



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

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

Ex COMPONENT CERTIFICATE

Certificate No.: **IECEX CSA 22.0001U** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2022-01-14

Applicant: **CZ Electric Co., Ltd.**
No. 1 Qixing Rd, Qixing Town, Nanhu District
Jiaxing City, Zhejiang Province 314 002
China

Ex Component: CZ0220 Series Cable glands, Stopping plugs and Reducers

This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).

Type of Protection: **Ex eb, Ex tb**

Marking: Ex eb IIC Gb

Ex tb IIIC Db

Approved for issue on behalf of the IECEx
Certification Body:

Dorin Stochitoiu

Position:

Technical Oversight Specialist

Signature:
(for printed version)

Date:

1. This certificate and schedule may 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 www.iecex.com or use of this QR Code.



Certificate issued by:

CSA Group
178 Rexdale Boulevard
Toronto, Ontario M9W 1R3
Canada





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Additional
manufacturing
locations:

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 component 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 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-31:2013](#) Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

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

Test Report:

[CA/CSA/ExTR22.0001/00](#)

Quality Assessment Report:

[CN/CQM/QAR08.0001/08](#)



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Ex Component(s) covered by this certificate is described below:

The CZ0220 series cable glands, Stopping plugs and Reducers are certified as Ex components with protection types Ex eb (increased safety) and Ex tb (dust protection). The ingress protection of these Ex components is IP 66 and IP 67. For detail information of these Ex components and their type designation see the Annex attached to this certificate.

SCHEDULE OF LIMITATIONS:

See Annex attached to this certificate for the schedule of limitations.

Annex:

[Annex to IECEx CSA 22.0001U Issue 0.pdf](#)

Product Information

CZ0220 Series Cable Glands are consisted of Sleeve set (made of plastic material) , Sealing nut (made of plastic material),clamping ring I (made of silicon Rubber) , and clamping Ring II (made of silicon rubber), Dust-Proof gasket (made of EVA) , Gasket (made of silicon rubber) and Locking nut (made of plastic material or H59 or 304 ,316 stainless steel. The difference of CZ0220/12 and CZ0220/13 is the color of sealing nut, the color of Sealing nut of CZ0220/12 is black, the color of sealing nut of CZ0220/13 is blue. The type designation of CZ0220 series cable gland listed as below:

Type designation:

Type	CZ	02	20	/	□	-	□	□	-	□
Code	a	b	c		d		e	f		g

a	The abbreviation code of manufacturer name	
b	Year number of product development	
c	Design number	
d	Cable gland type code	12=increased safety type
		13= intrinsic safety type
e	Entry thread Specification code	16:M16x1.5
		20:M20x1.5
		25:M25x1.5
		32:M32x1.5
		40:M40x1.5
		50:M50x1.5
		63:M63x1.5
f	Entry thread legth code	10:10mm
		11:11mm
		12:12mm
		14:14mm
		16:16mm
g	Product number (no effect of Ex type)	

Notes: CZ0220/13 intrinsic safety type only means the color the sealing nut of cable gland is blue, the protection type of CZ0220/13 is Ex eb and Ex tb.

CZ0220/32 Series stopping plugs are consisted of stopping plug (made of plastic material) and rubber gasket, the type designation of CZ0220/32 Series stopping plug listed as below:

Type	CZ	02	20	/	32	-	□	□	-	□
Code	a	b	c		d		e	f		g

a	The abbreviation code of manufacturer name	
b	Year number of product development	
c	Design number	
d	Stopping plug :32	
e	Entry thread Specification code	16:M16x1.5
		20:M20x1.5
		25:M25x1.5
		32:M32x1.5
		40:M40x1.5
		50:M50x1.5
		63:M63x1.5
f	Entry thread legth code	14:14mm
		15:15mm
		16:16mm
		19:19mm
g	Product number (no effect of Ex type)	

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CZ0220/42 Series Reducers are consisted of Reducer body (made of plastic material) and Rubber gasket, the type designation of CZ0220/42 Series reducer listed as below:

Type	CZ	02	20	/	42	-	M	□	-	M	□
Code	a	b	c		d			e			f

a	The abbreviation code of manufacturer name	
b	Year number of product development	
c	Design number	
d	Reducer: 42	
e	External thread	20:M20x1.5
		25:M25x1.5
		32:M32x1.5
		40:M40x1.5
		50:M50x1.5
		63:M63x1.5
f	internal thread	16:M16x1.5
		20:M20x1.5
		25:M25x1.5
		32:M32x1.5
		40:M40x1.5
		50:M50x1.5

Schedule of Limitation

1. The service temperature range of CZ0220 Series Cable Gland, stopping plug and Reducer is listed as below

Component Name	Type	Service Temperature (°C)		Remark
		Upper	Lower	
Reducer	CZ0220/42- M□- M□	75	-55	These types are subjected to 7J impact under this lower/upper service temperature
Stopping Plug	CZ0220/32-16□-□	75	-55	These types are subjected to 4J impact under this lower /upper service temperature
	CZ0220/32-20□-□ CZ0220/32-25□-□	75	-40	These types are subjected to 7J impact under this lower/upper service temperature
	CZ0220/32-20□-□ CZ0220/32-25□-□	75	-55	These types are subjected to 4J impact under this lower service temperature
	CZ0220/32-32□-□ CZ0220/32-40□-□ CZ0220/32-50□-□	75	-55	These types are subjected to 7J impact under this

Component Name	Type	Service Temperature (°C)		Remark
		Upper	Lower	
	CZ0220/32-63□-□			lower/upper service temperature
Cable Gland	CZ0220/□-16□-□	75	-55	These types are subjected to 4J impact under this lower/upper service temperature
	CZ0220/□-20□-□	75	-40	These types are subjected to 7J impact under this lower/upper service temperature
	CZ0220/□-20□-□	75	-55	These types are subjected to 4J impact under this lower service temperature
	CZ0220/□-25□-□ CZ0220/□-32□-□ CZ0220/□-40□-□ CZ0220/□-50□-□ CZ0220/□-63□-□	75	-55	These types are subjected to 7J impact under this lower/upper service temperature

2. When specific lower ambient temperature is -55°C, the following component should be installed in the area low risk of mechanical danger:

Component Name	Type
Stopping Plug	CZ0220/32-16□-□
	CZ0220/32-20□-□
	CZ0220/32-25□-□
Cable Gland	CZ0220/□-16□-□
	CZ0220/□-20□-□

3. CZ0220 Series cable gland only passed the clamping tests with the values reduced to 25% of these required in Clause A.3.1.1, the end user shall provide additional clamping of the cable to ensure that pulling is not transmitted to the terminations.
4. Only one reducer shall be installed in any one cable entry;
5. Shall only be cleaned with damp cloth.
6. The CZ0220 series cable gland shall be installed with a certified enclosure which protection type is Ex eb/Ex tb and ingress protection level is IP 66 /IP 67 according to user manual, including tightening process of compression element and tightening torque;