



Safety instructions

Screw plugs

M20 x 1.5; M16 x 1.5

1/2 NPT; 3/8 NPT

BVS 16 ATEX E 006 X

Flameproof enclosures

Dust ignition protection by enclosure



CE 0044



Document ID: 50628



VEGA

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Supplementary documentation:

- EU type approval certificate BVS 16 ATEX E 006 X, Supplement 1 (Document ID: 50629)

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DE	Sicherheitshinweise für den Einsatz in explosionsgefährdeten Bereichen, verfügbar in den Sprachen deutsch, englisch, französisch und spanisch.
EN	Safety instructions for the use in hazardous areas are available in German, English, French and Spanish language.
FR	Consignes de sécurité pour l'utilisation en atmosphère explosible, disponibles dans les langues allemande, anglaise, française et espagnole.
ES	Instrucciones de seguridad para el empleo en áreas con riesgo de explosión, disponible en los siguientes idiomas alemán, inglés, francés y español.
CZ	Pokud nastanou potíže při čtení bezpečnostních upozornění v otištěných jazycích, poskytneme. Vám na základě žádosti k dispozici kopii v jazyce Vaší země.
DA	Hvis De har svært ved at forstå sikkerhedsforskrifterne på de trykte sprog, kan De få en kopi på Deres sprog, hvis De ønsker det.
EL	Εάν δυσκολεύεστε να διαβάσετε τις υποδείξεις ασφαλείας στις γλώσσες που ήδη έχουν τυπωθεί, τότε σε περίπτωση ζήτησης μπορούμε να θέσουμε στη διάθεσή σας ένα αντίγραφο αυτών στη γλώσσα της χώρας σας.
ET	Kui teil on raskusi trükitud keeltes ohutusnõuete lugemisega, siis saadame me teie järelpärimise peale nende koopia teie riigi keeles.
FI	Laitteen mukana on erikielisiä turvallisuusohjeita. Voit tilata meiltä äidinkielistet turvallisuusohjeet, jos et selviä mukana olevilla kielillä.
HU	Ha a biztonságos elõírásokat a kinyomtatott nyelveken nem tudja megfelelően elolvasni, akkor lépjen velünk kapcsolatba: azonnal a rendelkezésére bocsátunk egy példányt az Ön országában használt nyelven.
IT	Se le Normative di sicurezza sono stampate in una lingua di difficile comprensione, potete richiederne una copia nella lingua del vostro paese.
LT	Jeį Jums sunku suprasti saugos nuorodų tekstą pateiktomis kalbomis, kreipkitės į mus ir mes Jums duosime kopiją Jūsų šalies kalba.
LV	Ja Jums ir problēmas drošības noteikumus lasīt nodrukātajās valodās, tad mēs Jums sniegsim pēc pieprasījuma kopiju Jūsu valsts valodā.
MT	F'kaz li jkollok xi diffikulta' biex tifhem listruzzjonijiet ta' sigurta' kif ipprovduti, infurmana u ahna nibghatulek kopja billingwa tieghek.
NL	Als u moeite heeft met het lezen van de veiligheidsinstructies in de afgedrukte talen, sturen wij u op aanvraag graag een kopie toe in uw eigen taal.
PL	W przypadku trudności odczytania przepisów bezpieczeństwa pracy w wydrukowanych językach, chętnie udostępnimy Państwu kopię w języku obowiązującym w danym kraju.
PT	Caso tenha dificuldade de ler as instruções de segurança no idioma, no elas foram impressas, poderá solicitar junto a nós uma cópia em seu idioma.
SK	Pokiaľ nastanú problémy pri čítaní bezpečnostných pokynov vo vydaných jazykoch, poskytneme Vám na základe žiadosti k dispozícii kópiu v jazyku Vašej krajiny.
SL	Kadar se pojavijo težave pri branju varnostnih navodil v izdanih jeziki, vam bomo na osnovi zahtevka dali na razpolago kopijo v jeziku vaše države.
SV	Om du har problem att läsa säkerhetsanvisningarna på de här tryckta språken, ställer vi gärna på begäran en kopia på ditt språk till förfogande.

1 Area of applicability

These safety instructions apply to the "Ex d, Ex t" closing screws M20 x 1.5; M16 x 1.5; ½ NPT and ¾ NPT according to EU type approval certificate BVS 16 ATEX E 006 X.

2 General information

The operating instruments "Ex d, Ex t" closing screws M20 x 1.5; M16 x 1.5; ½ NPT and ¾ NPT according to the EU type approval certificate BVS 16 ATEX E 006 X are optionally made of stainless steel or brass nickel-plated. They are particularly used for closing free thread openings on respectively certified operating instruments of Messrs. VEGA.

The closing screws are suitable for applications in hazardous atmospheres of all combustible materials of explosion group IIA, IIB and IIC, for applications requiring instruments of category 1/2G or 2G and for the use in hazardous areas (due to combustible dust) of instrument group III, requiring instruments of category 1D or 2D.

The following must be taken into consideration when the closing screws are mounted and operated in the thread openings of instrument group II and II:

- For mounting, setup and maintenance of the operating instrument, the staff must be
 - respectively qualified for this tasks
 - trained in explosion protection
 - familiar with the respectively valid regulations, e.g. planning and mounting acc. to EN 60079-14
- The operating instruments have to be mounted according to the manufacturer specifications and the valid regulations and standards
- Modifications on operating instruments can influence the explosion protection and hence the safety
- Modifications must only be carried out by employees authorized by VEGA

Ignition protection label:

II 2G Ex db IIC Gb

II 1D Ex ta IIIC Da

3 Type list

Article number	Type of thread	Material	Material, seal	Recommended torque
2.35000	M20 x 1.5	Stainless steel	NBR	8 Nm
2.27370	M20 x 1.5	Brass, nickel-plated	NBR	8 Nm
2.45535	M16 x 1.5	Stainless steel	NBR	8 Nm
2.45536	M16 x 1.5	Brass, nickel-plated	NBR	8 Nm
2.30690	½ NPT	Stainless steel	--	50 Nm
2.22084	½ NPT	Brass, nickel-plated	--	50 Nm
2.45537	¾ NPT	Stainless steel	--	25 Nm
2.45538	¾ NPT	Brass, nickel-plated	--	25 Nm

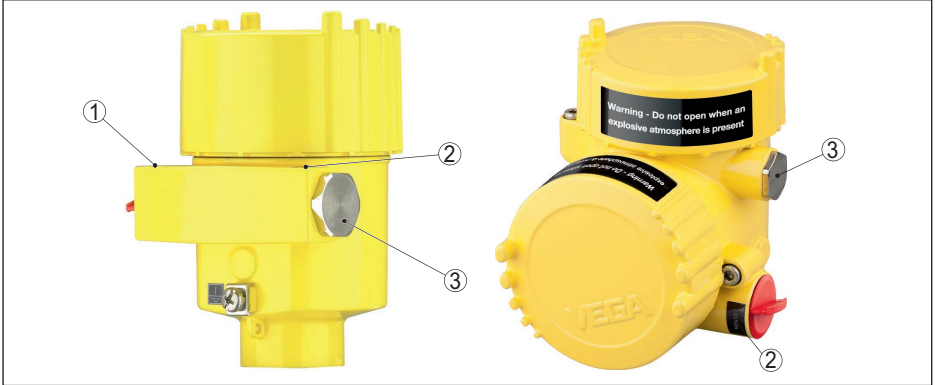
4 Application conditions

The maximum service temperature for Ex equipment blanking element type *.***** in Ignition protection type Ex ta with seal:

- NBR P 584, RF: -40 ... +100 °C
- NBR 70: -40 ... +80 °C

5 Special instructions for connection/mounting

- Before connecting the closing screw, first check the thread and the thread opening on the instrument on mechanical damages
- When connecting the closing screw mechanical damages on the screw and the instrument must be avoided
- Make sure that the thread and the thread size corresponds to the opening. Take note of the label near the thread including the information, see example



- 1 Label: Type and size of the thread
 $\frac{1}{2}$ -14 NPT or M20 x 1.5
- 2 Label: Type and size of the thread
 $\frac{1}{2}$ -14 NPT or M20 x 1.5
- 3 Screw plug

- Only use the closing screws if they are suitable according to ignition protection type and the application. Take note of the selection criteria acc. to EN 60079-14
- Mount the closing screws properly, to ensure the IP protection rating specified on the type label
 - If necessary note the attached mounting instructions, also for seals
 - If necessary, take note of the instruction for the torque
- Use closing screws only in applications against which wetted materials are sufficiently resistant
- Connection/mounting of the closing screws must only be carried out on metal housings
- In Ex-d applications, a screw-in depth ≥ 8 mm must be ensured in the version with metrical thread taking the undercut into account

6 Seals, only versions M20 x 1.5, M16 x 1.5

In the metrical version, an O-ring is placed into the "Undercut" on the thread.

Material: NBR

The materials are suitable for the specified temperature range of the closing screw.

7 Torque

The torque for connecting the closing screw is stated in the table under chapter "Type list"





Printing date:

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All statements concerning scope of delivery, application, practical use and operating conditions of the sensors and processing systems correspond to the information available at the time of printing.

Subject to change without prior notice

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VEGA Grieshaber KG
Am Hohenstein 113
77761 Schiltach
Germany

Phone +49 7836 50-0
Fax +49 7836 50-201
E-mail: info.de@vega.com
www.vega.com