Dry safety device Signal Indication Type

GOLD ARRESTOR-MKseries

APOLLO FLASHBACK ARRESTOR

MODEL/GA-2MK FOR FUEL GAS
MODEL/GA-1MK FOR OXYGEN

■Standard specifications

Model	GA-2MK	GA-1MK
Gas name	General acetylene LPG, LNG, and ethylene gases	Oxygen
Maximum allowable working pressure	0.01～0.13Mpa (0.1～1.3fkg/cm²)	0.1～0.9Mpa (0.1～9.0fkg/cm²)
Maximum stream flow	3,000NL/H	25,000NL/H
Connection form	Variety of connection form is available. Please specify required thread standard at your order placement.	
Total length	72mm	72mm
Weight	210g	120g
Reset return	Signal indication (red) and pin lock one-touch reset method.	
Abnormal temperature cut-off	When the temperature exceeds 95℃, the gas is interrupted.	

※The MK series has passed all of the seven performance tests (structural test, resisting pressure strength test, shock resistant test, back fire test, cut-off test, backflow test and air tightness test) that are specified in the Guide for Dry Circuit Breakers for Gas Welding/Cutting Operation stipulated by the Ministry of Labor Industrial Safety Institute, Technical Guide (RIIS-TR-8901).

※Fuel gas such as acetylene can be used at a pressure that does not exceed the maximum allowable working pressure indicated by the specifications, but hydrogen and corrosive gases cannot be used.

Caution

●For the safe use of this product, be sure to use it properly after thoroughly reading the manual.

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Specifications shown here in are subject to change without notice

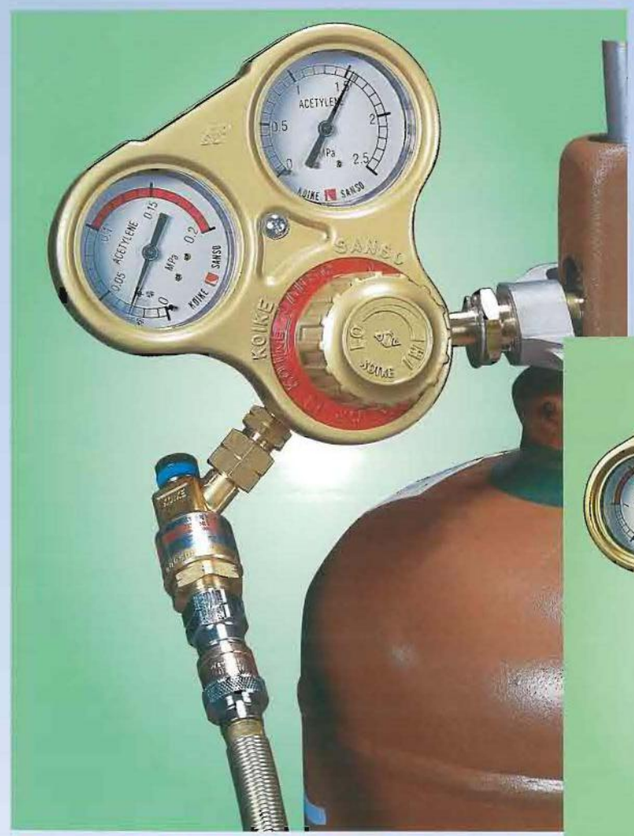
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- ●Signal display
- ●One-touch reset method
- ●Comes with product liability insurance
- ●Conforms to the Japan N.I.I.S. Standards No.IKYOU1516
- ●Patent No. 2879315

Designed, Manufactured and Tested based on ISO 5175.

Temperature activated cut-off valve

The dry circuit breaker of built-in thermal detector cut off valve is set to activate an emergency stop the moment the internal temperature exceeds 95℃.

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KOIKE SANSO KOGYO CO., LTD.

Dry safety device Signal Indication Type

GOLD ARRESTOR-MK series

APOLLO FLASHBACK ARRESTOR

MODEL/GA-2MK FOR FUEL GAS
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Four colors are used to distinguish the year the product was manufactured in.



This MK series also has a dry thermal detection circuit breaker equipped with a thermal detection cutoff valve. In addition to the built-in non-flashback and non-return valve mechanism, it features a double safety function that detects an abnormal rise in temperature and interrupt the supply of gas, even in the event of a gas leak.

■Mechanism of the Apollo Gold Arrester MK type

1. Non-flashback and non-return valve mechanism

●When a back fire is generated, the flame is extinguished with the extinguishing filter, and at the same time the cutoff valve is pushed by the back fire pressure, cutting off the supply of gas. When this happens, the cutoff valve is locked in this position.

2. Backflow prevention mechanism

●When only the gas flows backward, the check valve is activated and the backflow of gas is obstructed. In addition, when the backflow pressure rises abnormally, the check valve and the moving cutoff valve operate, and the supply of gas is cut off.

3. Gas supply interception mechanism (prevents secondary accidents)

●The cutoff valve in the main body operates from the shock waves that are generated by abnormal pressure expansion during the backflow and back fire, and the supply of gas is cut off, so the danger of re-combustion is eliminated.

4. Reset mechanism

●In the case of actuation due to a back fire, the lock pin is ejected, then a red signal is displayed

●To use again after localizing and eliminating the cause of the back fire, you can reset (recover) by pushing down the slide ring and then by pushing in the lock pin.

5. Temperature activated cut-off valve

●When the internal temperature (95℃) has abnormally risen, the temperature detection breaker works to cut off the supply of gas, so the danger of re-combustion is eliminated.

●Since the operation of this cut-off valve cannot be reset, be sure to replace it immediately.

■Installation of the Flashback Arrestors

●Fitted onto the outlet port of the pressure regulator of a gas cylinder.

●Fitted at the tapping outlet of any low pressure piping.

■Care and Maintenance

●The user must perform an independent inspection at least once a year.

●In addition, re-inspection by the manufacturer is necessary after 3 years, so please contact them regarding re-inspection.

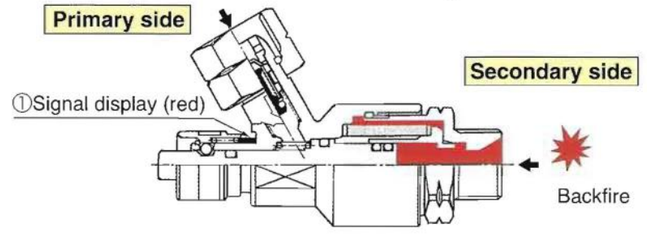
●The MK series is divided into different colors to distinguish the year the product was manufactured. Please take note of the color differentiation during your regular inspection.

■Apollo Gold arrester GA-1MK (for oxygen) Recommendations for installation

Structure and operation chart

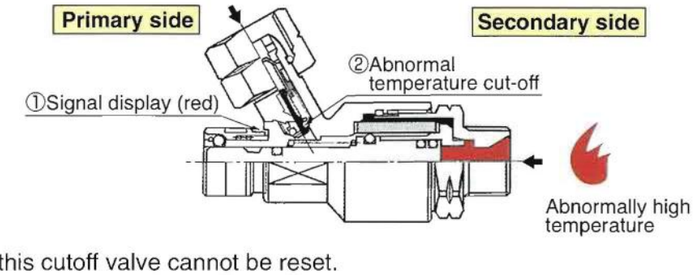
1. Back fire operation

●The user must perform an independent check



At the time of the backfire, the cutoff valve is pushed; then, the lock pin is pushed out and locked. To reset, press down the lock pin and then pull it back.

2. Operation when combustion occurs due to gas leakage



The operation of this cutoff valve cannot be reset.