

GAS TYPES	OXYGEN	ACETYLENE	FUEL GAS
<b>WORKING PRESSURE</b>	10 bar / 145 psi / 1000 kPa	1.5 bar / 22 psi / 150 kPa	3.5 bar / 50 psi / 350 kPa
<b>AMBIENT / WORKING TEMPERATURE</b>	-20 °C ~ 70 °C		

#### ■ INSTALLATION PRECAUTIONS



- All connections must be cleaned and free of dust, oil, and grease.
- Follow the gas and flow direction to install the device.
- The device can only be used by qualified technicians.
- Once the device is mounted, all connections have to be tested for leakage and tightened with wrenches.

#### ⚠ WARNING

Please check the goods before installation to ensure there is no damage, it is dangerous to use defective parts.

#### ■ PURPOSE

The flashback arrestor is used for enhancing workplace and users' personal safety.

#### ■ FUNCTION



#### ⚠ WARNING

The device is not allowed to be disassembled, modified, and repaired without manufacturer's approval.

#### ■ TROUBLESHOOTING

- **No gas flow**  
Check flow direction, working pressure, gas source, and all connections.
- **Leakage**  
Replace the device immediately.
- **Connection tightness**  
Tighten with wrenches and replace it if necessary.
- **External damage**  
Replace the device immediately.

#### ■ MAINTENANCE

- The device should be tested for gas tightness and leakage at least every six months by qualified technicians.
- The dust filter should be cleaned or exchanged if necessary.

## Technical Information

### Flash back arrestors

Flash back arrestors for reliable protection against dangerous reverse gas flow and flash backs according to:

**DIN EN ISO 5175-1 / DIN EN ISO 5175-2**



For the main system of OX/AC, the model of W66S flash back arrestors, the attached technical literature has all information concerning Unit itself – shelf life (5 years) and maintenance details.

The certification of flashback arrestor is also attached and is according to requested inspections by surveyors as per UL 1357 testing procedures.

If any additional info required the connected website is available (mentioned on certificate of compliance).

# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20181212-MH45582  
**Report Reference** MH45582-20090422  
**Issue Date** 2018-DECEMBER-12

**Issued to:** Morris Precision Technology Co Ltd  
7-1 Kung Yeh Rd  
Kuan Tien Industrial District  
Tainan, 72042 Taiwan

**This certificate confirms that representative samples of**

Oxygen-Fuel Gas Combination Flash Arrester and Back-Pressure Check Valves

Combination Flashback Arrester and Back Pressure Check Valve, Types: H188-R, H288-R, H188-L, H288-L, H188-LPG and H288-LPG.

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

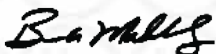
**Standard(s) for Safety:** UL 1357, Outline for Oxygen-Fuel Gas Combination Flash Arrester and Backpressure Check Valves

**Additional Information:** See the UL Online Certifications Directory at <https://iq.ulprospector.com> for additional information.

This *Certificate of Compliance* does not provide authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.



Bruce Mahrenholz, Director North American Certification Program

UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>

