



KDB/KB SERIES

DRAINS / BREATHERS / FLAME ARRESTORS



KDB-1



KB1B



KB1D

ATEX/IEC Ex Certified

① See chart below for suitability

② Warning – not for use in acetylene atmosphere

Class I, Div. 1 & 2, Groups B^①, C, D
 Class I, Zones 1 & 2, Groups IIB + H₂^①
 Class II, Div. 1 & 2, Groups E, F, G
 Class III, NEMA Type 3
 II 2 G Ex d IIB IIC^② T226C Gb IP44
 Ta = -50°C to +60°C

UL LISTED - File E10514

CSA US Certified - File LR11716

FM APPROVED Certified File 25215

IEC Ex CSA 10.0007U

SIRA 10ATEX1351U



KB/KD SERIES DRAIN & BREATHERS

Applications

When installed in the top of an enclosure, these fittings act as breathers which allows air flow through the enclosure. Bottom installations permit water from condensation

to drain from the enclosure continuously. The drains and breathers are offered in a variety of hub sizes, 1/4, 3/8 & 1/2 inch NPT and metric M16 & M20.

Body Material

Aluminum with optional stainless steel or brass available for special orders.

Volume

For use in enclosures with a maximum internal volume to 9526 cubic inches or 160 liters.

CATALOG NUMBER	THREAD SIZE	BODY MATERIAL	THIRD PARTY	SUITABILITY USA	THIRD PARTY	SUITABILITY CANADA	THIRD PARTY	SUITABILITY ATEX/IEC Ex
KB1B BREATHER	1/2 NPT	ALUMINUM	UL, FM & CSAus	CLASS I GROUPS B, C & D	c CSA	CLASS I GROUPS C & D		
KB1D DRAIN	1/2 NPT	ALUMINUM	UL, FM & CSAus	CLASS I, ZONES 1 & 2 GR IIB+H ₂	c CSA	CLASS I, ZONES 1 & 2 GR IIB		
KB1BCEN BREATHER	1/2 NPT	ALUMINUM	CSAus	CLASS II GROUPS E, F, & G	c CSA	CLASS II GROUPS E, F & G	SIRA/CSA	II 2 G Ex d IIC
KB1DCEN DRAIN	1/2 NPT	ALUMINUM	CSAus	CLASS III ENCL TYPE 3	c CSA	CLASS III ENCL TYPE 3	SIRA/CSA	T226C Gb IP44 ^②
KBM20BCEN BREATHER	M20	ALUMINUM	CSAus		c CSA		SIRA/CSA	
KBM20DCEN DRAIN	M20	ALUMINUM	CSAus		c CSA		SIRA/CSA	
KDB-1 DRAIN / BREATHER	1/2 NPT	STAINLESS STEEL	UL, FM & CSAus	CLASS I GROUPS C & D	c CSA	CLASS I GROUPS C & D		
KDB-250 DRAIN / BREATHER	1/4 NPT	ALUMINUM	CSAus	CLASS I, ZONES 1 & 2 GR IIB	c CSA	CLASS I, ZONES 1 & 2 GR IIB		
KDB-375 DRAIN / BREATHER	3/8 NPT	ALUMINUM	CSAus	CLASS II GROUPS E, F & G	c CSA	CLASS II GROUPS E, F & G		
KDB-250CEN DRAIN / BREATHER	1/4 NPT	ALUMINUM	CSAus	CLASS III ENCL TYPE 3	c CSA	CLASS III ENCL TYPE 3	SIRA/CSA	II 2 G Ex d IIB
KDB-375CEN DRAIN / BREATHER	3/8 NPT	ALUMINUM	CSAus		c CSA		SIRA/CSA	T3 Gb IP44
KDB-M16CEN DRAIN / BREATHER	M16	ALUMINUM	CSAus		c CSA		SIRA/CSA	

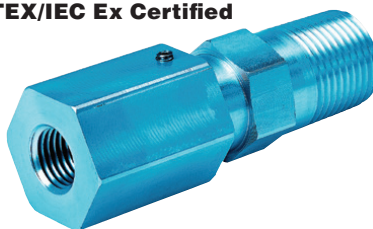
KB SERIES FLAME ARRESTOR

Applications

The flame arrestor provides a means to connect gas analysis equipment and electro pneumatic devices' pipe or tubing system through the wall of an explosion-proof enclosure.

BODY MATERIAL: 6061-T6 series aluminum provided as standard. Optional stainless steel or brass for special orders.

ATEX/IEC Ex Certified



Class I, Div. 1 & 2, Groups B^①, C, D
 Class I, Zones 1 & 2, Groups IIB + H₂^①
 Class II, Div. 1 & 2, Groups E, F, G
 Class III, NEMA Type 3, 4^①
 II 2 G Ex d IIB IICk T3 Gb IP66^②
 Ta = -50°C to +60°C



CSA US Certified - File LR11716

IEC Ex CSA 10.0007U

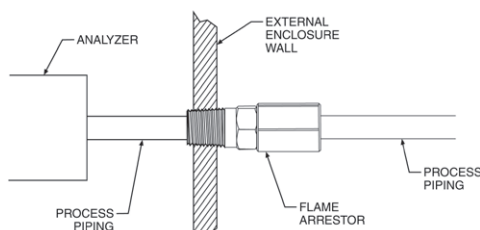
SIRA 10ATEX1351U

① See chart below for suitability

② Warning – not for use in acetylene atmospheres

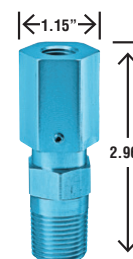
CATALOG NUMBER	EXTERNAL HUB THREAD SIZE	INTERNAL & EXTERNAL PROCESS PIPING THREAD SIZE	THIRD PARTY	SUITABILITY USA	THIRD PARTY	SUITABILITY CANADA	THIRD PARTY	SUITABILITY ATEX/IEC Ex
KB1FA25	1/2 NPT	1/4 NPT	CSAus	CLASS I GROUPS B, C & D	c CSA	CLASS I GROUPS C & D	SIRA/CSA	II 2 G Ex d IIC ^②
KB1FA25SS6	1/2 NPT	1/4 NPT	CSAus	CLASS I, ZONES 1 & 2 GR IIB+H ₂	c CSA	CLASS I, ZONES 1 & 2 GR IIB		T3 Gb IP66
				CLASS II GROUPS E, F, & G		CLASS II GROUPS E, F & G		
				CLASS III TYPE 3 & 4		CLASS III TYPE 3 & 4		
KB1FAM16	1/2 NPT	M16	CSAus	CLASS I GROUPS B, C & D	c CSA	CLASS I GROUPS C & D	SIRA/CSA	II 2 G Ex d IIC
KBM20FA25	M20	1/4" NPT	CSAus	CLASS I, ZONES 1 & 2 GR IIB+H ₂	c CSA	CLASS I, ZONES 1 & 2 GR IIB		T3 Gb IP65
KBM20FA25SS6	M20	1/4" NPT	CSAus	CLASS II GROUPS E, F & G	c CSA	CLASS II GROUPS E, F & G	SIRA/CSA	
KBM20FAM16	M20	M16		CLASS III TYPE 3	c CSA	CLASS III TYPE 3		
KBM20FAM16SS6	M20	M16						

TYPICAL INSTALLATION



Specifications

Air flow = 83 + 15 / -25 SCFH at 5PSI
 Pressure drop = 1.3 PSI at 100 PSI
 Maximum flow pressure = 800 PSI
 Volume = For use in enclosures with a maximum internal volume of 9526 cubic inches or 160 liters.





EXPLOSIONPROOF, DUST-IGNITIONPROOF AND TYPE 4X UNIVERSAL DRAIN OR BREATHER



KB1-4X

Class I, Div. 1 & 2, Groups B^①, C, D
 Class I, Zones 1 & 2, Groups IIB + H₂
 Class II, Div. 1 & 2, Groups E, F, G
 Class III
 Type 3, 4, 4X

Certified File - LR11716

Certified File - LR11716

File E10514

Certified File - LR11716

FEATURES-SPECIFICATIONS

Applications:

When installed in the top of an enclosure, this fitting acts as a breather to allow air flow through the enclosure. Bottom installation permits water from condensation to drain from the enclosure continuously.

Features

- Suitable for Explosionproof and Dust-Ignitionproof environments
- Type 3, 4, 4X Rating
- Machined 1/2" NPT Thread

Standard Materials

- Copper-Free Aluminum
- 316 Stainless Steel

Finish

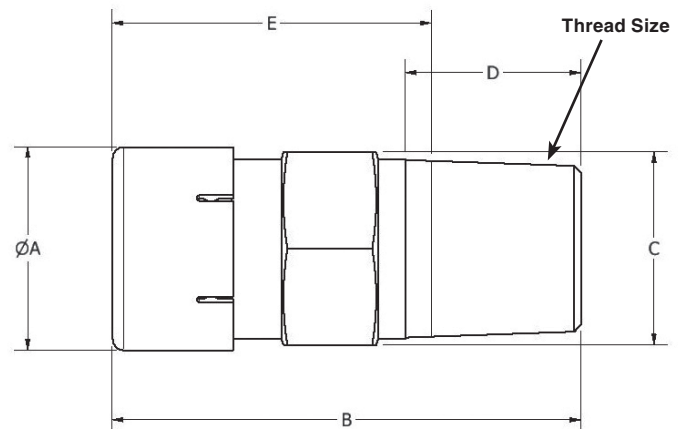
- Anodized Lightblue - Aluminum
- Natural - 316 Stainless Steel

^① Canadian suitability

Class I, Div. 1 & 2, Groups C, D
 Class I, Zones 1 & 2, Groups IIB
 Class II, Div. 1 & 2, Groups E, F, G
 Class III
 Type 3, 4, 4X (NEMA)

KB EXPLOSIONPROOF, DUST-IGNITIONPROOF AND TYPE 4X UNIVERSAL DRAIN OR BREATHER				
CATALOG NUMBER	THREAD SIZE	BODY MATERIAL	FINISH	SHIP CTN QTY
KB1-4X	1/2" NPT	Aluminum	ANODIZED LIGHTBLUE	5
KB1-4XS6	1/2" NPT	316 Stainless Steel	NATURAL	5

DIMENSIONS					
CATALOG NUMBER	A	B	C		E +/- 1/8" TYPICAL
			A/C	A/F	
KB1-4X	13/16"	2-1/8"	1"	7/8"	51/64"
KB1-4XS6	13/16"	2-1/8"	1"	7/8"	51/64"





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