IBExU Institut für Sicherheitstechnik GmbH

An-Institut der TU Bergakademie Freiberg

[1] **EC-TYPE EXAMINATION CERTIFICATE**

according to Directive 94/9/EC, Annex III

(Translation)

[2] Equipment and Protective Systems intended for use in Potentially Explosive Atmospheres, Directive 94/9/EC

[3] EC-Type Examination Certificate Number: **IBExU08ATEX1013 X**

[4] Equipment: Screw plug
type V300-1xxx-zz

[5] Manufacturer: Jacob GmbH

[6] Address: Gottlieb-Daimler-Straße 11
71394 Kernen
GERMANY

[7] The equipment mentioned under [4] and any acceptable variation there to are specified in the schedule to this EC-Type Examination Certificate.

[8] IBExU Institut für Sicherheitstechnik GmbH, NOTIFIED BODY number 0637 in accordance with article 9 of the Council Directive 94/9/EC of 23rd March 1994, certifies that the under [4] mentioned equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of the equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.
The test results are recorded in the test report IB-07-3-347 of 22nd April 2008.

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN 60079-0:2006, EN 60079-7:2007, EN 61241-0:2006 and EN 61241-1:2004.

[10] If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified under [17] in the schedule to this EC-Type Examination Certificate.

[11] This EC-Type Examination Certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

[12] The marking of the equipment mentioned under [4] shall include one off the following:

Ⓔx II 2G Ex e II

Ⓔx II 2D Ex tD A21 IP 6X

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Authorised for certifications
-Explosion protection-

By order

(Dr. Lösch)

Zertifizierungsstelle Explosionsschutz * IBExU Institut für Sicherheitstechnik GmbH * Kenn-Nr. 0637 *
- Seal -
(ID no. 0637)

Freiberg, 23rd April 2008

Certificates without signature and seal are not valid. Certificates may only be duplicated completely and unchanged. In case of dispute, the German text shall prevail.

Schedule

[13] **Schedule**

[14] **to the EC-TYPE EXAMINATION CERTIFICATE IBExU08ATEX1013 X**

[15] **Description of equipment**

The screw plugs type V300-1xxx-zz serve for locking of not needed enclosure openings.

Type key:

V300-1xxx-zz

xxx = connection thread	012, 016, 020, 025, 032, 040, 050 and 063 (e.g. M12*1. 5)
zz = sealing ring	01 → O-ring from VMQ 02 → O-ring from EPDM 03 → O-ring from NBR

Technical data:

Type of protection :	Increased safety and Protection by enclosures	
Equipment Group and Category	II 2G / 2D	
Ambient temperature range:	-55 °C up to +95 °C	for O-ring from VMQ
	-40 °C up to +95 °C	for O-rings from EPDM and NBR
Degree of protection according to EN 60529:	IP 66, IP 68 (6 hours, 10 bar)	
according to DIN 50050:	IP X9k	

[16] **Test report**

The proof of explosion protection is recorded in detail in the test report IB-07-3-347. The test documents are part of the test report and are listed there.

Summary of the test results:

The screw plugs type V300-1xxx-zz fulfil the requirements of explosion protection for equipment of Group II, Category 2G, in type of protection Increased Safety and Category 2D with Protection by enclosures.

[17] **Special conditions for safe use**

- The fixed ambient temperature range is of -55 °C or -40 °C to +95 °C depending on the used O-ring.
- The screw plugs are only suitable for areas with low risk of mechanical danger.
- The use of the screws plugs of the sizes M50 and M63 in the proximity of high loading processes is not permitted for applications in the explosion group IIC.

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

Confirmed by compliance of standards (see [9]).

By order

(Dr. Lösch)

Freiberg, 23rd April 2008