

How to order **R SERIES**  
& complete the **CODE**:  
see table page 56

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

"R 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 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 users to choose the most suitable for their needs; this will limit the use of threaded adaptors to reduce the overall dimensions and application costs.

# R SERIES

Cable glands for hazardous area



Products features

# R 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 resistance to the cable up to size 50.



## 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 Simplicity

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

## 04 Design

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

**ONLY FOR ARMoured CABLE**



Follow the numbers

- 0
- 1
- 2
- 3
- 3E
- 4
- 4E
- 5
- 6
- 7
- 8

Example code

**KIT. RAD 25. 13. 24. N25. EP. ON. OR. BS**

Specific requirements for creator code

Optional code

Additional specifications

Type	Size	∅ C Max	∅ Ce Max	∅ D Thread code	∅ De Thread code	Seals material code	Material code	Optional code	Optional code
		<b>Inner seal (10,5÷13)</b>	<b>Outer seal (19 ÷ 24)</b>	<b>See tab. of thread page 57</b>	<b>See tab. of thread page 57</b>	<b>EP•SI</b>	<b>OT•ON•S6 AL•AVP</b>	<b>OR ring</b>	<b>Reduced cone</b>

### 0 Kit version

Includes cable glands and the requested complete series of the rubber seals accompanying the size. Each cable gland is equipped with extra indoor/outdoor rubber pads for each size. The user may choose the rubber pad suitable for the cable diameter or opt for the kit version, which includes all the pads by size.



### 1 Type

RN	RNT	RNM	RNC	RNCS	RAD	RALD	RATD	RAS	RAC	RACS	RAM	RAT
BN	BNT	BNM	BNC	BNCS	BAD	BALD	BATD	BAS	BAC	BACS	BAM	BAT
SN	SNT	SNM	SNC	SNCS	SAD	SALD	SATD	SAS	SAC	SACS	SAM	SAT

### 2 Size

16	20	25	32	40	50	63	75	90A	90B
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### 3 ∅ C Max dimension

Inner seal dimension: choose the max size of the range to compose the code (see drawing and table on data sheet). **For all cable glands.**  
Armoured or screened cables: under armour cable diameter.  
Unarmoured cables: external cable diameter.

### 3E ∅ Ce Max dimension

Outer seal dimension: choose the max size of the range to compose the code (see drawing and table on data sheet). **Only for type: RAD RALD RATD - BAD BALD BATD** and only for armoured or screened cables: external cable diameter.

### 4 Standard threads & threads code

**4 - For all cable glands**  
**4E Only for type: RNM RNC RNCS RAM RAC RACS - BNM BNC BNCS BAM BAC BACS**

### 5 Seals material code

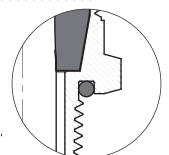
EP	SI
EPDM	Silicone

### 6 Material code

OT	ON	S6	AL	AVP
Brass	Nickel-plated brass	AISI 316L Stainless Steel	Aluminium	AVP steel

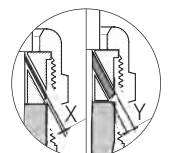
### 7 O-ring

Alternatively to the flat gasket, in order to ensure the degree of IP protection, it is possible to request the "O-Ring version" cable gland.  
**For all cable glands, ISO metrical threads only**



### 8 Reduced cone

The cable glands provided are standard and may be used for braided, taped or wired armoured cables with thickness from 0 to 0.9 mm (X). Upon request the cable glands can be provided suited for wire-armoured cables with thickness from 1 to 2.5 mm (Y). In this case add **BS** code.  
**Only for armoured cable:**  
**RAD RATD RALD RAS RAC RACS RAM RAT - BAD BATD BALD BAS BAC BACS BAM BAT**



# HOW TO ORDER

R B or S series and complete the code

Check the example code inside every data sheet and follow the numbers.

**3** Threads with dimensions less than usual standards the seals dimensional range is reduced.

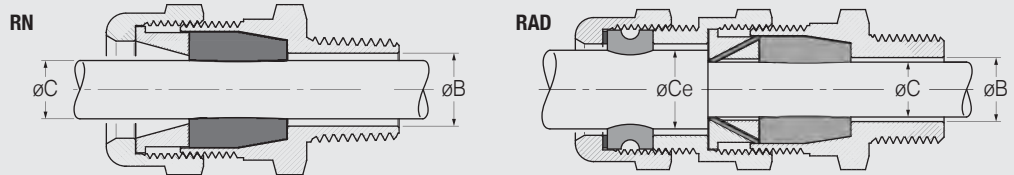
**3E** Cable glands type RAD.20. with thread ISO M20 x 1,5 (or superior) the available seals are: 5,5 ÷ 8 • 8 ÷ 10,5 • 10,5 ÷ 13 5 ÷ 10 • 10 ÷ 15

Cable glands type RAD.20. with thread ISO M16 x 1,5 the available seals are: 5,5 ÷ 8 • 8 ÷ 10,5 5 ÷ 10 • 10 ÷ 15

TYPE	SIZE	Ø C Min-Max	Ø Ce Min-Max	ARMOUR RANGE		THREADS			
				Standard cone*	Reduced cone**	Cylindrical		Tapered	
						ISO 262	ISO 228	DIN 40430	NPT
RAD	20	5,5 ÷ 8	5 ÷ 10	0 ÷ 0,5	0,5 ÷ 1,25	M16 x 1,5	1/2"	Pg11	1/2"
		8 ÷ 10,5	10 ÷ 15			<b>M20 x 1,5</b>		<b>Pg13,5</b>	
		10,5 ÷ 13				M25 x 1,5		Pg16	
RAD	20	5,5 ÷ 8	5 ÷ 10	0 ÷ 0,5	0,5 ÷ 1,25	M16 x 1,5	1/2"	Pg11	1/2"
		8 ÷ 10,5	10 ÷ 15			<b>M20 x 1,5</b>		<b>Pg13,5</b>	
		<del>10,5 ÷ 13</del>				M25 x 1,5		Pg16	

EXAMPLE

"Ø B" must be bigger than "Ø C" and "Ø Ce"  
See "Table of threads" below for "Ø B" dimension.



## 4 TABLE OF THREADS

**4E**

NPT	ØB	CODE
1/4" NPT	8	N12
3/8" NPT	11	N16
1/2" NPT	15	N20
3/4" NPT	19	N25
1" NPT	25	N32
1" 1/4 NPT	31	N40
1" 1/2 NPT	37	N50
2"	47	N63
2" 1/2	57	N75
3"	68	N90

EN 10226	ØB	CODE
1/4"	8	R12
3/8"	11	R16
1/2"	15	R20
3/4"	19	R25
1"	25	R32
1" 1/4	31	R40
1" 1/2	37	R50
2"	47	R63
2" 1/2	57	R75
3"	68	R90

ISO262-M	ØB	CODE
M 12 x 1,5	7	I12
M 16x1,5	11	I16
M 20x1,5	15	I20
M 25x1,5	19	I25
M 32x1,5	25	I32
M 40x1,5	35	I40
M 50x1,5	44	I50
M 63x1,5	57	I63
M 75x1,5	68	I75
M 90	82	I90

ISO 228	ØB	CODE
1/4"	8	B12
3/8"	11	B16
1/2"	15	B20
3/4"	19	B25
1"	25	B32
1" 1/4	31	B40
1" 1/2	37	B50
2"	47	B63
2" 1/2	57	B75
3"	68	B90

DIN 40430	ØB	CODE
Pg 7	7	P12
Pg 9	11	P16
Pg 11	15	P20
Pg 13,5	19	P25
Pg 16	25	P32
Pg 21	35	P40
Pg 29	44	P50
Pg 36	37	P63
Pg 42	47	P75
Pg 48	54	P90