



Report No.: 383368400 Notification No. DEKRA 24ATEXQ0021, issue 0

IECEx QAR No.: NL/DEK/QAR24.0003/00

Assessment in accordance with the requirements of:			
Manufacturer:	Douglas Electrical Components 5 Middlebury Blvd Randolph, NJ 07869 USA		
Production site: (Audited)	Douglas Electrical Components 5 Middlebury Blvd Randolph, NJ 07869 USA		
Number of employees:	A total of 100 employees on site, 65 involved in production of Ex products.		
Type of audit:	Initial AssessmentImage: Surveillance AssessmentRe-AssessmentImage: Special Audit		
Electrical equipment with type(s) of protection of:	$ d \boxtimes e \boxtimes i \square m \square n \square o \square op \square p \square q \square t \square 60079-30-1 \square $ Protective system $\square$ Safety, controlling or regulating device $\square$		
solely provided by the supplier:	d 🗆 e 🗆 i 🗆 m 🗆 n 🗆 o 🗆 op 🗆 p 🗆 q 🗆 t 🗆 60079-30-1 🗆		
Non-electrical type(s) of protection:	h $\Box$ (including b $\Box$ c $\Box$ k $\Box$ )		
Lead Assessor: (name)	Z Fosse		
Lead Assessor: (Signature)	Zeet The		

 $^{\ensuremath{\mathbb{O}}}$  Integral publication of this report is allowed

Form 180 Version 18 (2022-07)



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#### Contents:

- 1. Summary Report
- 2. Audit Data
- 3. Assessor's Report
- 4. Observations

#### 1. <u>Summary Report</u>

#### Summary of observations:

The manufacturer's production site operates an ISO 9001 : 2015 certified quality management system.

To fulfil the requirements of:

☑ the international standard ISO/IEC 80079-34 : 2018,

the European standard EN ISO/IEC 80079-34 : 2020 and Directive 2014/34/EU– Annex IV and VII, No items raised during the audit.

#### Non-Conformities

None.

**Deviation from the audit plan and reasons:** None.

**Significant issues impacting on the audit program:** None.

### Significant changes that affect the management system since the last audit: None.

#### Statement on the conformity and the effectiveness of the management system

Based on the results of internal audits and management reviews, the conformity and effectiveness of the Douglas Electrical Components management system is confirmed.

The certification scope is satisfactory to produce the Ex d line bushing and conduit seal products covered by this assessment.

The audit objectives have been fulfilled and are sufficiently covered by the quality management system. For details, see chapter 3 "Assessor's report".

The next audit is tentatively scheduled for August 2025.

#### Disclaimer

Auditing is based on a sampling process of the available information at the time of the assessment. DEKRA Certification B.V. is not responsible nor can be held accountable for activities, conditions, operations, actions or failure of actions by facility staff that may occur or not occur after the auditor(s) leave the facility.





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#### Audit Team Leader Recommendations

⊠ – ATEX Notification

- $\boxtimes$  IECEx 02 QAR
- $\boxtimes$  to be issued/maintained
- □ **to be issued/maintained** following receipt of satisfactory documentary evidence supporting effective corrective action. Corrective action to be verified at next audit.
- □ to be issued/maintained following a satisfactory follow-up visit and verification that corrective actions have been effectively documented and implemented.
- □ **to be refused/suspended** A further complete assessment to be conducted.
- □ **to be refused/suspended** close the application/withdraw the notification/Report and inform other ATEX notified bodies/IECEx 02 Secretary.

#### Accepted by ATEX Notified Body / IECEx 02 ExCB:

DEKRA Certification B.V. 27 February 2024

E. ter Haar EX Certification Manager

#### 2. <u>Audit Information</u>

#### 2.1 Scope of Audit:

Products certified per IECEx Certificate of conformity and/or EU- or EC-Type examination certificates as listed in the online IECEx QAR or Schedule to ATEX notification, with the types of protection as detailed therein.

- ⊠ **Type A** initial assessment/reassessment of manufacturer with a certified Quality Management System
- □ **Type B** initial assessment/reassessment of manufacturer without a certified Quality Management System
- □ **Type C** surveillance of manufacturer with a certified Quality Management System
- □ **Type D** surveillance of manufacturer without a certified Quality Management System
- □ **Type E** integrated (NBR) ISO 9001/ EN ISO/IEC 80079-34 / ISO/IEC 80079-34, reassessment or surveillance
- □ **Type F** special audit : Expanding scope / Short-notice audits
- $\boxtimes$  Stage 1 audit findings report sent on 7 September 2023.
- $\boxtimes$  Stage 1 assessment carried out and finalised with satisfactory results.

The (mis)use of marks and/or any other reference to certification is assessed. No discrepancy was found.

- $\boxtimes$  The manufacturing does not operate in shifts.
- □ The manufacturing operates in shifts and each shift uses the same procedures, work instructions and qualified persons, therefore it is considered not necessary to audit each shift.



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 $\Box$  – The manufacturing operates in shifts and all shifts have been assessed during the audit.





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#### 2.2 Audit Criteria

To verify if the requirements of Directive 2014/34/EU Annex IV and/or VII and/or IECEx 02 rules in relation to existing (or shortly to be issued) ATEX, or IECEx 02 certificates are met, by using the following standard(s):

(EN) ISO/IEC 80079-34 : 2018 (2020)- Explosive atmospheres – part 34: Application of quality systems for equipment manufacture

#### Reference documents used:

EN ISO 9001 : 2015 - Quality management systems – Requirements

#### Objectives of the audits:

The following audit objectives are accomplished by the audit:

- determination of the conformity of the management system (including management system requirements supporting conformity of the product), or parts of it, with the audit criteria as stated;
- determination of the ability of the management system to ensure the applicable requirements in accordance with Directive(s), rules or regulations as defined in the Audit Criteria are met;
- determination of the effectiveness of the management system;
- as applicable, identification of areas for potential improvement of the management system;
- determination of the conformity of the product with the type described in the EC- or EU-Type Examination Certificate and/or IECEx Certificate of conformity and with the requirements of Directive(s), rules or regulations as defined in the Audit Criteria which apply to it;
- determination of the appropriate use of marks.

#### 2.3 Date(s) of Audit:

Stage 1 audit: 7 September 2023 (remote) Stage 2 audit: 14 February 2024

#### Number of man-days on-site:

1 man-day

#### 2.4 Certified Quality System

ISO 9001 Certificate No	Certified by	Expiry date	Scope covers ATEX/IECEx pro	the manufactured oducts
49918/A/0001/UK/En	URS	2026-May-08	Yes 🗵	No 🗆

A digital copy of the ISO 9001 certificate issued by a body accredited by an IAF signatory organization is stored as evidence.

If ISO 9001 certified, were non-conformities from the last ISO 9001 audit reviewed?

Yes 🛛	No 🗆	N/A (no NCs) 🛛
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#### Comments to ISO 9001 non-conformities.

The audit report, including any nonconformity raised during the audit and corresponding corrective actions, has been evaluated during the audit.

#### 2.5 Composition of Audit Team:

Name	Position	Role in Audit (Sole Auditor, Team Leader, Auditor, Technical Specialist, etc)	
Z Fosse	Lead Assessor	Sole Auditor / Team Leader	





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#### 2.6 Interviewed representatives of manufacturer (auditees):

Name	Position	Opening meeting	Closing meeting
Fernando Zambrano	Quality Manager	$\boxtimes$	$\boxtimes$
Jose Barreto	Director of Engineering	$\boxtimes$	$\boxtimes$

#### **2.7 External Providers:** (*List critical suppliers reviewed during audit of supplier evaluation*)

Name	Item or Service	QMS Certificate(s)
Elsworth Adhesives	Ероху	ISO 9001
Allied Wire	Electrical wire	
Admiral Metals	Machined housing	Inspection
I.C. Machine	Machined housing	Inspection
CDS Precision	Machined housing	Inspection
Fox Valley	Calibration	ISO 17025
Trescal	Calibration	ISO 17025

#### **2.8** Manufacturers Documentation: (List manufactures documentation related to this Quality Audit Report)

	Document No.	Document Name	Rev.	Date
	QM 01	Quality Manual	Z	7/30/2023
	OP01	Document and Data Control	F	6/15/2023
	OP02	Control of Records	1	6/15/2023
	OP03	Job Specifications	Н	6/15/2023
	OP05	Training and Employee Development	I	6/15/2023
	OP06	Application Engineering	Р	6/15/2023
$\boxtimes$	OP07	Sales	V	6/15/2023
	OP09	Purchasing	R	6/15/2023
	OP10	Supplier Selection and Evaluation	L	6/15/2023
	OP11	Receiving Inspection	Т	6/15/2023
	OP12	Production	V	6/15/2023
$\boxtimes$	OP13	Recall	OR	3/3/2012
$\boxtimes$	OP14	Production Inspections	0	6/15/2023
	OP17	Handling & Housekeeping	J	6/15/2023
	OP18	Stockroom	Q	6/15/2023
$\boxtimes$	OP19	Shipping and Receiving	Y	6/15/2023
	OP20	Calibration	L	6/15/2023
	OP21	Internal Audit	н	6/15/2023
	OP22	Corrective Actions	G	6/15/2023



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	Document No.	Document Name	Rev.	Date
	OP23	Design Control	D	6/15/2023
	OP25	Employee Development	Н	6/15/2023
	OP26	RMA Process	A	6/15/2023
$\boxtimes$	OP27	Restricted Materials	В	2/14/2024
$\boxtimes$	OP28	DEC Quality Assurance T&C (Suppliers)		
	OP33	Manufacturing Control	D	6/15/2023
	OP34	Risk and Opportunity Management	В	6/15/2023
$\boxtimes$	OP35	Production Preventative Maintenance	OR	
	OP37	Ex Manufacturing Control	А	6/15/2023
	WI105	Pressure test		
	WI301	Epoxy Handling	М	
	WI346	Standard Potting	В	

#### 2.9 Manufacturers Ex Certificates of Conformity:

DEKRA 23ATEX0024X Line Bushings, Type 57754-**-*-1-*-** Ex d Y□ N⊠	$\boxtimes$

#### 2.9.1 Certificates as Critical Supplier

Ex Certificate No.	Short description of Ex equipment	Ex protection	Routine test required	Certificate checked
CSANe 20ATEX3176U IECEx CSA 19.0036U	Dual Process Seals Models G- 00052040 and G-000520401 (ACMTC)	Ex e	$Y\boxtimesN\square$	$\boxtimes$
FM 16ATEX0068X IECEx 16.0033X	Feedthru 280835-2 (ATEMETK Tempesonic)	Ex d	Y□N⊠	$\boxtimes$





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#### 3. <u>Assessor's Report</u>

#### (EN) ISO/IEC 80079-34 requirements:

Note: Possible audit verdicts (V): P = Pass, NA = Not applicable, NC = Non-Conformity, the Non-conformity number against a clause where a Non-conformity has been issued is added.

#### Clause 4 - Context of the organization

Clause	Description	Reference documents	Audit findings	V
4.1	Understanding the organization and its context	QM01 OP37	The context of the organization is to ensure that any Ex Product is in accordance with its certificate and technical documentation.	Р
4.2	Understanding the needs and expectations of interested parties		Manufacturers ISO 9001 QMS complies.	Р
4.3	Determining the scope of the quality management system		Manufacturers ISO 9001 QMS complies.	Р
4.4	Quality management system and its processes	QM01 49918/A/0001/UK/En ISO 9001 49918/B/0001/UK/En ISO 14001 GB/SIR/QAR20.0003	The quality management system ensures that the Ex Product conforms to the type described in the certificate and the technical documentation. Compliance to the requirements of ISO/IEC 80079-34 is defined. Douglas has previously been audited by	Ρ
		GB/FME/QAR14.0005	CSA and FM as a critical supplier for other manufacturers.	

#### Clause 5 - Leadership

Clause	Description	Reference documents	Audit findings	V
5.1	Leadership and commitment		Manufacturers ISO 9001 QMS complies.	Р
5.1.1	General		Manufacturers ISO 9001 QMS complies.	Р
5.1.2	Customer focus		Manufacturers ISO 9001 QMS complies.	Р
5.2	Policy			Р
5.2.1	Establishing the quality policy		Manufacturers ISO 9001 QMS complies.	Р
5.2.2	Communicating the quality policy		Manufacturers ISO 9001 QMS complies.	Р
5.3	Organizational roles, responsibilities, and authorities	QM01 Org Chart	The Ex-authorized person are Quality Manager (Fernando Zambrano) and Director of Engineering (Jose Barreto). The responsibilities and authority for a), b), c), d), e), f), and g) are sufficiently defined.	Р

#### Clause 6 - Planning

Clause	Description	Reference documents	Audit findings	V
6.1	Actions to address risks and opportunities		Manufacturers ISO 9001 QMS complies.	Ρ





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Clause	Description	Reference documents	Audit findings	V
6.2	Quality objectives and planning to achieve them		Manufacturers ISO 9001 QMS complies.	Ρ
6.3	Planning of changes		Manufacturers ISO 9001 QMS complies.	Р

#### Clause 7 - Support

Clause	Description	Reference documents	Audit findings	
7.1	Resources			Р
7.1.1	General		Manufacturers ISO 9001 QMS complies.	Р
7.1.2	People		Manufacturers ISO 9001 QMS complies.	Р
7.1.3	Infrastructure		Manufacturers ISO 9001 QMS complies.	Р
7.1.4	Environment for the operation of processes		Manufacturers ISO 9001 QMS complies.	Р
7.1.5	Monitoring and measuring resources	QM01 OP20 Fox Valley 17025 cert Trescal 17025 cert Cal certs: 945, 00021, C00092	The calibration certificates have been verified with satisfactory results. The calibration certificates bear the accreditation logo issued by an accredited calibration laboratory.	Р
7.1.6	Organizational knowledge		Manufacturers ISO 9001 QMS complies.	Р
7.2	Competence	QM01 OP05 OP25 DataEase system Training Matrix Ex awareness training 2023	All persons having an impact on Ex compliance received appropriate training. Annual awareness training is given for 9001, 140001 & 80079-34. OP25 is focused on production personnel, OP05 has general applicability.	Ρ
7.3	Awareness		Manufacturers ISO 9001 QMS complies.	Р
7.4	Communication	QM01 OP37	Internal and external communication relating to Ex Products is controlled.	Р
7.5	Documented information			Р
7.5.1	General	OP01 OP02 OP06 OP23	Appropriate means (e.g. manuals, policies, procedures, instructions) ensure compliance, of Ex Products with their certificates and technical documentation.	Ρ
7.5.2	Creating and updating		Manufacturers ISO 9001 QMS complies.	Р





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Clause	Description	Reference documents	Audit findings	
7.5.3	Control of documented Information	QM01 OP37 See 7.5.1	It is correctly defined that any changes to Ex-related drawings require the approval of the Ex-authorized person prior to release.	Р
		DWG: 57754, rev OR DWG: 57758, rev OR WI 130, rev OR line bushing user installation manual	Ex DWG's are for series 577*** only, items are as listed on DWG 57754. Related assembly DWGs will be made for each order. Identification of Ex parts will be in M2M system description or drawing stamp (yet to be determined). The annual check of the validity of all Ex related certificates, standards, regulations, and other external	
			specifications is correctly defined, the initial check is planned for 2025; QM01 7.5.3 refers to OP31, which has not yet been updated to include Ex regulations. All required quality records will be	
			retained for at least 10 years after each Ex Product (batch) has been placed on the market.	

#### **Clause 8 - Operation**

Clause	Description	Reference documents	Audit findings	V
8.1	General	Sample work orders	Control and acceptance of processes for Ex Products ensure compliance with the requirements of the certificate, see Annex A.	Ρ
8.2	Requirements for products and services			Ρ
8.2.1	Customer communication	QM01 OP26 RMA log in M2M system CAR1293, harness leak; RMA6750 Management review minutes, Sept 19, 2023	There is a suitable customer complaints procedure in place, which is sufficiently covered by the ISO 9001 assessment. RMA's are tracked in the Made 2 Manage ERP system. Tracking is done with meetings every 2 weeks.	Ρ
8.2.2	Determining the requirements for products and services		Manufacturers ISO 9001 QMS complies.	Ρ





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Clause	Description	Reference documents	Audit findings	V
8.2.3	Review of the requirements for products and services	QM01 OP07 OP23	The product category, marking and ambient temperature range are included in the order confirmation.	Р
		QF45 Sample work orders and purchase orders	The Ex-certificate is planned to be available online.	
8.2.4	Changes to requirements for products and services	QM01 OP37 OP06 GB/SIR/QAR20.0003 GB/FME/QAR14.0005	The Ex authorized person(s) is/are involved in any changes (e.g. changes to the manufacturer's documentation, quality management system or marketing documents) that could affect Ex Product compliance.	P
8.3	Design and development of products and services			Р
8.3.1 8.3.2	General Design and development planning		8.3.1 - 8.3.5 of ISO 9001:2015 are not within the scope of this document.	NA NA
8.3.3	Design and development Inputs			NA
8.3.4	Design and development controls			NA
8.3.5	Design and development outputs			NA
8.3.6	Design and development changes	QM01 OP37 OP06 GB/SIR/QAR20.0003 GB/FME/QAR14.0005	The Ex authorized person(s) is/are involved in the approval process of any substantial modification or change (e.g. changes to the manufacturer's documentation, quality management system or marketing documents) that could affect Ex Product compliance.	Ρ
8.4	Control of externally provided processes, products and services			Р
8.4.1	General	OP09 OP10 OP37	All Ex-relevant parts are verified for compliance at incoming inspections per DWG specifications.	Р
		Vendor questionnaire M2M ERP system Allied Wire Fox Valley CDS Precision	Supplier selection criteria are correctly defined. Ex-suppliers not used for more than one year are considered as new supplier. The ongoing ability of the suppliers to provide conforming products is performed.	





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Clause	Description	Reference documents	Audit findings	V
8.4.2	Type and extent of	OP11	All Ex-relevant parts are verified for	Р
	control	OP19	compliance at incoming inspections per DWG specifications.	
		PO: 107734		
		PO: 116843	Each batch is accompanied by a	
		Vendor CoC	declaration of conformity which refers to	
			the correct drawing number including	
		P/N: 7113	release date. Lot, batch, and expiration	
		Lot: 0X3J008738	dates are recorded.	
8.4.3	Information for external providers	Exp: 2/28/2025	The purchase documents clearly describe the specific requirements.	Р
		P/N: 1481		
		Lot: 0X3J008778		
		Exp: 3/13/2025		
		P/N: 413485		
0.5	Production and	Mill cert, insp report		Р
8.5	service provision			Р
8.5.1	Control of production	OP14	Procedures, production equipment,	Р
	and service provision	OP37	working environments and	-
			inspection/testing facilities are	
		WI301, epoxy handling	sufficiently in place and together	
		WI105, pressure	assurance with respect to the	
		testing	compliance of the Ex Product with its	
		WI106, hi-pit testing	technical documentation is provided.	
		JO: 45268	Job orders taken as representative of	
		JO: 46002	future Ex production.	
8.5.2	Identification and	P/N: 56636	Product identification during all	Р
	traceability		production stages until placing on the	
			market is sufficient. FIFO process is	
			used for materials with shelf-life.	
8.5.3	Property belonging to customers or	GB/SIR/QAR20.0003 GB/FME/QAR14.0005	Manufacturers ISO 9001 QMS complies.	Р
	external providers		Processes are in place for Douglas	
			Electrical to accept property of	
			customers as critical supplier of parts of	
			their Ex products.	
8.5.4	Preservation		Manufacturers ISO 9001 QMS complies.	Р
8.5.5	Post-delivery activities		Manufacturers ISO 9001 QMS complies.	Р
8.5.6	Control of changes	QM01	The Ex authorized person(s) are	Р
2.2.0		OP37	involved in any changes that could affect	
		OP06	Ex Product compliance.	
		GB/SIR/QAR20.0003		
		GB/FME/QAR14.0005		





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Clause	Description	Reference documents	Audit findings	V
8.6	Release of products and services	OP37 OP14 User manual: WI130	The installation instructions are verified with satisfactory results, all Ex relevant items are correctly addressed.	Ρ
			EU declaration of conformity has not been drawn up at time of audit, final certificate issuance pending results of this audit. Douglas is aware the EU DoC is required when starting production.	
8.7	Control of nonconforming outputs	QM01 OP13 OP14 OP26	All required actions are documented, and all records will be retained for at least 10 years.	Р
			DMR process in place and segregation of material waiting for disposition observed.	
			No notifications for recalls or unsafe products.	

#### **Clause 9 - Performance evaluation**

Clause	Description	Reference documents	Audit findings	V
9.1	Monitoring, measurement, analysis and evaluation			Ρ
9.1.1	General	See Annex A	Manufacturers ISO 9001 QMS complies.	Р
9.1.2	Customer satisfaction		Manufacturers ISO 9001 QMS complies.	Ρ
9.1.3	Analysis and evaluation		Manufacturers ISO 9001 QMS complies.	Р
9.2	Internal audit	QM01 OP21 QF26, rev E: Internal Audit Schedule: 2023/2024 2023 internal audit of: Final inspections, Document control	Internal audits are carried out on an annual basis with an interval not exceeding 14 months, process audits are planned from Feb to Nov annually. Checklists per process will be used. The content of the latest internal audit has been verified with satisfactory results. Customers also perform periodic vertical audits of product. The internal auditors are rotated for which process is assigned annually.	Ρ
9.3	Management review			Р





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9.3.1	General	QM01 Management review minutes, Sept 19, 2023	It is correctly defined that the management review will be held on an annual basis and that the Ex-authorized person shall participate. The interval between the management reviews does not exceed 14 months, typically twice a year. Results of internal and external audits and the overall effectiveness of the quality management system with respect to equipment intended for use in explosive atmospheres are included in the review. Evidence of the effectiveness of the quality management system has been provided.	P
9.3.2	Management review inputs		Manufacturers ISO 9001 QMS complies.	Р
9.3.3	Management review outputs		Manufacturers ISO 9001 QMS complies.	Ρ

#### Clause 10 - Improvement

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Clause	Description	Reference documents	Audit findings	V
10.1	General		Manufacturers ISO 9001 QMS complies.	Р
10.2	Nonconformity and		Manufacturers ISO 9001 QMS complies.	Р
	corrective action			
10.3	Continual	QM01	The process for Continual improvement	Р
	improvement		is sufficiently covered by the ISO 9001	
		Management revie	assessment.	
		minutes, Sept 19,		
		2023	Improvements and corrective actions	
		Internal audit schedule	are logged in the QF30 form. CARs are	
		2023, 2024	left open until effectiveness is verified.	
		QF30, CAR log	8D process used for most items.	
		g		
		CAR1293, harness leak		





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#### Annex A: Information relevant to particular types of protection and specific products

Clause	Description	Reference documents	Audit findings	V
A.2	Enclosures –	P/N: 413485	Bushing and conduit seal enclosures are	Р
	General remark	Mill cert, insp report	machined and received with material	
			certificates and measurement reports.	
			Douglas will perform sample inspections	
			at receiving.	

#### A.3 / B.3.1 Ex d - flameproof enclosures covered by IEC 60079-1

Clause	Description	Reference documents	Audit findings	V
A.3.1	Verification	DWG: 57754	Bushing and conduit seal enclosures are machined and received with material	Р
			certificates and measurement reports.	
			Douglas will perform sample inspections	
-			at receiving.	
A.3.2	Castings		No castings	NA
ExTAG	Verification		No castings.	NA
DS	Requirements for			
<u>2012/</u> 004	Flameproof Castings			
A.3.3	Machining	DWG: 57754	Bushing and conduit seal enclosures are	Р
			machined and received with material	
			certificates and measurement reports.	
			Douglas will perform sample inspections	
			at receiving.	
A.3.4	Cemented joints and	OP37	Shelf life and storage of the material,	Р
	potted assemblies		mixing, surface preparation, application,	
		WI301, epoxy handling	curing and after curing inspections are	
		WI105, pressure	sufficiently defined.	
		testing JO: 45268	Material is handled by FIFO and	
		JO: 45268 JO: 46002	inventory management by cement	
		P/N: 56636	vendor.	
A.3.5	Routine pressure testir		Vendor.	
A.3.5.1	General	WI105, pressure	Pressure testing is performed 100%	Р
A.3.5.2	Batch testing	testing	when required.	NA
A.3.5.3	Welded construction	-	No welded construction.	NA
A.3.6	Flanged joints		No flange joints	NA
ExTAG	Verification		No spigot or conical joints	NA
<u>DS</u>	requirements for			
<u>2015</u>	Spigot joints/Conical			
<u>/018</u>	joint			
A.3.7	Elements, with non-		No elements with non-measurable	NA
	measurable paths, of		paths.	
	breathing and			
	draining devices			





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A.5 Ex e – increased safety covered by IEC 60079-7						
Clause	Description	Reference documents	Audit findings	V		
A.5.1	Ingress protection (IP)	OP37 OP14	The documented procedures ensure suitable verifications of the following: a) solder joints;	Р		
		WI301, epoxy handling P/N: 7113 Lot: 0X3J008738 Exp: 2/28/2025	b) application of cements including a visual inspection after curing.			
		P/N: 1481 Lot: 0X3J008778 Exp: 3/13/2025				
A.5.2	Internal wiring and contact integrity	OP37 OP14 WI106, hi-pit testing JO: 45268 JO: 46002	The documented procedures ensure suitable verifications satisfactorily of the following: a) wiring is terminated as specified in the schedule drawings; b) wires are as specified in the schedule drawings;	Ρ		
		P/N: 56636	d) creepage distances and clearances are as specified in the schedule drawings and have not been compromised.			
A.5.3	Rotating machines		No rotating machines.	NA		
A.5.4	Windings		No windings.	NA		
A.5.5	Terminal boxes		No terminal boxes.	NA		
A.5.6	Cable glands, terminals and other accessories		The dimensions specified in the schedule drawings are confirmed on a statistical basis.	P		
A.5.7	Routine verifications and tests	IECEx CSA 19.0036U	No specific routine tests required per certification documents.	NA		

### 4. <u>Observations</u>

Obs.	Standard and clause	Description of Observation	
1.	GB/SIR/QAR20.0003	CSA Ex audit for Atlas Copco Mafi-Trench. No findings.	
2.	GB/FME/QAR14.0005	FM Approvals Ex audit AMETEK Tempesonic. 1 NC raised.	
3.	General	Some Ex products made for other manufacturers which have not had	
		3 <sup>rd</sup> party audits (Rosemount, Advanced Micro).	
4.	80079-34 cl 8.6	EU DoC to be drawn up when production commences.	
	2014/34/EU Annex X		