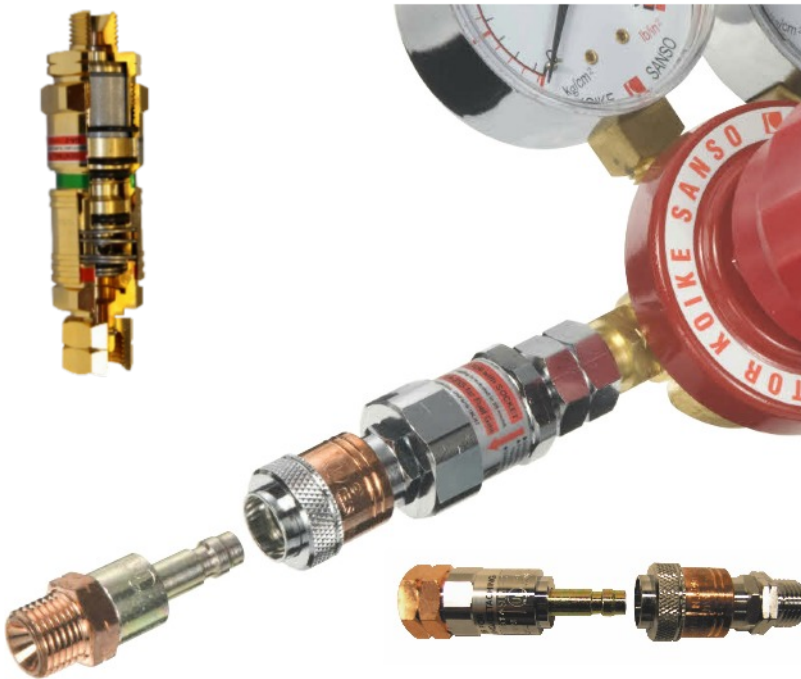


FLASHBACK ARRESTORS

Flashback Arrestors & Direct Couplings



Flashback Arrestors

Koike Aronson offers a vast amount of gas apparatus to compliment any of your genuine Koike cutting systems. To keep you tools working safe and efficiently, flashback arrestors are highly recommended with our combination of flashback qualities paired with a dual motion interlocking system, Koike's apparatus stands out from the rest. Save time on changing out tools with the smoothest uncoupling motion in the industry. All Koike gas apparatus couplings are fully compliant with ULs' safety guidelines and are rigorously tested under laboratory and field conditions to withstand the abuse and harsh elements of common industrial use. When using genuine Koike cutting tips and gas apparatus, all torches are guaranteed for life from a sustained flashback.

Features & Benefits

- **Excellent Reverse - Flow Prevention**
High quality reverse -flow valve helps to prevent the possibility of gases mixing; when a backfire occurs it shuts off pressure to the torch.
- **Reverse Disconnect**
Prevents coupler from accidentally releasing. Will not come apart with a straight pull as required by OSHA standard No. 1915.55 (F)(5).
- **Tight Sealing**
Two unique seal pickings provided between plug and socket assures tight sealing.
- **UL Listed**



KOIKE ARONSON, INC. / RANSOME

SENTINEL PLUS

| SPECIFICATIONS | GA1 | GA2 |
|-------------------|--|---|
| Type of Gas | Oxygen | Acetylene, Ethylene, LNG, LPG, Hydrogen, & other common welding and cutting gases |
| Maximum Pressure | 1.0-9.0 kgf/cm ² | 0.1-1.3 kgf/cm ² |
| Maximum Flow Rate | 25,000 nl/h 882ft ³ /h | 4,000 nl/h 141ft ³ /h |
| Connecting Form | Regulator Fitting, internal STD "B" UNF 9/16-18 (R.H.T.) | Regulator Fitting, internal STD "B" UNF 9/16-18 (L.H.T.) |
| Total Length | 3.9 in (98.5mm) | 3.9 in (98.5mm) |
| Weight | .49 lb (224g) | .49 lb (224g) |
| Methodology | Indicator type (red), Ball lock type, Signal-action reset type | |

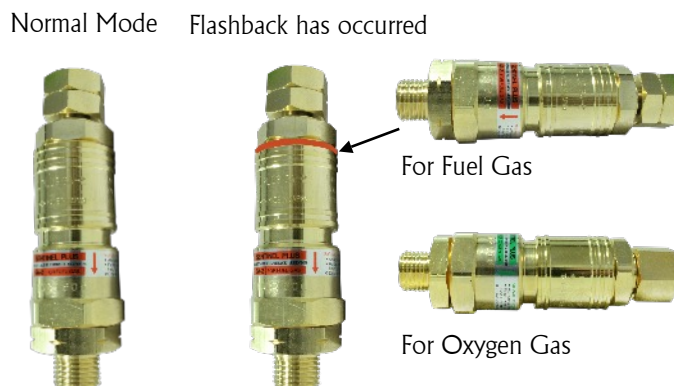
| MODELS | DESCRIPTIONS |
|--|--------------|
| Sentinel Plus Flashback Arrestor (Regulator side) | |
| GA1 Oxygen | ZA3232950 |
| GA2 Fuel Gas | ZA3232992 |
| Set of GA1 and GA2 | SPFASET |

Additional Features of Sentinel Plus

Flashback Arrestor

In the case of a flashback, flames are diffused through anti-flash elements. The heat energy is absorbed and the flame will be extinguished.

Operation Modes



Back-flow Prevention

In order to prevent backfire, a preventive valve is installed for preventing gas counter-flow. This assures that the gases will not mix.

Gas Supply Interrupt

Prevention of secondary accidents. In the case of impact waves due to abnormal pressures from backfire or back-flow, valves located at a primary stage terminate gas supply to prevent danger.

Re-settable Indicator

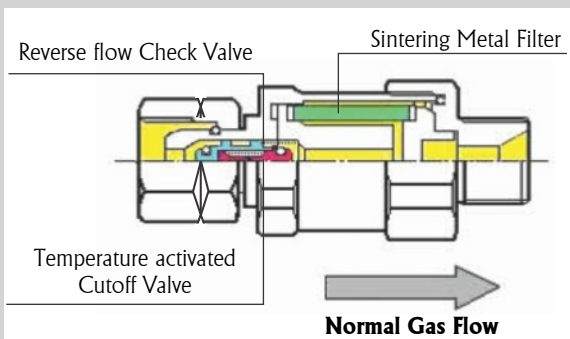
Red indicator displays when flashback occurs. When red indicator is displayed, a simple single-action operation resets the unit.

SILVER ARRESTOR Z-SET

| SPECIFICATIONS | | |
|---------------------------|--|--|
| MODEL | SILVER -Z OXY SET | SILVER -Z FUEL SET |
| Part# | SIC13081 | SIC13082 |
| Gas | Oxygen | Acetylene, Ethylene, LNG, LPG, Hydrogen |
| Operating Pressure | 14.5 ~ 130.5 lb/in ² (0.1 ~ 0.9 Mpa) | 1.45 ~ 18.85/in ² (0.001 ~ 0.13 Mpa) |
| Max Flow Rate | 882.8 ft ³ (25,000NL/H) | 105.9ft ³ (3,000NL/H) |
| Primary Side | UNF 9/16 - 18 RHT (CGA-022) | UNF 9/16-18 LHT (CGA-023) |
| Secondary Side | No. 13 hose side plug | No. 14 hose side plug |
| Length | 3 1/4" (83mm) | 3 1/4" (83mm) |
| Weight | ≈ 15.6 oz (160g) | ≈ 15.6 oz (160g) |
| Check Valve | Reverse gas flow protection | |
| Arrestor Filter | Sintering metal filter creates a cool down below ignition temperature. Prevents re-ignition on inlet side. | |
| Temperature Cut Off Valve | If temperature exceeds 203°F (95°C) the supply of gas is stopped by a non-reusable valve. | |

Additional Features of Silver Arrestor Z-Set

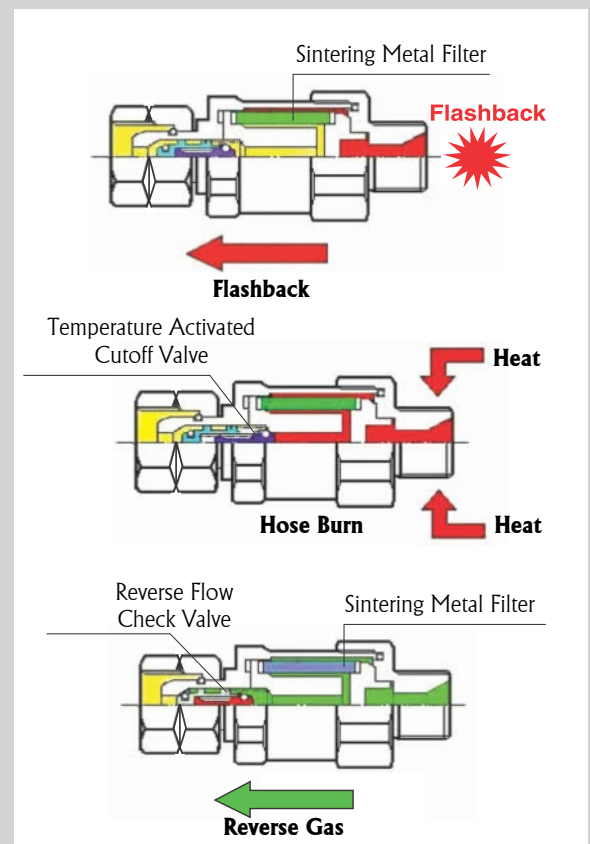
- Check Valve**
 Reverse gas flow prevention valve.
- Flashback Arrestor Filter**
 Sintered metal creates a cool down below ignition temperature.
- Thermal Cut-off**
 Thermal detector activates at 203°F (95°C).
- Gas Hose Coupler**
 Sentinel quick release allows quick connecting and disconnecting of hoses.
- Auto Gas Shut-off**
 Automatic shut off of gases on both the plug and socket side when plug is removed. Prevents gas release from hoses and gas supply side.
- Gas Manifold Use**
 Prevents dangerous gas leaks and waste at connections. Meets OSHA Standard 29 CFR 1910.253(e).
- Coupler and Flashback Arrestor**
 The unique combination of flashback arrestor and coupler protects the end user from flashback arrestors and allows quick assembly and removal of the torch from the gas hoses.



The **sintering metal filter** cools the flame down to below the ignition temperature.

The **temperature activated cutoff valve** is activated thermally to close at the moment the internal temperature exceeds 203°F (95°C).

The **check valve** prevents the reverse gas flow from the distribution line or single cylinder. This check valve will not allow gases to mix.



SUPER SENTINEL

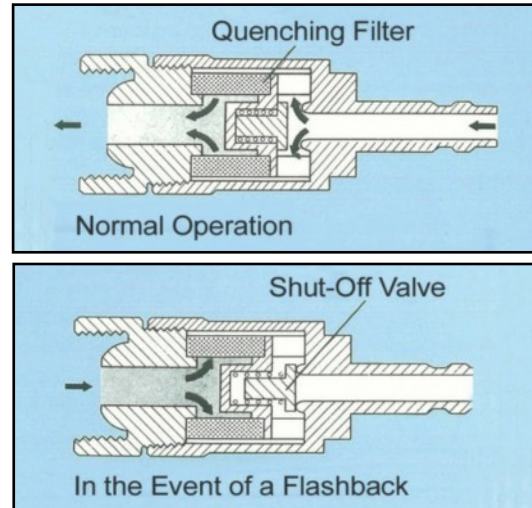
| SPECIFICATIONS | |
|---|--|
| Maximum Flow Rate For Fuel Gas For Oxygen Normal | 1 Nm ³ /h, Pressure loss 0.2 kg/cm ² (2.8 psig) 10 Nm ³ /h, Pressure loss 2 kg/cm ² (28 psig) up to size 4 cutting tip |
| Installation | Direct coupling to cutting/welding torch |
| Working Pressure For Fuel Gas For Oxygen | 0.8 kg/cm ² (11.2 psig) or less 9 kg/cm ² (128 psig) or less (normal operation pressure is indicted) |
| Applicable Gas For Fuel Gas For Oxygen | Acetylene or LPG |

| MODEL DESCRIPTIONS | |
|---|-----------|
| ZOSP-1 (LT) & ZOSP-2 (LT) Set (complete locking type Arrestor set) | ZA3232190 |
| ZOSP 1 #1 Socket & #20 Plug (arrestor set for oxygen) | ZA3232270 |
| ZOSP 2 #2 Socket & #21 Plug (arrestor set for fuel) | ZA3232290 |
| ZOP-1A #20 Plug (arrestor only oxygen torch side) | ZA3232272 |
| ZOP-2A #21 Plug (arrestor only fuel torch side) | ZA3232292 |

Additional Features of Super Sentinel

- Easy Coupling to Sentinel**
 Upgrade your existing Sentinel Safety-Z set to the Super Sentinel by simply changing the plug side of the WZO set.
- Safer Plugs and Sockets**
 Each connector is color coded for quick connections to oxygen and fuel lines, while the specially designed fittings prevent reversing the gas lines during setup.
- Chrome Plated Finish**
 Durable chrome plating provides corrosion resistance and ensures smooth coupling.
- Coupler and Flashback Arrestor**
 The unique combination of flashback arrestor and coupler protects the end user from flashback arrestors and allows quick assembly and removal of the torch from the gas hoses.

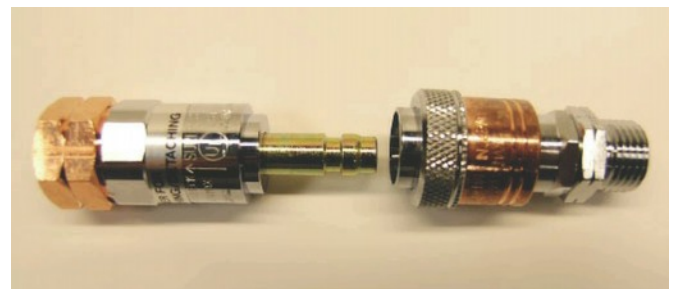
SCHEMATIC DIAGRAM OF THE SUPER SENTINEL



It is recommended to use the Super Sentinel in series with the Sentinel Plus on gas supply.

Maintenance and Inspection


It is important to follow all instructions for use of the product. Inspect and maintain the unit after each backfire or flashback has occurred and follow maintenance procedures described in the included product manual.



Note: This product is in compliance with OSHA Standard No. 1915.55 (F) (5)



Koike Techno Center Products


Koike Aronson Inc.
 P.O. Box 307, Arcade, New York 14009
 Phone (585) 492-2400 Fax (585) 457-3517
www.koike.com



FLASHBACK ARRESTORS 08/17 KENG