

SG6537, SG6547 Series

Flashback Arrestors for Regulators and Point of Supply

The SG6537 and SG6547 Series Flashback Arrestors are designed to provide protection against flashback of fuel gas or oxygen. The SG6537 Series is constructed of brass and the SG6547 Series is constructed of Type 316L Stainless Steel. These arrestors are compact in design and provide the following safety elements when used in a delivery system: 100 micron filtration, reverse flow check valve, flame barrier and thermal cut-off valve.

The SG6537 and SG6547 Series arrestors are commonly installed downstream of regulators and on supply lines. They are listed by Underwriter Laboratories to U/L 23Y5 and can be used to help meet ANSI Z49.1.1999, OSHA and NFPA safety requirements.

Standard Features

- 100 Micron Stainless Steel Inlet Filter helps prevent contaminants from blocking check valve and provides extended service life.
- Check Valve prevents hazardous back flow of gas into regulator or supply line.
- Flame Barrier extinguishes flashback within housing and prevents flame from reaching gas supply.
- Thermal Cut-Off Valve positively shuts off gas flow in the event of downstream fire reaching the arrestor.

Specifications

Approvals/Specifications: ISO 5175, BS 6158, EN 730 (BAM/DIN), AS 4603
 Maximum Service Pressure: 285 psig
 For U/L 23Y5 Std. Limits: See Table II
 Operating Temp Range: -20° to 140°F
 Flow Capacity: See Table I
 Inlet Connection: ¼" NPT female
 Outlet Connection:
 SG6537: ¼" NPT female
 SG6547: ¼" NPT male
 Dimensions:
 SG6537: 7/8" Max OD x 3 5/8" long
 SG6547: 1 1/4" Max OD x 3 7/8" long
 Approximate Weight:
 SG6537: 6 oz.
 SG6547: 12 oz.



Materials of Construction

Body: See Table II
 Seat and Seals:
 SG6537 Series: Neoprene
 SG6547 Series: Viton® (other elastomers available on special order)
 Other Metal Parts Exposed to Gas:
 Stainless Steel

Table I, Air Flow Capacity

Inlet Pressure (psig)	Pressure Drop (psig)	Air Flow (scfh)	
		SG6537	SG6547
10	5	130	250
20	10	250	500
30	15	400	750
50	22	660	1100
100	22	950	1700

Table II, Part Number and U/L 23Y5 Standard Pressure Limits

Part No.	Body Material	Gas Service	Working Pressure (psig)
SG6537-F	Brass	Acetylene	15
		Hydrogen	50
		LPG	50
SG6537-O	Brass	Oxygen	145
SG6547-F	Type 316L SS	Acetylene	15
		Hydrogen	50
		LPG	50
SG6547-O	Type 316L SS	Oxygen	145