




KILLARK®

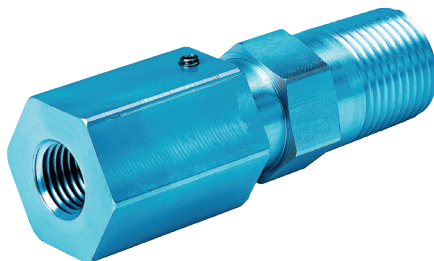
INSTALLATION, OPERATION & MAINTENANCE DATA SHEET

FOR USE IN CLASS I, GROUPS B,C,D, CLASS II, GRPS E,F,G; CLASS III, HAZARDOUS (CLASSIFIED) LOCATIONS

Flame Arrestors For use in Explosive Atmospheres

KB1FA25, KB1FAM16: IECEX: Ex d IIC T3 Gb IP66__ ATEX:  IIGD Ex d IIC T3 Gb Ex tb IIIC IP66

KBM20FA25, KBM20FAM16: IECEX: Ex d IIC T3 Gb IP65__ ATEX:  IIGD Ex d IIC T3 Gb Ex tb IIIC IP65



FLAME ARRESTORS FOR USE IN EXPLOSIVE ATMOSPHERES

CAUTION:

Before installing, make sure you are compliant with area classifications, failure to do so may result in bodily injury, death and property damage. Do not attempt installation until you are familiar with the following procedures. All installation must comply with the applicable Electrical Code.

Make sure that the circuit is de-energized before starting installation or maintenance.

Verify that the installation is grounded. Failure to ground will create electrical shock hazards, which can cause serious injury and or death.

IMPORTANT:

Please read these instructions carefully before installing or maintaining this equipment. Good electrical practices should be followed at all times and this data should be used as a guide only.

Technical information, advice and recommendations contained in these documents is based upon information that Killark believes to be reliable. All the information and advice contained in these documents is intended for use only by persons having been trained and possessing the requisite skill and know-how and to be used by such persons only at their own discretion and risk. The nature of these instructions is informative only and does not cover all of the details, variations or combinations in which this equipment may be used, its storage, delivery, installation, check out, safe operation and maintenance. Since conditions of use of the product are outside of the care, custody and control of Killark, the purchaser should determine the suitability of the product for his intended use, and assumes all risk and liability whatsoever in connection therewith.

KILLARK®



3940 Dr. Martin Luther King Drive
St. Louis, MO 63113

P/N 00921368 FORM NO. K1368 10/10 ERO I-005-10

1. SPECIAL CONDITIONS FOR SAFE USE

Do not use this product in explosive atmospheres containing acetylene gas.

For use in enclosures with maximum internal volume of **9,764** cubic in; (**160,000** cubic cm)

2. APPLICATION

For use in Hazardous Locations where gas analyzers and electro/pneumatic/hydraulic equipments are installed within an explosion proof enclosure. The flame arrestors provide through-the-wall connections for NPT and Metric style threads.

Pressure Drop and Flow Rate Chart

Primary Pressure	Secondary Pressure	SCFH
5 psi	3 psi	60
10 psi	7 psi	80
15 psi	11 psi	95
25 psi	19 psi	110
50 psi	40 psi	160
75 psi	62 psi	192

3. PREPARATION FOR INSTALLATION

1. For thru-wall connection of **1/2-14 NPT**, gauge the opening from flush to 2 turn pass the notch.
2. For thru-wall connection of **M20x1.5 6g**, gauge the opening with GO and NO-GO gauges for proper fit.

4. OPERATING TEMPERATURE

KB1/KBM20 series operating temperature: (-50° to +60°C).

Thread designation for Connections

Series	Thru-wall connection	Tube connection
KB1FA25	1/2-14 NPT	1/4-18 NPT
KB1FAM16	1/2-14 NPT	M16x1.5 6g
KBM20FA25	M20x1.5 6g	1/4-18 NPT
KBM20FAM16	M20x1.5 6g	M16x1.5 6g

Material Suffix:

Aluminium: (blank)

Stainless 303: SS

Stainless 316: SS6

Ni plated Brass: BS



4. INSTALLATION AND MAINTENANCE

Before installing, apply lubricant (such as Killark's LUBG-6 thread lubricant) to the threads. Install fitting in the proper threaded opening and wrench tighten.

DO NOT use wrench or socket on the end hex-nut for removal; use the mid section hex-body.

If the pressure drop or flow rate is not reasonably within the above data, the flame arrester element within the unit has been partially clogged with fluid contaminant. To function properly the flame arrester must be replaced.



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