



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 PRE 15.0019X Issue No: 2 Certificate history:
Status: **Current** Issue No. 2 (2018-05-29)
Date of Issue: **2018-05-29** Page 1 of 5 Issue No. 1 (2016-07-22)
Applicant: **OSCG Co. Ltd.** Issue No. 0 (2015-05-15)
#1242, Nakdong-Daero, Sasang-Gu, Busan, Korea
Korea, Republic of
Equipment: **Blanking elements(OSSP) & Adaptors(OSRA & OSAJ)**
Optional accessory: -
Type of Protection: **Ex d / Ex e/ Ex tb**
Marking:
Ex db IIC Gb
Ex eb IIC Gb
Ex tb IIIC Db

Approved for issue on behalf of the IECEx
Certification Body:

Bjørn Spongsveen

Position:

Certification Manager

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 the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

DNV GL Nemko Presafe AS
Veritasveien 3
1363 Høvik
Norway





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Manufacturer: **OSCG Co. Ltd.**
#1242, Nakdong-Daero, Sasang-Gu, Busan, Korea
Korea, Republic of

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 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 60079-1 : 2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-7 : 2015 Edition:5.0	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:

[NO/PRE/ExTR15.0021/00](#) [NO/PRE/ExTR15.0021/01](#) [NO/PRE/ExTR15.0021/02](#)

Quality Assessment Report:

[NO/NEM/QAR15.0003/00](#) [NO/NEM/QAR15.0003/01](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

OSSP are the threaded blanking elements intended to be used with certified enclosure as applicable to close the un-used aperture or cable entry.

Sizes:

Metric: Sizes M16, M20, M25, M32, M40, M50, M63, M75, M90, M100

NPT; 1/2", 3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2", 3", 3 1/2", 4"

OSAJ/OSRA are the threaded adaptors used to convert one type of threaded entry to the other type of thread entry. Intended to be used with certified enclosure as applicable. Refer attachment to this certificate.

For Ex d protection type on a specific request, following threads may be used.

PG DIN 40430

PF JIS B0202

For Ex d protection type on a specific request, PF threads, JIS B0202 may be used. The previous edition of standard from which the thread type requirements were applied from IEC 60079-1:2001. (Thread verification were considered from IECEX KOS 09.0005X, IECEX KOS 09.0002X which covers external PF threads & PG threads in the assessment respectively). This allowance for the use of "other external thread types" is for the manufacture of replacement entry devices for equipment in existing installations only, that incorporate internal thread types that are no longer permitted by the current edition of IEC 60079-1. (IEC 60079-1, Ed.7, C.2.2.1 Threaded joints, Note 1). Sizes are described in the descriptive documents.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- The service temperature range is from -60°C to 110°C.
- The NPT threads shall be suitably sealed in order to maintain the IP rating.



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EQUIPMENT (continued):

For Ex e protection type,

The threads other than NPT and Metric are manufactured to a nearest size for the Metric/NPT. The type of threads include PF, PG, ISO, BSPP are described in the descriptive documents.

Type designation

OSSP, OSRA & OSAJ

Electrical Data

NA

Degrees of protection (IP Code) :

IP66 according to IEC 60079-0 & EN 60529

IP67 according to IEC 60529

Service temperature:

-60°C to +110°C



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

- 00- Initial issue to certain specific sizes
- 01- Update to the new standards and inclusion of range of sizes.
- 02- Inclusion of new service temperature , PG & PF threads

Annex:

[Annex to IECEx PRE 15.0019X.pdf](#)

Annex to the certificate: IECEx PRE 15.0019X Issue.02

Type Designation

Sizes:

OSRA		FEMALE THREAD SIZE											
		Metric Type(RA-M)											
		M16	M20	M25	M32	M40	M50	M63	M75	M90	M100	-	
MALE THREAD SIZE	Metric Type(RA-M)	M16	-	-	-	-	-	-	-	-	-	-	-
		M20	10	-	-	-	-	-	-	-	-	-	-
		M25	20	21	-	-	-	-	-	-	-	-	-
		M32	30	31	32	-	-	-	-	-	-	-	-
		M40	40	41	42	43	-	-	-	-	-	-	-
		M50	50	51	52	53	54	-	-	-	-	-	-
		M63	60	61	62	63	64	65	-	-	-	-	-
		M75	-	71	72	73	74	75	76	-	-	-	-
		M90	-	-	82	83	84	85	86	87	-	-	-
		M100	-	-	-	93	94	95	96	97	98	-	-
		-	-	-	-	-	-	-	-	-	-	-	-

OSRA		FEMALE THREAD SIZE											
		NPT Type(RA-N)											
		3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	
MALE THREAD SIZE	Metric Type(RA-M)	M16	-	-	-	-	-	-	-	-	-	-	-
		M20	100	-	-	-	-	-	-	-	-	-	-
		M25	200	201	-	-	-	-	-	-	-	-	-
		M32	300	301	302	-	-	-	-	-	-	-	-
		M40	400	401	402	403	-	-	-	-	-	-	-
		M50	500	501	502	503	504	-	-	-	-	-	-
		M63	600	601	602	603	604	604	-	-	-	-	-
		M75	-	701	702	703	704	704	705	-	-	-	-
		M90	-	-	802	803	804	804	805	806	-	-	-
		M100	-	-	-	903	904	904	905	906	907	-	-
		-	-	-	-	-	-	-	-	-	-	-	-

OSRA		FEMALE THREAD SIZE											
		Metric Type(RA-M)											
		M16	M20	M25	M32	M40	M50	M63	M75	M90	M100	-	
MALE THREAD SIZE	NPT Type(RA-N)	3/8"	-	-	-	-	-	-	-	-	-	-	-
		1/2"	010	-	-	-	-	-	-	-	-	-	-
		3/4"	020	021	-	-	-	-	-	-	-	-	-
		1"	030	031	032	-	-	-	-	-	-	-	-
		1-1/4"	040	041	042	043	-	-	-	-	-	-	-
		1-1/2"	050	051	052	053	054	-	-	-	-	-	-
		2"	060	061	062	063	064	065	-	-	-	-	-
		2-1/2"	-	071	072	073	074	075	076	-	-	-	-
		3"	-	-	082	083	084	085	086	087	-	-	-
		3-1/2"	-	-	-	093	094	095	096	097	098	-	-
		4"	-	-	-	-	104	105	106	107	108	109	-

OSRA		FEMALE THREAD SIZE											
		NPT Type(AJ-N)											
		3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	
MALE THREAD SIZE	NPT Type(AJ-N)	3/8"	-	-	-	-	-	-	-	-	-	-	-
		1/2"	0100	-	-	-	-	-	-	-	-	-	-
		3/4"	0200	0201	-	-	-	-	-	-	-	-	-
		1"	0300	0301	0302	-	-	-	-	-	-	-	-
		1-1/4"	0400	0401	0402	0403	-	-	-	-	-	-	-
		1-1/2"	0500	0501	0502	0503	0504	-	-	-	-	-	-
		2"	0600	0601	0602	0603	0604	0605	-	-	-	-	-
		2-1/2"	-	0701	0702	0703	0704	0705	0706	-	-	-	-
		3"	-	-	0802	0803	0804	0805	0806	0807	-	-	-
		3-1/2"	-	-	-	0903	0904	0905	0906	0907	0908	-	-
		4"	-	-	-	-	1004	1005	1006	1007	1008	1009	-

