

IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEx QPS 15.0002X		Issue No: 0	Certificate history:
Status:	Current		Page 1 of 3	Issue No. 0 (2015-04-29)
Date of Issue:	2015-04-29			
Applicant:	Killark, a Division of Hubbell Inc. (D 3940 Martin Luther King Drive St. Louis, MO 63113 United States of America)elaware)		
Electrical Apparatus: Optional accessory:	KDE Series Breather/Drains			
Type of Protection:	Ex e IIC Gb / Ex tb IIIC Db IP66			
Marking:	IECEx QPS 15.0002X Ex e IIC Gb / Ex tb IIIC Db IP66			
Approved for issue on behalf of the Certification Body:	e IECEx	Dave Adams, P.Eng.		
Position:		Manager, Hazardous L	ocations [Ex Equij	oment] Department
Signature: (for printed version)				
Date:				
1. This certificate and schedule ma	y only be reproduced in full.			

2. This certificate is not transferable and remains the property of the issuing body.

3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:

QPS Evaluation Services Inc. 81 Kelfield St Unit 8 Toronto, Ontario M9W 5A3 Canada





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Manufacturer:	Killark, a Division of Hubbell Inc. (Delaware) 3940 Martin Luther King Drive St. Louis, MO 63113 United States of America	

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-7 : 2006-07 Edition:4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

This Certificate does not indicate compliance with electrical safety and performance requirements other than those expressly included in the

Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

CA/QPS/ExTR15.0003/00

Quality Assessment Report:

US/UL/QAR07.0004/06



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

KDE Series Breather/Drains, made out of 7 body materials (Akulon PA6, Brass (2 types), Stainless Steel (3 types), Aluminum; 1/2 inch and 3/4 inch NPT and NPSM, M20 and M25.... with Porex Sintered Elements (Puck shape).

Nomenclature breakdown: $\underline{KD}^{1} \underline{E}^{2} \underline{*}^{3} \underline{*}^{4} \underline{*}^{4} (\underline{*}^{****})^{5}$

1 - Series Designation

2 - Explosive Atmosphere version - IP66

3 - Material Type:	AL = Aluminium; BR = Brass; S3 = 303 SS; S4 = 304 SS; S6 = 3016 SS; GF = Glass Filled PA6 Nylon
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4 - Plating Type: 0 = Unplated; 1 = Nickel; 2 = Zinc; 3 = Cadmium; 4 = Chromatise; 5 = Electroless Nickel

5 - Thread Type: M20 = M20; M25 = M25; 050 = 1/2 inch NPT; 075 = 3/4 inch NPT; 050NPSM = 1/2 inch NPSM; 075NPSM = 3/4 inch NPSM

CONDITIONS OF CERTIFICATION: YES as shown below:

1. The breather/drains are intended for "enclosure bottom only" installation into clearance holes only, using the locknuts provided.

KDE Trade Size / Thread Form	Max. Opening Diameter (mm)	Max. Opening Diameter (in)
М20	21	0.815
1/2 in. NPT, NPSM	22	0.875
M25	26	1.030
3/4 in. NPT, NPSM	27	1.060

They are not intended for installation into threaded openings or hubs.

3. Minimum required locknut tightening torque is 4 Nm. Maximum locknut tightening torque is 8 Nm. .

4. The operating temperature range of the breather/drains is -55°C to +80°C.