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# EU-TYPE EXAMINATION CERTIFICATE

[2] Product Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

[3] EU-Type Examination Certificate Number: **Presafe 17 ATEX 11456X** **Issue 4**

[4] Product: **Cable glands for non-armoured, armoured cable & braided cable**

[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 and 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 specified in the schedule to 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:

**I M2 Ex db I Mb / Ex eb I Mb**  
 **II 2 G Ex db IIC Gb / Ex eb IIC Gb**  
**II 2 D Ex tb IIIC Db**

Date of issue:  
2022-02-16



Asle Kaastad  
For DNV Product Assurance AS  
The Certificate has been digitally signed.  
See [www.dnv.com/digitalsignatures](http://www.dnv.com/digitalsignatures) for info

[13] **Schedule**

[14] **EU-Type Examination Certificate No:** Presafe 17 ATEX 11456X **Issue 4**

[15] **Description of Product**

Certificate covers the range of Cable glands for the type OS-E1UF / OS-E1UFWC/ OS-E1UF-EP/ OS-E1UF-MH/ OS-E1UF-MC and suitable for certified Ex d /e/tb enclosures. Glands can be made from aluminium, brass & stainless steel. Refer sizes for more details.

OS-E1UF cable glands are designed to be used with both armoured & braided cable glands.

OS-E1UFWC is a variant with clamping that guide the cable.

OS-E1UF-EP/ OS-E1UF-MH is a variant that has provision for flexible hose / flexible braid conduit that are welded to the compression unit and has no outer sealing ring. Flexible hose / flexible braid doesn't provide any Ex protection. This is additional protection for the cable. This variant doesn't have provision to include clamping for armour / braid.

OS-E1UF-MH is a variant that has provision for metal hose attached to the compression unit and has no outer sealing ring. Metal hose doesn't provide any Ex protection. This is additional protection for the cable. This variant doesn't have provision to include clamping for armour / braid.

OS-E1UF-MC is a variant used for metal clad cable

Clamping inserts allows 360° contact to the armour.  
Optionally lead sheath washer is provided for the electrical connection to a layer of lead or other metallic sheath.

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. 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).

**Type designation:**

OS-E1UF / OS-E1UFWC / OS-E1UF-EP/ OS-E1UF-MH / OS-E1UF-MC

Material: Aluminium, SS & Brass glands

**Sizes:**

Type OS-E1UF / OS- E1UFWC / OS-E1UF-EP/ OS-E1UF-MH OS-E1UF-MC	Entry		Diameter of Inner sheath mm		Diameter of outer sheath mm	
	Metric	NPT	Min	Max	Min	Max
* OS-E1UF 16	M16x1.5 M20x1.5	½"	5	11.5	9	15.5
OS-E1UF 20	M20x1.5 M25x1.5	½" or ¾"	7.5	15.2	13.2	20.5
OS-E1UF 25	M25x1.5	¾" or 1"	13	19.6	17	26

OS-E1UF 32	M32x1.5	1" or 1 ¼"	16.5	26.2	24	33.5
OS-E1UF 40	M40X1.5	1 ¼" or 1 ½"	23	32.3	30	41.5
OS-E1UF 50	M50X1.5	1 ½" or 2"	29	41.5	38	50
OS-E1UF 63	M63X1.5	2" or 2 ½"	39	50	45	60
OS-E1UF 63X	M63X1.5	2 ½"	46	55	55	66
OS-E1UF 75	M75X1.5/2	2 ½" or 3"	52	61	58	72
OS-E1UF 75X	M75X1.5/2	3"	59	67	66.1	79
OS-E1UF 90	M90x1.5/2	3" or 3 ½"	66	80	72	90
OS-E1UF 100	M100x1.5/2	3 ½" or 4 "	76	90.5	84	101.5
OS-E1UF 115	M115x1.5/2	4"	88	102	100	116
*-E1UFWC doesn't include the size						

### Degrees of protection (IP Code)

SS & Brass: IP66/67/68 according to EN 60079-0 & EN 60529

Aluminium Glands IP 66 / 67 according to EN 60079-0 & EN 60529

### Ambient temperature:

-60°C to +110°C

[16] **Report No.:** PRJN-326936-2021-PA-NOR

### [17] Specific Conditions of Use

Additional clamping of cable shall be installed to ensure that pulling and twisting is not transmitted to the terminal

### [18] Essential Health and Safety Requirements

Essential Health and Safety Requirements (EHSRs) are covered by the standards listed at item 9

### [19] Drawings and documents

Number	Title	Rev.	Date
OS-E1UF/OS-E1UF-EP/OS-E1UF-MH/OS-E1UFWC/OS-E1UF-MC	Document List for OS-E1UF Series	5	2021-12-07

### [20] Certificate History

Issue	Description	Issue date	Report no.
0	Original issue	2017-10-23	D0001780
1	Assessment to include E1UFWC	2018-12-19	D0001780-02
2	Assessment to aluminium cable glands and adjustments to dimensions of the minimum cable size for SS type and brass type glands not affecting the tests performed previously.	2019-10-30	D0003896
3	Assessment to aluminium cable glands for big sizes, corrected type errors from previous assessment & Assessment for Group I for the entire range of sizes. Inclusion of OS-E1UF-MH & OS-E1UF-EP variant.	2021-01-06	597789
4	Inclusion of metal clad cable OS-E1UF-MC	2021-02-16	326936

END OF CERTIFICATE