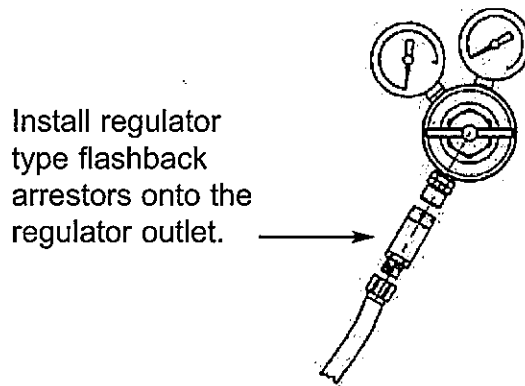




Regulator and Torch Flash Arrestor Installation Guide

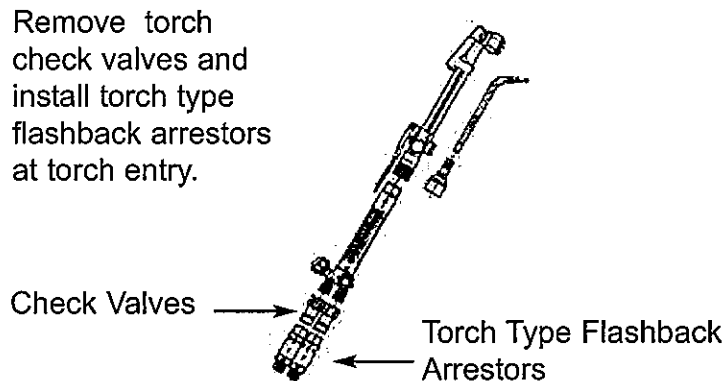
Your new outfit may include a set of Harris flashback arrestors or you may have purchased them as an accessory item. Please follow these recommendations:

Install regulator type flashback arrestors as shown below. It is not necessary to remove reverse flow check valves installed on the torch handle.



Install regulator
type flashback
arrestors onto the
regulator outlet.

Remove the torch reverse flow check valves before installing the torch type flashback arrestor. The Harris flashback arrestors incorporate a reverse flow check valve and a flame arresting unit in one device.



Remove torch
check valves and
install torch type
flashback arrestors
at torch entry.

Check Valves

Torch Type Flashback
Arrestors

P/N: 9500378 Rev. 12/06

The Harris Products Group, Inc. A Lincoln Electric Company. Gainesville, GA
1-800-241-0804 M-F 8AM - 8PM EST.

HARRIS CALORIFIC FLASHGUARD® flash arrestors are listed by Underwriter Laboratories to UL 23Y5 and meet the requirements of safety standards EN730 and ISO 5175 Class. Each HARRIS CALORIFIC FLASHGUARD®™ flash arrestor contains a sintered stainless steel element that extinguishes the flame of a flash back and a reverse flow check valve. HARRIS CALORIFIC FLASHGUARD® flash arrestors may be installed on many types of oxygen/fuel gas apparatus such as torches, regulators and other associated equipment.

⚠ **CAUTION** Select the proper flash arrestor to maintain the flow requirement of the equipment being used. It may be necessary to increase the manufacturer's recommended operating pressure to achieve the recommended flow rate (refer to the flow specification chart shown at right).

⚠ **WARNING** Before use, read and follow these instructions carefully or serious injury could result. If you do not understand any part of these instructions contact Harris Technical Service (1-800-241-0804). Save the instructions for future use.

Installation and Operating Instructions

1. All connections must be clean and free of damage, oil, grease and other unapproved lubricants.
2. Use only for the gas and flow direction indicated on the flash arrestor. Do NOT connect the arrestor directly to any other pressure sources (e.g. gas cylinders at 200 bar). The arrestor should be fitted using 2 open-ended wrenches.
3. Do NOT exceed the maximum operating pressure marked on the flash arrestor.
4. Select the flow rate of the flash arrestor to meet the requirement recommended by the equipment manufacturer.
5. Do NOT use more than one piece of equipment with each flash arrestor.
6. After installation, purge system and test all connections and equipment for leakage with an oxygen compatible leak test solution at maximum working pressure for the appropriate gas shown on the arrestor.
7. Compressed Air controlled valves are not allowed to be used in oxygen systems.
8. All flashback arrestors should be checked at least once every six months for flow and proper operation by a qualified repair technician.
9. Additional marking, stamping or engraving on the arrestor by the user is strictly forbidden, as this can cause damage.

⚠ **CAUTION** Do NOT attempt to repair flash arrestor. There are no user repairable parts. Repeated backfires may cause build up on the sintered metal element. This may cause a flow restriction greater than specified in the Flow Specifications Chart. If this condition exists, replace the flash arrestor. DO NOT ATTEMPT TO REPAIR IT!

Welding and cutting equipment should be used and maintained as recommended by the manufacturer. HARRIS CALORIFIC FLASHGUARD® flashback arrestors offer an added degree of safety when welding and cutting equipment is inadvertently misused. For more information on safe practice, see ANSI Z49.1 "Safety in Welding and Cutting," available from:

American National Standards Institute
1430 Broadway
New York, New York 10018,
U. S. A.

- or -

American Welding Society
Box 351040
550 NW Le Jeune Road
Miami, Florida 33126, U. S. A.

HARRIS CALORIFIC Division, Lincoln Electric Company, 2345 Murphy Blvd., Gainesville, Georgia, 30504.

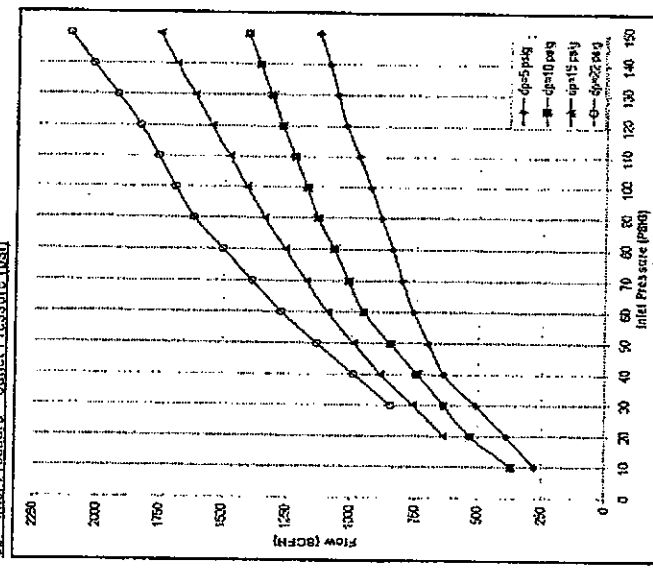
Product Made in Germany Printed in Germany Packaged in the U. S. A.

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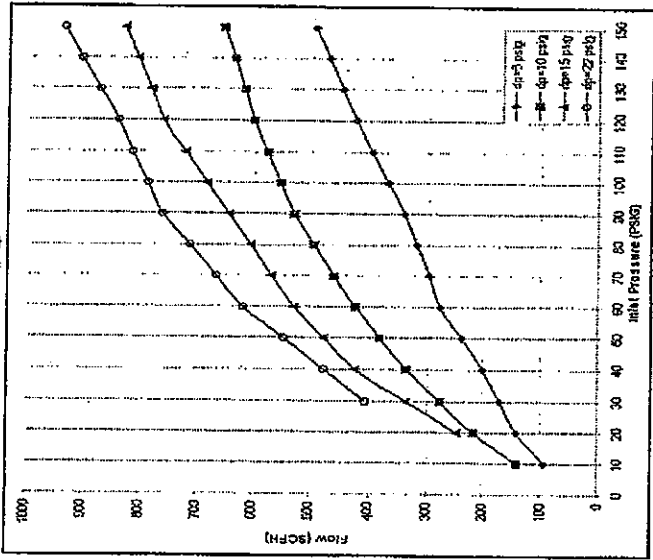


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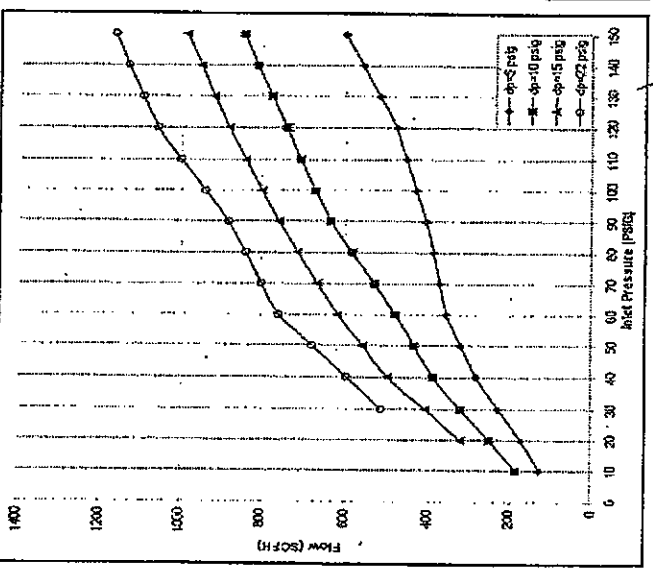
d Airflow Specification Chart Model
 dp = Inlet Pressure - outlet Pressure (psi) 88-5FBTR: 88-5FBTL 88-5FBHFR: 88-5FBHFR



s, Airflow Specification Chart Model
 dp = Inlet Pressure - outlet Pressure (psi) 88-5FBRR: 88-5FBRL 88-5FBHFR: 88-5FBHFR



s, Airflow Specification Chart Model
 dp = Inlet Pressure - outlet Pressure (psi) 88-5FBRR: 88-5FBRL 88-5FBHFR: 88-5FBHFR



Gas	Acetylene	Butane	Hydrogen	Mapp Gas	Methane	Oxygen	Propane
Con. Factor	1,05	0,70	3,79	0,82	1,34	0,95	0,80