

# SEALING NIPPLES

series  
**GN**

Protection	Gas	1-2	II2G	Ex d IIC Gb - Ex e IIC Gb - Ex de IIC Gb
	Dusts	21-22	II2D	Ex tb IIIC Db
	Mine	n.d.	IM2	Ex de IMb


Degree of Protection	IP66
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Amb. Temp.	Standard	-20°C	+40°C
	Extended	-40°C	+135°C

Entries Threading	NPT ANSI B1.20
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Material	Zinc plated Steel
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Standards and Certificates



Directive 2014/34/EU (ATEX)

EN 60079-0 • EN 60079-1  
EN 60079-7 • EN 60079-31

U ICEPI 10 ATEX 03C006U

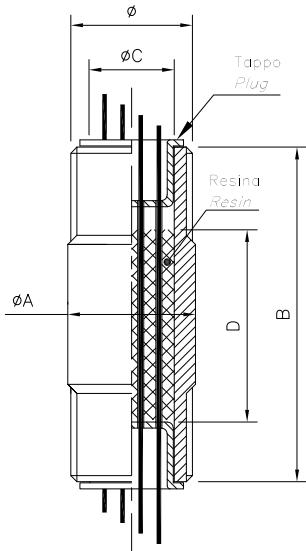


- Compact, economical and easy-to-use are used in all those cases where space does not allow the use of a traditional sealing joint.
- Suitable for use on group IIC enclosures and / or having a no limits of volume.
- Standard material: Galvanized steel
- Standard thread: NPT

**Options**

- Threading EN 10226 (Gk) or Metric ISO 262 (M).

- Material: Stainless Steel AISI 316, Brass.



Code	Dimensions (mm)(Values in brackets are referred to metric version)		
	Ø	B	D
GN 1	1/2" - M20 x 1,5	48.5 - 50	≥ 25
GN 2	3/4" - M25 x 1,5	47.5 - 50	≥ 25
GN 3	1" - M32 x 1,5	58.5 - 60	≥ 30
GN 4	1.1/4" - M40 x 1,5	62.0 - 60	≥ 35
GN 5	1.1/2" - M50 x 1,5	62.5 - 60	≥ 35
GN 6	2" - M63 x 1,5	63.5 - 60	≥ 35

**H**

### Electrical conductors in the sealing nipples

Section sqmm	0.5 ÷ 1.5	2.5	4	6	10	16	25	35	50	70
<b>Nipples</b>	<b>Maximum number of wires</b>									
GN 1	7	5	4	-	-	-	-	-	-	-
GN 2	13	9	7	4	3	-	-	-	-	-
GN 3	21	15	11	7	4	3	-	-	-	-
GN 4	36	25	19	11	8	6	4	-	-	-
GN 5	52	36	28	16	11	8	5	4	3	-
GN 6	85	59	45	26	18	13	9	7	5	4

### Example: GN 3 G S

**Order Coding**

Type	Size	Threading (if different from NPT)	Material
GN	1/2/3/4/5/6	G = EN 10226 (Gk) I = Metric ISO 262	G = Zinc plated Steel S = Stainless Steel AISI 316 B = Chrome plated Brass A = Aluminum

# SEALING BUSHING

series  
TL

Protection	Gas	1-2	II2G	Ex d IIC Gb - Ex e IIC Gb
	Dusts	21-22	II2D	Ex tb IIIC Db
	Mine	n.d.	IM2	Ex d e I Mb


Degree of Protection	IP66
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Amb. Temp.	Standard	-20°C	+40°C
	Extended	-40°C	+135°C

Entries Threading	Metric ISO 262
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Material	Nickel plated Brass
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Standards and Certificates



Directive 2014/34/EU (ATEX)

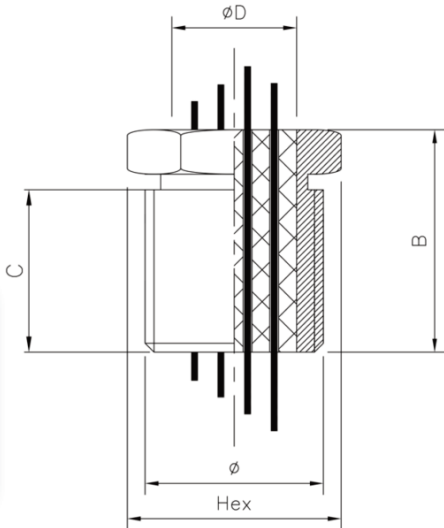
EN 60079-0 • EN 60079-1  
EN 60079-7 • EN 60079-31

U ICEPI 10 ATEX 03C006U



- Compact, economical and easy-to-use are used in all those cases where space does not allow the use of a traditional sealing joint.
- Suitable for use on group IIC enclosures and / or having a volume > 2000 cm<sup>3</sup>.
- Standard material: nickel plated brass

Options - Material: Stainless Steel AISI 316.



Code	Dimensions (mm)				
	Ø	Hex	B	C	ØD
TL 20	M20x1.5	27	30	22.5	14
TL 25	M25x1.5	30	30	22.5	19
TL 32	M32x1.5	40	35	23.5	25
TL 40	M40x1.5	49	40	26.5	32
TL 50	M50x1.5	62	40	24.5	40
TL 63	M63x1.5	78	40	24.5	52

## Electrical conductors in the sealing nipples

Section (sqmm)	0.5 ÷ 1.5	2.5	4	6	10	16	25	35	50	70
Type	Maximum number of wires									
TL 20	7	5	4	-	-	-	-	-	-	-
TL 25	13	9	7	4	3	-	-	-	-	-
TL 32	21	15	11	7	4	3	-	-	-	-
TL 40	36	25	19	11	8	6	4	-	-	-
TL 50	52	36	28	16	11	8	5	4	3	-
TL 63	85	59	45	26	18	13	9	7	5	4

## Example: TL 32S

Order Coding

Type	Size	Material
TL	20/25/32/40/50/63	B = Nickel plated Brass S = Stainless Steel AISI 316

# SEALING JOINTS

series  
**EZS**  
**EYS**

Protection	Gas	1-2	II2G	Ex d IIC Gb
	Dusts	21-22	II2D	Ex tb IIIC Db

Degree of Protection	IP66
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Amb. Temp.	Standard	-20°C	+40°C
	Extended	-20°C	+100°C



Material	Aluminum light alloy
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Entries Threading	NPT ANSI B1.20
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**Standards and Certificates**

Directive 2014/34/EU (ATEX)

EN 60079 - 0 • EN 60079 - 1  
EN 60079 - 31

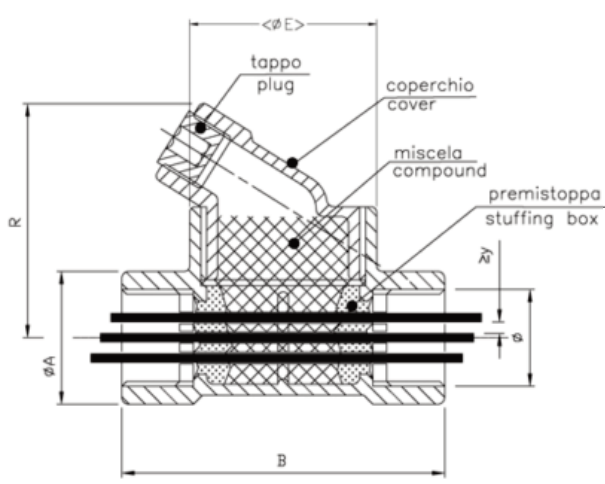
CE CESI 03 ATEX 085X

IEC 60079 - 0 • IEC 60079 - 1  
IEC 60079 - 31

IECEx CES 14.0019X

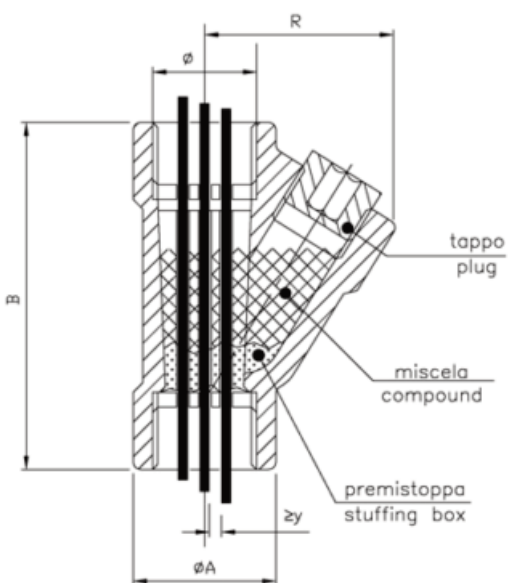
- Recommended for sectioning the conduits preventing the flame propagation either from a part of the installation to another one or from an enclosure to another one.
- Side opening for pouring cold locking mixture CRV 420.
- Series EZS ... is suitable for both VERTICAL and HORIZONTAL piping, while series EYS ... is suitable **only** for VERTICAL piping.
- The sealing joints assume the temperature class of the apparatus on which they are installed.

**Options** - Material: Stainless Steel. - Other threadings (Metric ISO 262 M..x1,5).



Code	Dimensions (mm)						Weight (g)	Resin Weight* (g)
	Ø	ØA	B	R	ØE	y		
EZS 1	1/2"	34	74	66	63	1.5	230	140
EZS 2	3/4"	34	74	66	63	1.5	220	140
EZS 3	1"	42	74	71	63	2	240	140
EZS 4	1.1/4"	60	98	78	90	2	530	390
EZS 5	1.1/2"	60	98	78	90	2.5	495	390
EZS 6	2"	70	130	88	90	2.5	640	570
EZS 7	2.1/2"	103	142	108	112	3	1400	1400
EZS 8	3"	103	142	108	112	3	1700	1400

\* Approximate weight of CRV 420 resin required to seal.  
**IMPORTANT:** instructions for sealing the joints on the following page.



Code	Dimensions (mm)					Weight (g)	Resin Weight* (g)
	Ø	ØA	B	R	y		
EYS 1	1/2"	32	77	44	1.5	100	35
EYS 2	3/4"	34	87	51	1.5	150	50
EYS 3	1"	44	105	62	2	240	100

\* Approximate weight of CRV 420 resin required to seal.  
**IMPORTANT:** instructions for sealing the joints on the following page.

The size and the maximum number of conductors in the following tables refer to the type N07V-K with PVC insulation quality R2. The conductors type N07V-K comply with the national standards CEI 20-35 (CENELEC HD 405-1), CEI 20-22 CEI 20-37 II and I.

As alternative, the conductors may have different isolation (gommapprene, neoprene, etc..) providing they conform to CENELEC for nominal characteristics and mode of use.

In any case, the maximum number of conductors referred to the same section for the same diameter will be determined by observing the dimension "y" in the tables in the preceding page.

The same sealing joint can be used with wires of different section as long it is respected the "y" dimension of the sealing joint under consideration.

**Electrical Conductors in Sealing Joints Series EZS**

Ext. Max. Ø	3.5	4.2	4.8	6.3	7.6	8.8	11	12.5	14.5	17	19	21	23.5	26	29.5
Section mm <sup>2</sup>	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240
JOINTS	Max number of Conductors														
<b>EZS 1</b>	4	3	2	1	1	1	1	--	--	--	--	--	--	--	--
<b>EZS 2</b>	8	5	4	3	1	1	1	1	1	--	--	--	--	--	--
<b>EZS 3</b>	10	8	8	4	3	2	1	1	1	1	--	--	--	--	--
<b>EZS 4</b>	16	13	11	8	7	4	3	1	1	1	1	--	--	--	--
<b>EZS 5</b>	18	16	15	8	8	6	4	4	2	1	1	1	1	--	--
<b>EZS 6</b>	30	20	20	15	10	9	8	7	3	3	2	1	1	1	--
<b>EZS 7</b>	40	35	28	21	18	19	12	8	6	4	4	3	2	--	--
<b>EZS 8</b>	50	42	35	30	25	20	12	10	8	7	5	4	3	2	--

### Instructions for making the sealing of the joints series EZS ...

1. Remove the cap.
2. Prepare with the utmost care a "stuffing box" so that the resin does not enter in conduits or equipment. The stuffing box can be arranged by cramming the specific fiber type FCE in the interstices between the conductors and the sealing joint and/or between conductor and conductor observing the dimension "y".  
The stuffing box is only necessary for the lower entry when the coupling is in a vertical position; in both entries when it is in a horizontal position.
3. Retighten the cover place vertically the entry.
4. Prepare the resin CRV 420 in sufficient quantity to seal the joint and/or to ensure a duration of 30 minutes.
5. Pour the resin to almost touch on the thread.
6. Screw the cap and tighten.
7. After having poured the resin do not move or stress the conductors for at least 24 hours for joints up to 1" and for at least 48 hours for greater sizes.

**Electrical Conductors in sealing joints series EYS**

Ext. Max Ø	3.5	4.2	4.8	6.3	7.6	8.8	11	12.5	14.5	17	19	21	23.5	26	29.5
Section mm <sup>2</sup>	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240
Joints	Max number of Conductors														
<b>EYS 1</b>	4	3	2	1	1	1	1	--	--	--	--	--	--	--	--
<b>EYS 2</b>	7	5	4	3	1	1	1	1	1	--	--	--	--	--	--
<b>EYS 3</b>	8	7	6	4	3	2	1	1	1	1	--	--	--	--	--

### Instructions for making the sealing of the joints series EYS...

1. Remove the cap.
2. Prepare with the utmost care a "stuffing box" so that the resin does not enter in conduits or equipment. The stuffing box can be arranged by cramming the specific fiber type FCE in the interstices between the conductors and the sealing joint and/or between conductor and conductor observing the dimension "y".
3. Prepare the resin CRV 420 in sufficient quantity to seal the joint and/or to ensure a duration of 30 minutes.
4. Pour the resin to cover the conductor for a minimum height of D (see table).
5. Retighten the cover.
6. After having poured the resin do not move or stress the conductors for at least 24 hours.