

How to order **B SERIES**
& complete the **CODE**:
see table page 54

Barrier Cable glands for unarmoured and wire armoured or braided, tape armoured, lead sheathed cables.

“B series” cable glands offer a wide variety of products, suitable to meet all customer needs.

The cable glands are available in a standard version or with a male or female threaded backnut, the trumpet backnut perfect for mobile poses in which potential damages must be limited caused by repeated bending of the outgoing cable of the cable gland. Suitable versions for cables coated with lead sheathing are also available.

The container positioned inside the body of the cable gland aids the gathering of the epoxy resin for the resin treatment as required in some applications of the EN/IEC 60079-14 standard.

Two kinds of resin are available: a liquid and a solid, which may be used according to the needs of the client.

The material of the cable glands may be natural brass or nickel-plated brass, stainless steel AISI 316L and aluminium.

The interior washer may be EPDM or silicone; to be selected according to the operating ambient temperature, like the seal are available in nylon, silicone or PTFE or O-Rings available in EPDM or silicone.

The wide variety of available threads allows the user to choose the most suitable for their needs; this will limit the use of threaded adaptors to reduce the overall dimensions and application costs.





B S E R I E S

Cable glands for hazardous area



Products features

B SERIES

Cable glands for hazardous area application

Refineries and Petrochemical Plants · Chemical and Pharmaceutical Plants · Drilling for Gas and/or Petroleum · Gas Distribution Lines and Plants
Petrol Stations for Vehicles · Printing Industry · Varnishing Plants · Coal Mines · Waste Water Treatment Plants and Waste Management
Grain Storage · Wood Processing · Sugar Processing · Metalworking · Food Industry

01 Safety

The rubber pad thanks to its particular design, clamps the external diameter of the cable for the entire height of the passage hole, ensuring the highest tensile seal and protecting the cable from any possible damage caused by different rubber pads, with its form which tightens the cable in only one point. This feature means that these cable glands do not require any additional clamping to the cable up to size 50.



LIQUID & SOLID COMPOUND

See next page

02 Taylor-made

Possibility to choose between implementation of the body with OR or flat gasket, according to their needs and following material couplings in compliance with operating temperatures.



*OR EPDM
+ Seals
EPDM*

*OR Silicone
+ Silicone
Seals*

*Silicone Flat
Sealings
+ Silicone
Seals*

*Teflon Flat
Sealings
+ Silicone
Seals*

*Nylon Flat
Sealings
+ EPDM
Seals*



03 Integration

Container for resin integrated into the cable gland body and easily inspected.

04 Simplicity

Reduced number of components, which reduces the possibility of losing some parts or incorrect assembly.



05 Design

External rubber pad which locks the outer sheath of the cable, providing protection against water and moisture.

ONLY FOR ARMoured CABLE



Application on B series

SOLID COMPOUND

The epoxy resin is provided in a package with two separate parts and gloves.

RESIN EPR+EPH code 204 000 1000

Application	By hand
Mixing time	30 min
Gel time	-
Full cure time	4 hours
Installation	Any Orientation

HOW TO MIX

01



02



05



06



Preparation of epoxy resin - steps 01 to 04

When using the compound, be sure to wear the gloves provided with the resin. The epoxy resin is provided in a package with two separate parts. These must be mixed in a ratio of 1:1 until the compound is a single colour and without streaks. The best solution for mixing the two parts is by rolling and bending the components several times together. Once mixed, the resin must be used within 30 minutes. Over time it will begin to harden. The compound should not be stored at a temperature below 20°C before being mixed. At lower temperatures, it will become difficult to mix. 3 to 4 hours are necessary at a temperature of between 20°C to 30°C so that the compound solidifies. They have to spend 12 to 24 hours at a temperature of between 20°C and 30°C until the compound reaches an optimal state. If the compound comes in contact with one's skin, it must be removed with a

detergent and in no case allowed to harden. Mix only enough compound to assemble one cable gland at a time. The compound may be adversely affected by certain solvent fumes. If these fumes are present in the vicinity of the cable glands in service, specific precautions may be necessary. The compound polymerizes to a Shore hardness of 85. The compound, when completely set, is suitable to use at a range of service temperatures from -60°C to +130°C. Note: Consider that the setting time may be longer when the room temperature is below 20°C.

Application of the epoxy resin - steps 05 to 08

Prepare a resin cylinder to the required size 05. Place it inside the cables as shown in figure 06. Tighten the cables until they are in the resin and if necessary, add more resin to the outside so as to get a resin cylinder homogeneous with the cables inside 07. Move together the container and the upper ring; be sure to get rid of any excess resin. Then insert the container into the gland body and tighten the backnut to the body. Let it sit long enough for the resin to harden. Once the resin has polymerised, it will be possible to inspect the container and check the result 08.

KIT NEEDED TO SEAL 1 CABLE GLAND (APPROXIMATE VALUES ONLY)

SIZE	KIT COMPOUND QUANTITY
16	1
20	1
25	1
32	1
40	2
50	2
63	3
75	4
90a	5
90b	5



APPLICATION

Application on B series

LIQUID COMPOUND

The kit is composed by Bi-syringe containing the two resin components, separated and already dosed for the mixing, which occurs when the components pass inside the Mixer.
The kit is offered in various arrangements in order to satisfy the different needs of the final users.

Application	Gun
Mixing time	2 min
Gel time	80 min
Full cure time	24 hours
Installation	Vertical position

KEEP ALWAYS
VERTICAL

01 *Bi-syringe can be reused,
keep the cap.*



02



03A

1 + 2 + 3

Spray gun for compound kit replacement:
*the most comfortable solution.
Fit everything inside the spray gun for compound.*



03B

4 + 2 + 3

Kit compound 50 ml with blue Plunger:
the most economical solution, recommended for the mixing of a limited number of cable glands, since it is completely manual.



03C

6 + 5 + 2 + 3

Adaptor for universal gun :
*can be used with an ordinary silicone spray gun, not supplied.
Insert the syringe into the adaptor, apply the mixer and the blue plunger as described previously and fit everything inside the universal spray gun.*



(APPROXIMATE VALUES ONLY)

N. CABLE GLANDS SEALED WITH 1 KIT COMPOUND

SIZE	ØC mm	N. CABLE GLANDS
16	4	30
	7	60
20	5,5	15
	8	20
	10,5	30
25	8	8
	10,5	10
	13	14
	15,5	25

SIZE	ØC mm	N. CABLE GLANDS
32	13	5
	15	6
	18	8
	21	14
40	21	4
	24	5
	27	9
50	24	2
	27	3
	30	4
	33	7

SIZE	ØC mm	N. CABLE GLANDS
63	36	2
	39	2
	42	4
75	45	1
	48	1
	51	2
90a	54	1
	58	2
90b	54	0,5
	64	2

6 Universal gun



5 Universal gun adaptor
(code 204 0000 500)

4 Plunger
(code 204 0000 400)



3 Mixer
(code 204 0000 300)



1 Spray gun
(code 204 0000 600)

2 Bi-syringe - mixer included
(code 204 0000 100)

7 Kit compound with blue plunger
(code 204 0000 200)



COMPOUND KIT OPTIONS

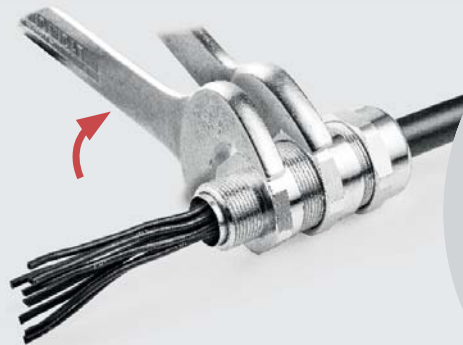
04

Always in a vertical position, fill the first ten mm of resin in order to prevent the liquid from hardening, coming from the mixer before coming into contact with the resin



05

The cable gland must be previously tightened



06

Turn over the nozzle to insert the resin inside the cable gland. Hold in position for at least 24 h.

