

## IMQ 13 ATEX 018X / IECEx IMQ 13.0006X

### GLAND TYPES FOR CIRCULAR CABLES



OCTANS-EBU



VELA-EBS

### GLAND TYPES FOR FLAT CABLES

OCTANS-EBU(axb)\*

VELA-EBS(axb)\*

\*Only for Ex eb / Ex tb execution.



**bimed**  
TEKNİK ALETLER SANAYİ VE TİCARET A.Ş.

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## MARKINGS

BMD EBU..	CE 0722 Ex	IIGD Ex db IIC Gb Ex eb IIC Gb Ex tb IIIC Db IP66/68 IMQ 13 ATEX 018X /IECEx IMQ 13.0006X
BMD EBS..	CE 0722 Ex	IIGD Ex db IIC Gb Ex eb IIC Gb Ex tb IIIC Db IP66/68 IMQ 13 ATEX 018X /IECEx IMQ 13.0006X
BMD EBU..(axb)	CE 0722 Ex	IIGD Ex eb IIC Gb Ex tb IIIC Db IP66/68 IMQ 13 ATEX 018X /IECEx IMQ 13.0006X
BMD EBS..(axb)	CE 0722 Ex	IIGD Ex eb IIC Gb Ex tb IIIC Db IP66/68 IMQ 13 ATEX 018X /IECEx IMQ 13.0006X

## APPLICABLE STANDARDS

DIRECTIVE 2014/34/EU	EN/IEC 60079-7
EN/IEC 60079-0	EN/IEC 60079-31
EN/IEC 60079-1	EN/IEC 60529

## OPERATING TEMPERATURES

For Ex db, Ex eb, Ex tb execution,  
supplied with Silicon sealing rings, O-rings or washers: Ta -60°C +80°C  
supplied with Chloroprene sealing rings, O-rings or washers: Ta -40°C +80°C  
For Ex eb, Ex tb execution,  
supplied with Silicon sealing rings, O-rings or washers: Ta -60°C +140°C  
supplied with Chloroprene sealing rings, O-rings or washers: Ta -40°C +80°C

Rev. 06

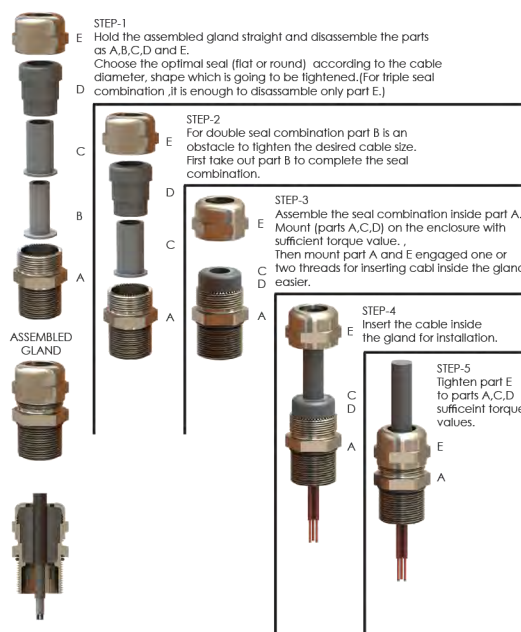
## 2 OCTANS & VELA PARTS

OCTANS		VELA	
Nr.	Items	Nr.	Items
A	Body	B	Inner seal
B	Inner seal	C	Middle seal
C	Middle seal	D	Outer seal
D	Outer seal	E	Cap
E	Cap	F	Pressurering
F	O-ring	G	Spring
G	Dome Plug	H	O-ring
H	Washer	I	Washer

### SEALING COMBINATIONS



## 3 Mounting Instruction for OCTANS (EBU)



## 4 Mounting Instruction for VELA (EBS)



- Qualified personnel in compliance with the nation laws shall carry out the maintenance in accordance with EN/IEC 60079-17 and installation in accordance with EN/IEC 60079-14.
- Changes to products are not allowed.
- Only Bimex spare parts must be used.
- Everyday and extraordinary maintenance operations must be carried out only by qualified personnel after approval from expert technicians.
- The maintenance operations must be carried out only after the engine has been cut off from mains or from the related electrical appliance.
- The following instructions must be strictly followed in order to get a correct installation.
- The national safety rules and accident prevention regulations, must be strictly respected.
- In case of ambient temperature is below -30°C, austenitic steels must be used according to EN10213-3 (Brass or Stainless steel AISI 316)
- The clamping of the cables must be realised outside of enclosure by appropriate torque values to guarantee the mechanical characteristics.
- The cable glands can be used with Ex i circuits.
- The cable glands are only suitable for fixed installations. Cables shall be effectively clamped to prevent pulling or twisting.
- The cable gland installation shall be done according to safety manufacturer instructions to maintain degree of protection.
- Cable gland installation shall be done taking into account the temperature range declared for cable glands in relation to protection mode execution, versus the ambient temperature proper of installation.
- When cable glands are installed with polyamide insert BDPX..., mechanical risk have to taken into account, depending on cable gland and insert tap. The upper operating temperature is limited to 70oC. When insert tap is removed in order to install to proper cable, the integrity of sealing rings have to be checked, in order to guarantee the correct tightness. If necessary, sealing rings have to be replaced with new ones. Precautions shall be taken in order to guarantee protection against risk of mechanical damage is provided, when insert taps are suitable for low mechanical risk (4U) only.
- Cable glands for non-circular cables shall be fitted with proper cables, suitable for sealing ring, according to manufacturer's instruction.
- The certificate does not indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed in the first page of the manuel.
- The certificate does not cover hazards coming from environmental conditions different from those clearly and precisely indicated in clause 1 of EN 60079-0.
- Flat washer material should be same material with the inner sealing of the gland. Service temperature of the gland is related to the material of the sealing ring but can additionally be limited by the material of the flat washer/oring/accessories.

## IP protection for Non Threaded enclosure applications (Except for Ex db)

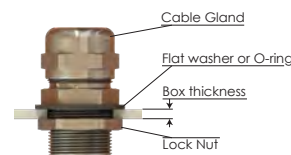
Metric Threads		G Threads (GAS UNI ISO 228/1)		PG Threads	
Thread	Hole Diameter (min. - max. mm)	Thread	Hole Diameter (min. - max. mm)	Thread	Hole Diameter (min. - max. mm)
M8x1.25	8.0-8.2	G 1/4"	13.2-13.4	PG 7	12.5-12.7
M12x1.5	12.0-12.2	G 3/8"	16.6-16.8	PG 9	15.2-15.4
M16x1.5	16.0-16.2	G 1/2"	21.0-21.2	PG 11	18.6-18.8
M20x1.5	20.0-20.2	G 3/4"	26.4-26.6	PG 13.5	20.4-20.6
M25x1.5	25.0-25.2	G 1"	33.3-33.6	PG 16	22.5-22.7
M32x1.5	32.0-32.3	G 1 1/4"	41.9-42.2	PG 21	28.3-28.5
M40x1.5	40.0-40.3	G 1 1/2"	47.8-48.1	PG 29	37.0-37.3
M50x1.5	50.0-50.3	G 2"	59.6-59.9	PG 36	47.0-47.3
M63x1.5	63.0-63.3	G 2 1/2"	75.2-75.5	PG 42	54.0-54.3
M75x1.5	75.0-75.3	G 3"	87.9-88.2	PG 48	59.3-59.6
M90x1.5	90.0-90.3	G 4"	113.1-113.4		
M100x1.5	100.0-100.3	G 5"	138.5-138.8		
M110x1.5	110.0-110.3				
M115x2.0	115.0-115.3				
M130x2.0	130.0-130.3				

Recommended Hole Diameters For Non Threaded enclosure applications in relation with the used thread types are shown above.

For non-threaded enclosures it is recommended to use flat washer between the gland body and enclosure. The recommended wall thickness is 1,5 mm for non threaded enclosures. For non-threaded enclosures, in case of enclosure wall thickness is equal or lower than 1,5 mm, Bimex flat washer should be used. Oring can stay in the channel if it is necessary. During the assembly it is recommended to rotate the locknut. If the assembly needs to be done by rotating the gland, then oring should be preferred.

Ingress Protection: In order to guarantee the specified IP66/68 rating, sealant agent shall be applied on at least two full threads before fitting the gland to the box. In any case you must pay attention to guarantee the metallic continuity. For threaded enclosures min. wall thickness must be equal to the thickness of the relevant

## IP Protection for Cylindrical Threaded Joints

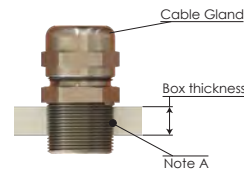


- Ex d Execution:**
- Assemble the gland with o-ring or flat washer through the threaded hole.
  - The wall has to be thick enough to engage at least 5 full threads.
  - The minimum engaged thread depth must be at least 8 mm.

**Ex e & Ex tb Execution:**

- Assemble the gland with o-ring or flat washer through the threaded hole.
- You have to respect the minimum wall thickness of 1,5 mm.

## IP Protection for Tapered Threaded Joints



- Ex d Execution:**
- The wall has to be thick enough to engage at least 5 full threads.

- Ex e & Ex tb Execution:**
- For ex applications please refer to NPT ANSI B1.20.1 standard.

NPT"	Minimum Engaged Thread Depth	
	mm	inch
1/4	7,055	0,277
3/8	9,050	0,277
1/2	9,070	0,357
3/4	9,070	0,357
1	11,045	0,434
1 1/4	11,045	0,434
1 1/2	11,045	0,434
2	11,045	0,434
2 1/2	15,875	0,625
3	15,875	0,625
4	15,875	0,625
5	15,875	0,625

Outer Thread Size (Male)	Clamping Range			Torque			Part Number
	S1+S2+S3 min-max mm	S1+S2 min-max mm	S1 min-max mm	S1+S2+S3 N/m	S1+S2 N/m	S1 N/m	
M12x1,5	4-6 - 3-6	6-8 - 6-8	-	20 - 18	25 - 25	18 - 18	EBU0SM EBU0M
M16x1,5	- 3-6 4-6 6-9	6-9 9-12	-	20 18	25 15	18 15	EBU015M EBU01M
M20x1,5	- 3-6 4-6 6-9	6-9 9-12	-	20 18	25 18	18 15	EBU1SM EBU1M
M25x1,5	10-12 12-14,5	12-14,5 14,5-16	-	25 20	22 20	18 18	EBU12M EBU2SM
M32x1,5	14-17 17-20	20-24 27-28	14,5-18	25 20	28 23	20 18	EBU2M EBU3SM EBU3M
M40x1,5	22-24 24-27	27-28 31-34	20-24	28 23	34 34	20 18	EBU34M EBU4SM EBU45M
M50x1,5	22-24 26-28	24-27 27-32	27-32	56 54	50 50	50 45	EBU5SM EBU5M EBU56M
M63x1,5	26-28 35-38	28-31 31-35	31-35	57 55	52 52	52 52	EBU6SM EBU6M EBU67M
M75x1,5	35-38 46-48	38-41 48-52	41-45	190 130	125 120	140 120	EBU7SM EBU7M EBU8SM
M90x1,5	46-51 60-65	51-56 56-62	56-62	185 175	175 150	175 150	EBU8SM EBU8M EBU810M
M100x1,5	60-65 75-78	65-70 78-81	70-75	123 130	125 120	118 110	EBU10SM EBU10SM
M110x1,5	75-78 85-88	78-81 88-91	81-85	130 155	125 120	120 170	EBU11SM EBU11SM
M115x2,0	85-88 95-98	88-91 98-101	91-95	180 170	175 170	175 170	EBU115SM EBU115SM
M130x2,0	105-108 108-111	108-111 111-115	111-115	526 500	500	535	EBU13SM

Note: These torque values are recommended according to the tests performed in Bimex Laboratory.

Outer Thread Size (Male)	Clamping Range			Torque			Part Number
	S1+S2+S3 min-max mm	S1+S2 min-max mm	S1 min-max mm	S1+S2+S3 N/m	S1+S2 N/m	S1 N/m	
M16x1,5	-	4-6	6-8	-	25	18	EBS01MS EBS01M
M20x1,5	4-6	6-9	9-12	20	18	15	EBS1M
M25x1,5	10-12	12-14,5	14,5-18	25	20	18	EBS2M
M32x1,5	14-17	17-20	20-24	25	20	18	EBS3M
M40x1,5	22-24	24-27	27-32	56	35	45	EBS4M
M50x1,5	26-28	28-31	31-35	56	54	50	EBS5M
M63x1,5	35-38	38-41	41-45	190	155	140	EBS6M
M75x1,5	46-51	51-56	56-62	185	175	150	EBS7M
M90x1,5	60-65	65-70	70-75	123	118	110	EBS8M
M100x1,5	75-78	78-81	81-85	130	125	120	EBS10M
M110x1,5	85-88	88-91	91-95	155	160	170	EBS11M

Note: These torque values are recommended according to the tests performed in Bimex Laboratory.

Size	Plug Ø P mm	Dome Ø D mm	Part Number
15	5,8	15,0	BDPX-15-21
22	11,8	21,5	BDPX-22-20
28	16,8	27,5	BDPX-28-21
36	23,8	36,0	BDPX-36-21
40	27,8	40,0	BDPX-40-21
50	37,8	50,0	BDPX-50-21
63	47,8	63,0	BDPX-63-21



**bimex**

Bimex Teknik Aletler San. ve Tic. A.Ş.  
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declares that the products designed to be placed on the market for use in the explosive atmospheres described below:

Cable Gland Types:	EBU, EBS, EBL, EBLQ, EBM, EBMS, EBLN
are in execution II 2GD Ex db IIC Gb Ex eb IIC Gb Ex tb IIC Db IP66/68 with certificate number, IMQ 13 ATEX 018X	
Cable Gland Types:	EBU(axb), EBS(axb), EBL(S)(axb), EBLQ(axb), EBM(C)(axb), EBM(S)(axb), EBLN(axb), NBU
are in execution II 2 GD Ex db IIC Gb Ex tb IIIC Db IP66/68 with certificate number, IMQ 13 ATEX 018X	

The dispositions applied of them directive: ATEX 2014/34/EU

The harmonized standards applied: EN 60079-0:2012+A11:2013  
EN 60079-1:2014  
EN 60079-7:2015  
EN 60079-31:2014

These products has been designed, manufactured and controlled within the guidelines of a quality insurance system which is certificated to be conform with ISO 9001 and EN ISO 80079-3<sub>1</sub>.  
Notified body CESI 0722

Istanbul, 10.10.2016

General Manager

Yakup Gülhanlı

bimex

TEKNIK ALETLER SANAYİ VE TİCARET A.Ş.

SANAYİ SİTESİ LEFKAK CAD. NO:16 BEYLİKDÜZÜ İSTANBUL

**IMQ 13 ATEX 018X / IECEx IMQ 13.0006X**

**PRESSE-ETOUPES POUR CABLES RONDS**



OCTANS-EBU



VELA-EBS

**PRESSE-ETOUPES POUR CABLES PLATS**

OCTANS-EBU(axb)\*

VELA-EBS(axb)\*

\*Seulement pour l'exécution d'Exeb / Ex tb.



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- 2 PIECES D'OCTANS ET DE VELA
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- 4 INSTRUCTION DE MONTAGE DE VELA (EBU)
- 5 INSTRUCTION DE SECURITE
- 6 INSTRUCTION DE SECURITE (PROTECTION IP)
- 7 INSTRUCTION DE SECURITE (PROTECTION IP)
- 8 LE TABLEAU DE TAILLES D'OCTANS (EBU)
- 9 LE TABLEAU DE TAILLES DE VELA (EBS)
- 10 LE TABLEAU DE TAILLES DE VELA BOUCHON DÔME (BDPX)
- 11 ASSURANCE DE CONFORMITE UNION EUROPEENNE

**MARQUAGES**

BMD EBU..	CE 0722	II2GD Ex db IIC Gb Ex eb IIC Gb Ex tb IIIC DblP66/68 IMQ 13 ATEX 018X /IECEX IMQ 13.0006X
BMD EBS..	CE 0722	II2GD Ex db IIC Gb Ex eb IIC Gb Ex tb IIIC DblP66/68 IMQ 13 ATEX 018X /IECEX IMQ 13.0006X
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BMD EBS..(axb)	CE 0722	II2GD Ex eb IIC Gb Ex tb IIIC Db IP66/68IMQ 13 ATEX 018X /IECEX IMQ 13.0006X

**NORMES APPLICABLES**

DIRECTIVE 2014/34/EU	EN/IEC 60079-7
EN/IEC 60079-0	EN/IEC 60079-31
EN/IEC 60079-1	EN/IEC 60529

**TEMPERATURES D'OPERATION**

pour l'exécution d' Ex db, Ex eb, Ex tb, fournis avec Bague d'étanchéité en silicone, Joints toriques ou joints plats: Ta: -60°C +80°C pour l'exécution d'Ex eb, Ex tb fournis avec Bague d'étanchéité en silicone, Joints toriques ou joints plats: Ta: -60°C +80°C pour l'exécution d'Ex eb, Ex tb fournis avec Bague d'étanchéité en silicone, Joints toriques ou joints plats: Ta: -60°C +140°C fournis avec Bague d'étanchéité en chloroprène, Joints toriques ou joints plats: Ta: -40°C +80°C

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**2 PIECES D'OCTANS ET DE VELA**

**3 INSTRUCTION DE MONTAGE D'OCTANS (EBU)**

**4 INSTRUCTION DE MONTAGE DE VELA (EBU)**

- OCTANS
- |     |                 |
|-----|-----------------|
| Nr. | Eléments        |
| A   | Corps           |
| B   | Joint intérieur |
| C   | Joint centraux  |
| D   | Joint extérieur |
| E   | Capuchon        |
| F   | Joint torique   |
| G   | Bouchon dôme    |
| H   | Joint plat      |

- VELA
- |     |                   |
|-----|-------------------|
| Nr. | Eléments          |
| A   | Corps             |
| B   | Joint intérieur   |
| C   | Joint centraux    |
| D   | Joint extérieur   |
| E   | Capuchon          |
| F   | Bague de pression |
| G   | Ressort           |
| H   | Joint torique     |
| I   | Joint plat        |

**COMBINAISONS DES ETANCHEITES**



**ETAPE-1**  
Tenir le presse-étoupe droit et démonter les pièces A,B,C,D et E. Choisir un joint optimal (plat ou rond) selon le diamètre du câble et la forme qui sera serrée. (Pour la combinaison de joint triple, il suffit de démonter seulement la pièce E)

**ETAPE-2**  
Pour la combinaison de joint double est un obstacle au serrage de diamètre de câble souhaité. Premièrement désassembler la pièce B afin de compléter la combinaison de joint.

**ETAPE-3**  
Assembler le joint combiné dans la pièce A. Monter (les pièces A,C,D) sur la boîtier en appliquant une valeur de couple suffisante. Et après monter les pièces A et E en s'engageant un ou deux filets pour insérer plus facilement le câble dans le presse-étoupe.

**ETAPE-4**  
Insérer le câble dans le presse-étoupe pour montage.

**ETAPE-5**  
Serrer les pièces E et A,C,D en appliquant une valeur de couple suffisante.

**ETAPE-1 :**  
Tenir le presse-étoupe droit et démonter les pièces A,B,C,D et E. Choisir un joint optimal (plat ou rond) selon le diamètre du câble et la forme qui sera serrée. (Pour la combinaison de joint triple, il suffit de démonter seulement la pièce E)  
\*\* Bague de pression et ressort sont à l'intérieur de pièce A.

**ETAPE-2 :**  
Pour la combinaison de joint double est un obstacle au serrage de diamètre de câble souhaité. Premièrement désassembler la pièce B afin de compléter la combinaison de joint.

**ETAPE-3:**  
Assembler le joint combiné dans la pièce A. Monter (les pièces A,C,D) sur la boîtier en appliquant une valeur de couple suffisante. Et après monter les pièces A et E en s'engageant un ou deux filets pour insérer plus facilement le câble dans le presse-étoupe.

**ETAPE-4 :**  
Insérer le câble dans le presse-étoupe pour montage.  
Place l'armure dans le ressort (G) Couper les pièces excessives de la gaine de câble et l'armure.





IMQ 13 ATEX 018X / IECEx IMQ 13.0006X

WARTELTYPES VOOR RONDE KABELS



OCTANS-EBU



VELA-EBS

WARTELTYPES VOOR PLATTE KABELS

OCTANS-EBU(axb)\*

VELA-EBS(axb)\*

\*Alleen voor Ex eb / Ex tb uitvoering.



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- 1 MARKERING EN NORMEN
- 2 OCTANS & VELA ONDERDELEN
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## MARKERING

BMD EBU..	CC 0722	II2GD Ex db IIC Gb Ex eb IIC Gb Ex tb IIIC DblP66/68 IMQ 13 ATEX 018X /IECEx IMQ 13.0006X
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## NORMEN

RICHTLIJN 2014/34/EU	EN/IEC 60079-7
EN/IEC 60079-0	EN/IEC 60079-31
EN/IEC 60079-1	EN/IEC 60529

## BEDRIJFSTEMPERATUREN

voor Ex db, Ex eb, Ex tb uitvoering,  
geleverd met siliconen rubbers, o-ringen of dichtingen: Ta-60°C +80°C  
geleverd met siliconen rubbers, o-ringen of dichtingen: Ta -40°C +80°C  
voor Ex eb, Ex tb uitvoering,  
geleverd met siliconen rubbers, o-ringen of dichtingen Ta-60°C +140°C  
geleverd met siliconen rubbers, o-ringen of dichtingen: Ta -40°C +80°C

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## 2 OCTANS & VELA ONDERDELEN

- |            |                  |            |                  |
|------------|------------------|------------|------------------|
| <b>Nr.</b> | <b>Items</b>     | <b>Nr.</b> | <b>Items</b>     |
| A          | Body             | A          | Body             |
| B          | Binnenste rubber | B          | Binnenste rubber |
| C          | Middelste rubber | C          | Middelste rubber |
| D          | Buitenste rubber | D          | Buitenste rubber |
| E          | O-ring           | E          | Cap              |
| F          | Afsluitdop       | F          | Drukring         |
| G          | O-ring           | G          | Veerring         |
| H          | Dichting         | H          | O-ring           |
|            |                  | I          | Dichting         |



### VELA



### RUBBERCOMBINATIES



**STAP-1**  
Houd de geassembleerde wartel recht en demonteer de onderdelen als A, B, C, D en E.  
Kies de optimale rubber (plat of rond) op basis van de kabeldiameter, de vorm die zal worden vastgedraaid. (Voor drievoudige rubbercombinatie is het voldoende om alleen deel E uit elkaar te halen.)

**STAP-2**  
Voor dubbele rubbercombinatie is deel B een obstakel om de gewenste kabeldikte te klemmen. Neem eerst deel B weg om de combinatie van rubbers te voltooien.

**STAP-3**  
Installeer de rubbercombinatie binnen deel A. Installeer (delen A, C, D) op de behuizing met voldoende koppel, installeer vervolgens delen A en E met twee draadgangen om de kabel gemakkelijker in de wartel te steken.

Steek de kabel in de wartel voor de installatie.

**STAP-5**  
Draai deel E aan de delen A, C, D met voldoende koppel.

## 3 INSTALLATIE-INSTRUCTIES (EBU)

## 4 INSTALLATIE-INSTRUCTIES VELA (EBS)



**STAP-1**  
Houd de geassembleerde wartel recht en demonteer de onderdelen als A, B, C, D en E.  
Kies de optimale rubber (plat of rond) op basis van de kabeldiameter, de vorm die zal worden vastgedraaid. (Voor drievoudige rubbercombinatie is het voldoende om alleen deel E te demonteer.)  
\*\* Drukking en veerring zitten in onderdeel A OCTANS

**STAP-2**: Voor dubbele E-rubbercombinatie vormt deel B een obstakel om de gewenste kabeldikte te klemmen. Haal eerst deel B weg om de rubbercombinatie te voltooien.

**STAP-3**: Installeer rubbercombinatie in deel A. Installeer (onderdelen A, C, D) op de behuizing met voldoende koppel. Installeer vervolgens delen A en E met twee draadgangen om de kabel gemakkelijker in de wartel te steken.

**STAP-4**: Steek de kabel in de wartel voor installatie. Plaats de bewapening in de veerring (G). Snijdt de overvoltage delen van de kabelmantel af voordat u met de installatie begint.

Draai onderdeel E op delen A, C, D voldoende koppelwaarden.



