

[1]

EU-TYPE EXAMINATION CERTIFICATE

[2] Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014

[3] EU-Type Examination Certificate Number: **DNV 22 ATEX 52701X** **Issue 0**

[4] Product: **Blanking elements (OSSP) and Adaptors (OSRA, OSAJ)**

[5] Manufacturer: **OSCG Co. Ltd.**

[6] Address: **#1242, Nakdong-Daero, Sasang-Gu, Busan, Korea**

[7] This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] DNV Product Assurance AS, notified body number 2460, in accordance with Article 17 and Article 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres, given in Annex II to the Directive.

The examination and test results are recorded in confidential reports listed in item 16.

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with: **EN IEC 60079-0:2018, EN 60079-1:2014, EN IEC 60079-7:2015/A1:2018 & EN 60079-31:2014**

Where additional criteria beyond those given here have been used, they are listed at item 18 in the Schedule.

[10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the "Specific Conditions of Use" listed under item 17 of this certificate.

[11] This EU-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

[12] The marking of the product shall include the following:



II 2 G Ex db IIC Gb/ Ex eb IIC Gb
II 2 D Ex tb IIIC Db

Date of issue:
2023-07-21



Arne Hortman
For DNV Product Assurance AS
The Certificate has been digitally signed.
See www.dnv.com/digitalsignatures for info

[13]

Schedule

[14]

EU-Type Examination Certificate No:

DNV 22 ATEX 52701X

Issue 0

[15]

Description of Product

OSSP are the threaded blanking elements intended to be used with certified enclosure as applicable to close the un-used aperture or cable entry. The OSSP are metallic blanking elements made of Brass or nickel Brass, stainless steel & aluminium. However, OSSP blanking elements of material aluminium is restricted to the following sizes only M16 to M75 & NPT/ PF ½” to NPT/ PF 2-1/2”.

Sizes:

Metric: Sizes M12, M16, M20, M25, M32, M40, M50, M63, M75, M90, M100

NPT; ½”, ¾”, 1”, 1 ¼”, 1 ½”, 2”, 2 ½”, 3”, 3 ½”, 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.

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 includes PF, PG, ISO, BSPP are described in the descriptive documents.

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 verifications 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.

The change of certificate number (Presafe 16 ATEX 7985X) is due to the change of the certification body’s name from DNV Presafe AS to DNV Product Assurance AS, and this change is now applied when update the standards to latest standards. However, the product with previous marking of Presafe 16 ATEX 7985X and new marking DNV 22 ATEX 52701X are allowed to be used with service temperature -60°C to 110°C.

Type designation

OSSP, OSRA, & OSAJ

Electrical Data

N/A

Degrees of protection (IP Code)

IP66/68 according to EN 60079-0 & EN 60529

Service temperature:
-60°C to +110°C

Routine tests
N/A

[16] **Report No.:** 412335

[17] **Specific Conditions of Use**

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

[18] **Essential Health and Safety Requirements**

Met by compliance with the requirements mentioned in item 9.

[19] **Drawings and documents**

Number	Title	Rev.	Date
OS-DWG-OSAJ, OSRA, OSSP	Document List for OSAJ, OSRA, OSSP	05	2023-07-17

[20] **Certificate History**

Issue	Description	Issue date	Report no.
0	Original issue	2023-07-21	412335

END OF CERTIFICATE

ANNEX:

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	-

OSAJ		FEMALE THREAD SIZE											
		Metric Type(AJ-M)											
		M16	M20	M25	M32	M40	M50	M63	M75	M90	M100	-	
MALE THREAD SIZE	Metric Type(AJ-M)	M16	00	01	02	03	-	-	-	-	-	-	-
		M20	-	11	12	13	14	-	-	-	-	-	-
		M25	-	-	22	23	24	25	-	-	-	-	-
		M32	-	-	-	33	34	35	36	-	-	-	-
		M40	-	-	-	-	44	45	46	47	-	-	-
		M50	-	-	-	-	-	55	56	57	58	-	-
		M63	-	-	-	-	-	-	66	67	68	69	-
		M75	-	-	-	-	-	-	-	77	78	79	-
		M90	-	-	-	-	-	-	-	-	88	89	-
		M100	-	-	-	-	-	-	-	-	-	99	-

OSAJ		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	Metric Type(AJ-M)	M16	000	001	002	003	-	-	-	-	-	-	-
		M20	-	101	102	103	104	-	-	-	-	-	-
		M25	-	-	202	203	204	205	-	-	-	-	-
		M32	-	-	-	303	304	305	306	-	-	-	-
		M40	-	-	-	-	404	405	406	407	-	-	-
		M50	-	-	-	-	504	505	506	507	508	-	-
		M63	-	-	-	-	-	605	606	607	608	609	-
		M75	-	-	-	-	-	-	706	707	708	709	710
		M90	-	-	-	-	-	-	-	807	808	809	810
		M100	-	-	-	-	-	-	-	-	908	909	910

OSAJ		FEMALE THREAD SIZE											
		Metric Type(AJ-M)											
		M16	M20	M25	M32	M40	M50	M63	M75	M90	M100	-	
MALE THREAD SIZE	NPT Type(AJ-N)	3/8"	000	001	002	003	-	-	-	-	-	-	-
		1/2"	-	011	012	013	014	-	-	-	-	-	-
		3/4"	-	-	022	023	024	025	-	-	-	-	-
		1"	-	-	-	033	034	035	036	-	-	-	-
		1-1/4"	-	-	-	-	044	045	046	047	-	-	-
		1-1/2"	-	-	-	-	-	055	056	057	058	-	-
		2"	-	-	-	-	-	-	066	067	068	069	-
		2-1/2"	-	-	-	-	-	-	-	077	078	079	-
		3"	-	-	-	-	-	-	-	-	088	089	-
		3-1/2"	-	-	-	-	-	-	-	-	-	099	-

OSAJ		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"	0000	0001	0002	0003	-	-	-	-	-	-	-
		1/2"	-	0101	0102	0103	0104	-	-	-	-	-	-
		3/4"	-	-	0202	0203	0204	0205	-	-	-	-	-
		1"	-	-	-	0303	0304	0305	0306	-	-	-	-
		1-1/4"	-	-	-	-	0404	0405	0406	0407	-	-	-
		1-1/2"	-	-	-	-	-	0505	0506	0507	0508	-	-
		2"	-	-	-	-	-	-	0606	0607	0608	0609	-
		2-1/2"	-	-	-	-	-	-	-	0707	0708	0709	0710
		3"	-	-	-	-	-	-	-	-	0808	0809	0810
		3-1/2"	-	-	-	-	-	-	-	-	-	0909	0910