

## VBS. Connection and fastening systems

Order information and technical data

### ■ Connection systems

- ▶ Water-proof junction boxes
- ▶ Duroplast-Damp-proof junction boxes
- ▶ Push-in seals
- ▶ Terminal strips
- ▶ Screwless terminals
- ▶ Dolü-branch terminals
- ▶ Terminal strips
- ▶ OBO V-TEC cable glands
- ▶ OBO V-TEC EX M cable glands
- ▶ Conical cable glands
- ▶ Brass cable glands
- ▶ Reducers
- ▶ Enlarging adapters
- ▶ Threaded nipples
- ▶ Electrically insulating and sealing compound



## Water-proof junction boxes



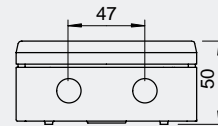
Type	Colour	Carton qty	Pack qty	Weight kg/100	Ord. no. PP
<b>B9/T w. VBX/KL60</b>	l. grey	40	5	17.500	<b>2001 80 2</b>
<b>B9/T empty</b>	l. grey	40	5	13.000	<b>2001 81 0</b>
<b>B9/T NL</b>	l. grey	40	5	17.000	<b>2001 82 9</b>
<b>B9/T RED</b>	red	40	5	13.000	<b>2001 83 7</b>

**Accessories available:**

Terminal strips  
Mounting plate

VBX/KL 60  
VBX/MO

see page 29  
see page 17



**B9/T...:** Comprises 2 halogen-free plastics components, 8 threaded entries (Pg 16) with push-through membrane (for cable diameter up to 15 mm) including one in base. Where cable glands are used (giving additional strain relief) there is no need to remove the membrane (this saves time).  
Protection IP 67 with push-through membrane  
Protection IP 67 with cable gland without removal of the push-through membrane  
Rated voltage 400 V; nominal cross-section 4-6 mm<sup>2</sup>  
The lid is secured with 4 pre-fitted rapid fixings (180°).  
The fixing holes are additionally moulded with a soft plastics component for screw ø 5 mm (spacing 75 mm).  
Clear internal dimensions: 98 x 98 x 40

**B9/T with VBX/KL 60**

2 fixing screw caps, 1 terminal strip VBX/KL 60 and 1 fixing screw plug

**B9/T empty and B9/T RED**

2 fixing screw caps and 1 fixing screw plug

**B9/T NL**

2 fixing screw caps, 1 fixing screw plug and 3 cable glands V-TEC/PA Pg 16

**PP** Polypropylene, light grey (RAL 7035)



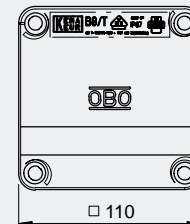
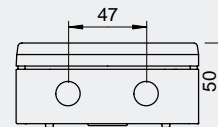
Type	Colour	Carton qty	Pack qty	Weight kg/100	Ord. no. PP
<b>B9/T M w. VBX/KL60</b>	l. grey	40	5	17.500	<b>2001 84 5</b>
<b>B9/T M empty</b>	l. grey	40	5	13.000	<b>2001 85 3</b>
<b>B9/T M NL</b>	l. grey	40	5	17.000	<b>2001 86 1</b>
<b>B9/T M RED</b>	red	40	5	13.000	<b>2001 88 8</b>

**Accessories available:**

Terminal strips  
Mounting plate

VBX/KL 60  
VBX/MO

see page 29  
see page 17



**B9/T M...:** Comprises 2 halogen-free plastics components, 8 threaded entries (M20 x 1.5) with push-through membrane (for cable diameter up to 15 mm) including one in base.  
Where cable glands are used (giving additional strain relief) there is no need to remove the membrane (this saves time).  
Protection IP 67 with push-through membrane  
Protection IP 67 with cable gland without removal of the push-through membrane  
Rated voltage 400 V; nominal cross-section 4-6 mm<sup>2</sup>  
The lid is secured with 4 pre-fitted rapid fixings (180°).  
The fixing holes are additionally moulded with a soft plastics component for screw ø 5 mm (spacing 75 mm).  
Clear internal dimensions: 98 x 98 x 40

**B9/T M with VBX/KL 60**

2 fixing screw caps, 1 terminal strip VBX/KL 60 and 1 fixing screw plug

**B9/T M empty and B9/T RED**

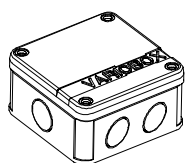
2 fixing screw caps and 1 fixing screw plug

**B9/T M NL**

2 fixing screw caps, 1 fixing screw plug and 3 cable glands V-TEC/PA M20 x 1.5

**PP** Polypropylene, light grey (RAL 7035)

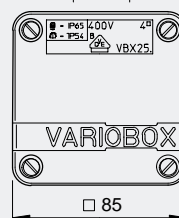
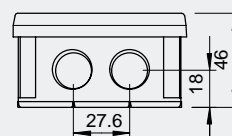
## OBO VARIOBOX



Type	Colour	Carton qty	Pack qty	Weight kg/100	Ord. no. PP
<b>VBX 25</b>	l. grey	80	5	10.200	<b>2008 43 2</b>
<b>VBX 25 empty</b>	l. grey	80	5	6.100	<b>2008 06 8</b>

### Accessories available:

Push-in seals	ED 13	see page 26
Entry plugs	VS 13	see page 27
Terminal strips	VBX/KL 25	see page 28
Mounting plate	VBX/MO	see page 17



**VBX 25:** Protection with push-in seal IP 54; with cable glands IP 65  
 Rated voltage 400 V  
 With 4 captive lid screws  
 4 fixing holes for screws Ø 5 mm inside the box (spacing: 45 mm)

A cut-out tool is supplied with every VARIOBOX. Using the tool and a screwdriver, the entries can be cleanly cut-out. (Cut-out tool Pg 13.5)

Nominal cross-section 2.5–4 mm<sup>2</sup>

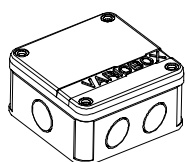
7 entries Pg 13.5

Clear internal dimensions: 78 x 78 x 30.5

Supplied with **VBX 25:**  
 3 push-in seals ED 13  
 1 entry plug VS 13  
 1 cut-out tool  
 1 terminal strip VBX/KL 25

Supplied with **VBX 25 empty:**  
 3 push-in seals ED 13  
 1 entry plug VS 13  
 1 cut-out tool

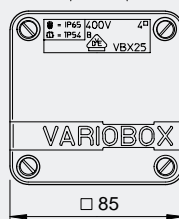
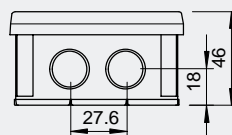
**PP** Polypropylene, light grey (RAL 7035)



Type	Colour	Carton qty	Pack qty	Weight kg/100	Ord. no. PP
<b>VBX 25 M</b>	l. grey	80	5	10.200	<b>2008 44 0</b>
<b>VBX 25 M empty</b>	l. grey	80	5	6.100	<b>2008 07 6</b>

### Accessories available:

Terminal strips	VBX/KL 25	see page 28
Cable entries	EDVS 20	see page 27
Mounting plate	VBX/MO	see page 17



**VBX 25 M...:** Protection with push-in seal IP 54; with cable glands IP 65  
 Rated voltage 400 V  
 With 4 captive lid screws  
 4 fixing holes for screws Ø 5 mm inside the box (spacing: 45 mm)

Nominal cross-section 2.5–4 mm<sup>2</sup>

7 entries M20

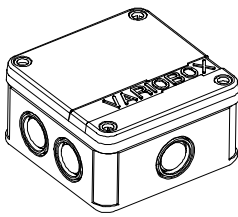
Clear internal dimensions: 78 x 78 x 30.5

Supplied with **VBX 25 M:**  
 3 cable entries EDVS 20  
 1 terminal strip VBX/KL 25

Supplied with **VBX 25 M empty:**  
 3 cable entries EDVS 20

**PP** Polypropylene, light grey (RAL 7035)

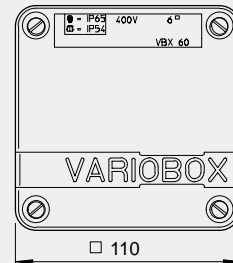
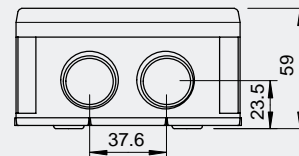
**OBO VARIOBOX**



Type	Colour	Carton qty	Pack qty	Weight kg/100	Ord. no. PP
<b>VBX 60</b>	l. grey	45	5	18.300	<b>2008 55 6</b>
<b>VBX 60 empty</b>	l. grey	45	5	10.600	<b>2008 10 6</b>

**Accessories available:**

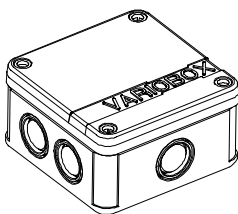
Terminal strips	VBX/KL 60	see page 29
Push-in seals	ED 16	see page 26
Push-in seals	ED 21	see page 26
Entry plugs	VS 16	see page 27
Entry plugs	VS 21	see page 27
Mounting plate	VBX/MO	see page 17



**VBX60:** Protection with push-in seal IP 54; with cable glands IP 65  
 Rated voltage 400 V  
 With 4 captive lid screws  
 4 fixing holes for screws Ø 5 mm inside the box (spacing: 60 mm)  
 A cut-out tool is supplied with every VARIOBOX. Using the tool and a screwdriver, the entries can be cleanly cut-out. (Cut-out tool Pg 16/21 with slot for screwdriver bit on request)  
 Nominal cross-section 4 - 6 mm<sup>2</sup>  
 7 entries Pg 16/Pg 21  
 Clear internal dimensions: 102 x 102 x 40.5

Supplied with <b>VBX 60:</b>	Supplied with <b>VBX 60 empty:</b>
3 push-in seals ED 21	3 push-in seals ED 21
1 entry plug VS 21	1 entry plug VS 21
1 cut-out tool Pg 21	1 cut-out tool Pg 21
1 terminal strip VBX/KL 60	

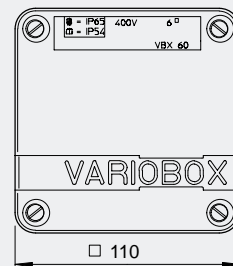
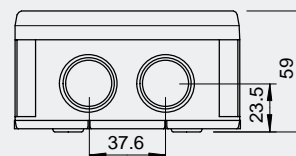
**PP** Polypropylene, light grey (RAL 7035)



Type	Colour	Carton qty	Pack qty	Weight kg/100	Ord. no. PP
<b>VBX 60 M</b>	l. grey	45	5	18.300	<b>2008 56 4</b>
<b>VBX 60 M empty</b>	l. grey	45	5	10.600	<b>2008 11 4</b>

**Accessories available:**

Terminal strips	VBX/KL 60	see page 29
Push-in seals	EDVS 20	see page 27
Push-in seals	EDVS 25	see page 27
Mounting plate	VBX/MO	see page 17

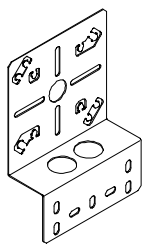


**VBX60 M:** Protection with push-in seal IP 54; with cable glands IP 65  
 Rated voltage 400 V  
 With 4 captive lid screws  
 4 fixing holes for screws Ø 5 mm inside the box (spacing: 60 mm)  
 Nominal cross-section 4 - 6 mm<sup>2</sup>  
 7 entries M20/M25  
 Clear internal dimensions: 102 x 102 x 40.5

Supplied with <b>VBX 60 M:</b>	Supplied with <b>VBX 60 M empty:</b>
3 cable entries EDVS 25	3 cable entries EDVS 25
1 terminal strip VBX/KL 60	

**PP** Polypropylene, light grey (RAL 7035)

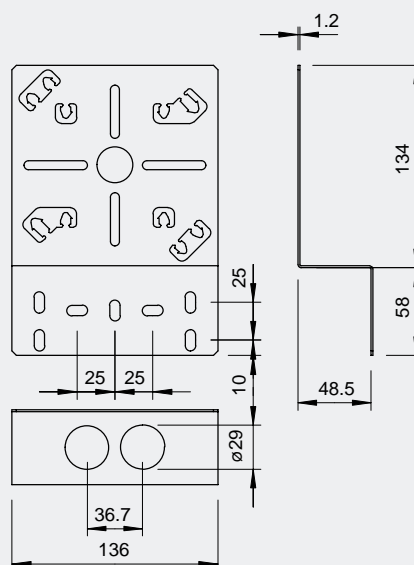
## Mounting plate



Type	Carton qty	Pack qty	Weight kg/100	Ord. no. FS
<b>VBX/MO</b>	50	5	27.000	<b>2008 97 1</b>

**Suitable for:**  
OBO Variobox

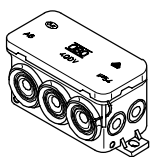
VBX 25 see page 15  
 VBX 25 M see page 15  
 VBX 60 see page 16  
 VBX 60 M see page 16



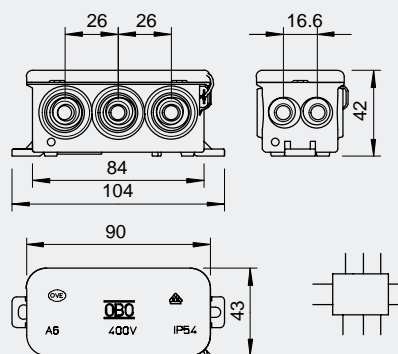
**VBX/MO:** The mounting plate can be screwed to cable tray systems. VARIOBOX series junction boxes can be mounted by bending-up the fixing tabs.

**FS** Steel, strip galvanised to DIN EN 10147

## Damp-proof junction boxes



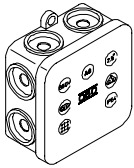
Type	Colour	Carton qty	Pack qty	Weight kg/100	Ord. no. PP
<b>A 6</b>	l. grey	50	10	3.500	<b>2001 05 5</b>



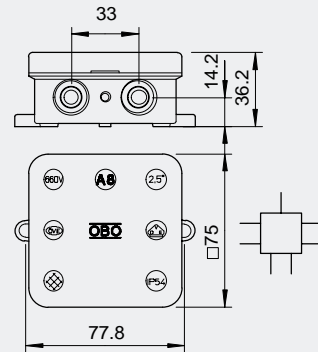
**A 6 :** Protection IP 54, rated voltage 400 V, nominal cross-section 2.5 mm<sup>2</sup>  
 6 entries for cable diameter 7-17 mm and 4 entries for cable diameter 7-9 mm  
 All cable entries can be cut-out from the inside with a knife.  
 Entry for electrical installation conduits up to 20 mm on the underside of the box.  
 Captive lid  
 Clear internal dimensions: 80 x 33 x 43

**PP** Polypropylene, light grey (RAL 7035)

## Damp-proof junction boxes



Type	Colour	Carton qty	Pack qty	Weight kg/100	Ord. no. PE
<b>A 8/5 VDE</b>	l. grey	150	10	6.500	<b>2000 02 4</b>
<b>A 8 VDE empty</b>	l. grey	150	10	5.140	<b>2000 01 6</b>

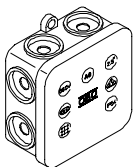


**A 8/...:** Protection IP 54, rated voltage 660 V, nominal cross-section 2.5 mm<sup>2</sup>  
7 entries for cable diameter 8-14 mm  
Snap-fit lid  
Clear internal dimensions: 65 x 65 x 32

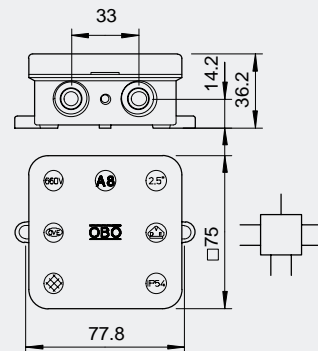
**A8/5 VDE:** With five-pole terminal block 689 of polyamide with socket terminals for max. four 2.5 mm<sup>2</sup> conductors per terminal

**A8 VDE empty:** Without terminal block

**PE** Polyethylene, light grey (RAL 7035)



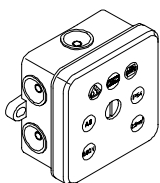
Type	Colour	Carton qty	Pack qty	Weight kg/100	Ord. no. PP
<b>A 8/HF</b>	nat. white	150	10	5.140	<b>2000 07 5</b>
<b>A 8/HF</b>	red	100	10	5.140	<b>2000 05 9</b>



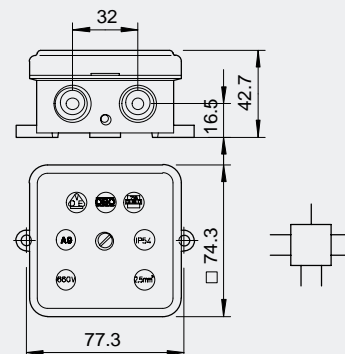
**A 8/...:** Protection IP 54, rated voltage 660 V, nominal cross-section 2.5 mm<sup>2</sup>  
7 entries for cable diameter 8-14 mm  
Snap-fit lid  
Clear internal dimensions: 65 x 65 x 32

**A8/HF: Halogen-free material**, without terminal strip

**PP** Polypropylene



Type	Colour	Carton qty	Pack qty	Weight kg/100	Ord. no. PE
<b>A 9 VDE empty</b>	l. grey	90	10	5.940	<b>2000 09 1</b>



**A9/...:** Protection IP 54, rated voltage 660 V, nominal cross-section 2.5 mm<sup>2</sup>, with lid screw and lugs for screwing to M6 threaded anchors in the base, 7 pre-fitted entry nipples for cable Ø 7 - 13 mm  
Clear internal dimensions: 65 x 65 x 38

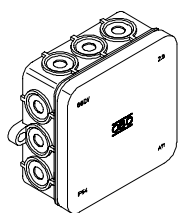
**A9 VDE empty:** Without terminal block

**PE** Polyethylene, light grey (RAL 7035)

### Accessories available:

Terminal blocks	700/4 BM	see page 30
Nipples	89	see page 28
	89/RK	see page 28

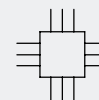
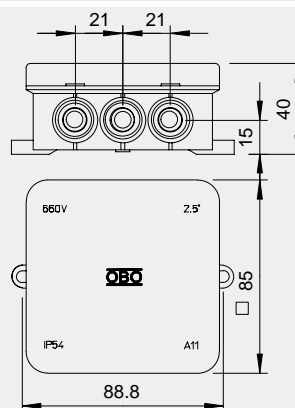
## Damp-proof junction boxes



Type	Colour	Carton qty	Pack qty	Weight kg/100	Ord. no. PE
<b>A 11/5 VDE</b>	l. grey	80	10	7.640	<b>2000 32 6</b>
<b>A 11 VDE empty</b>	l. grey	80	10	6.200	<b>2000 34 2</b>

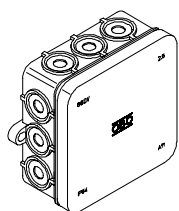
### Accessories available:

Terminal strips 689 see page 29



**A 11/...:** Protection IP 54, rated voltage 660 V, nominal cross-section 2.5 mm<sup>2</sup>, 12 entries for cable diameter 8-14 mm. Snap-fit lid Clear internal dimensions: 75 x 75 x 35

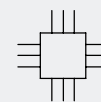
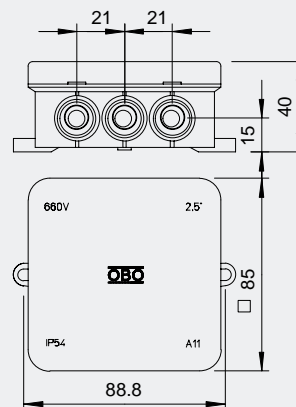
**PE** Polyethylene, light grey (RAL 7035)



Type	Colour	Carton qty	Pack qty	Weight kg/100	Ord. no. PP
<b>A 11/HF</b>	nat. white	80	10	6.200	<b>2000 18 0</b>
<b>A 11/HF RT</b>	red	80	10	6.200	<b>2000 16 4</b>

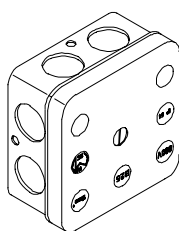
### Accessories available:

Terminal strips 689 see page 29



**A11/HF:** Halogen-free material, without terminal strip Protection IP 54, rated voltage 660 V, nominal cross-section 2.5 mm<sup>2</sup> 12 entries for cable diameter 8-14 mm. Snap-fit lid Clear internal dimensions: 75 x 75 x 35

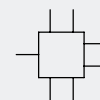
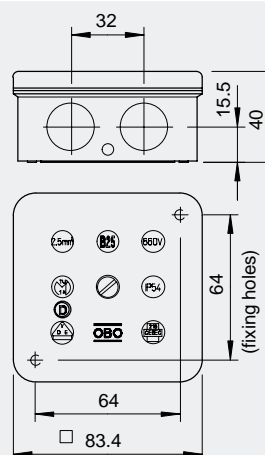
**PP** Polypropylene



Type	Colour	Carton qty	Pack qty	Weight kg/100	Ord. no. UF
<b>B 25 M VDE</b>	l. grey	80	5	13.100	<b>2001 12 8</b>
<b>B 25 M VDE empty</b>	l. grey	80	5	10.400	<b>2001 13 6</b>

### Accessories available:

Terminal strips KL 25 see page 29  
Cable entries EDVS 20 see page 27

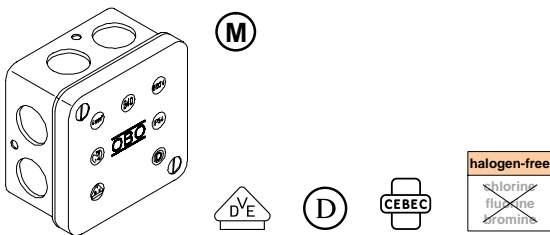


**B 25 M VDE ...:** Protection IP 54, rated voltage 660 V, nominal cross-section 2.5 mm<sup>2</sup>, 2 fixing holes for screws up to 4.5 mm diameter inside the box (seals and covers supplied). Fixing thread M6 and adhesive surface on the base. 1 lid screw, 7 breakout entries Ø 21 mm (M20), with 4 cable entries EDVS 20 for cable Ø 7.5-14 mm. Clear internal dimensions: 73 x 73 x 35

**B 25 M VDE:** With five-pole terminal strip KL 25 of melamine with socket terminals for max. four 2.5 mm<sup>2</sup> conductors per terminal  
**B 25 M VDE empty:** Without terminal block

**UF** Duroplast/aminoplast 131.5 (UF), light grey (RAL 7035), difficult to ignite

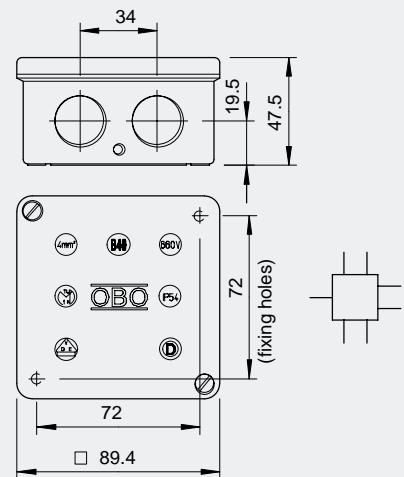
## OBO-DAB damp-proof junction boxes



Type	Colour	Carton qty	Pack qty	Weight kg/100	Ord. no. UF
<b>B 40 M VDE</b>	l. grey	80	5	16.500	<b>2001 16 0</b>
<b>B 40 M VDE empty</b>	l. grey	80	5	12.000	<b>2001 17 9</b>

**Accessories available:**

Terminal strips	KL 60	see page 30
Push-in seals	EDVS 20	see page 27

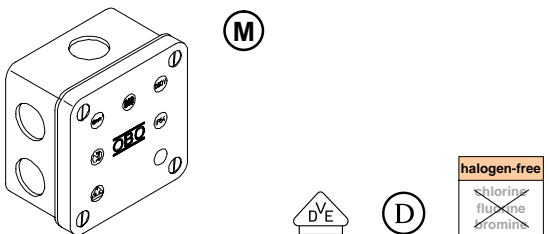


**B 40 M VDE ...:** Protection IP 54, rated voltage 660 V, nominal cross-section 4 mm<sup>2</sup>  
 2 fixing holes for screws up to 4.5 mm  
 Fixing thread M6 and adhesive surface on the base  
 2 lid screws, 7 breakout entries Ø 20.5 mm (M20), with 4 cable entries EDVS 20 for cable Ø 7.5-15 mm  
 Clear internal dimensions: 78 x 78 x 43

**B 40 M VDE:** With five-pole terminal strip KL 60 of melamine with clamp terminals for max. four 4 mm<sup>2</sup> conductors per terminal

**B 40 M VDE empty:** Without terminal strip

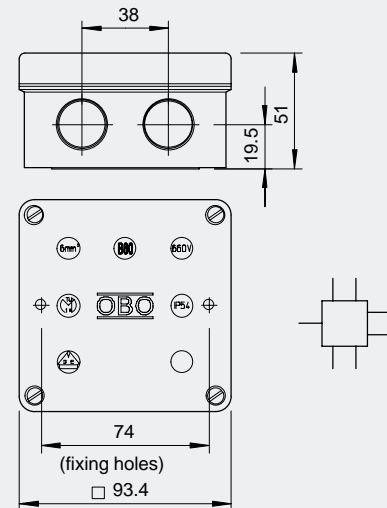
**UF** Duroplast/aminoplast 131.5 (UF), light grey (RAL 7035), difficult to ignite



Type	Colour	Carton qty	Pack qty	Weight kg/100	Ord. no. UF
<b>B 60 M VDE</b>	l. grey	80	5	18.350	<b>2001 20 9</b>
<b>B 60 M VDE empty</b>	l. grey	80	5	14.700	<b>2001 21 7</b>

**Accessories available:**

Terminal strips	KL 60	see page 30
Push-in seals	EDVS 20	see page 27



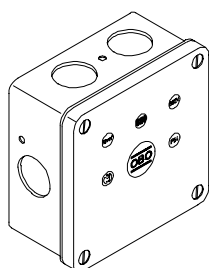
**B 60 M VDE ...:** Protection IP 54, rated voltage 660 V, nominal cross-section 6 mm<sup>2</sup>  
 2 fixing holes for screws up to 4.5 mm (seals and covers supplied)  
 Fixing thread M6 and adhesive surface on the base  
 4 lid screws, 7 breakout entries Ø 20.5 mm (M20) with 4 cable entries EDVS 20 for cable Ø 7.5-15 mm  
 Clear internal dimensions: 83 x 83 x 47

**B 60 M VDE:** With five-pole terminal strip KL 60 of melamine with clamp terminals for max. three 6 mm<sup>2</sup> conductors per terminal

**B 60 M VDE empty:** Without terminal strip

**UF** Duroplast/aminoplast 131.5 (UF), light grey (RAL 7035), difficult to ignite

## OBO-DAB damp-proof junction boxes



(M)

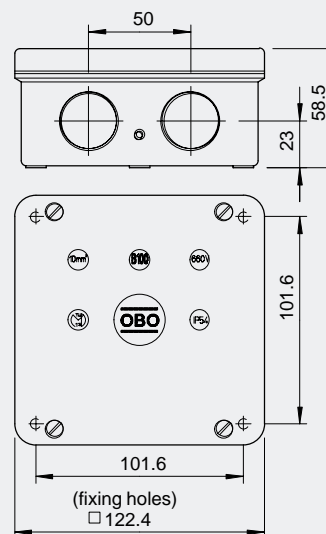
halogen-free



Type	Colour	Carton qty	Pack qty	Weight kg/100	Ord. no. UF
<b>B 100 M</b>	l. grey	30	5	38.000	<b>2001 24 1</b>
<b>B 100 M empty</b>	l. grey	30	5	31.000	<b>2001 26 8</b>

### Accessories available:

Terminal strips	KL 100	see page 30
Push-in seals	EDVS 25	see page 27

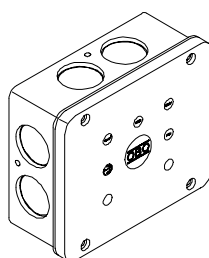


**B 100 M ...:** Protection IP 54, rated voltage 660 V, nominal cross-section 10 mm<sup>2</sup>  
 4 fixing holes for screws up to 5 mm  
 4 lid screws, sealable with sealing caps supplied, 6 breakout entries 25.5 mm Ø (M25), with 4 cable entries EDVS 25 for cable diameters 7.5-22 mm  
 Clear internal dimensions: 108 x 108 x 51

**B 100 M:** With five-pole terminal strip KL 100 of melamine with clamp terminals for max. three 10 mm<sup>2</sup> conductors per terminal

**B 100 M empty:** Without terminal strip

**UF** Duroplast/aminoplast 131.5 (UF), light grey (RAL 7035), difficult to ignite



(M)

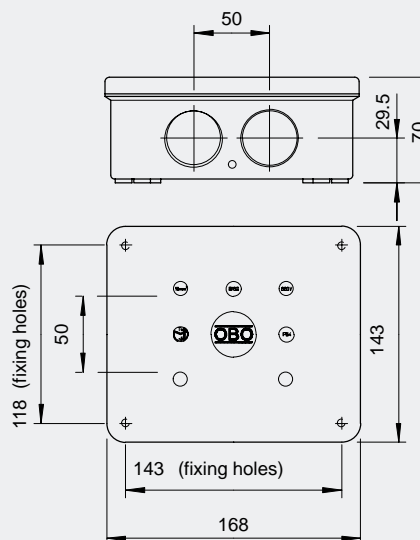
halogen-free



Type	Colour	Carton qty	Pack qty	Weight kg/100	Ord. no. UF
<b>B 160 M</b>	l. grey	10	1	70.000	<b>2001 29 2</b>
<b>B 160 M empty</b>	l. grey	10	1	55.000	<b>2001 30 6</b>

### Accessories available:

Push-in seals	EDVS 32	see page 27
---------------	---------	-------------



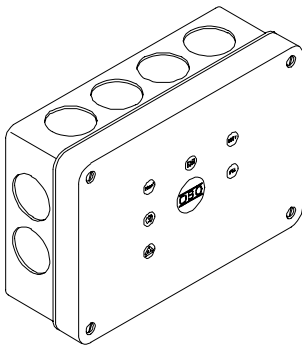
**B 160 M ...:** Protection IP 54, rated voltage 660 V, nominal cross-section 16 mm<sup>2</sup>  
 4 fixing holes for screws up to 5.5 mm  
 4 lid screws, sealable with sealing caps supplied, 8 breakout entries 32.5 mm Ø (M32), with 4 cable entries EDVS 32 for cable diameter 12-30 mm  
 Clear internal dimensions: 150 x 125 x 61

**B 160 M:** With five-pole terminal strip KL 160 of melamine with clamp terminals for max. three 16 mm<sup>2</sup> conductors per terminal

**B 160 M empty:** Without terminal strip

**UF** Duroplast/aminoplast 131.5 (UF), light grey (RAL 7035), difficult to ignite

**OBO-DAB damp-proof junction boxes**

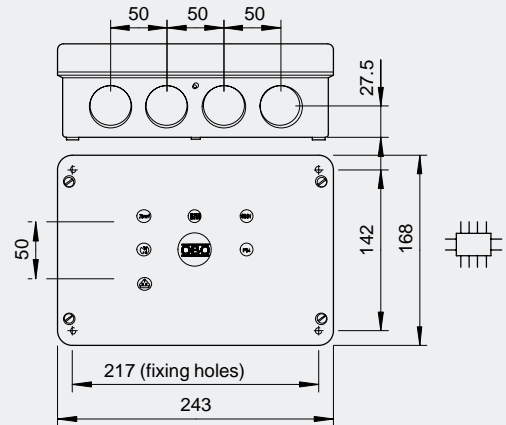


Type	Colour	Carton qty	Pack qty	Weight kg/100	Ord. no. UF
<b>B 250 M</b>	l. grey	8	1	148.000	<b>2001 33 0</b>
<b>B 250 M empty</b>	l. grey	8	1	85.000	<b>2001 34 9</b>

**Accessories available:**  
Push-in seals

EDVS 32

see page 27

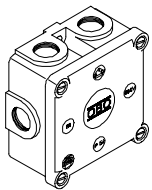


**B 250 M ...:** Protection IP 54, rated voltage 660 V, nominal cross-section 25 mm<sup>2</sup>  
4 fixing holes for screws up to 5.5 mm  
4 lid screws, sealable with sealing caps supplied, 12 breakout entries 32.5 mm Ø (M32), with 4 cable entries EDVS 32 for cable diameter 12-30 mm  
Clear internal dimensions: 224 x 149 x 75

**B 250 M:** With five-pole terminal strip KL 250 of melamine with double-clamp terminals for max. six 25 mm<sup>2</sup> conductors per double terminal

**B 250 M empty:** Without terminal strip

**UF** Duroplast/aminoplast 131.5 (UF), light grey (RAL 7035), difficult to ignite

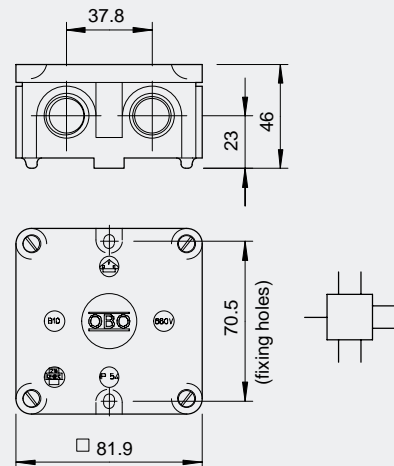


Type	Colour	Carton qty	Pack qty	Weight kg/100	Ord. no. UF
<b>B 9 B M/4 VDE</b>	l. grey	80	5	16.000	<b>2001 61 6</b>
<b>B 9 B M VDE empty</b>	l. grey	80	5	9.960	<b>2001 63 2</b>

**Accessories available:**  
Terminal blocks

700/4 BM

see page 30



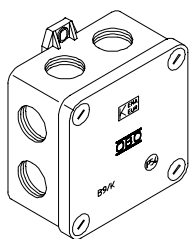
**B 9 B M ...:** Protection IP 54, rated voltage 660 V, nominal cross-section 2.5 mm<sup>2</sup>, 2 fixing holes for screws up to 5 mm diameter on the outside of the box 4 lid screws, 7 breakout entries with M20 x 1.5 thread, primarily for cable glands with short connecting thread  
Clear internal dimensions: 73 x 73 x 35

**B 9 B M/4 VDE:** With five-pole terminal block 700/4 BM of melamine for max. four 2.5 mm<sup>2</sup> conductors per terminal

**B 9 B M VDE empty:** Without terminal block

**UF** Duroplast/aminoplast 131.5 (UF), light grey (RAL 7035), difficult to ignite

## Water-proof junction boxes



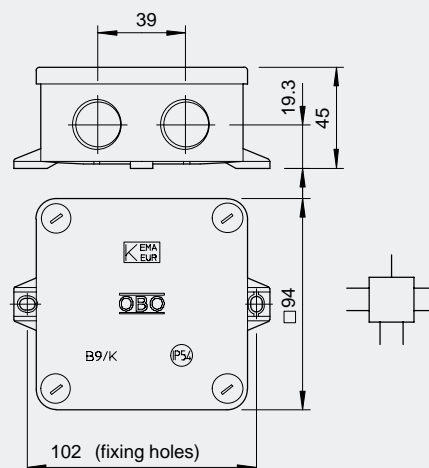
Type	Colour	Pack qty	Weight kg/100	Ord. no. UF
<b>B 9/K empty</b>	l. grey	5	13.500	<b>2001 93 4</b>

### Accessories available:

Terminal blocks

700/4 BM

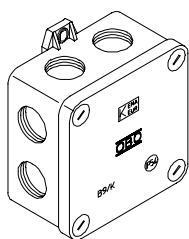
see page 30



### B 9 K ...: Protection IP 67

Empty box to be used with single terminals  
 4 lid screws of plastics, so fully corrosion-proof  
 2 fixing lugs for screws up to 5 mm diameter  
 7 breakout entries with Pg 16 thread,  
 with 3 cable glands of polyamide for cable diameters of 10-14 mm  
 type 106/16 B9K  
 The cable glands have a specially-shaped thread which automatically  
 breaks out the entry when the gland is screwed in.  
 Clear internal dimensions: 84 x 84 x 34

**UF** Duroplast/aminoplast 131.5 (UF), light grey (RAL 7035),  
 difficult to ignite



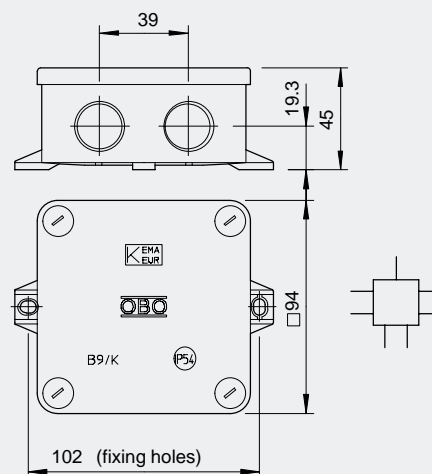
Type	Colour	Pack qty	Weight kg/100	Ord. no. UF
<b>B 9/K M empty</b>	l. grey	5	13.500	<b>2001 94 2</b>

### Accessories available:

Terminal blocks

700/4 BM

see page 30

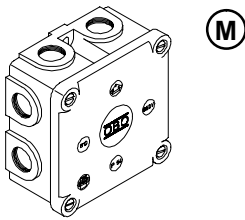


### B 9 K M ...: Protection IP 67

Empty box to be used with single terminals  
 4 lid screws of plastics, so fully corrosion-proof  
 2 fixing lugs for screws up to 5 mm diameter  
 7 breakout entries with thread M20 x 1.5,  
 with 3 cable glands of polyamide for cable diameters of 9-12 mm  
 type 106/20 B9K M  
 The cable glands have a specially-shaped thread which automatically  
 breaks out the entry when the gland is screwed in.  
 Clear internal dimensions: 84 x 84 x 34

**UF** Duroplast/aminoplast 131.5 (UF), light grey (RAL 7035),  
 difficult to ignite

## Damp-proof junction boxes



(M)



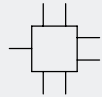
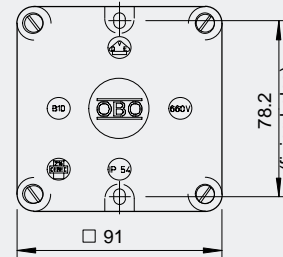
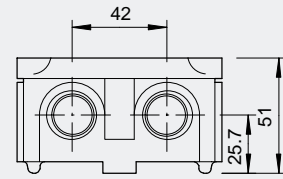
Type	Colour	Carton qty	Pack qty	Weight kg/100	Ord. no. UF
B 10/4 M VDE	l. grey	80	5	22.480	2002 14 0
B 10 M VDE empty	l. grey	80	5	17.360	2002 16 7

**Accessories available:**

Terminal blocks

700/4 BM  
700/6 M

see page 30  
see page 31

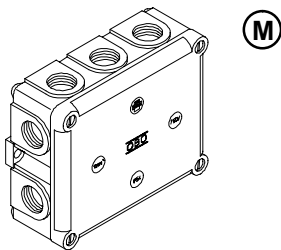


**B 10 M ...:** Protection IP 54, rated voltage 660 V, nominal cross-section 2.5 and 4 mm<sup>2</sup>  
In combination with terminal block 700/6 M, the box has a nominal cross-section of 4 mm<sup>2</sup>.

2 fixing holes for screws up to 5 mm diameter on the outside of the box  
4 lid screws, 7 breakout entries with M20 x 1.5 thread, primarily for cable glands with short connecting thread  
Clear internal dimensions: 80 x 80 x 39

**B 10/4 M VDE:** With five-pole terminal block 700/4 BM of melamine for max. four 2.5 mm<sup>2</sup> conductors per terminal

**UF** Duroplast/aminoplast 131.5 (UF), light grey (RAL 7035), difficult to ignite



(M)



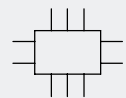
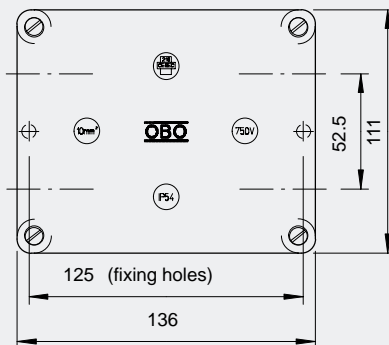
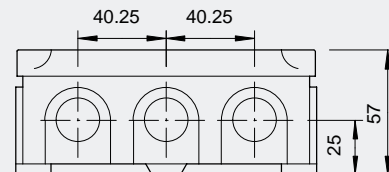
Type	Colour	Carton qty	Pack qty	Weight kg/100	Ord. no. UF
B 11 /LM	l. grey	24	1	39.700	2002 32 9
B 11 M empty	l. grey	24	1	32.200	2002 34 5

**Accessories available:**

Terminal strips

KL 100

see page 30



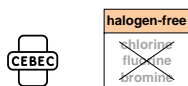
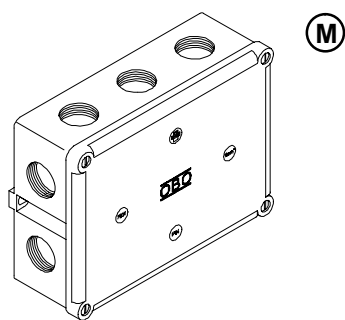
**B 11 M:** Protection IP 54, rated voltage 660 V, nominal cross-section 10 mm<sup>2</sup>  
2 fixing holes for screws up to 6 mm diameter on the outside of the box  
4 lid screws, 10 breakout entries with M20 x 1.5 thread, primarily for cable glands with short connecting thread  
Clear internal dimensions: 125 x 100 x 44

**B 11 M/L:** With five-pole terminal strip KL 100, with clamp terminals for max. three 10 mm<sup>2</sup> conductors per terminal

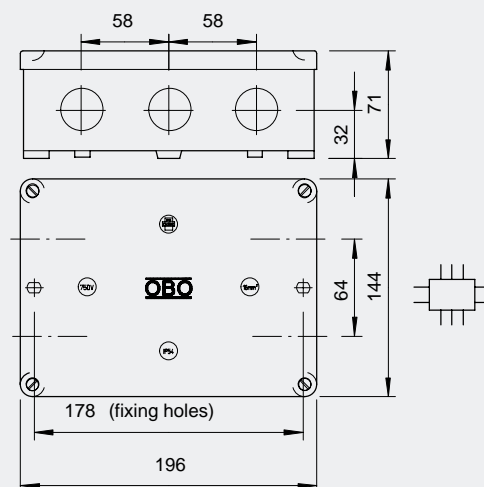
**B 11 M empty:** Without terminal strip

**UF** Duroplast/aminoplast 131.5 (UF), light grey (RAL 7035), difficult to ignite

## Damp-proof junction boxes



Type	Colour	Carton qty	Pack qty	Weight kg/100	Ord. no. <b>UF</b>
<b>B 12/16 M</b>	l. grey	12	1	96.700	<b>2002 50 7</b>
<b>B 12 M empty</b>	l. grey	12	1	65.500	<b>2002 52 3</b>



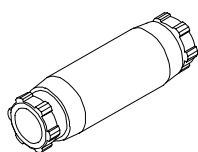
**B 12 M ...:** Protection IP 54, rated voltage 660 V, nominal cross-section 16 mm<sup>2</sup>  
 2 fixing holes for screws up to 6 mm diameter on the outside of the box  
 4 lid screws, 10 breakout entries with thread M25 x 1.5  
 Clear internal dimensions: 126 x 178 x 57

**B 12/16 M:** With five-pole terminal strip KL 160 of melamine, with clamp terminals for max. three 16 mm<sup>2</sup> conductors per terminal

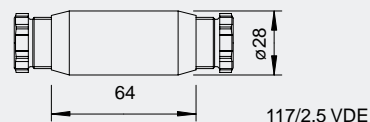
**B 12 M empty:** Without terminal strip

**UF** Duroplast/aminoplast 131.5 (UF), light grey (RAL 7035), difficult to ignite

## Cable connection sleeves

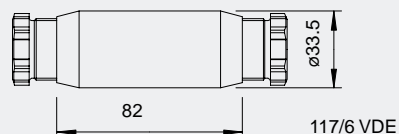


Type	Colour	Pack qty	Weight kg/100	Ord. no. <b>PS</b>
<b>117/2.5 VDE</b>	l. grey	10	5.310	<b>2022 02 8</b>
<b>117/6 VDE</b>	l. grey	5	14.600	<b>2022 06 0</b>



**117/... VDE:** Protection IP 54, rated voltage 660 V

**117/2.5 VDE:** Nominal cross-section 2.5 mm<sup>2</sup>, with five pole terminal insert 2.5 mm<sup>2</sup> and cable entries with strain relief Pg 16 for cable Ø 9-14 mm

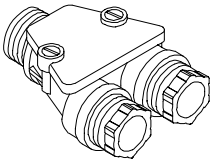


**117/6 VDE:** Nominal cross-section 6 mm<sup>2</sup>, with five-pole terminal insert 6 mm<sup>2</sup> and cable entries with strain relief Pg 21 for cable Ø 12-18 mm

In accordance with VDE, cable connection sleeves are only intended for fixed installations.

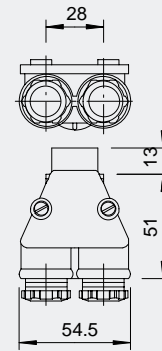
**PS** Polystyrene

## Bifurcated cable glands



Type	Nominal sizes	Colour	Pack qty	Weight kg/100	Ord. no. UF
<b>113/13.5</b>	Pg 13.5	l. grey	5	4.672	<b>2024 13 6</b>
<b>113/16</b>	Pg 16	l. grey	5	4.356	<b>2024 16 0</b>

With 2 half-glands Pg 13.5

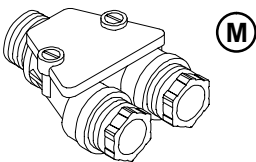


**113/...:** Protection IP 54, with removable lid of polystyrene, and 2 connecting thread gaskets of polyethylene

**113/13.5:** With connecting thread Pg 13.5, 2 half-glands Pg 13.5 for cable Ø 6.5-10.5 mm

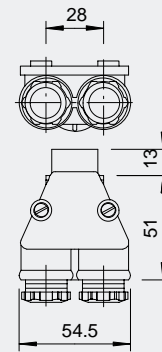
**113/16:** With connecting thread Pg 16, 2 half-glands Pg 13.5 for cable Ø 6.5-10.5 mm

**UF** Duroplast/aminoplast 131.5 (UF), light grey (RAL 7035), difficult to ignite



Type	Nominal sizes	Colour	Pack qty	Weight kg/100	Ord. no. UF
<b>113/M 20</b>	M20 x 1.5	l. grey	5	4.672	<b>2024 06 3</b>

With 2 half-glands Pg 13.5

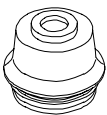


**113/M ...:** Protection IP 54, with removable lid of polystyrene, and 2 connecting thread gaskets of polyethylene

**113/M 20:** With connecting thread M20 x 1.5, 2 half-glands Pg 13.5 for cable Ø 6.5-10.5 mm

**UF** Duroplast/aminoplast 131.5 (UF), light grey (RAL 7035), difficult to ignite

## Push-in seals

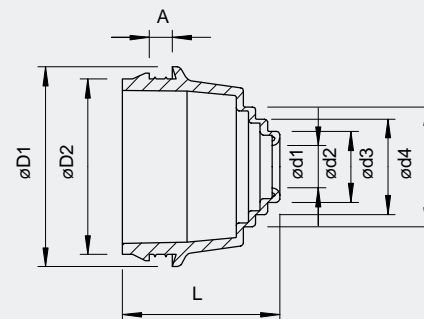


Type	Nominal sizes	Colour	Pack qty	Weight kg/100	Ord. no. PE
<b>ED 13</b>	Pg 13.5	l. grey	100	0.150	<b>2012 70 7</b>
<b>ED 16</b>	Pg 16	l. grey	100	0.180	<b>2012 72 3</b>
<b>ED 21</b>	Pg 21	l. grey	50	0.700	<b>2012 73 1</b>
<b>ED 29</b>	Pg 29	l. grey	25	1.100	<b>2012 86 3</b>
<b>ED 29/K</b>	Pg 29	l. grey	25	1.100	<b>2012 89 8</b>

**Suitable for:**

ED 13: Damp-proof junction boxes VBX 25 see page 15

ED 21: Damp-proof junction boxes VBX 60 see page 16

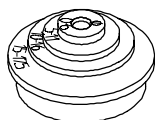


Type	For cable Ø mm	D1 mm	D2 mm	L mm	A mm	d1 mm	d2 mm	d3 mm	d4 mm
ED 13	8-15.5	26.5	22.7	20.5	2.8-3.4	7	10.5	-	-
ED 16	8-19.5	25.7	22.8	28	2.6-3.2	8	15	-	-
ED 21	8-23.5	33	29	26	3.9-4.4	7	10.5	14.5	18.5
ED 29	13-29	44	38.1	45	5.1-5.9	11.5	22	-	-
ED 29/K	3-29	44	38.1	45	5.1-5.9	2.5	22	-	-

**ED ...:** Can be cut back to suit the relevant cable diameter

**PE** Polyethylene, light grey (RAL 7035)

## Push-in seals

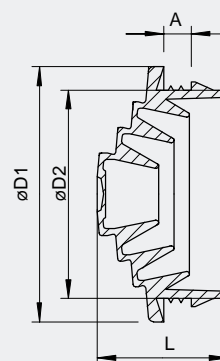


**M**

Type	Nominal sizes	Colour	Pack qty	Weight kg/100	Ord. no. PE
<b>EDVS 20</b>	Ø 20	l. grey	100	0.150	<b>2012 37 5</b>
<b>EDVS 25</b>	Ø 25	l. grey	100	0.180	<b>2012 38 3</b>
<b>EDVS 32</b>	Ø 32	l. grey	50	0.700	<b>2012 39 1</b>

### Suitable for:

EDVS 20: Damp-proof junction boxes	VBX 25 M B 25 M	see page 15 see page 19
	B 40 M B 60 M	see page 20 see page 20
EDVS 25: Damp-proof junction boxes	VBX 60 M B 100 M	see page 16 see page 21
EDVS 32: Damp-proof junction boxes	B 160 M B 250 M	see page 21 see page 22

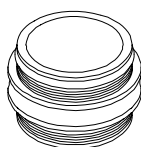


Type	For cable Ø mm	D1 mm	D2 mm	L mm	A mm
EDVS 20	1-17.5	24.8	20.3	12.8	3.4
EDVS 25	1-21	29.5	25.3	14.5	4.3
EDVS 32	1-25.5	36.3	32.3	17.8	4.4

**EDVS ...:** Can be cut back to suit the relevant cable diameter

**PE** Polyethylene, light grey (RAL 7035)  
Flame-retardant to VDE 0471/DIN IEC 695 Part 2-1  
Test temperature 750°C

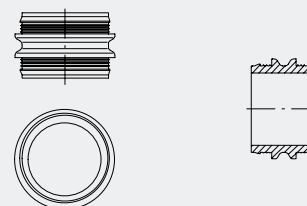
## Connecting plugs



Type	Nominal sizes	Colour	Pack qty	Weight kg/100	Ord. no. PE
<b>VB 32 M</b>	M 32	l. grey	20	1.000	<b>2011 26 3</b>

### Suitable for:

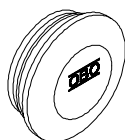
Damp-proof junction boxes	B 160 M B 250 M	see page 21 see page 22
---------------------------	--------------------	----------------------------



**VB 32 M:** For direct connection of damp-proof junction boxes B 160 M and B 250 M

**PE** Polyethylene, light grey (RAL 7035)

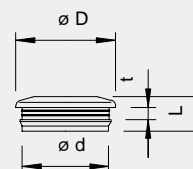
## Entry plugs



Type	Nominal sizes	Colour	Pack qty	Weight kg/100	Ord. no. PE
<b>VS 13</b>	Pg 13.5	l. grey	100	0.100	<b>2012 15 4</b>
<b>VS 16</b>	Pg 16	l. grey	100	0.110	<b>2012 16 2</b>
<b>VS 21</b>	Pg 21	l. grey	50	0.300	<b>2012 17 0</b>
<b>VS 29</b>	Pg 29	l. grey	25	0.400	<b>2012 18 9</b>

### Suitable for:

VS 13: Damp-proof junction boxes	VBX 25	see page 15
VS 21: Damp-proof junction boxes	VBX 60	see page 16

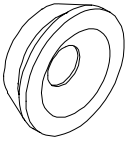


Type	Nominal size	D mm	d mm	L mm	t mm
VS 13	Pg 13.5	25.6	21.1	9	2.6
VS 16	Pg 16	27.3	22.8	9	2.6
VS 21	Pg 21	33	29.1	12	4.3
VS 29	Pg 29	44	38.1	15	5.3

**VS ...:** To blank off holes not required in junction boxes series B 25-250 and VBX 25, VBX 60

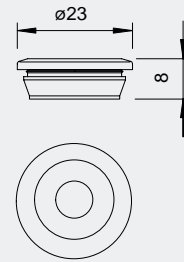
**PE** Polyethylene, light grey (RAL 7035)

## Nipples



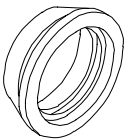
Type	Colour	Pack qty	Weight kg/100	Ord. no. PE
89	l. grey	100	0.100	2012 03 0

**Suitable for:**  
Damp-proof junction boxes A 9 see page 18



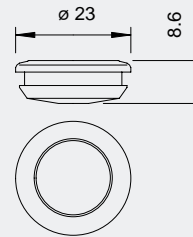
**89:** Seal with push-through membrane for cable diameter 7–13 mm Required hole diameter 18.5-19 mm Wall thickness max. 1.8, suitable for junction box A 9

**PE** Polyethylene, light grey (RAL 7035)  
Flame-retardant to VDE 0471/DIN IEC 695 Part 2-1  
Test temperature 750°C



Type	Colour	Pack qty	Weight kg/100	Ord. no. PE
89/RK	l. grey	100	0.100	2012 04 9

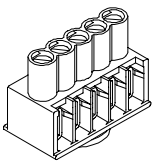
**Suitable for:**  
Damp-proof junction boxes A 9 see page 18



**89/RK:** Seal with push-through membrane for conduit diameter 12–16 mm. Required hole diameter 18.5-19 mm Wall thickness max. 3, suitable for junction box A 9

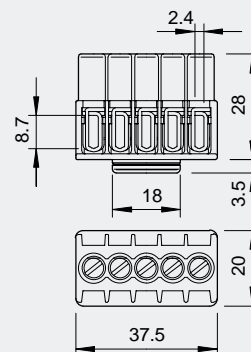
**PE** Polyethylene, light grey (RAL 7035)

## Terminal strips



Type	Carton qty	Pack qty	Weight kg/100	Ord. no. PA
VBX/KL 25	100	10	2.100	2009 10 2

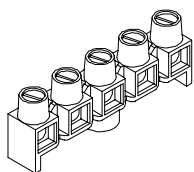
**Suitable for:**  
OBO VARIOBOX VBX 25 VBX 25 M see page 15



**VBX/KL 25:** Terminals and screws of steel, electro-galvanised and yellow-chromated Nominal cross-section 4 mm<sup>2</sup>, rated voltage 400 V Five-pole, with socket terminals Max. connectable cross-sections per terminal: 3 x 4 mm<sup>2</sup>, 4 x 2.5 mm<sup>2</sup> or 6 x 1.5 mm<sup>2</sup>

**PA** Polyamide

## Terminal strips



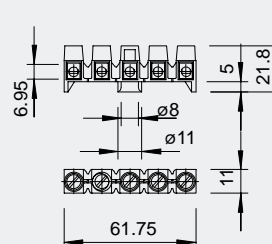
Type	Pack qty	Weight kg/100	Ord. no. PA
689	1	1.420	2017 34 2

### Suitable for:

Damp-proof junction boxes

A 8  
A 11

see page 18  
see page 19



### 689: Terminals of brass, nickel-plated

Screws of steel, electro-galvanised and yellow-chromated  
Nominal cross-section 2.5 mm<sup>2</sup>, rated voltage 660 V

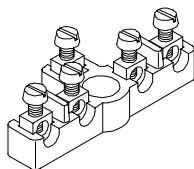
Five-pole, with socket terminals

Max. connectable cross-sections per terminal: 4 x 2.5 mm<sup>2</sup>, 5 x 1.5 mm<sup>2</sup> or 6 x 1 mm<sup>2</sup>

Suitable for junction boxes A 8 and A 11

Unwanted terminals can be split off and used separately.

**PA** Polyamide



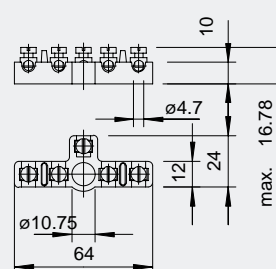
Type	Pack qty	Weight kg/100	Ord. no. MF
KL 25	1	2.300	2016 08 7

### Suitable for:

Damp-proof junction boxes

B 25 M

see page 19



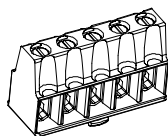
### KL 25: Terminals of brass, nickel-plated

Screws of steel, electro-galvanised and yellow-chromated  
Nominal cross-section 2.5 mm<sup>2</sup>, rated voltage 660 V

Five-pole, with socket terminals

Max. connectable cross-sections per terminal: 4 x 2.5 mm<sup>2</sup>, 5 x 1.5 mm<sup>2</sup> or 6 x 1 mm<sup>2</sup>

**MF** Duroplast/melamine resin 150 (MF), light grey (RAL 7035), difficult to ignite



Type	Carton qty	Pack qty	Weight kg/100	Ord. no. PA
VBX/KL 60	100	10	4.380	2009 11 0

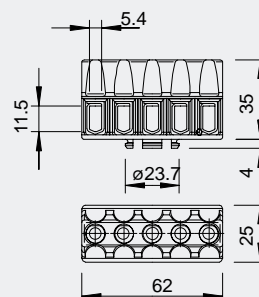
### Suitable for:

OBO VARIOBOX

VBX 60  
VBX 60/M  
B9/T  
B9/TM

see page 16  
see page 16  
see page 14  
see page 14

Water-proof junction boxes



### VBX/KL 60: Terminals and screws of steel, electro-galvanised and yellow-chromated

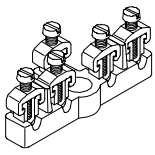
Nominal cross-section 6 mm<sup>2</sup>, rated voltage 400 V

Five-pole, with socket terminals

Max. connectable cross-sections per terminal: 3 x 6 mm<sup>2</sup>, 4 x 4 mm<sup>2</sup> or 6 x 2.5 mm<sup>2</sup>

**PA** Polyamide

## Terminal strips



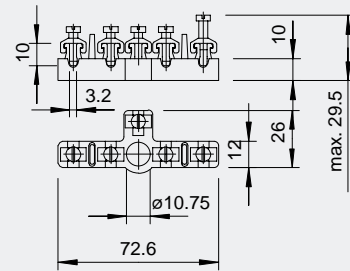
Type	Pack qty	Weight kg/100	Ord. no. MF
KL 60	1	3.650	2016 10 9

**Suitable for:**

Damp-proof junction boxes

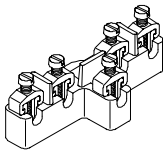
B 40 M  
B 60 M

see page 20  
see page 20



**KL 60:** Terminals of brass, nickel-plated  
Screws of steel, electro-galvanised and yellow-chromated  
Nominal cross-section 4/6 mm<sup>2</sup>, rated voltage 660 V  
Five-pole, with clamp terminals  
Max. connectable cross-sections per terminal: 3 x 6 mm<sup>2</sup>, 4 x 4 mm<sup>2</sup>, 5 x 2.5 mm<sup>2</sup> or 8 x 1.5 mm<sup>2</sup>

**MF** Duroplast/melamine resin 150 (MF), light grey (RAL 7035), difficult to ignite



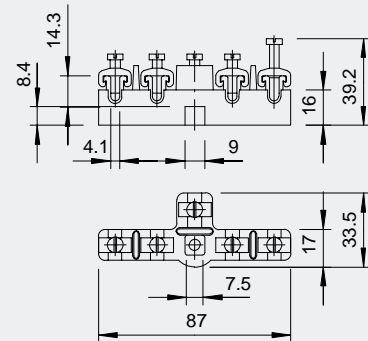
Type	Pack qty	Weight kg/100	Ord. no. MF
KL 100	1	7.000	2016 12 5

**Suitable for:**

Damp-proof junction boxes

B 100 M  
B 11/L M

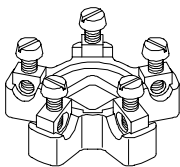
see page 21  
see page 24



**KL 100:** Terminals of brass, nickel-plated  
Screws of steel, electro-galvanised and yellow-chromated  
Nominal cross-section 10 mm<sup>2</sup>, rated voltage 660 V  
Five-pole, with clamp terminals  
Max. connectable cross-sections per terminal: 3 x 10 mm<sup>2</sup>, 4 x 6 mm<sup>2</sup> or 4 x 4 mm<sup>2</sup>

**MF** Duroplast/melamine resin 150 (MF), light grey (RAL 7035), difficult to ignite

## Terminal blocks



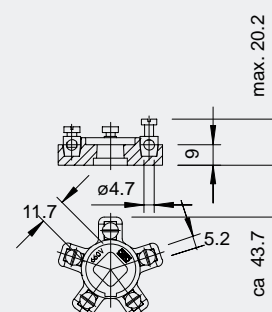
Type	Pack qty	Weight kg/100	Ord. no. MF
700/4 BM	1	2.260	2017 32 6

**Suitable for:**

Damp-proof junction boxes

A 9  
B 9 B M  
B 10 M

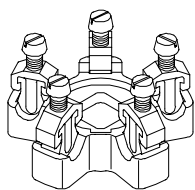
see page 18  
see page 22  
see page 24



**700/4 BM:** Terminals of brass, nickel-plated  
Screws of steel, electro-galvanised and yellow-chromated  
Nominal cross-section 2.5 mm<sup>2</sup>, rated voltage 660 V  
Five-pole, with socket terminals  
Max. connectable cross-sections per terminal: 4 x 2.5 mm<sup>2</sup>, 5 x 1.5 mm<sup>2</sup> or 6 x 1 mm<sup>2</sup>

**MF** Duroplast/melamine resin 150 (MF), light grey (RAL 7035), difficult to ignite

## Terminal blocks



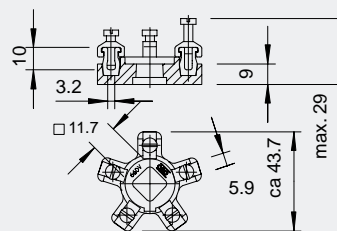
Type	Pack qty	Weight kg/100	Ord. no. MF
700/6 M	1	3.460	2017 29 6

### Suitable for:

Damp-proof junction boxes

B 10 M

see page 24



### 700/6 M: Terminals of brass, nickel-plated

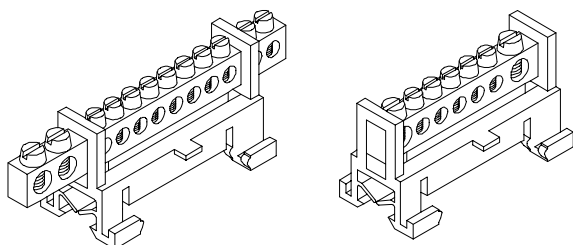
Screws of steel, electro-galvanised and yellow-chromated  
Nominal cross-section 4/6 mm<sup>2</sup>, rated voltage 660 V

Five-pole, with clamp terminals

Max. connectable cross-sections per terminal: 3 x 6 mm<sup>2</sup>, 4 x 4 mm<sup>2</sup>, 5 x 2.5 mm<sup>2</sup> or 8 x 1.5 mm<sup>2</sup>

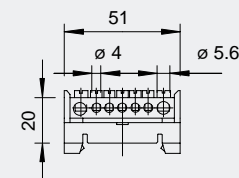
**MF** Duroplast/melamine resin 150 (MF), light grey (RAL 7035), difficult to ignite

## Neutral and protective conductor terminals

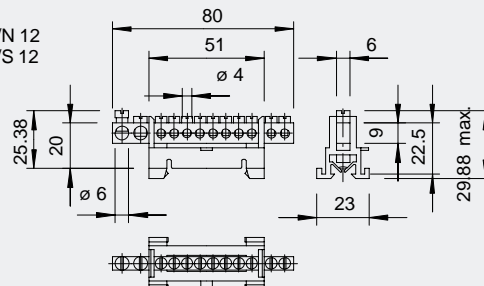


Type	Colour	Carton qty	Pack qty	Weight kg/100	Ord. no. PA
60/N 7	blue	100	10	2.900	2054 00 0
60/S 7	green/yellow	100	10	2.900	2054 01 9
60/N 12	blue	100	10	4.200	2054 08 6
60/S 12	green/yellow	100	10	4.200	2054 09 4

60/N 7  
60/S 7



60/N 12  
60/S 12



### 60/...: Terminal bar of brass, nickel-plated

Screws of steel, electro-galvanised and yellow-chromated

To snap-fit on 35 mm top-hat rails to DIN EN 50022 (crosswise) or flat rails 10 x 2-2.5 (lengthwise)

**60/N 7** and **60/S 7**: With 2 terminals up to 16 mm<sup>2</sup> and 5 terminals up to 10 mm<sup>2</sup>

**60/N 12** and **60/S 12**: With 2 terminals up to 16 mm<sup>2</sup> and 10 terminals up to 10 mm<sup>2</sup>

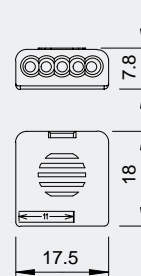
**PA** Polyamide

## OBO screwless terminals



Type	Colour	Carton qty	Pack qty	Weight kg/100	Ord. no. PA
61/515	anthracite	6000	100	0.220	2054 62 0

Cross-section range 0.75-1.5 mm<sup>2</sup>



### 61/515: Screwless terminal to connect single-strand wires

Nominal cross-section 1.5 mm<sup>2</sup>

Rated voltage 450 V., Rated current 17.5 A

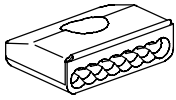
Connectable cross-section range 0.75 mm<sup>2</sup> to 1.5 mm<sup>2</sup>

To connect 5 wires 0.75 to 1.5 mm<sup>2</sup>

Stripping length 10 mm

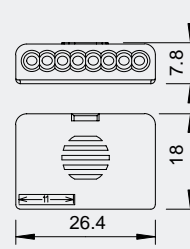
**PA** Polyamide, anthracite (RAL 9005)

**OBO screwless terminals**



Type	Colour	Carton qty	Pack qty	Weight kg/100	Ord. no. PA
61/815	anthracite	3000	50	0.340	2054 64 7

Cross-section range 0.75-1.5 mm<sup>2</sup>



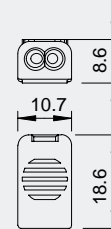
**61/815:** Screwless terminal to connect single-strand wires  
Nominal cross-section 1.5 mm<sup>2</sup>  
Rated voltage 450 V, rated current 17.5 A  
Connectable cross-section range 0.75 mm<sup>2</sup> to 1.5 mm<sup>2</sup>  
To connect 8 wires 0.75 to 1.5 mm<sup>2</sup>  
Stripping length 10 mm

**PA** Polyamide, anthracite (RAL 9005)



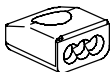
Type	Colour	Carton qty	Pack qty	Weight kg/100	Ord. no. PA
61/225	l. grey	6000	100	0.150	2054 60 4

Cross-section range 1-2.5 mm<sup>2</sup>



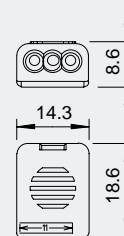
**61/225:** Screwless terminal to connect single-strand wires  
Nominal cross-section 2.5 mm<sup>2</sup>  
Rated voltage 450 V, rated current 24 A  
Connectable cross-section range 1 mm<sup>2</sup> to 2.5 mm<sup>2</sup>  
To connect 2 wires 1 to 2.5 mm<sup>2</sup>  
Stripping length 10 mm

**PA** Polyamide, light grey (RAL 7035)



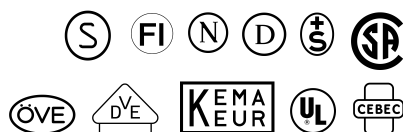
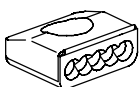
Type	Colour	Carton qty	Pack qty	Weight kg/100	Ord. no. PA
61/325	l. grey	2000	100	0.250	2054 48 5

Cross-section range 1-2.5 mm<sup>2</sup>



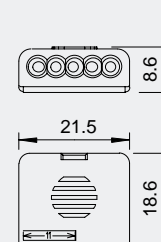
**61/325:** Screwless terminal to connect single-strand wires  
Nominal cross-section 2.5 mm<sup>2</sup>  
Rated voltage 450 V, rated current 24 A  
Connectable cross-section range 1 mm<sup>2</sup> to 2.5 mm<sup>2</sup>  
To connect 3 wires 1 to 2.5 mm<sup>2</sup>  
Stripping length 10 mm

**PA** Polyamide, light grey (RAL 7035)



Type	Colour	Carton qty	Pack qty	Weight kg/100	Ord. no. PA
61/525	l. grey	2000	100	0.300	2054 50 7

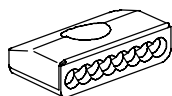
Cross-section range 1-2.5 mm<sup>2</sup>



**61/525:** Screwless terminal to connect single-strand wires  
Nominal cross-section 2.5 mm<sup>2</sup>  
Rated voltage 450 V, rated current 24 A  
Connectable cross-section range 1 mm<sup>2</sup> to 2.5 mm<sup>2</sup>  
To connect 5 wires 1 to 2.5 mm<sup>2</sup>  
Stripping length 10 mm

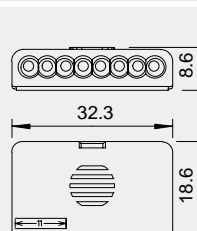
**PA** Polyamide, light grey (RAL 7035)

## OBO screwless terminals



Type	Colour	Carton qty	Pack qty	Weight kg/100	Ord. no. PA
61/825	l. grey	3000	50	0.490	2054 52 3

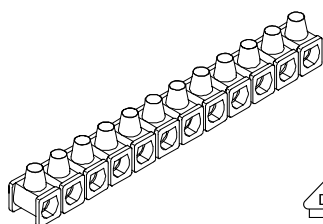
Cross-section range 1-2.5 mm<sup>2</sup>



**61/825:** Screwless terminal to connect single-strand wires  
Nominal cross-section 2.5 mm<sup>2</sup>. Rated voltage 450 V, rated current 24 A  
Connectable cross-section range 1 mm<sup>2</sup> to 2.5 mm<sup>2</sup>  
To connect 8 wires 1 to 2.5 mm<sup>2</sup>. Stripping length 10 mm

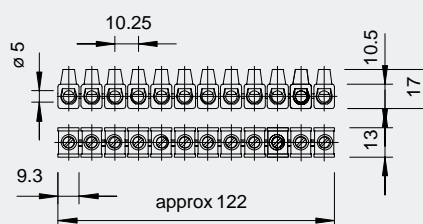
**PA** Polyamide, light grey (RAL 7035)

## Dolü® branch terminals



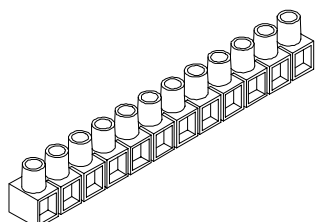
Type	Colour*	Carton strips	Pack strips	Weight kg/100 strips	Ord. no. PA
70 VDE	assorted*	500	10	3.110	2055 02 3
70 VDE	black	500	10	2.930	2055 08 2
70 VDE	brown	500	10	2.930	2055 10 4
70 VDE	blue	500	10	2.930	2055 12 0
70 VDE	green/yellow	500	10	2.930	2055 03 1
70 VDE	grey	500	10	2.930	2055 14 7

Assorted colours: black, brown, blue and green/yellow



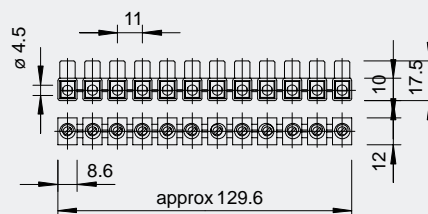
**70 VDE:** Terminals of brass, screws of steel, electro-galvanised and chromated, 12-pole strip. Nominal cross-section 2.5 mm<sup>2</sup>, rated voltage 380 V  
Rated current 16 A  
Max. connectable cross-sections per terminal: 4 x 2.5 mm<sup>2</sup>, 5 x 1.5 mm<sup>2</sup> or 6 x 1 mm<sup>2</sup>  
Assorted colours: 5 black, 2 blue, 2 green/yellow and 1 brown strip per pack

**PA** Polyamide



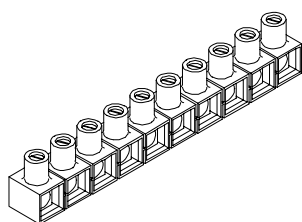
Type	Carton strips	Pack strips	Weight kg/100 strips	Ord. no. PA
70/S VDE	200	10	2.600	2055 20 1

Assorted colours: black, brown, blue and green/yellow

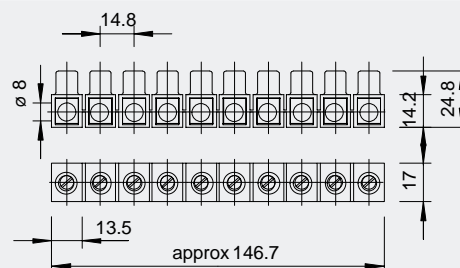


**70/S VDE:** Terminals of brass, screws of steel, electro-galvanised and yellow-chromated, 12-pole strip. Blind on one side. Nominal cross-section 2.5 mm<sup>2</sup>, rated voltage 380 V  
Rated current 20 A  
Max. connectable cross-sections per terminal: 4 x 2.5 mm<sup>2</sup>, 5 x 1.5 mm<sup>2</sup> or 6 x 1 mm<sup>2</sup>  
Assorted colours: 5 black, 2 blue, 2 green/yellow and 1 brown strip per pack

**PA** Polyamide



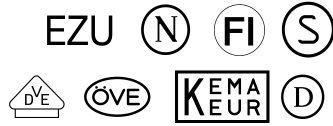
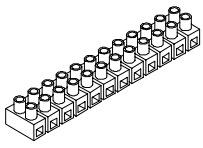
Type	Colour	Carton strips	Pack strips	Weight kg/100 strips	Ord. no. PE
71	black	120	10	7.030	2055 50 3



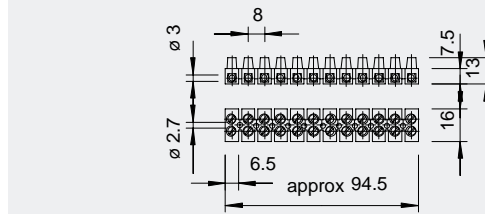
**71:** Terminals of brass, screws of steel, electro-galvanised and yellow-chromated, 10-pole strip.  
Nominal cross-section 10 mm<sup>2</sup>, rated voltage 380 V  
Max. connectable cross-sections per terminal: 3 x 10 mm<sup>2</sup>, 4 x 6 mm<sup>2</sup> or 6 x 4 mm<sup>2</sup>

**PE** Polyethylene, light grey (RAL 7035)

## Terminal strips

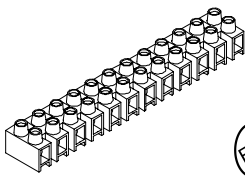


Type	Colour	Carton strips	Pack strips	Weight kg/100 strips	Ord. no. PA
<b>72/VDE</b>	natural	500	10	2.050	<b>2055 92 9</b>

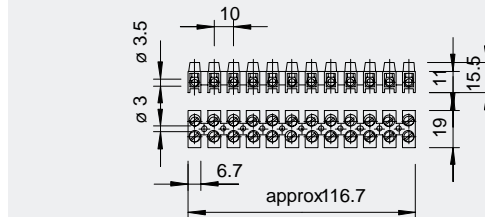


**72/VDE:** Terminals of brass, screws of steel, electro-galvanised and chromated 12-pole strip  
Nominal cross-section 1.5 mm<sup>2</sup>, rated voltage 250 V  
Rated current 10 A  
Max. wires per side: 2.5 mm<sup>2</sup> single strand or 1.5 mm<sup>2</sup> fine-stranded, with termination sleeve

**PA** Polyamide

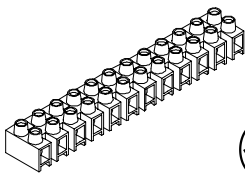


Type	Colour	Carton strips	Pack strips	Weight kg/100 strips	Ord. no. PA
<b>74/VDE Euro</b>	natural	200	10	3.580	<b>2056 14 3</b>



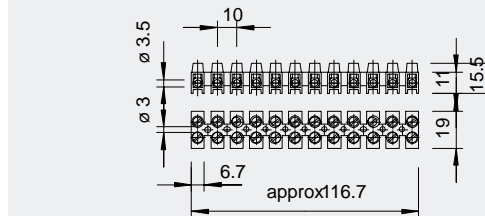
**74/VDE Euro:** Tested to EN 60998  
Terminals of brass, screws of steel, electro-galvanised and chromated 12-pole strip  
Nominal cross-section 4 mm<sup>2</sup>, rated voltage 450 V  
Rated current 32 A  
Max. wires per side: 4 mm<sup>2</sup> single strand or 2.5 mm<sup>2</sup> fine-stranded, with termination sleeve  
Maximum permitted ambient temperature to EN 60998: -5 to +85 °C

**PA** Polyamide



Type	Colour	Carton strips	Pack strips	Weight kg/100 strips	Ord. no. PA
<b>74/D</b>	natural	200	10	3.680	<b>2056 17 8</b>

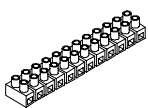
With wire guard bar



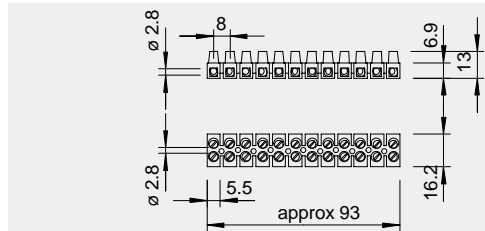
**74/D:** Tested to EN 60998  
Terminals of brass, screws of steel, electro-galvanised and chromated 12-pole strip  
Nominal cross-section 4 mm<sup>2</sup>, rated voltage 450 V  
Rated current 32 A  
Max. wires per side: 4 mm<sup>2</sup> single strand or 2.5 mm<sup>2</sup> fine-stranded, with termination sleeve  
Maximum permitted ambient temperature to EN 60998: -5 to +85 °C

Technical data as above, but cut to the stated number of poles at the factory.

**PA** Polyamide, natural  
Flame-retardant to VDE 0471/DIN IEC 695 Part 2-1  
Test temperature 850 °C



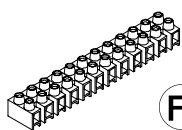
Type	Colour	Carton strips	Pack strips	Weight kg/100 strips	Ord. no. PE
<b>72/CE</b>	white	500	10	1.900	<b>2056 07 0</b>
<b>72/CE</b>	black	500	10	1.900	<b>2056 08 9</b>



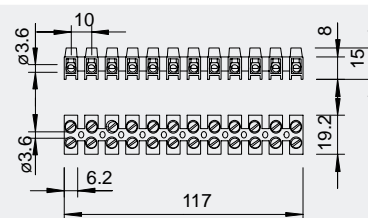
**72/CE:** Tested to EN 60998  
Terminals of brass, screws of steel, electro-galvanised and yellow-chromated 12-pole strips. Max. permitted ambient temperature to EN 60998: -5 to +40 °C. Nominal cross-section 2.5 mm<sup>2</sup>, rated voltage 450 V  
Rated current 24 A. Max. wires per side: 4 mm<sup>2</sup> single strand or 2.5 mm<sup>2</sup> fine-stranded, with termination sleeve

**PE** Polyethylene

## Terminal strips



Type	Colour	Carton strips	Pack strips	Weight kg/100 strips	Ord. no. PE
74/CE	white	200	10	2.700	2056 22 4
74/CE	black	200	10	2.700	2056 23 2

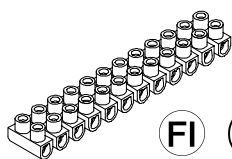


**74/CE:** Tested to EN 60998

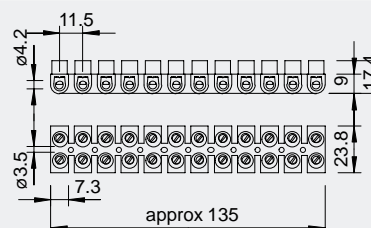
Terminals of brass, screws of steel, electro-galvanised and yellow-chromated

12-pole strips. Max. permitted ambient temperature to EN 60998: -5 to +40 °C. Nominal cross-section 4 mm<sup>2</sup>, rated voltage 450 V  
Rated current 32 A. Max. wires per side: 6 mm<sup>2</sup> single strand or 4 mm<sup>2</sup> fine-stranded, with termination sleeve

**PE** Polyethylene



Type	Colour	Carton strips	Pack strips	Weight kg/100 strips	Ord. no. PE
76/CE	white	100	10	4.300	2056 37 2
76/CE	black	100	10	4.300	2056 38 0

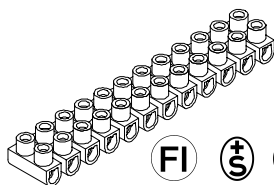


**76/CE:** Tested to EN 60998

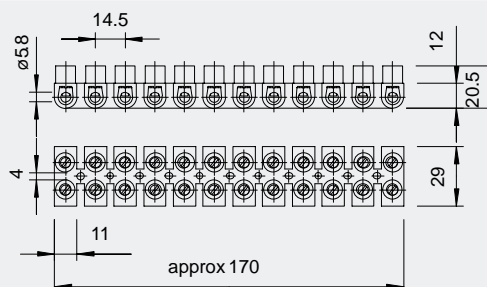
Terminals of brass, screws of steel, electro-galvanised and yellow-chromated

12-pole strips. Max. permitted ambient temperature to EN 60998: -5 to +40 °C. Nominal cross-section 6 mm<sup>2</sup>, rated voltage 450 V.  
Rated current 41 A. Max. wires per side: 10 mm<sup>2</sup> single strand or 6 mm<sup>2</sup> fine-stranded, with termination sleeve

**PE** Polyethylene



Type	Colour	Carton strips	Pack strips	Weight kg/100 strips	Ord. no. PE
78/CE	white	100	10	8.400	2056 55 0
78/CE	black	100	10	8.400	2056 56 9

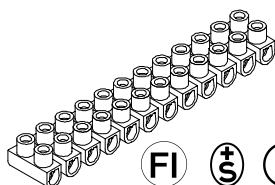


**78/CE:** Tested to EN 60998

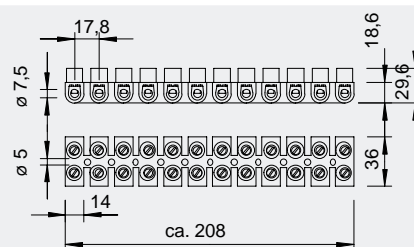
Terminals of brass, screws of steel, electro-galvanised and yellow-chromated

12-pole strips. Max. permitted ambient temperature to EN 60998: -5 to +40 °C. Nominal cross-section 16 mm<sup>2</sup>, rated voltage 450 V, rated current 76 A. Max. wires per side: 16 mm<sup>2</sup> multi-strand or 10 mm<sup>2</sup> fine-stranded, with termination sleeve

**PE** Polyethylene



Type	Colour	Carton strips	Pack strips	Weight kg/100 strips	Ord. no. PE
79/CE	white	100	10	19,300	2056 57 7
79/CE	black	100	10	19,300	2056 58 5



**79/CE:** Tested to EN 60998

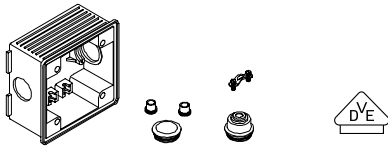
Terminals of brass, screws of steel, electro-galvanised and yellow-chromated

12-pole strips. Max. permitted ambient temperature to EN 60998: -5 to +40 °C.

Nominal cross-section 25 mm<sup>2</sup>, rated voltage 450 V  
Rated current 101 A. Max. wires per side: 25 mm<sup>2</sup> single strand or 16 mm<sup>2</sup> fine-stranded, with termination sleeve

**PE** Polyethylene

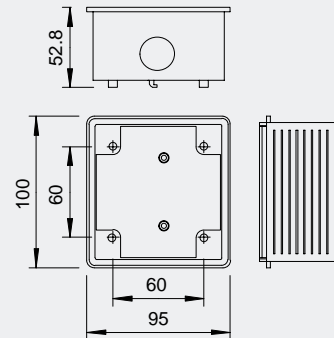
## Flush mounting boxes



Type	Colour	Pack qty	Weight kg/pc	Ord. no. PA
2392	l. grey	5	0.105	6024 00 9

**Accessories available:**

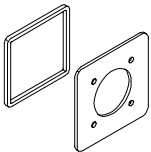
Push-in seals	ED 16	see page 26
Entry plugs	VS 16	see page 27
Cover plate for flush mounting	2393/UP	see page 36
Plastering cover for flush mounting box	2393/PD	see page 36



**2392:** Flush mounting box for CEE socket outlets, straight pattern, 16 and 32 A, with hole spacing 60 x 60 mm  
Supplied complete with 1 strain relief clamp, 1 push-in seal ED 16, 1 entry plug VS 16 as well as 4 cheese-head screws M5 x 18 to fix the socket outlet  
Using the box in combination with cover plate 2393/UP, gives IP 30 protection

**PA** Polyamide

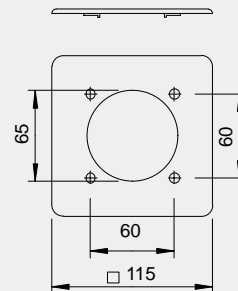
## Cover plate for flush mounting



Type	Colour	Pack qty	Weight kg/pc	Ord. no. PA
2393/UP	l. grey	5	0.043	6024 10 6

**Suitable for:**

Flush mounting boxes	2392	see page 36
----------------------	------	-------------



**2393/UP:** In combination with the flush mounting box, the cover plate provides a clean wall line.

**PA** Polyamide

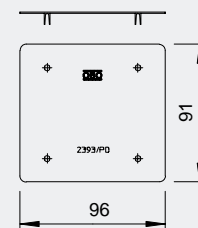
## Plastering cover for flush mounting box



Type	Colour	Pack qty	Weight kg/pc	Ord. no. PS
2393/PD	l. grey	10	0.011	6024 04 1

**Accessories available:**

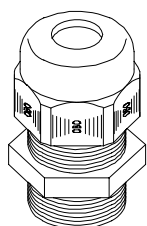
Flush mounting boxes	2392	see page 36
----------------------	------	-------------



**2393/PD:** The cover protects the interior of the box during plastering.

**PS** Polystyrene

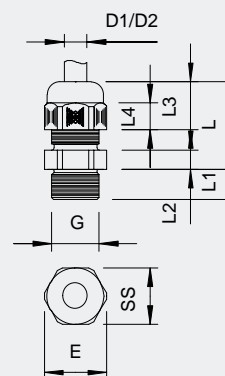
## OBO V-TEC cable glands



Type	Thread	Colour	Pack qty	Weight kg/100	Ord. no. PA
V-TEC	Pg 7	silver-grey	50	0.410	2022 60 5
V-TEC	Pg 9	silver-grey	50	0.630	2022 61 3
V-TEC	Pg 11	silver-grey	50	0.890	2022 62 1
V-TEC	Pg 13.5	silver-grey	50	1.020	2022 64 8
V-TEC	Pg 16	silver-grey	25	1.380	2022 65 6
V-TEC	Pg 21	silver-grey	25	2.290	2022 66 4
V-TEC	Pg 29	silver-grey	20	4.020	2022 67 2
V-TEC	Pg 36	silver-grey	10	6.030	2022 68 0
V-TEC	Pg 42	silver-grey	5	7.650	2022 69 9
V-TEC	Pg 48	silver-grey	5	9.460	2022 70 2

Type	Thread	Colour	Pack qty	Weight kg/100	Ord. no. PA
V-TEC	Pg 7	l. grey	50	0.410	2024 70 5
V-TEC	Pg 9	l. grey	50	0.630	2024 71 3
V-TEC	Pg 11	l. grey	50	0.890	2024 72 1
V-TEC	Pg 13.5	l. grey	50	1.020	2024 74 8
V-TEC	Pg 16	l. grey	25	1.380	2024 75 6
V-TEC	Pg 21	l. grey	25	2.290	2024 76 4
V-TEC	Pg 29	l. grey	20	4.020	2024 77 2
V-TEC	Pg 36	l. grey	10	6.030	2024 78 0
V-TEC	Pg 42	l. grey	5	7.650	2024 79 9
V-TEC	Pg 48	l. grey	5	9.460	2024 80 2

Type	Thread	Colour	Pack qty	Weight kg/100	Ord. no. PA
V-TEC	Pg 7	black	50	0.410	2024 51 9
V-TEC	Pg 9	black	50	0.630	2024 53 5
V-TEC	Pg 11	black	50	0.890	2024 54 3
V-TEC	Pg 13.5	black	50	1.020	2024 55 1
V-TEC	Pg 16	black	25	1.380	2024 57 8
V-TEC	Pg 21	black	25	2.290	2024 58 6
V-TEC	Pg 29	black	20	4.020	2024 59 4
V-TEC	Pg 36	black	10	6.030	2024 60 8
V-TEC	Pg 42	black	5	7.650	2024 61 6
V-TEC	Pg 48	black	5	9.460	2024 62 4



Nom. size G	Sealing range D1 mm	Strain rel. and twist prot. D2 mm	Hexagon		min. ca	L max. ca	L1 mm	L2 mm	L3 mm	L4 mm
			SS	E						
Pg 7	2.5- 6.5	3 - 6.5	15	16.5	18	23	8	5	12.6	7
Pg 9	2.5- 8	3.5- 8	19	21	21	27	8	5	15.5	9
Pg 11	3.5-10	4.5-10	22	25	22	29	8	5	17	10
Pg 13.5	5 -12	6 -12	24	27	23	30	9	5	18	10.5
Pg 16	7 -14	7 -14	27	30	25	33	10	6	19	11
Pg 21	9 -18	12 -18	33	37.5	28	38	11	6	22	12.5
Pg 29	14 -25	17 -25	42	47.5	32	43	11	7	24.5	14
Pg 36	18 -32	20 -32	53	60	39	54	13	8	31	18
Pg 42	24 -38	26 -38	60	68.5	42	57	13	9	32.5	19
Pg 48	30 -44	30 -44	65	74	42	58	14	9	33	19.5

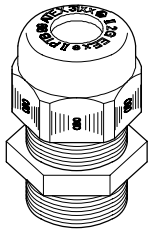
Table column D1: Sealing range to VDE 0619, where no strain relief is required

Table column D2: Sealing range including strain relief and twist protection to VDE 0619

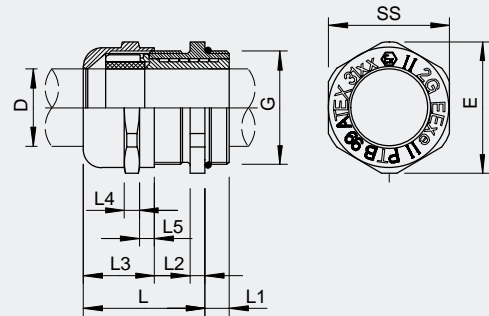
**V-TEC:** With Pg connecting thread to DIN 40430  
 Cap-nut cable gland with wide sealing range, as well as strain relief and twist protection for high sealing demands  
 Gasket of chloroprene/nitrile rubber  
 Moulded sealing, so no connecting seal needed  
 Tested to VDE 0619  
 Protection IP 68 at 5 bar

**PA** Polyamide, silver-grey (RAL 7001), light grey (RAL 7035), black  
 Flame-retardant to VDE 0471/IEC 695 Part 2-1  
 Test temperature 750°C

## OBO V-TEC EX cable glands



Type	Thread	Colour	Pack qty	Weight kg/100	Ord. no. PA
V-TEC EX	Pg 7	black	50	0.410	2050 00 5
V-TEC EX	Pg 9	black	50	0.630	2050 01 3
V-TEC EX	Pg 11	black	50	0.890	2050 02 1
V-TEC EX	Pg 13.5	black	50	1.020	2050 04 8
V-TEC EX	Pg 16	black	25	1.380	2050 05 6
V-TEC EX	Pg 21	black	25	2.290	2050 06 4
V-TEC EX	Pg 29	black	20	4.020	2050 07 2
V-TEC EX	Pg 36	black	10	6.030	2050 08 0
V-TEC EX	Pg 42	black	5	7.650	2050 09 9
V-TEC EX	Pg 48	black	5	9.460	2050 10 2



Nom. size G	can be used for cable diameter of mm	Hexagon SS		L		L1 mm	L2 mm	L3 mm	L4 mm
		E	min. ca	max. ca					
Pg 7	3.5- 6.5	15	16.5	18	23	8	5	12.6	7
Pg 9	5 - 8	19	21	21	27	8	5	15.5	9
Pg 11	4.5-10	22	25	22	29	8	5	17	10
Pg 13.5	6.5-12	24	27	23	30	9	5	18	10.5
Pg 16	7 -14	27	30	25	33	10	6	19	11
Pg 21	12 -18	33	37.5	28	38	11	6	22	12.5
Pg 29	17 -25	42	47.5	32	43	11	7	24.5	14
Pg 36		53	60	39	54	13	8	31	18
Pg 42	24 -38	60	68.5	42	57	13	9	32.5	19
Pg 48	30 -44	65	74	42	58	14	9	33	19.5

Table column D1: Sealing range to VDE 0619, where no strain relief is required

Table column D2: Sealing range including strain relief and twist protection to VDE 0619

**V-TEC EX:** cable gland with EC design type approval certificate for products and protection systems for use in accordance with the regulations in explosion-hazard area – Directive 94/9/EC

**EC design type approval certificate number:**  
**PTB 99 ATEX 3112X and ... 3113X**

With Pg connecting thread to DIN 40430

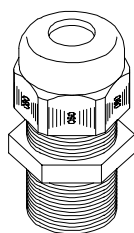
Cap-nut cable gland with wide sealing range, as well as strain relief and twist protection for high sealing demands

Gasket of chloroprene/nitrile rubber, moulded sealing, so no connecting seal needed.

Tested to VDE 0619, protection IP 68 at 5 bar

**PA** Polyamide, black  
Flame-retardant to VDE 0471/IEC 695 Part 2-1  
Test temperature 750°C

## OBO V-TEC L cable glands



Type	Thread	Colour	Pack qty	Weight kg/100	Ord. no. PA
V-TEC L	Pg 7	silver-grey	50	0.410	2024 17 9
V-TEC L	Pg 9	silver-grey	50	0.670	2024 18 7
V-TEC L	Pg 11	silver-grey	50	0.930	2024 19 5
V-TEC L	Pg 13.5	silver-grey	50	1.090	2024 20 9
V-TEC L	Pg 16	silver-grey	25	1.490	2024 21 7
V-TEC L	Pg 21	silver-grey	25	2.330	2024 22 5
V-TEC L	Pg 29	silver-grey	20	3.860	2024 23 3
V-TEC L	Pg 36	silver-grey	10	7.750	2024 24 1
V-TEC L	Pg 42	silver-grey	5	10.070	2024 26 8
V-TEC L	Pg 48	silver-grey	5	10.730	2024 27 6

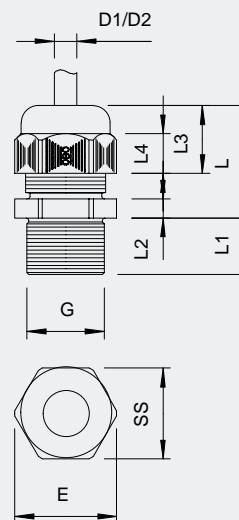
With long connecting thread

Type	Thread	Colour	Pack qty	Weight kg/100	Ord. no. PA
V-TEC L	Pg 7	l. grey	50	0.410	2024 28 4
V-TEC L	Pg 9	l. grey	50	0.670	2024 29 2
V-TEC L	Pg 11	l. grey	50	0.930	2024 30 6
V-TEC L	Pg 13.5	l. grey	50	1.090	2024 31 4
V-TEC L	Pg 16	l. grey	25	1.490	2024 32 2
V-TEC L	Pg 21	l. grey	25	2.330	2024 33 0
V-TEC L	Pg 29	l. grey	20	3.860	2024 34 9
V-TEC L	Pg 36	l. grey	10	7.750	2024 35 7
V-TEC L	Pg 42	l. grey	5	10.070	2024 36 5
V-TEC L	Pg 48	l. grey	5	10.730	2024 37 3

With long connecting thread

Type	Thread	Colour	Pack qty	Weight kg/100	Ord. no. PA
V-TEC L	Pg 7	black	50	0.410	2024 38 1
V-TEC L	Pg 9	black	50	0.670	2024 40 3
V-TEC L	Pg 11	black	50	0.930	2024 41 1
V-TEC L	Pg 13.5	black	50	1.090	2024 43 8
V-TEC L	Pg 16	black	25	1.490	2024 44 6
V-TEC L	Pg 21	black	25	2.330	2024 45 4
V-TEC L	Pg 29	black	20	3.860	2024 46 2
V-TEC L	Pg 36	black	10	7.750	2024 47 0
V-TEC L	Pg 42	black	5	10.070	2024 48 9
V-TEC L	Pg 48	black	5	10.730	2024 49 7

With long connecting thread



Nom. size G	Sealing range D1 mm	Strain rel. and twist prot. D2 mm	Hexagon SS		min. ca	L max. ca	L1 mm	L2 mm	L3 mm	L4 mm
			E							
Pg 7	2.5- 6.5	3 - 6.5	15	16.5	18	23	15	5	12.6	7
Pg 9	2.5- 8	3.5- 8	19	21	21	27	15	5	15.5	9
Pg 11	3.5-10	4.5-10	22	25	22	29	15	5	17	10
Pg 13.5	5 -12	6 -12	24	27	23	30	15	5	18	10.5
Pg 16	7 -14	7 -14	27	30	25	33	15	6	19	11
Pg 21	9 -18	12 -18	33	37.5	28	38	15	6	22	12.5
Pg 29	14 -25	17 -25	42	47.5	32	43	15	7	24.5	14
Pg 36	18 -32	20 -32	53	60	39	54	18	8	31	18
Pg 42	24 -38	26 -38	60	68.5	42	57	18	9	32.5	19
Pg 48	30 -44	30 -44	65	74	42	58	18	9	33	19.5

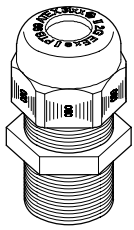
Table column D1: Sealing range to VDE 0619, where no strain relief is required

Table column D2: Sealing range including strain relief and twist protection to VDE 0619

**V-TEC L:** With long Pg connecting thread to DIN 40430  
 Cap-nut cable gland with wide sealing range, as well as strain relief and twist protection for high sealing demands  
 Gasket of chloroprene/nitrile rubber  
 Moulded sealing, so no connecting seal needed.  
 VDE tested, protection IP 68 at 5 bar

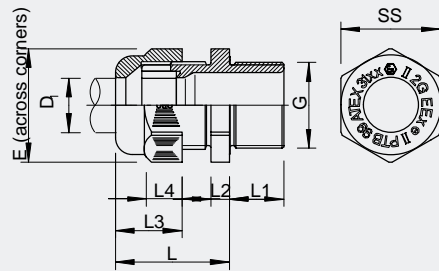
**PA** Polyamide, silver-grey (RAL 7001), light grey (RAL 7035), black  
 Flame-retardant to VDE 0471/IEC 695 Part 2-1  
 Test temperature 750°C

**OBO V-TEC EX L cable glands**



Type	Thread	Colour	Pack qty	Weight kg/100	Ord. no. PA
V-TEC EX L	Pg 7	black	50	0.410	2050 13 7
V-TEC EX L	Pg 9	black	50	0.670	2050 14 5
V-TEC EX L	Pg 11	black	50	0.930	2050 15 3
V-TEC EX L	Pg 13.5	black	50	1.090	2050 16 1
V-TEC EX L	Pg 16	black	25	1.490	2050 18 8
V-TEC EX L	Pg 21	black	25	2.330	2050 19 6
V-TEC EX L	Pg 29	black	20	3.860	2050 21 8
V-TEC EX L	Pg 36	black	10	7.750	2050 22 6
V-TEC EX L	Pg 42	black	5	10.070	2050 23 4
V-TEC EX L	Pg 48	black	5	10.730	2050 24 2

With long connecting thread



Nom. size G	can be used for cable diameter of mm	Hexagon SS	Hexagon E	min. ca	L max. ca	L1 mm	L2 mm	L3 mm	L4 mm
Pg 7	3.5- 6.5	15	16.5	18	23	15	5	12.6	7
Pg 9	5 - 8	19	21	21	27	15	5	15.5	9
Pg 11	4.5-10	22	25	22	29	15	5	17	10
Pg 13.5	6.5-12	24	27	23	30	15	5	18	10.5
Pg 16	7 -14	27	30	25	33	15	6	19	11
Pg 21	12 -18	33	37.5	28	38	15	6	22	12.5
Pg 29	17 -25	42	47.5	32	43	15	7	24.5	14
Pg 36		53	60	39	54	18	8	31	18
Pg 42	24 -38	60	68.5	42	57	18	9	32.5	19
Pg 48	30 -44	65	74	42	58	18	9	33	19.5

Table column D1: Sealing range to VDE 0619, where no strain relief is required

Table column D2: Sealing range including strain relief and twist protection to VDE 0619

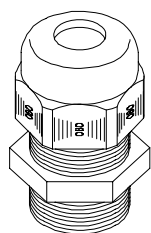
**V-TEC EX L:** cable gland with EC design type approval certificate for products and protection systems for use in accordance with the regulations in explosion-hazard area – Directive 94/9/EC

**EC design type approval certificate number:**  
PTB 99 ATEX 3112X and ... 3113X

With long Pg connecting thread to DIN 40430  
Cap-nut cable gland with wide sealing range, as well as strain relief and twist protection for high sealing demands  
Gasket of chloroprene/nitrile rubber  
Moulded sealing, so no connecting seal needed.  
VDE tested, protection IP 68 at 5 bar

**PA** Polyamide, black  
Flame-retardant to VDE 0471/IEC 695 Part 2-1  
Test temperature 750°C

## OBO V-TEC M cable glands



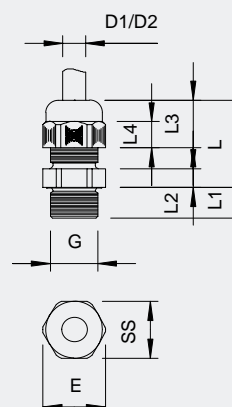
(M)



Type	Colour	Pack qty	Weight kg/100	Ord. no. PA
V-TEC M12 x 1.5	silver-grey	50	0.360	2022 25 7
V-TEC M16 x 1.5	silver-grey	50	0.630	2022 26 5
V-TEC M20 x 1.5	silver-grey	50	1.000	2022 27 3
V-TEC M25 x 1.5	silver-grey	25	2.350	2022 28 1
V-TEC M32 x 1.5	silver-grey	20	3.900	2022 30 3
V-TEC M40 x 1.5	silver-grey	10	7.500	2022 31 1
V-TEC M50 x 1.5	silver-grey	5	9.200	2022 45 1
V-TEC M63 x 1.5	silver-grey	5	9.660	2022 47 8

Type	Colour	Pack qty	Weight kg/100	Ord. no. PA
V-TEC M12 x 1.5	l. grey	50	0.360	2022 33 8
V-TEC M16 x 1.5	l. grey	50	0.630	2022 34 6
V-TEC M20 x 1.5	l. grey	50	1.000	2022 35 4
V-TEC M20 x 1.5 NL	l. grey	50	1.380	2024 88 0
V-TEC M25 x 1.5	l. grey	25	2.350	2022 36 2
V-TEC M32 x 1.5	l. grey	20	3.900	2022 37 0
V-TEC M40 x 1.5	l. grey	10	7.500	2022 39 7
V-TEC M50 x 1.5	l. grey	5	9.200	2022 48 6
V-TEC M63 x 1.5	l. grey	5	9.660	2022 49 4

Type	Colour	Pack qty	Weight kg/100	Ord. no. PA
V-TEC M12 x 1.5	black	50	0.360	2022 18 4
V-TEC M16 x 1.5	black	50	0.630	2022 19 2
V-TEC M20 x 1.5	black	50	1.000	2022 20 6
V-TEC M25 x 1.5	black	25	2.350	2022 21 4
V-TEC M32 x 1.5	black	20	3.900	2022 22 2
V-TEC M40 x 1.5	black	10	7.500	2022 23 0
V-TEC M50 x 1.5	black	5	9.200	2022 43 5
V-TEC M63 x 1.5	black	5	9.660	2022 44 3



Nom. size G	Sealing range D1 mm	Strain rel. and twist protection D2 mm	Hexagon		L min. ca	L max. ca	L1 mm	L2 mm	L3 mm	L4 mm
			SS	E						
M12x1.5	2.5- 6.5	3 - 6.5	15	16.5	18	23	8	5	12.6	7
M16x1.5	2.5- 8	3.5- 8	19	21	21	27	8	5	15.5	9
M20x1.5	5 -12	6 -12	24	27	23	30	9	5	18	10.5
M20x1.5NL	7 -14	7 -14	27	30	25	33	7	6	19	11
M25x1.5	9 18	12 -18	33	37.5	28	38	11	6	22	12.5
M32x1.5	14 -25	17 -25	42	47.5	32	43	11	7	24.5	14
M40x1.5	18 -32	20 -32	53	60	39	54	13	8	31	18
M50x1.5	24 -38	26 -38	60	68	42	57	13	9	32.5	19
M63x1.5	30 -44	30 -44	65	74	42	58	14	9	33	19.5

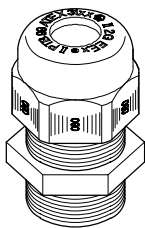
Table column D1: Sealing range to VDE 0619, where no strain relief is required

Table column D2: Sealing range including strain relief and twist protection to VDE 0619

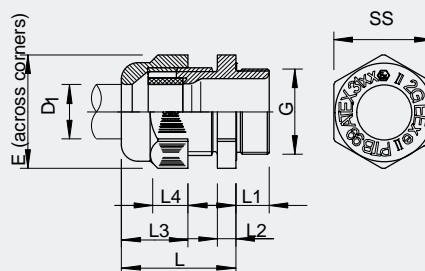
**V-TEC M:** With metric connecting thread to IEC 423  
 Cap-nut cable gland with wide sealing range, as well as strain relief and twist protection for high sealing demands  
 Gasket of chloroprene/nitrile rubber  
 Moulded sealing, so no connecting seal needed.  
 VDE tested, protection IP 68 at 5 bar

**PA** Polyamide, silver-grey (RAL 7001), light grey (RAL 7035), black  
 Flame-retardant to VDE 0471/IEC 695 Part 2-1  
 Test temperature 750°C

## OBO V-TEC EX M cable glands



Type	Colour	Pack qty	Weight kg/100	Ord. no. PA
V-TEC EX M12 x 1.5	black	50	0.360	2050 30 7
V-TEC EX M16 x 1.5	black	50	0.630	2050 31 5
V-TEC EX M20 x 1.5	black	50	1.000	2050 32 3
V-TEC EX M25 x 1.5	black	25	2.350	2050 33 1
V-TEC EX M32 x 1.5	black	20	3.900	2050 35 8
V-TEC EX M40 x 1.5	black	10	7.500	2050 36 6
V-TEC EX M50 x 1.5	black	5	9.200	2050 37 4
V-TEC EX M63 x 1.5	black	5	9.460	2050 38 2



Nom. size G	can be used for cable diameter of mm	Hexagon		L		L1 mm	L2 mm	L3 mm	L4 mm
		SS	E	min. ca	max. ca				
M12x1.5	3.5- 6.5	15	16.5	18	23	8	5	12.6	7
M16x1.5	5 - 8	19	21	21	27	8	5	15.5	9
M20x1.5	7 - 12	24	27	23	30	9	5	18	10.5
M25x1.5	12 -18	33	37.5	28	38	11	6	22	12.5
M32x1.5	17 -25	42	47.5	32	43	11	7	24.5	14
M40x1.5		53	60	39	54	13	8	31	18
M50x1.5		60	68.5	42	57	13	9	32.5	19
M63x1.5		65	74	42	58	14	9	33	19.5

Table column D1: Sealing range to VDE 0619, where no strain relief is required

Table column D2: Sealing range including strain relief and twist protection to VDE 0619

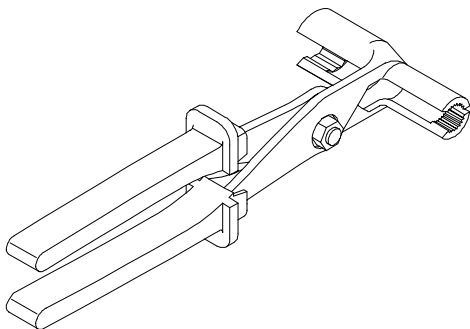
**V-TEC EX M:** cable gland with EC design type approval certificate for devices and protection systems for use in accordance with the regulations in explosion-hazard area – Directive 94/9/EC

**EC design type approval certificate number:**  
**PTB 99 ATEX 3112X and ... 3113X**

With metric connecting thread to IEC 423  
Cap-nut cable gland with wide sealing range, as well as strain relief and twist protection for high sealing demands  
Gasket of chloroprene/nitrile rubber  
Moulded sealing, so no connecting seal needed.  
VDE tested, protection IP 68 at 5 bar

**PA** Polyamide, black  
Flame-retardant to VDE 0471/IEC 695 Part 2-1  
Test temperature 750°C

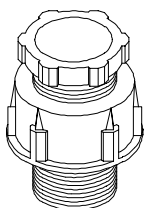
## Special pliers for glands



Type	Pack qty	Weight kg/pc	Ord. no.
186	1	0.470	3010 10 4

**186:** Universal tool for effortless tightening of all glands up to size Pg 21 or M25 x 1.5.  
Also useful where glands are arranged close together.  
Small opening Pg 7-Pg 11  
Large opening Pg 13.5-Pg 21

## Conical cable glands



Type	Thread	Colour	Carton qty	Pack qty	Weight kg/100	Ord. no. PS
106/B	Pg 9	l. grey	500	50	0.700	2036 08 8
106/B	Pg 11	l. grey	500	50	0.977	2036 12 6
106/B	Pg 13.5	l. grey	500	50	1.050	2036 14 2
106/B	Pg 16	l. grey	500	50	1.585	2036 15 0
106/B	Pg 21	l. grey	500	50	2.594	2036 22 3
106/B	Pg 29	l. grey	100	10	5.483	2036 30 4
106/B	Pg 36	l. grey	160	10	10.238	2036 37 1
106/B	Pg 42	l. grey	50	5	18.513	2036 43 6
106/B	Pg 48	l. grey	50	5	21.138	2036 49 5

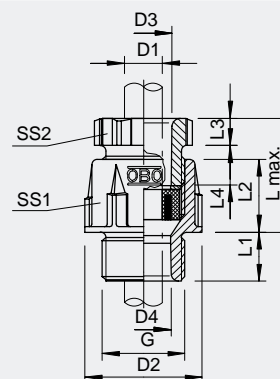
With cutting ring

### Accessories available:

Thread entry seals

107/F (Flat)  
171 (O-ring)

see page 75  
see page 77



Nom. size G	Sealing range D1 mm	D2 mm	D3 mm	D4 mm	Spanner size SS1 SS2	L1 mm	L2 mm	L3 mm	L4 mm	Lmax ca. mm
Pg 9	5 -10	21.5	10.2	10.2	19 16	8	14	5	9	25
Pg 11	7.5-11.5	25	11.3	11.5	22 19	8	15	5	10	27
Pg 13.5	7.5-13	27	13.4	13.5	24 21	9	16	5	10.8	28
Pg 16	7.5-15	30	15.8	16.5	27 23	10	16.5	6	12	30
Pg 21	10 -20	37.5	21.2	21	33 30	11	19	7	17	38
Pg 29	18 -27	47.5	30	27.5	42 40	11	20.5	8	18	42
Pg 36	24 -34	58	38	34.5	53 50	12	24	8	17	43
Pg 42	30 -40	65	44.5	40.5	60 55	13	27	9	18.5	48
Pg 48	36 -45	70	50	45.5	65 60	14	27	9	18.5	48

**106/B:** cable gland Form A to DIN 46320

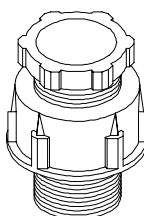
Pg connecting thread to DIN 40430

With cutting ring of NR/SBR, giving extended sealing range

Degree of protection: with seal IP65, without IP54.

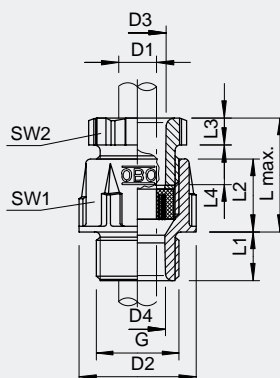
Note: cable glands of polystyrene should not be over-tightened because of the risk of stress cracking.

**PS** Polystyrene



Type	Colour	Pack qty	Weight kg/100 qty	Ord. no. PS
106/B M16x1,5	light grey	50	0,562	2035 51 0
106/B M20x1,5	light grey	50	0,900	2035 51 2
106/B M25x1,5	light grey	50	2,112	2035 51 4
106/B M32x1,5	light grey	10	3,700	2035 51 6
106/B M40x1,5	light grey	10	6,240	2035 51 8
106/B M50x1,5	light grey	5	8,500	2035 52 0
106/B M63x1,5	light grey	5	9,633	2035 52 2

With cutting ring



Nom. size G	Sealing range D1 mm	D2 mm	D3 mm	D4 mm	Spanner size SW1 SW2	L1 mm	L2 mm	L3 mm	L4 mm	Lmax. ca. mm
16	5 -10	21,5	10,2	10,2	19 16	8	14	5	9	25
20	7,5-13	27	13,4	13,5	24 21	9	16	5	10,8	28
25	7,5-15	30	15,8	16,5	27 23	10	16,5	6	12	30
32	18 -27	47,5	30	27,5	42 40	11	20,5	8	18	42
40	24 -34	58	38	34,5	53 50	12	24	8	17	43
50	30 -40	65	44,5	40,5	60 55	13	27	9	18,5	48
63	36 -45	70	50	45,5	65 60	14	27	9	18,5	48

**106/B M...:** cable gland Form A to DIN 46320

With cutting ring of NR/SBR, giving extended sealing range

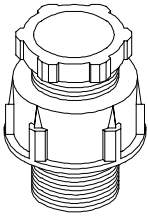
With metric connecting thread to IEC 423

Degree of protection: with seal IP65, without IP54.

Note: cable glands of polystyrene should not be over-tightened because of the risk of stress cracking.

**PS** Polystyrene

## Conical cable glands

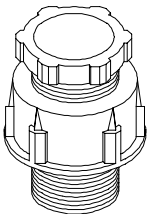


Type	Thread	Colour	Carton qty	Pack qty	Weight kg/100	Ord. no. PS
<b>106</b>	Pg 7	l. grey	900	50	0.396	<b>2036 06 1</b>
<b>106</b>	Pg 9	l. grey	500	50	0.562	<b>2036 09 6</b>
<b>106</b>	Pg 11	l. grey	500	50	0.798	<b>2036 11 8</b>
<b>106</b>	Pg 13.5	l. grey	600	50	0.900	<b>2036 13 4</b>
<b>106</b>	Pg 16	l. grey	600	50	1.228	<b>2036 16 9</b>
<b>106</b>	Pg 21	l. grey	600	50	2.112	<b>2036 21 5</b>
<b>106</b>	Pg 29	l. grey	120	10	3.700	<b>2036 29 0</b>
<b>106</b>	Pg 36	l. grey	80	10	6.240	<b>2036 36 3</b>
<b>106</b>	Pg 42	l. grey	50	5	8.500	<b>2036 42 8</b>
<b>106</b>	Pg 48	l. grey	50	5	9.633	<b>2036 48 7</b>

Form A to DIN 46320

**Accessories available:**

Thread entry seals 107/F (Flat) see page 75  
171 (O-ring) see page 77

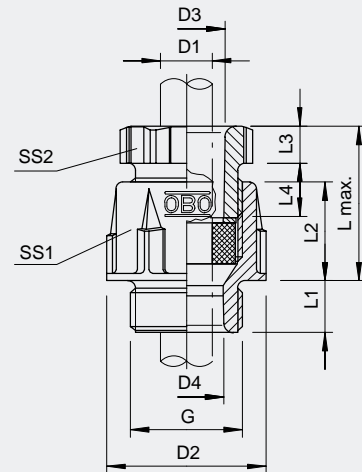


Type	Thread	Colour	Pack qty	Weight kg/100	Ord. no. PS
<b>106 M</b>	M12	l. grey	50	0.396	<b>2035 31 6</b>
<b>106 M</b>	M16	l. grey	50	0.562	<b>2035 32 4</b>
<b>106 M</b>	M20	l. grey	50	0.900	<b>2035 33 2</b>
<b>106 M</b>	M25	l. grey	50	2.112	<b>2035 34 0</b>
<b>106 M</b>	M32	l. grey	10	3.700	<b>2035 35 9</b>
<b>106 M</b>	M40	l. grey	10	6.240	<b>2035 36 7</b>
<b>106 M</b>	M50	l. grey	5	8.500	<b>2035 37 5</b>
<b>106 M</b>	M63	l. grey	5	9.633	<b>2035 38 3</b>

Form A to DIN 46320

**Accessories available:**

Thread entry seals 107/FM (Flat) see page 84  
171 (O-ring) see page 77



Nom. size G	Sealing range D1 mm	D2 mm	D3 mm	D4 mm	Spanner size SS1	SS2	L1 mm	L2 mm	L3 mm	L4 mm	L max. ca mm
Pg 7	3.5- 6.5	16.5	7	7	15	13	8	13	5	8.5	23
Pg 9	4.5- 7	21.5	10.2	10.2	19	16	8	14	5	9	25
Pg 11	5.5-10	25	11.3	11.5	22	19	8	15	5	10	27
Pg 13.5	9 -13	27	13.4	13.5	24	21	9	16	5	10.8	28
Pg 16	10 -14	30	15.8	16.5	27	23	10	16.5	6	12	30
Pg 21	14 -18	37.5	21.2	21	33	30	11	19	7	17	38
Pg 29	18 -25	47.5	30	27.5	42	40	11	20.5	8	18	42
Pg 36	25 -33	58	38	34.5	53	50	12	24	8	17	43
Pg 42	30 -38	65	44.5	40.5	60	55	13	27	9	18.5	48
Pg 48	37 -44	70	50	45.5	65	60	14	27	9	18.5	48

**106:** Standard cable gland, Form A to DIN 46320 with single seal of NR/SBR, Pg connecting thread to DIN 40430  
Degree of protection: with seal IP65, without IP54.

Note: cable glands of polystyrene should not be over-tightened because of the risk of stress cracking.

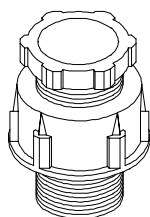
Nom. size G	Sealing range D1 mm	D2 mm	D3 mm	D4 mm	Spanner size SS1	SS2	L1 mm	L2 mm	L3 mm	L4 mm	L max. ca mm
M12	3.5- 6.5	16.5	7	7	15	13	8	13	5	8.5	23
M16	4.5- 7	21.5	10.2	10	19	16	8	14	5	9	25
M20	9 -13	25	11.3	13	22	19	8	15	5	10	27
M25	10 -14	27	13.4	16	24	21	9	16	5	10.8	28
M32	18 -25	30	15.8	26	27	23	10	16.5	6	12	30
M40	25 -33	37.5	21.2	33	33	30	11	19	7	17	38
M50	30 -38	47.5	30	40.5	42	40	11	20.5	8	18	42
M63	37 -44	58	38	45.5	53	50	12	24	8	17	43

**106 M...:** Standard cable gland, Form A to DIN 46320 with single seal of NR/SBR  
With metric connecting thread to IEC 423  
Degree of protection: with seal IP65, without IP54.

Note: cable glands of polystyrene should not be over-tightened because of the risk of stress cracking.

**PS** Polystyrene, light grey (RAL 7035), impact-resistant

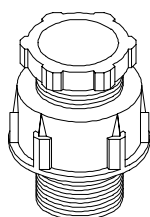
## Conical cable glands



Type	Thread	Colour	Carton qty	Pack qty	Weight kg/100	Ord. no. PA
<b>106 VDE</b>	Pg 7	l. grey	1000	50	0.420	<b>2036 50 9</b>
<b>106 VDE</b>	Pg 9	l. grey	500	50	0.610	<b>2036 51 7</b>
<b>106 VDE</b>	Pg 11	l. grey	500	50	0.870	<b>2036 53 3</b>
<b>106 VDE</b>	Pg 13.5	l. grey	500	50	1.059	<b>2036 57 6</b>
<b>106 VDE</b>	Pg 16	l. grey	500	50	1.340	<b>2036 59 2</b>
<b>106 VDE</b>	Pg 21	l. grey	500	50	2.334	<b>2036 61 4</b>
<b>106 VDE</b>	Pg 29	l. grey	100	10	3.834	<b>2036 63 0</b>
<b>106 VDE</b>	Pg 36	l. grey	160	10	7.800	<b>2036 65 7</b>
<b>106 VDE</b>	Pg 42	l. grey	50	5	16.400	<b>2036 67 3</b>
<b>106 VDE</b>	Pg 48	l. grey	50	5	18.900	<b>2036 70 3</b>

### Accessories available:

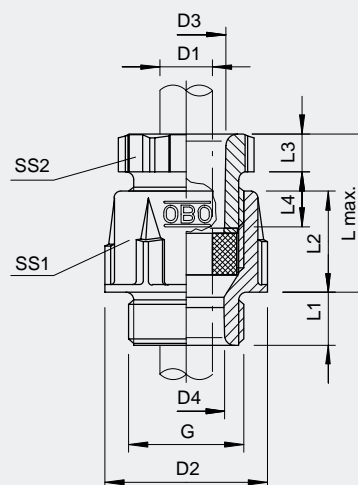
Thread entry seals  
 107/F (Flat) see page 75  
 171 (O-ring) see page 77



Type	Thread	Colour	Pack qty	Weight kg/100	Ord. no. PA
<b>106 M PA</b>	M12	l. grey	50	0.420	<b>2035 41 3</b>
<b>106 M PA</b>	M16	l. grey	50	0.610	<b>2035 42 1</b>
<b>106 M PA</b>	M20	l. grey	50	1.059	<b>2035 44 8</b>
<b>106 M PA</b>	M25	l. grey	50	2.334	<b>2035 45 6</b>
<b>106 M PA</b>	M32	l. grey	10	3.834	<b>2035 46 4</b>
<b>106 M PA</b>	M40	l. grey	10	7.800	<b>2035 47 2</b>
<b>106 M PA</b>	M50	l. grey	5	16.400	<b>2035 48 0</b>
<b>106 M PA</b>	M63	l. grey	5	18.900	<b>2035 49 9</b>

### Accessories available:

Thread entry seals  
 107/FM (Flat) see page 84  
 171 (O-ring) see page 77



Nom. size G	Sealing range D1 mm	D2 mm	D3 mm	D4 mm	Spanner size SS1	SS2	L1 mm	L2 mm	L3 mm	L4 mm	L max. ca mm
Pg 7	3.5- 6.5	16.5	7	7	15	13	8	13	5	8.5	23
Pg 9	4.5- 7	21.5	10.2	10.2	19	16	8	14	5	9	25
Pg 11	5.5-10	25	11.3	11.5	22	19	8	15	5	10	27
Pg 13.5	9 -13	27	13.4	13.5	24	21	9	16	5	10.8	28
Pg 16	10 -14	30	15.8	16.5	27	23	10	16.5	6	12	30
Pg 21	14 -18	37.5	21.2	21	33	30	11	19	7	17	38
Pg 29	18 -25	47.5	30	27.5	42	40	11	20.5	8	18	42
Pg 36	25 -33	58	38	34.5	53	50	12	24	8	17	43
Pg 42	30 -38	65	44.5	40.5	60	55	13	27	9	18.5	48
Pg 48	37 -44	70	50	45.5	65	60	14	27	9	18.5	48

**106/VDE:** Standard cable gland, Form A to DIN 46320 with single seal of NR/SBR

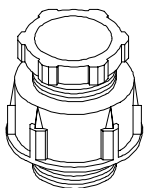
Pg connecting thread to DIN 40430  
 Degree of protection: with seal IP65, without IP54.

Nom. size G	Sealing range D1 mm	D2 mm	D3 mm	D4 mm	Spanner size SS1	SS2	L1 mm	L2 mm	L3 mm	L4 mm	L max. ca mm
M12	3.5- 6.5	16.5	7	7	15	13	8	13	5	8.5	23
M16	4.5- 7	21.5	10.2	10	19	16	8	14	5	9	25
M20	9 -13	25	11.3	13	22	19	8	15	5	10	27
M25	10 -14	27	13.4	16	24	21	9	16	5	10.8	28
M32	18 -25	30	15.8	26	27	23	10	16.5	6	12	30
M40	25 -33	37.5	21.2	33	33	30	11	19	7	17	38
M50	30 -38	47.5	30	40.5	42	40	11	20.5	8	18	42
M63	37 -44	58	38	45.5	53	50	12	24	8	17	43

**106 M PA:** Standard cable gland, Form A to DIN 46320 with single seal of NR/SBR and with metric connecting thread to IEC 423  
 Degree of protection: with seal IP65, without IP54.

**PA** Polyamide, glassfibre-reinforced, light grey (RAL 7035)  
 Flame-retardant to VDE 0471/DIN IEC 695 Part 2-1  
 Test temperature 750°C

## Conical cable glands

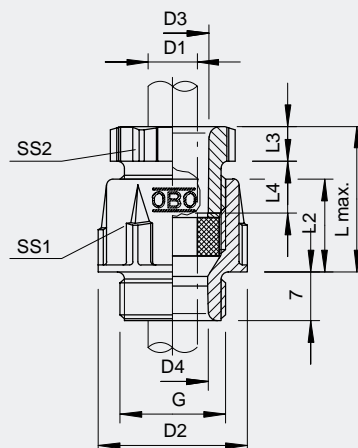


Type	Thread	Colour	Carton qty	Pack qty	Weight kg/100	Ord. no. <b>PS</b>
<b>106/K</b>	Pg 13.5	l. grey	500	50	0.960	<b>2038 01 3</b>
<b>106/K</b>	Pg 16	l. grey	250	25	1.172	<b>2038 04 8</b>

With short connecting thread

### Accessories available:

Thread entry seals      107/F (Flat)      see page 75  
 171 (O-ring)      see page 77



Nom. size G	Sealing range D1 mm	D2 mm	D3 mm	D4 mm	Spanner size SS1 SS2		L2 mm	L3 mm	L4 mm	Lmax. ca mm
Pg 13.5	9 - 13	27	13.4	14	24	21	16	5	10.8	26
Pg 16	10 - 14	30	15.8	15.5	27	23	16.5	6	12	27

**106/K:** cable gland Form A, to DIN 46320, but with short connecting thread especially suitable for junction boxes with Pg thread  
 With single seal of NR/SBR  
 Degree of protection: with seal IP65, without IP54.

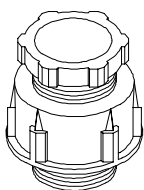
Note: cable glands of polystyrene should not be over-tightened because of the risk of stress cracking.

Nom. size G	Sealing range D1 mm	D2 mm	D3 mm	D4 mm	Spanner size SS1 SS2		L2 mm	L3 mm	L4 mm	Lmax. ca mm
M20	9 - 13	27	13.4	14	24	21	16	5	10.8	26

**106/K M...:** cable gland Form A, to DIN 46320, but with short connecting thread especially suitable for junction boxes with metric thread  
 With single seal of NR/SBR  
 Degree of protection: with seal IP65, without IP54.

Note: cable glands of polystyrene should not be over-tightened because of the risk of stress cracking.

**PS** Polystyrene, light grey (RAL 7035), impact-resistant



Type	Thread	Colour	Carton qty	Pack qty	Weight kg/100	Ord. no. <b>PS</b>
<b>106/K M20</b>	M20	l. grey	500	50	0.960	<b>2038 07 2</b>

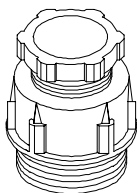
With short connecting thread

### Accessories available:

Thread entry seals      107/FM (Flat)      see page 84  
 171 (O-ring)      see page 77



## Reducing conical cable glands



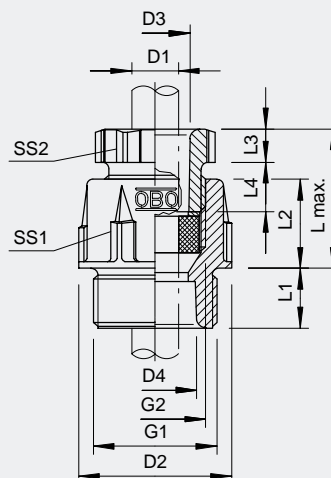
Type	Connecting thread/ internal thread	Colour	Pack qty	Weight kg/100	Ord. no. <b>PS</b>
<b>106/R</b>	Pg 11 /9	l. grey	50	0.570	<b>2040 02 6</b>
<b>106/R</b>	Pg 13.5/9	l. grey	50	0.600	<b>2040 04 2</b>
<b>106/R</b>	Pg 13.5/11	l. grey	50	0.740	<b>2040 06 9</b>
<b>106/R</b>	Pg 16 /11	l. grey	25	0.770	<b>2040 08 5</b>
<b>106/R</b>	Pg 16 /13.5	l. grey	25	1.034	<b>2040 10 7</b>
<b>106/R</b>	Pg 21 /16	l. grey	25	1.400	<b>2040 12 3</b>
<b>106/R</b>	Pg 29 /21	l. grey	15	2.688	<b>2040 15 8</b>

### Accessories available:

Thread entry seals

107/F (Flat)  
171 (O-ring)

see page 75  
see page 77



Nom. size	G1	G2	Sealing range D1 mm	Spanner size SS1	SS2
Pg 11 / 9	Pg 11	Pg 9	4.5- 7	19	16
Pg 13.5/ 9	Pg 13.5	Pg 9	4.5- 7	19	16
Pg 13.5/11	Pg 13.5	Pg 11	5 -10	22	19
Pg 16 /11	Pg 16	Pg 11	5 -10	22	19
Pg 16 /13.5	Pg 16	Pg 13.5	9 -13	24	21
Pg 21 /16	Pg 21	Pg 16	10 -14	27	23
Pg 21 /13.5	Pg 29	Pg 21	14 -18	33	30

**106/R:** Reducing cable glands are used wherever the cable diameter is too small to be sealed with existing Pg thread.

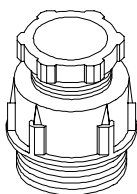
Dimensions with reference to DIN 46320

Pg connecting thread to DIN 40430

With single seal of NR/SBR

Degree of protection: with seal IP65, without IP54.

Note: cable glands of polystyrene should not be over-tightened because of the risk of stress cracking.



Type	Connecting thread/ internal thread	Colour	Pack qty	Weight kg/100	Ord. no. <b>PA</b>
<b>106/R VDE</b>	Pg 11 /9	l. grey	50	0.708	<b>2040 32 8</b>
<b>106/R VDE</b>	Pg 13.5/9	l. grey	50	0.738	<b>2040 34 4</b>
<b>106/R VDE</b>	Pg 13.5/11	l. grey	50	0.969	<b>2040 36 0</b>
<b>106/R VDE</b>	Pg 16 /11	l. grey	25	1.009	<b>2040 38 7</b>
<b>106/R VDE</b>	Pg 16 /13.5	l. grey	25	1.190	<b>2040 40 9</b>
<b>106/R VDE</b>	Pg 21 /16	l. grey	25	1.460	<b>2040 42 5</b>
<b>106/R VDE</b>	Pg 29 /21	l. grey	15	2.694	<b>2040 44 1</b>

### Accessories available:

Thread entry seals

107/F (Flat)  
171 (O-ring)

see page 75  
see page 77

Nom. size	D2 mm	D3 mm	D4 mm	L1 mm	L2 mm	L3 mm	L4 mm	Lmax. ca mm
Pg 11 / 9	23	10.2	10	9	14	5	9	24
Pg 13.5/ 9	25.5	10.2	10	9	14.5	5	9	26
Pg 13.5/11	25.5	11.3	12	9	15	5	10	27
Pg 16 /11	28	11.3	12	11	15.5	5	10	28
Pg 16 /13.5	28	13.4	14	11	16.5	5	10.8	29.5
Pg 21 /16	34	15.8	15.5	11	17	6	12	31
Pg 29 /21	44	21.2	21	12	21	7	17	40

**106/R VDE:** Reducing cable glands are used wherever the cable diameter is too small to be sealed with existing Pg thread.

Dimensions with reference to DIN 46320

Pg connecting thread to DIN 40430

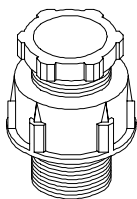
With single seal of NR/SBR

Degree of protection: with seal IP65, without IP54.

**PS** Polystyrene, light grey (RAL 7035), impact-resistant

**PA** Polyamide, glassfibre-reinforced, light grey (RAL 7035)  
Flame-retardant to VDE 0471/DIN IEC 695 Part 2-1  
Test temperature 750°C

## cable glands

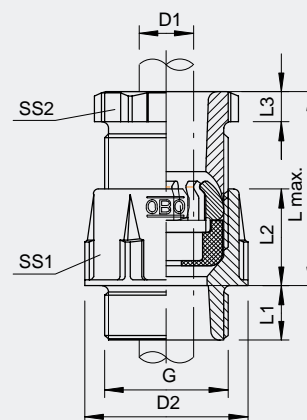


Type	Thread	Colour	Pack qty	Weight kg/100	Ord. no. PC
106/Z	Pg 9	l. grey	50	0.630	2023 50 4
106/Z	Pg 11	l. grey	50	0.860	2023 51 2
106/Z	Pg 13.5	l. grey	50	1.100	2023 52 0
106/Z	Pg 16	l. grey	25	1.420	2023 53 9
106/Z	Pg 21	l. grey	25	2.500	2023 54 7
106/Z	Pg 29	l. grey	15	4.000	2023 55 5

With strain relief

### Accessories available:

Thread entry seals	107/F (Flat) 171 (O-ring)	see page 75 see page 77
--------------------	------------------------------	----------------------------



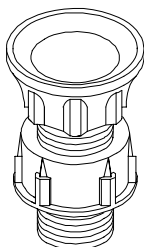
Nom. size G	Sealing range D1 mm	D2 mm	Spanner size SS1 SS2		L1 mm	L2 mm	L3 mm	Lmax. ca mm
Pg 9	5 - 8	21.5	19	16	8	14	5	25
Pg 11	6 - 10	25	22	19	8	15	5	27
Pg 13.5	8 - 12	27	24	21	9	16	5	28
Pg 16	10 - 14	30	27	23	10	16.5	6	30
Pg 21	13 - 18	37.5	33	30	11	19	7	38
Pg 29	17 - 24	47.5	42	40	11	20.5	8	42

**106/Z:** cable gland with external dimensions to DIN 46320, but with integral, centrally acting strain relief

Pg connecting thread to DIN 40430

Gasket of chloroprene rubber with double-action sealing function  
Degree of protection: with seal IP65, without IP54.

**PC** Polycarbonate (Makrolon)

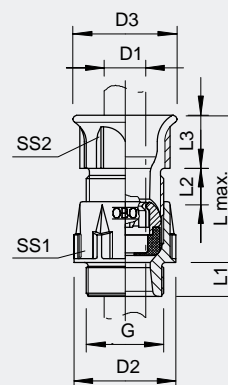


Type	Thread	Colour	Pack qty	Weight kg/100	Ord. no. PC
106/ZB	Pg 9	l. grey	50	0.730	2023 70 9
106/ZB	Pg 11	l. grey	50	0.960	2023 71 7
106/ZB	Pg 13.5	l. grey	50	1.190	2023 72 5
106/ZB	Pg 16	l. grey	25	1.610	2023 73 3
106/ZB	Pg 21	l. grey	25	2.600	2023 74 1
106/ZB	Pg 29	l. grey	15	4.500	2023 76 8

With bending protection and strain relief

### Accessories available:

Thread entry seals	107/F (Flat) 171 (O-ring)	see page 75 see page 77
--------------------	------------------------------	----------------------------



Nom. size G	Sealing and clamping range D1 mm	D2 mm	D3 mm	Spanner size SS1 SS2		L1 mm	L2 mm	L3 mm	Lmax. ca mm
Pg 9	5 - 8	21.5	23.5	19	16	8	14	10.2	30
Pg 11	6 - 10	25	26	22	19	8	15	13	35
Pg 13.5	8 - 12	27	27.5	24	21	9	16	14	37
Pg 16	10 - 14	30	32	27	23	10	16.5	16	40
Pg 21	13 - 18	37.5	38	33	30	11	19	17	48
Pg 29	17 - 24	47.5	49	42	40	11	20.5	20	54

**106/ZB:** cable gland with integral, centrally-acting strain relief with a flexible conical end-piece

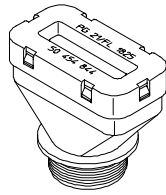
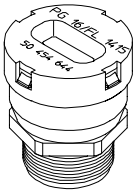
Gasket of chloroprene rubber with double-action sealing function

Pg connecting thread to DIN 40430

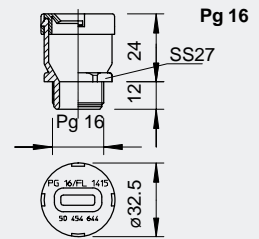
Degree of protection: with seal IP65, without IP54.

**PC** Polycarbonate (Makrolon)

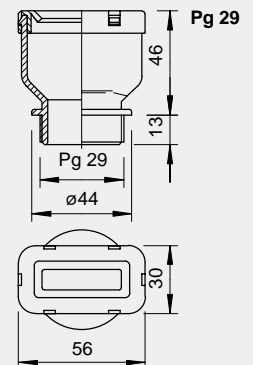
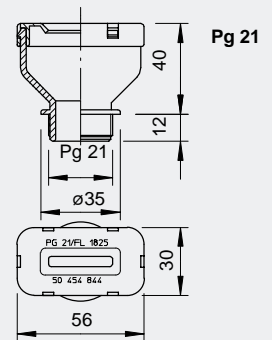
## Flat-cable glands



Type	Thread/for flat cable width mm	Colour	Car-ton qty	Pack qty	Weight kg/100	Ord. no. PE
<b>106/FL</b>	Pg 16/17 -19	l. grey	600	50	1.350	<b>2012 75 8</b>
<b>106/FL</b>	Pg 21/27 -30	l. grey	200	25	2.630	<b>2012 85 5</b>
<b>106/FL</b>	Pg 21/30 -33	l. grey	200	25	2.630	<b>2012 78 2</b>
<b>106/FL</b>	Pg 21/19 -22	l. grey	250	25	2.630	<b>2012 82 0</b>
<b>106/FL</b>	Pg 21/36 -39	l. grey	250	25	2.630	<b>2012 80 4</b>
<b>106/FL</b>	Pg 21/26 -29	l. grey	200	25	2.630	<b>2012 83 9</b>
<b>106/FL</b>	Pg 21/28.5-31.5	l. grey	250	25	2.630	<b>2012 87 1</b>
<b>106/FL</b>	Pg 21/31 -35	l. grey	250	25	2.630	<b>2012 84 7</b>
<b>106/FL</b>	Pg 21/37 -40	l. grey	250	25	2.680	<b>2012 92 8</b>
<b>106/FL</b>	Pg 29/27 -30	l. grey	150	15	3.450	<b>2012 68 5</b>
<b>106/FL</b>	Pg 29/30 -33	l. grey	150	15	3.450	<b>2012 94 4</b>
<b>106/FL</b>	Pg 29/19 -22	l. grey	150	15	3.450	<b>2012 67 7</b>
<b>106/FL</b>	Pg 29/36 -39	l. grey	180	15	3.450	<b>2012 95 2</b>
<b>106/FL</b>	Pg 29/26 -29	l. grey	150	15	3.450	<b>2012 76 6</b>
<b>106/FL</b>	Pg 29/28.5-31.5	l. grey	150	15	3.450	<b>2012 96 0</b>
<b>106/FL</b>	Pg 29/31 -35	l. grey	150	15	3.450	<b>2012 97 9</b>
<b>106/FL</b>	Pg 29/37 -40	l. grey	150	15	3.500	<b>2012 77 4</b>



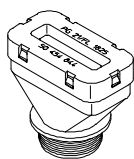
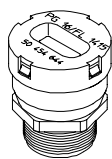
Thread	For flat cable	
	Thickness mm	Width mm
Pg 16	6 - 8	17 -19
Pg 21	4 - 6	27 -30
Pg 21	6 - 8	30 -33
Pg 21	7 - 9	19 -22
Pg 21	7 - 9	36 -39
Pg 21	8 -10	26 -29
Pg 21	8.5-10.5	28.5-31.5
Pg 21	9 -12	31 -35
Pg 21	11 -14	37 -40
Pg 29	4 - 6	27 -30
Pg 29	6 - 8	30 -33
Pg 29	7 - 9	19 -22
Pg 29	7 - 9	36 -39
Pg 29	8 -10	26 -29
Pg 29	8.5-10.5	28.5-31.5
Pg 29	9 -12	31 -35
Pg 29	11 -14	37 -40



**106/FL:** Flat-cable entry, choke-nipple design  
With Pg connecting thread to DIN 40430  
Protection IP 31  
With pre-fitted spigot seal 107/F

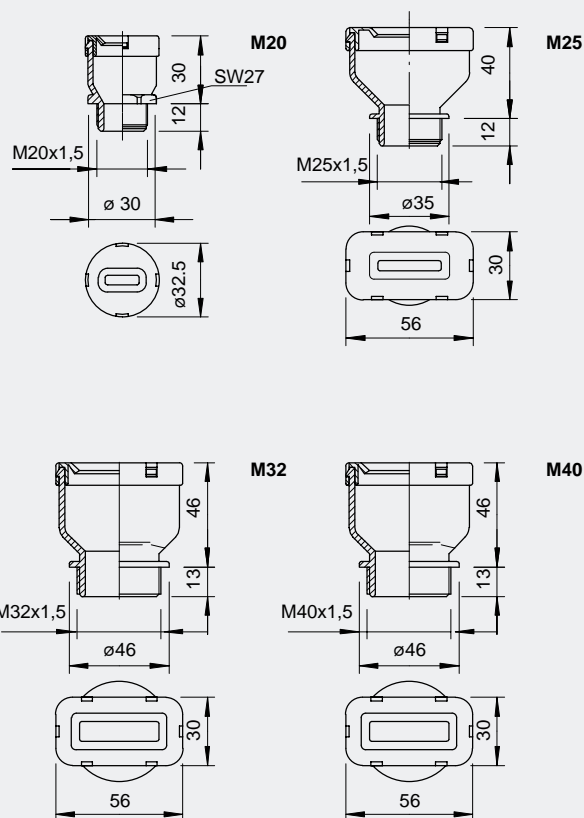
**PE** Polyethylene

## Flat-cable glands



Type	for flat cable width thickness mm	for flat cable width mm	Carton qty	Pack qty	Weight kg/100 qty	Ord. no. <b>PE</b>
106/FL M20	6 - 8	17 -19	600	50	1,350	2013 00 2
106/FL M25	4 - 6	27 -30	200	25	2,630	2013 00 6
106/FL M25	6 - 8	30 -33	200	25	2,630	2013 00 7
106/FL M25	7 - 9	19 -22	200	25	2,630	2013 00 8
106/FL M25	7 - 9	36 -39	200	25	2,630	2013 00 9
106/FL M25	8 -10	26 -29	200	25	2,630	2013 01 0
106/FL M25	8,5-10,5	28,5-31,5	200	25	2,630	2013 01 1
106/FL M25	9 -12	31 -35	200	25	2,630	2013 01 2
106/FL M25	11 -14	37 -40	200	25	2,680	2013 01 3
106/FL M32	4 - 6	27 -30	180	15	3,450	2013 01 5
106/FL M32	6 - 8	30 -33	180	15	3,450	2013 01 6
106/FL M32	7 - 9	19 -22	180	15	3,450	2013 01 7
106/FL M32	7 - 9	36 -39	180	15	3,450	2013 01 8
106/FL M32	8 -10	26 -29	180	15	3,450	2013 01 9
106/FL M32	8,5-10,5	28,5-31,5	180	15	3,450	2013 02 0
106/FL M32	9 -12	31 -35	180	15	3,450	2013 02 1
106/FL M32	11 -14	37 -40	180	15	3,500	2013 02 2
106/FL M40	4 - 6	27 -30	180	15	3,450	2013 02 5
106/FL M40	6 - 8	30 -33	180	15	3,450	2013 02 6
106/FL M40	7 - 9	19 -22	180	15	3,450	2013 02 7
106/FL M40	7 - 9	36 -39	180	15	3,450	2013 02 8
106/FL M40	8 -10	26 -29	180	15	3,450	2013 02 9
106/FL M40	8,5-10,5	28,5-31,5	180	15	3,450	2013 03 0
106/FL M40	9 -12	31 -35	180	15	3,450	2013 03 1
106/FL M40	11 -14	37 -40	180	15	3,500	2013 03 2

Colour: light grey

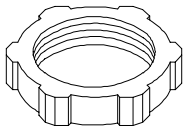


Thread	For flat cable	
	Thickness mm	Width mm
M20	6 - 8	17 -19
M25	4 - 6	27 -30
M25	6 - 8	30 -33
M25	7 - 9	19 -22
M25	7 - 9	36 -39
M25	8 -10	26 -29
M25	8,5-10,5	28,5-31,5
M25	9 -12	31 -35
M25	11 -14	37 -40
M32	4 - 6	27 -30
M32	6 - 8	30 -33
M32	7 - 9	19 -22
M32	7 - 9	36 -39
M32	8 -10	26 -29
M32	8,5-10,5	28,5-31,5
M32	9 -12	31 -35
M32	11 -14	37 -40
M40	4 - 6	27 -30
M40	6 - 8	30 -33
M40	7 - 9	19 -22
M40	7 - 9	36 -39
M40	8 -10	26 -29
M40	8,5-10,5	28,5-31,5
M40	9 -12	31 -35
M40	11 -14	37 -40

**106/FL M:** Flat-cable entry, choke-nipple design  
 With metric connecting thread to DIN 40430  
 Protection IP 31  
 With pre-fitted spigot seal 107/F

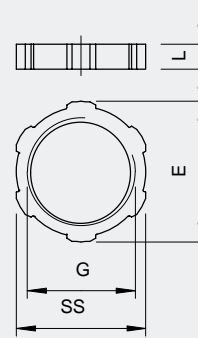
**PE** Polyethylene, light grey RAL 7035

## Locknuts



Type	Thread	Colour	Carton qty	Pack qty	Weight kg/100	Ord. no. PS
116	Pg 7	l. grey	4000	100	0.077	2043 07 6
116	Pg 9	l. grey	3000	100	0.114	2043 09 2
116	Pg 11	l. grey	3000	100	0.151	2043 11 4
116	Pg 13.5	l. grey	2700	100	0.210	2043 13 0
116	Pg 16	l. grey	2700	100	0.267	2043 16 5
116	Pg 21	l. grey	1200	100	0.343	2043 21 1
116	Pg 29	l. grey	500	50	0.902	2043 29 7
116	Pg 36	l. grey	250	25	1.380	2043 35 1
116	Pg 42	l. grey	250	25	1.440	2043 42 4
116	Pg 48	l. grey	250	25	1.500	2043 48 3

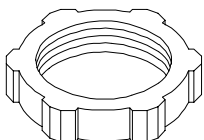
Type	Thread	Colour	Carton qty	Pack qty	Weight kg/100	Ord. no. PS
116	Pg 7	black	4000	100	0.077	2043 57 2
116	Pg 9	black	3000	100	0.114	2043 59 9
116	Pg 11	black	3000	100	0.151	2043 61 0
116	Pg 13.5	black	2700	100	0.210	2043 63 7
116	Pg 16	black	2700	100	0.267	2043 66 1
116	Pg 21	black	1200	100	0.343	2043 71 8
116	Pg 29	black	500	50	0.902	2043 79 3
116	Pg 36	black	250	25	1.380	2043 86 6
116	Pg 42	black	250	25	1.440	2043 92 0
116	Pg 48	black	250	25	1.500	2043 97 1



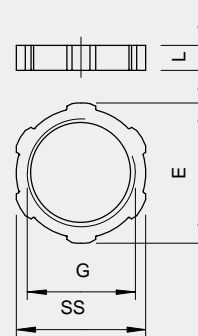
Nom. size G	SS mm	E mm	L mm
Pg 7	19	21	5
Pg 9	22	24	5
Pg 11	24	26	5
Pg 13.5	27	29	6
Pg 16	30	33	6
Pg 21	36	39	7
Pg 29	46	50	7
Pg 36	60	66	8
Pg 42	65	73	8
Pg 48	70	78	8

116: Locknut to DIN 46320, with Pg thread to DIN 40430

**PS** Polystyrene, light grey (RAL 7035)



Type	Thread	Colour	Carton qty	Pack qty	Weight kg/100	Ord. no. PA
116 VDE	Pg 7	l. grey	2000	100	0.093	2048 07 8
116 VDE	Pg 9	l. grey	3000	100	0.169	2048 09 4
116 VDE	Pg 11	l. grey	3000	100	0.184	2048 11 6
116 VDE	Pg 13.5	l. grey	2400	100	0.256	2048 13 2
116 VDE	Pg 16	l. grey	2400	100	0.325	2048 16 7
116 VDE	Pg 21	l. grey	1600	100	0.509	2048 22 1
116 VDE	Pg 29	l. grey	500	50	1.100	2048 29 9
116 VDE	Pg 36	l. grey	250	25	1.683	2048 36 1
116 VDE	Pg 42	l. grey	250	25	1.756	2048 42 6
116 VDE	Pg 48	l. grey	250	25	1.830	2048 48 5

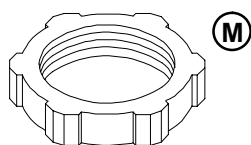


Nom. size G	SS mm	E mm	L mm
Pg 7	19	21	5
Pg 9	22	24	5
Pg 11	24	26	5
Pg 13.5	27	29	6
Pg 16	30	33	6
Pg 21	36	39	7
Pg 29	46	50	7
Pg 36	60	66	8
Pg 42	65	73	8
Pg 48	70	78	8

116 VDE: Locknut to DIN 46320, with Pg thread to DIN 40430

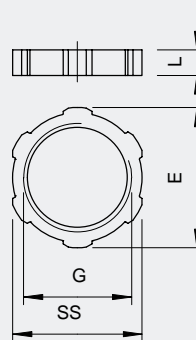
**PA** Polyamide

## Locknuts



Type	Thread	Colour	Car- ton qty	Pac- k qty	Weight kg/100	Ord. no. <b>PS</b>
<b>116/M</b>	M12 x 1.5	l. grey	2000	100	0.100	<b>2049 50 3</b>
<b>116/M</b>	M16 x 1.5	l. grey	2000	100	0.160	<b>2049 51 1</b>
<b>116/M</b>	M20 x 1.5	l. grey	1000	100	0.250	<b>2049 53 8</b>
<b>116/M</b>	M25 x 1.5	l. grey	1000	100	0.350	<b>2049 54 6</b>
<b>116/M</b>	M32 x 1.5	l. grey	500	50	0.610	<b>2049 55 4</b>
<b>116/M</b>	M40 x 1.5	l. grey	250	25	1.683	<b>2049 56 2</b>
<b>116/M</b>	M50 x 1.5	l. grey	250	25	1.756	<b>2049 57 0</b>
<b>116/M</b>	M63 x 1.5	l. grey	250	25	1.830	<b>2049 58 9</b>

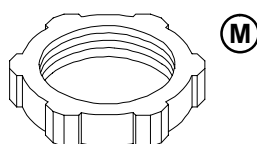
With metric thread to IEC 423



Nom. size G	SS mm	E mm	L mm
M12 x 1.5	17	19	5
M16 x 1.5	22	25	5
M20 x 1.5	26	29	6
M25 x 1.5	32	36	6.5
M32 x 1.5	41	46	7
M40 x 1.5	50	56	7.5
M50 x 1.5	60	68	8
M63 x 1.5	75	83	8.5

**116/M:** Locknut to DIN 46319, with metric thread to IEC 423

**PS** Polystyrene, light grey (RAL 7035)

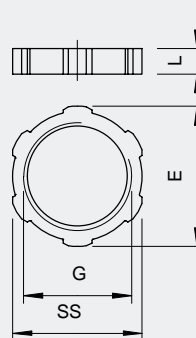


Type	Thread	Colour	Car- ton qty	Pac- k qty	Weight kg/100	Ord. no. <b>PA</b>
<b>116/M VDE</b>	M12 x 1.5	silver-grey	2000	100	0.100	<b>2048 75 2</b>
<b>116/M VDE</b>	M16 x 1.5	silver-grey	2000	100	0.160	<b>2048 76 0</b>
<b>116/M VDE</b>	M20 x 1.5	silver-grey	1000	100	0.250	<b>2048 77 9</b>
<b>116/M VDE</b>	M25 x 1.5	silver-grey	1000	100	0.350	<b>2048 78 7</b>
<b>116/M VDE</b>	M32 x 1.5	silver-grey	500	50	0.610	<b>2048 79 5</b>
<b>116/M VDE</b>	M40 x 1.5	silver-grey	250	25	1.683	<b>2048 80 9</b>
<b>116/M VDE</b>	M50 x 1.5	silver-grey	250	25	1.756	<b>2048 81 7</b>
<b>116/M VDE</b>	M63 x 1.5	silver-grey	250	25	1.830	<b>2048 82 5</b>

Type	Thread	Colour	Car- ton qty	Pac- k qty	Weight kg/100	Ord. no. <b>PA</b>
<b>116/M VDE</b>	M12 x 1.5	l. grey	2000	100	0.100	<b>2048 90 6</b>
<b>116/M VDE</b>	M16 x 1.5	l. grey	2000	100	0.160	<b>2048 91 4</b>
<b>116/M VDE</b>	M20 x 1.5	l. grey	1000	100	0.250	<b>2048 92 2</b>
<b>116/M VDE</b>	M25 x 1.5	l. grey	1000	100	0.350	<b>2048 93 0</b>
<b>116/M VDE</b>	M32 x 1.5	l. grey	500	50	0.610	<b>2048 94 9</b>
<b>116/M VDE</b>	M40 x 1.5	l. grey	250	25	1.683	<b>2048 95 7</b>
<b>116/M VDE</b>	M50 x 1.5	l. grey	250	25	1.756	<b>2048 96 5</b>
<b>116/M VDE</b>	M63 x 1.5	l. grey	250	25	1.830	<b>2048 97 3</b>

Type	Thread	Colour	Car- ton qty	Pac- k qty	Weight kg/100	Ord. no. <b>PA</b>
<b>116/M VDE</b>	M12 x 1.5	black	2000	100	0.100	<b>2049 06 6</b>
<b>116/M VDE</b>	M16 x 1.5	black	2000	100	0.160	<b>2049 07 4</b>
<b>116/M VDE</b>	M20 x 1.5	black	1000	100	0.250	<b>2049 08 2</b>
<b>116/M VDE</b>	M25 x 1.5	black	1000	100	0.350	<b>2049 09 0</b>
<b>116/M VDE</b>	M32 x 1.5	black	500	50	0.610	<b>2049 10 4</b>
<b>116/M VDE</b>	M40 x 1.5	black	250	25	1.683	<b>2049 11 2</b>
<b>116/M VDE</b>	M50 x 1.5	black	250	25	1.756	<b>2049 12 0</b>
<b>116/M VDE</b>	M63 x 1.5	black	250	25	1.830	<b>2049 13 9</b>

With metric thread to IEC 423

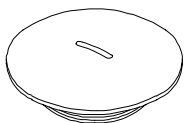


Nom. size G	SS mm	E mm	L mm
M12 x 1.5	17	19	5
M16 x 1.5	22	25	5
M20 x 1.5	26	29	6
M25 x 1.5	32	36	6.5
M32 x 1.5	41	46	7
M40 x 1.5	50	56	7.5
M50 x 1.5	60	68	8
M63 x 1.5	75	83	8.5

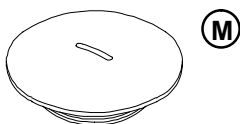
**116/M VDE:** Locknut to DIN 46319, with metric thread to IEC 423

**PA** Polyamide

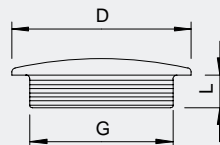
## Screw plugs



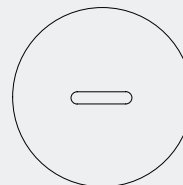
Type	Thread	Colour	Carton qty	Pack qty	Weight kg/100	Ord. no. PS
108	Pg 7	l. grey	2000	100	0.146	2033 07 0
108	Pg 9	l. grey	2000	100	0.161	2033 09 7
108	Pg 11	l. grey	1800	100	0.178	2033 11 9
108	Pg 13.5	l. grey	1200	100	0.209	2033 13 5
108	Pg 16	l. grey	1000	100	0.235	2033 15 1
108	Pg 21	l. grey	1000	100	0.355	2033 21 6
108	Pg 29	l. grey	500	50	0.786	2033 29 1
108	Pg 36	l. grey	200	25	1.280	2033 36 4
108	Pg 42	l. grey	250	25	1.400	2033 42 9
108	Pg 48	l. grey	300	25	1.850	2033 48 8



Type	Thread	Colour	Carton qty	Pack qty	Weight kg/100	Ord. no. PS
108 M	M12 x 1.5	l. grey	3000	100	0.146	2033 00 3
108 M	M16 x 1.5	l. grey	2000	100	0.161	2033 00 7
108 M	M20 x 1.5	l. grey	1200	100	0.209	2033 01 1
108 M	M25 x 1.5	l. grey	1000	100	0.355	2033 01 6
108 M	M32 x 1.5	l. grey	500	50	0.786	2033 02 1
108 M	M40 x 1.5	l. grey	200	25	1.280	2033 02 6
108 M	M50 x 1.5	l. grey	250	25	1.400	2033 03 2
108 M	M63 x 1.5	l. grey	300	25	1.850	2033 03 8



Nom. size G	D mm	L mm
Pg 7	14	6
Pg 9	19	6
Pg 11	22	6
Pg 13.5	25	6.5
Pg 16	27	6.5
Pg 21	34	8
Pg 29	44	8
Pg 36	58	10
Pg 42	67	10
Pg 48	73	12



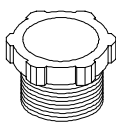
108: Screw plug to DIN 46320, with Pg thread to DIN 40430

Nom. size G	D mm	L mm
M12 x 1.5	15	6
M16 x 1.5	20	6
M20 x 1.5	24	6
M25 x 1.5	30	8
M32 x 1.5	37	8
M40 x 1.5	46	8
M50 x 1.5	56	10
M63 x 1.5	70	12

108 M...: Screw plug to DIN 46320, with metric thread to IEC 423

**PS** Polystyrene, light grey (RAL 7035)

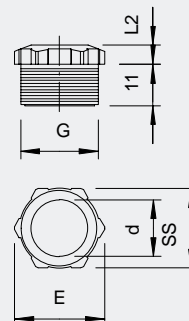
## Threaded bushes



Type	Thread	Colour	Pack qty	Weight kg/100	Ord. no. PS
107/E	Pg 7	l. grey	100	0.115	2025 07 8
107/E	Pg 9	l. grey	100	0.170	2025 09 4
107/E	Pg 11	l. grey	100	0.180	2025 11 6
107/E	Pg 13.5	l. grey	100	0.325	2025 13 2
107/E	Pg 16	l. grey	100	0.404	2025 16 7
107/E	Pg 21	l. grey	50	0.696	2025 21 3
107/E	Pg 29	l. grey	25	1.296	2025 29 9
107/E	Pg 36	l. grey	25	2.508	2025 36 1
107/E	Pg 42	l. grey	10	4.540	2025 42 6
107/E	Pg 48	l. grey	10	5.580	2025 48 5

Type	Thread	Colour	Pack qty	Weight kg/100	Ord. no. PS
107/E	Pg 9	black	100	0.170	2026 09 0
107/E	Pg 11	black	100	0.180	2026 11 2
107/E	Pg 13.5	black	100	0.325	2026 13 9
107/E	Pg 16	black	100	0.404	2026 16 3

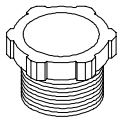
Nom. size G	D mm	L1 mm	L2 mm	SS mm	E mm
Pg 7	7	8.5	5	13	14.7
Pg 9	10.2	9	5	16	18
Pg 11	11.3	10	5	19	21.5
Pg 13.5	13.4	10.5	5	21	23.8
Pg 16	15.8	12	6	23	26
Pg 21	21.2	17	7	30	34
Pg 29	30	18	8	40	45
Pg 36	38.2	17	8	50	56.5
Pg 42	44.5	18.5	9	55	62
Pg 48	50	18.5	9	60	68



107/E: Threaded bush (Part 1) to DIN 46320, Pg thread to DIN 40430

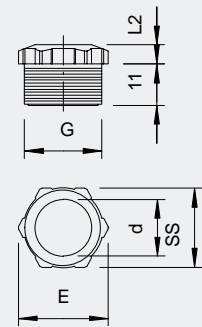
**PS** Polystyrene, light grey (RAL 7035)

## Threaded bushes



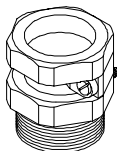
Type	Thread	Colour	Pack qty	Weight kg/100	Ord. no. PA
107/E VDE	Pg 7	l. grey	100	0.158	2025 50 7
107/E VDE	Pg 9	l. grey	100	0.180	2025 51 5
107/E VDE	Pg 11	l. grey	100	0.270	2025 53 1
107/E VDE	Pg 13.5	l. grey	100	0.340	2025 56 6
107/E VDE	Pg 16	l. grey	100	0.450	2025 58 2
107/E VDE	Pg 21	l. grey	50	0.780	2025 60 4
107/E VDE	Pg 29	l. grey	25	1.280	2025 62 0
107/E VDE	Pg 36	l. grey	25	2.830	2025 64 7
107/E VDE	Pg 42	l. grey	10	5.010	2025 66 3
107/E VDE	Pg 48	l. grey	10	6.250	2025 69 8

Nom. size G	D mm	L1 mm	L2 mm	SS mm	E mm
Pg 7	7	8.5	5	13	14.7
Pg 9	10.2	9	5	16	18
Pg 11	11.3	10	5	19	21.5
Pg 13.5	13.4	10.5	5	21	23.8
Pg 16	15.8	12	6	23	26
Pg 21	21.2	17	7	30	34
Pg 29	30	18	8	40	45
Pg 36	38.2	17	8	50	56.5
Pg 42	44.5	18.5	9	55	62
Pg 48	50	18.5	9	60	68



107/E VDE: Threaded bush Part 1 to DIN 46320, glassfibre-reinforced

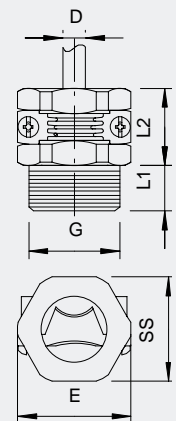
PA Polyamide, light grey (RAL 7035)



Type	Thread	Colour	Pack qty	Weight kg/100	Ord. no. PA
107/Z	Pg 9	l. grey	100	0.400	2023 09 1
107/Z	Pg 11	l. grey	100	0.600	2023 11 3
107/Z	Pg 13.5	l. grey	100	0.680	2023 12 1
107/Z	Pg 16	l. grey	50	0.900	2023 16 4
107/Z	Pg 21	l. grey	25	1.800	2023 21 0
107/Z	Pg 29	l. grey	25	3.000	2023 29 6

With strain relief

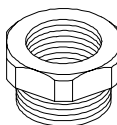
Nom. size G	Clamping range D mm	L1 mm	L2 mm	SS mm	E mm
Pg 9	3.5-11.3	8.5	14.5	19	21
Pg 11	4 -13.3	9	16	21	23
Pg 13.5	4.1-14.3	10	17	23	25
Pg 16	5 -16.2	10	19	25	27
Pg 21	5.9-21.2	12.5	23.5	32	35
Pg 29	7.1-29	16	30	42	45



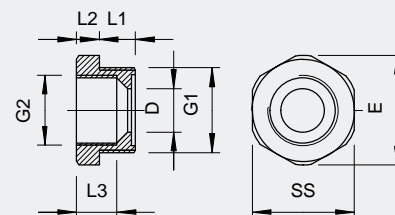
107/Z: Threaded bush with crossbar strain relief  
Screws, steel, electro-galvanised  
Pg thread to DIN 40430

PA Polyamide, light grey (RAL 7035)

## Reducers



Type	Connecting/ internal thread	Colour	Pack qty	Weight kg/100	Ord. no. PA
107/R	Pg 11 / 7	l. grey	50	0.400	2030 70 5
107/R	Pg 13.5/ 9	l. grey	50	0.450	2030 71 3
107/R	Pg 16 / 9	l. grey	50	0.600	2030 74 8
107/R	Pg 16 /11	l. grey	50	0.480	2030 75 6
107/R	Pg 21 /11	l. grey	50	0.910	2030 76 4
107/R	Pg 21 /13.5	l. grey	50	0.800	2030 77 2
107/R	Pg 21 /16	l. grey	50	0.650	2030 78 0
107/R	Pg 29 /16	l. grey	50	1.460	2030 79 9
107/R	Pg 29 /21	l. grey	25	1.500	2030 80 2
107/R	Pg 36 /21	l. grey	25	2.350	2030 82 9
107/R	Pg 36 /29	l. grey	25	2.200	2030 81 0
107/R	Pg 42 /29	l. grey	25	2.350	2030 83 7

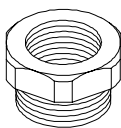


Nom. size	G1 mm	G2 mm	L1 mm	L2 mm	L3 mm	D mm	SS mm	E mm
Pg 11 / 7	Pg 11	Pg 7	8	6	9.5	7.5	22	24
Pg 13.5/ 9	Pg 13.5	Pg 9	8.5	6	9.5	9.5	24	26
Pg 16 / 9	Pg 16	Pg 9	9.5	6	11.5	9.5	27	29
Pg 16 /11	Pg 16	Pg 11	9.5	6	11	11.5	27	29
Pg 21 /11	Pg 21	Pg 11	10.5	5	11	11.5	32	35.5
Pg 21 /13.5	Pg 21	Pg 13.5	10.5	5	11	13.5	32	35.5
Pg 21 /16	Pg 21	Pg 16	10.5	5	11	16.5	32	35.5
Pg 29 /16	Pg 29	Pg 16	12	6	12.5	16.5	40	43
Pg 29 /21	Pg 29	Pg 21	12.5	6	13.5	21.5	39	43
Pg 36 /21	Pg 36	Pg 21	13	6	13.5	21	50	54
Pg 36 /29	Pg 36	Pg 29	18	6	18	28.5	50	54
Pg 42 /29	Pg 42	Pg 29	16	6	17	27.5	55	59

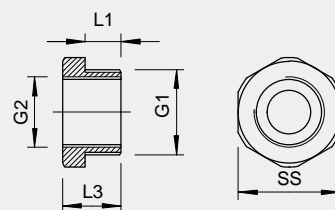
107/R: Reducer  
Pg internal and external thread to DIN 40430

PA Polyamide, light grey (RAL 7035)

## Reducers



Type	Connecting/ internal thread	Colour	Pack qty	Weight kg/100	Ord. no. PA
107/R M	M20/ M12	l. grey	100	0.500	2030 61 6
107/R M	M20/ M16	l. grey	100	0.700	2030 61 9
107/R M	M25/ M12	l. grey	100	0.850	2030 62 4
107/R M	M25/ M16	l. grey	100	0.850	2030 62 6
107/R M	M25/ M20	l. grey	100	0.650	2030 62 8
107/R M	M32/ M12	l. grey	50	1.200	2030 63 2
107/R M	M32/ M16	l. grey	50	1.100	2030 63 4
107/R M	M32/ M20	l. grey	50	1.050	2030 63 7
107/R M	M32/ M25	l. grey	50	1.000	2030 64 0
107/R M	M40/ M16	l. grey	50	2.000	2030 64 3
107/R M	M40/ M20	l. grey	50	1.850	2030 64 6
107/R M	M40/ M25	l. grey	50	1.950	2030 64 9
107/R M	M40/ M32	l. grey	50	1.400	2030 65 2
107/R M	M50/ M20	l. grey	25	2.300	2030 65 5
107/R M	M50/ M25	l. grey	25	2.250	2030 65 9
107/R M	M50/ M32	l. grey	25	2.200	2030 66 1
107/R M	M50/ M40	l. grey	25	2.050	2030 66 4
107/R M	M63/ M25	l. grey	25	3.050	2030 66 7
107/R M	M63/ M32	l. grey	25	3.070	2030 67 0
107/R M	M63/ M40	l. grey	25	3.100	2030 67 3
107/R M	M63/ M50	l. grey	25	3.000	2030 67 5

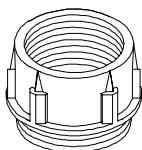


Nom. size	G1 mm	G2 mm	L1 mm	L3 mm	SS mm
M20/ M12	M20 x 1.5	M12 x 1.5	8.0	12.0	24.0
M20/ M16	M20 x 1.5	M16 x 1.5	8.0	12.0	24.0
M25/ M12	M25 x 1.5	M12 x 1.5	8.0	14.0	32.0
M25/ M16	M25 x 1.5	M16 x 1.5	8.0	14.0	32.0
M25/ M20	M25 x 1.5	M20 x 1.5	8.0	14.0	32.0
M32/ M12	M32 x 1.5	M12 x 1.5	10.0	16.0	36.0
M32/ M16	M32 x 1.5	M16 x 1.5	10.0	16.0	36.0
M32/ M20	M32 x 1.5	M20 x 1.5	10.0	16.0	36.0
M32/ M25	M32 x 1.5	M25 x 1.5	10.0	16.0	36.0
M40/ M16	M40 x 1.5	M16 x 1.5	10.0	16.0	46.0
M40/ M20	M40 x 1.5	M20 x 1.5	10.0	16.0	46.0
M40/ M25	M40 x 1.5	M25 x 1.5	10.0	16.0	46.0
M40/ M32	M40 x 1.5	M32 x 1.5	10.0	16.0	46.0
M50/ M20	M50 x 1.5	M20 x 1.5	12.0	18.0	55.0
M50/ M25	M50 x 1.5	M25 x 1.5	12.0	18.0	55.0
M50/ M32	M50 x 1.5	M32 x 1.5	12.0	18.0	55.0
M50/ M40	M50 x 1.5	M40 x 1.5	12.0	18.0	55.0
M63/ M25	M63 x 1.5	M25 x 1.5	12.0	18.0	68.0
M63/ M32	M63 x 1.5	M32 x 1.5	12.0	18.0	68.0
M63/ M40	M63 x 1.5	M40 x 1.5	12.0	18.0	68.0
M63/ M50	M63 x 1.5	M50 x 1.5	12.0	18.0	68.0

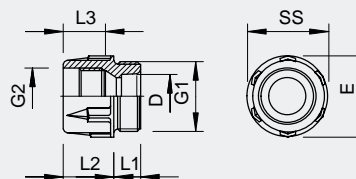
107/R M...: Reducer with metric internal and external thread

PA Polyamide, light grey (RAL 7035)

## Reducing adapters



Type	Connecting/ internal thread	Colour	Pack qty	Weight kg/100	Ord. no. PA
107/RZ	Pg 9 / 7	l. grey	100	0.400	2031 30 2
107/RZ	Pg 11 / 9	l. grey	100	0.380	2031 32 9
107/RZ	Pg 13.5/9	l. grey	100	0.400	2031 33 7
107/RZ	Pg 13.5/11	l. grey	100	0.480	2031 34 5
107/RZ	Pg 16 / 11	l. grey	50	0.560	2031 36 1
107/RZ	Pg 16 / 13.5	l. grey	50	0.620	2031 38 8
107/RZ	Pg 21 / 16	l. grey	50	0.780	2031 41 8
107/RZ	Pg 29 / 21	l. grey	25	1.380	2031 44 2

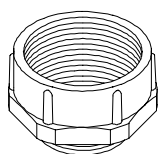


Nom. size	G1 mm	G2 mm	L1 mm	L2 mm	L3 mm	D mm	SS mm	E mm
Pg 9 / 7	Pg 9	Pg 7	7.5	12.5	10	7.5	19	21
Pg 11 / 9	Pg 11	Pg 9	9	14	11.7	10	19	23
Pg 13.5/ 9	Pg 13.5	Pg 9	9	14.5	11.7	12	19	25
Pg 13.5/11	Pg 13.5	Pg 11	9	15	11.8	12	22	25
Pg 16 / 11	Pg 16	Pg 11	11	15.5	11.8	12	22	28
Pg 16 / 13.5	Pg 16	Pg 13.5	11	16.5	12.9	14	24	28
Pg 21 / 16	Pg 21	Pg 16	11	17	13.5	15.5	27	34
Pg 29 / 21	Pg 29	Pg 21	12	21	17.4	21	33	44

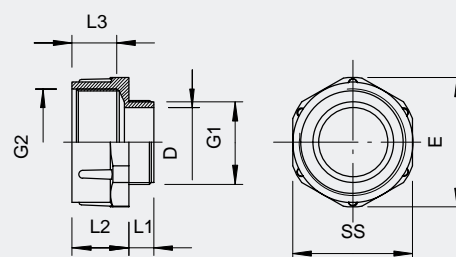
107/RZ: Reducing adapters, Pg internal and external thread to DIN 40430

PA Polyamide, light grey (RAL 7035)

## Enlarging adaptors



Type	Connecting/ internal thread	Colour	Pack qty	Weight kg/100	Ord. no. <b>PA</b>
<b>107/EZ</b>	Pg 9 /11	l. grey	100	0.400	<b>2030 89 6</b>
<b>107/EZ</b>	Pg 11 /13.5	l. grey	100	0.420	<b>2030 93 4</b>
<b>107/EZ</b>	Pg 13.5/16	l. grey	100	0.620	<b>2030 95 0</b>
<b>107/EZ</b>	Pg 16 /21	l. grey	50	0.940	<b>2030 97 7</b>
<b>107/EZ</b>	Pg 21 /29	l. grey	50	1.650	<b>2030 99 3</b>
<b>107/EZ</b>	Pg 29 /36	l. grey	25	2.600	<b>2030 98 5</b>

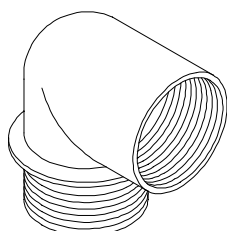


Nom. size	G1	G2	L1	L2	L3	D	SS	E
Pg 9 /11	Pg 9	Pg 11	9	16	11.5	10	22	25
Pg 11 /13.5	Pg 11	Pg 13.5	8	15	12	13.5	24	26
Pg 13.5/16	Pg 13.5	Pg 16	9	16.5	13.5	15	27	29.5
Pg 16 /21	Pg 16	Pg 21	9	20	14.5	16	32	35.5
Pg 21 /29	Pg 21	Pg 29	10	22	16.5	22	42	45.5
Pg 29 /36	Pg 29	Pg 36	11	25	20	30.5	53	57

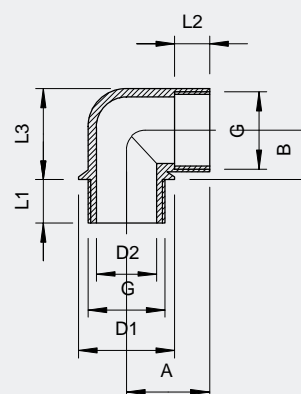
**107/EZ:** Enlarging adaptors, Pg internal and external thread to DIN 40430

**PA** Polyamide, light grey (RAL 7035)

## Elbow 90°



Type	Connec- ting/ internal thread	Colour	Pack qty	Weight kg/100	Ord. no. <b>PA</b>
<b>107/W</b>	Pg 9	l. grey	50	0.390	<b>2029 90 1</b>
<b>107/W</b>	Pg 11	l. grey	50	0.620	<b>2029 92 8</b>
<b>107/W</b>	Pg 13.5	l. grey	50	0.750	<b>2029 93 6</b>
<b>107/W</b>	Pg 16	l. grey	50	0.950	<b>2029 94 4</b>
<b>107/W</b>	Pg 21	l. grey	25	1.470	<b>2029 95 2</b>
<b>107/W</b>	Pg 29	l. grey	25	3.300	<b>2029 96 0</b>

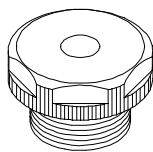
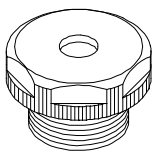


Ext. and int. thread G	A mm	B mm	D1 mm	D2 mm	L1 mm	L2 mm	L3 mm
Pg 9	18.5	10.5	19.5	11.5	11	9	19
Pg 11	20	12	23.5	15	11	9.5	22
Pg 13.5	22	13	25.5	16	11.5	10	24
Pg 16	24	15	27.5	18.5	11.5	11	27
Pg 21	28	18	34	24	13	13	33
Pg 29	35	23.5	44	32	15	14.5	43.5

**107/W:** Elbows, Pg internal and external thread to DIN 40430  
The elbow can be converted into an angled cable gland with two steel compression rings 107/D, a washer 107/A or 107/B and a threaded bush 107/E.

**PA** Polyamide, light grey (RAL 7035)

## Threaded nipples

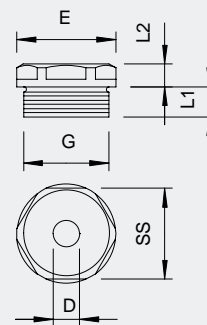


Type	Connecting/ internal thread	Carton qty	Pack qty	Weight kg/100	Ord. no. <b>PE</b>
<b>90</b>	Pg 9	2700	100	0.192	<b>2032 09 0</b>
<b>90</b>	Pg 11	2700	100	0.200	<b>2032 11 2</b>
<b>90</b>	Pg 13.5	1800	100	0.268	<b>2032 13 9</b>
<b>90</b>	Pg 16	1800	100	0.325	<b>2032 16 3</b>
<b>90</b>	Pg 21	500	50	0.513	<b>2032 20 1</b>
<b>90</b>	Pg 29	250	25	0.694	<b>2032 29 5</b>
<b>90</b>	Pg 36	100	10	0.875	<b>2032 36 8</b>

With opening of diameter D

Type	Connecting/ internal thread	Carton qty	Pack qty	Weight kg/100	Ord. no. <b>PE</b>
<b>90</b>	Pg 9	2700	100	0.192	<b>2032 50 3</b>
<b>90</b>	Pg 11	2700	100	0.200	<b>2032 51 1</b>
<b>90</b>	Pg 13.5	1800	100	0.268	<b>2032 53 8</b>
<b>90</b>	Pg 16	1800	100	0.325	<b>2032 54 6</b>
<b>90</b>	Pg 21	500	50	0.513	<b>2032 55 4</b>
<b>90</b>	Pg 29	250	25	0.694	<b>2032 56 2</b>
<b>90</b>	Pg 36	100	10	0.875	<b>2032 57 0</b>

With push-through membrane



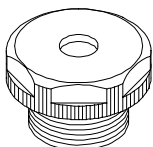
Nom. size G	For cable Ø mm	D mm	SS mm	E mm	L1 mm	L2 mm
Pg 9	5 - 9	4	17	19	9.5	6
Pg 11	6 - 10	5	19	21	9.5	6
Pg 13.5	8 - 13	7	22	24	9.5	6
Pg 16	8 - 13	7	24	26	9.5	6
Pg 21	10 - 16	9	30	33	11.5	6
Pg 29	16 - 23	15	37	40	11.5	6
Pg 36	24 - 29	22	-	56	19	11

**90:** Choke seal to be screwed into Pg thread to DIN 40430  
With self sealing cone at the thread end  
Protection achievable with careful assembly IP 54

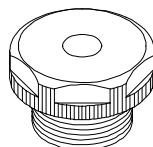
2 Patterns:

- With open cable entry
- With push-through membrane. Here the opening D is pre-embossed, but initially closed.

**PE** Polyethylene, light grey (RAL 7035)



**M**

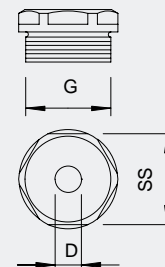


Type	Thread	Carton qty	Pack qty	Weight kg/100	Ord. no. <b>PE</b>
<b>90 M</b>	M12 x 1.5	2700	100	0.170	<b>2032 00 7</b>
<b>90 M</b>	M16 x 1.5	2700	100	0.192	<b>2032 01 1</b>
<b>90 M</b>	M20 x 1.5	1800	100	0.268	<b>2032 01 5</b>
<b>90 M</b>	M25 x 1.5	500	50	0.513	<b>2032 01 9</b>
<b>90 M</b>	M32 x 1.5	250	25	0.694	<b>2032 02 3</b>
<b>90 M</b>	M40 x 1.5	100	10	0.875	<b>2032 03 1</b>

With opening of diameter D

Type	Thread	Carton qty	Pack qty	Weight kg/100	Ord. no. <b>PE</b>
<b>90 M</b>	M12 x 1.5	2700	100	0.170	<b>2032 37 8</b>
<b>90 M</b>	M16 x 1.5	2700	100	0.192	<b>2032 38 0</b>
<b>90 M</b>	M20 x 1.5	1800	100	0.268	<b>2032 38 2</b>
<b>90 M</b>	M25 x 1.5	500	50	0.513	<b>2032 38 4</b>
<b>90 M</b>	M32 x 1.5	250	25	0.694	<b>2032 38 6</b>
<b>90 M</b>	M40 x 1.5	100	10	0.875	<b>2032 38 8</b>

With push-through membrane



Nom. size G	For cable Ø mm	SS mm	D mm
M12 x 1.5	3- 6	13	3, 5
M16 x 1.5	5- 9	16	5
M20 x 1.5	8-13	21	7
M25 x 1.5	10-16	30	8.5
M32 x 1.5	16-23	34	13
M40 x 1.5	24-29	44	16

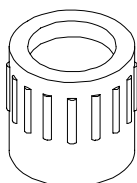
**90 M...:** Choke seal to be screwed into metric thread to IEC 423  
With self sealing cone at the thread end  
Protection achievable with careful assembly IP 54

2 Patterns:

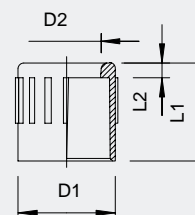
- With open cable entry
- With push-through membrane. Here the opening D is pre-embossed, but initially closed.

**PE** Polyethylene, light grey (RAL 7035)

## End grommets for steel conduit



Type	Nom. size	Colour	Carton qty	Pack qty	Weight kg/100	Ord. no. PE
129	Pg 7	l. grey	1000	100	0.145	2044 07 2
129	Pg 9	l. grey	1000	100	0.235	2044 09 9
129	Pg 11	l. grey	1000	100	0.276	2044 11 0
129	Pg 13.5	l. grey	1200	100	0.326	2044 13 7
129	Pg 16	l. grey	1200	100	0.400	2044 16 1
129	Pg 21	l. grey	600	50	0.614	2044 21 8
129	Pg 29	l. grey	600	50	1.070	2044 29 3
129	Pg 36	l. grey	600	50	1.444	2044 36 6
129	Pg 42	l. grey	600	25	2.176	2044 42 0
129	Pg 48	l. grey	600	25	2.808	2044 47 1

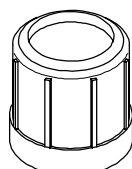


Nom. size	For conduit Ø mm	D1 mm	D2 mm	L1 mm	L2 mm
Pg 7	12.5	15.8	10	17	3.5
Pg 9	15.2	18.3	12	20	4
Pg 11	18.6	21.7	15	22	4
Pg 13.5	20.4	23.5	16	24	4
Pg 16	22.5	25.6	18	26	4
Pg 21	28.3	31.6	24	30	4
Pg 29	37	40.3	32.5	38	4
Pg 36	47	50.8	40	44	4
Pg 42	54	58.2	46	50	4
Pg 48	59.3	63.9	50	56	4

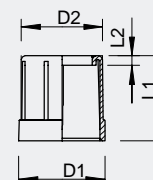
129: cable protection grommet to be fitted to steel conduit to DIN 49020 and medium- and heavy-duty conduits of insulating material to DIN 49016

PE Polyethylene, light grey (RAL 7035), black

Type	Nom. size	Colour	Carton qty	Pack qty	Weight kg/100	Ord. no. PE
129	Pg 7	black	1000	100	0.145	2044 57 9
129	Pg 9	black	1000	100	0.235	2044 59 5
129	Pg 11	black	1000	100	0.276	2044 61 7
129	Pg 13.5	black	1200	100	0.326	2044 63 3
129	Pg 16	black	1200	100	0.400	2044 66 8
129	Pg 21	black	600	50	0.614	2044 71 4
129	Pg 29	black	600	50	1.070	2044 78 1
129	Pg 36	black	600	50	1.444	2044 86 2
129	Pg 42	black	600	25	2.176	2044 92 7
129	Pg 48	black	600	25	2.808	2044 98 6



Type	Nom. size	Colour	Carton qty	Pack qty	Weight kg/100	Ord. no. PE
129 M	M12	l. grey	1000	100	0.145	2047 80 2
129 M	M16	l. grey	1000	100	0.235	2047 81 0
129 M	M20	l. grey	1200	100	0.326	2047 82 9
129 M	M25	l. grey	600	50	0.614	2047 83 7
129 M	M32	l. grey	600	50	1.070	2047 85 3
129 M	M40	l. grey	600	50	1.444	2047 86 1
129 M	M50	l. grey	600	25	2.176	2047 88 8
129 M	M63	l. grey	600	25	2.808	2047 89 6



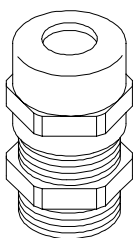
Nom. size	For conduit Ø mm	D1 mm	D2 mm	L1 mm	L2 mm
M12	12	15.4	9.5	15	2
M16	16	19.4	12.5	18	2
M20	20	23.4	16	22.5	2.5
M25	25	28.4	21	27.5	2.5
M32	32	35.4	27.5	34	3
M40	40	43.4	35	41	3
M50	50	53.4	44.5	48	3
M63	63	66.4	55	59	4

129 M...: cable protection grommet to be fitted to electrical installation conduit to DIN EN 60423 or IEC 423 and other pipes/conduit with the same outside diameters

PE Polyethylene, light grey (RAL 7035), black

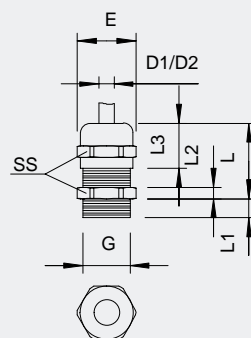
Type	Nom. size	Colour	Carton qty	Pack qty	Weight kg/100	Ord. no. PE
129 M	M12	black	1000	100	0.145	2047 92 6
129 M	M16	black	1000	100	0.235	2047 93 4
129 M	M20	black	1200	100	0.326	2047 94 2
129 M	M25	black	600	50	0.614	2047 95 0
129 M	M32	black	600	50	1.070	2047 96 9
129 M	M40	black	600	50	1.444	2047 97 7
129 M	M50	black	600	25	2.176	2047 98 5
129 M	M63	black	600	25	2.808	2047 99 3

## Brass cable glands



Type	Thread	Colour	Pack qty	Weight kg/100	Ord. no. Ms
V-TEC MS	Pg 7	nickel-plated	50	1.000	2085 60 7
V-TEC MS	Pg 9	nickel-plated	50	1.600	2085 61 5
V-TEC MS	Pg 11	nickel-plated	50	2.300	2085 62 3
V-TEC MS	Pg 13.5	nickel-plated	50	2.800	2085 63 1
V-TEC MS	Pg 16	nickel-plated	25	3.400	2085 65 8
V-TEC MS	Pg 21	nickel-plated	25	6.000	2085 66 6
V-TEC MS	Pg 29	nickel-plated	20	13.000	2085 67 4
V-TEC MS	Pg 36	nickel-plated	10	21.400	2085 68 2
V-TEC MS	Pg 42	nickel-plated	5	29.200	2085 69 0
V-TEC MS	Pg 48	nickel-plated	5	36.600	2085 70 4

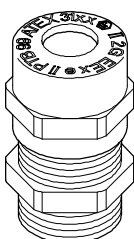
\*Prices to DEL quotation; see Notes on Materials



Nom. size G	Sealing range D1 mm	Strain rel. and twist prot. D2 mm	Hexagon SS mm	Hexagon E mm	L max. ca mm	L1 V-TEC mm	L2 mm	L3 mm
Pg 7	2.5- 6.5	3 - 6.5	14	15.5	20	5	3	12
Pg 9	2.5- 8	3.5- 8	17	18.9	22	6	3	14
Pg 11	3.5-10	4.5-10	20	22.2	24	6	3	15
Pg 13.5	5 -12	6 -12	22	24.4	25	6.5	3.5	16
Pg 16	7 -14	7 -14	24	26.7	27	6.5	4	17
Pg 21	9 -18	12 -18	30	33.5	33	7	4.5	20
Pg 29	14 -25	17 -25	40	43.5	39	8	5	23.5
Pg 36	18 -32	20 -32	50	54	49	9	5.5	29
Pg 42	24 -38	26 -38	57	61	52	10	6	31
Pg 48	30 -44	30 -44	64	69	52.5	10	6.5	31

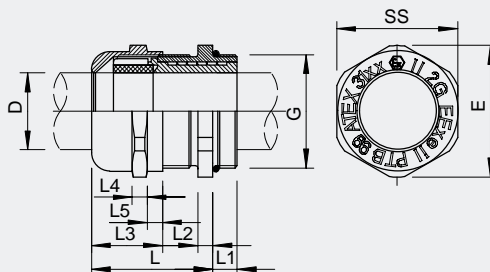
**V-TEC MS:** cap-nut cable gland with wide sealing range and with strain relief and twist protection for high sealing demands, with Pg connecting thread to DIN 40430. Terminal insert of polyamide, gasket of chloroprene/nitrile rubber, with pre-fitted O-ring on the connecting thread  
Protection IP 68 at 5 bar, tested to VDE 0619  
Connecting thread "normal" with reference to DIN 46320

**Ms** Brass, nickel-plated



Type	Thread	Colour	Pack qty	Weight kg/100	Ord. no. Ms
V-TEC EX MS	Pg 7	nickel-plated	50	1.130	2086 50 6
V-TEC EX MS	Pg 9	nickel-plated	50	1.740	2086 51 4
V-TEC EX MS	Pg 11	nickel-plated	50	2.550	2086 52 2
V-TEC EX MS	Pg 13.5	nickel-plated	50	3.030	2086 53 0
V-TEC EX MS	Pg 16	nickel-plated	25	3.660	2086 54 9
V-TEC EX MS	Pg 21	nickel-plated	25	6.580	2086 55 7
V-TEC EX MS	Pg 29	nickel-plated	20	13.660	2086 56 5
V-TEC EX MS	Pg 36	nickel-plated	10	22.700	2086 57 3
V-TEC EX MS	Pg 42	nickel-plated	5	31.000	2086 58 1
V-TEC EX MS	Pg 48	nickel-plated	5	37.900	2086 60 3

\*Prices to DEL quotation; see Notes on Materials



Nom. size G	can be used for cable diameter of mm	Hexagon SS mm	Hexagon E mm	Lmax . ca mm	L1 mm	L2 mm	L3 mm
Pg 7	3.5- 6.5	14	15.5	20	5	3	12
Pg 9	5 - 8	17	18.9	22	6	3	14
Pg 11	4.5-10	20	22.2	24	6	3	15
Pg 13.5	6.5-12	22	24.4	25	6, 5	3.5	16
Pg 16	7 -14	24	26.7	27	6, 5	4	17
Pg 21	12 -18	30	33.5	33	7	4.5	20
Pg 29	17 -25	40	43.5	39	8	5	23.5
Pg 36	20 -32	50	54	49	9	5.5	29
Pg 42	24 -38	57	61	52	10	6	31
Pg 48	30 -44	64	69	52.5	10	6.5	31

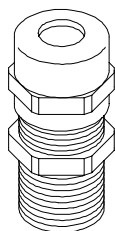
**V-TEC EX MS:** cable gland with EC design type approval certificate for devices and protection systems for use in accordance with the regulations in explosion-hazard area - Directive 94/9/EC

**EC design type approval certificate number:**  
**PTB 99 ATEX 3111X**

cap-nut cable gland with wide sealing range and with strain relief and twist protection for high sealing demands, with long Pg connecting thread to DIN 40430 for thicker walls in combination with locknut  
Terminal insert of polyamide, gasket of chloroprene/nitrile rubber  
O-ring pre-fitted to the connecting thread  
Protection IP 68 at 5 bar 1 h. Tested to VDE 0619

**Ms** Brass, nickel-plated

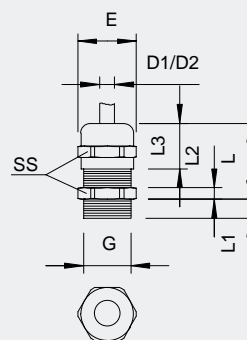
## Brass cable glands



Type	Thread	Colour	Pack qty	Weight kg/100	Ord. no. Ms
V-TEC LMS	Pg 7	nickel-plated	50	1.130	<b>2085 72 0</b>
V-TEC LMS	Pg 9	nickel-plated	50	1.740	<b>2085 73 9</b>
V-TEC LMS	Pg 11	nickel-plated	50	2.550	<b>2085 74 7</b>
V-TEC LMS	Pg 13.5	nickel-plated	50	3.030	<b>2085 75 5</b>
V-TEC LMS	Pg 16	nickel-plated	50	3.660	<b>2085 76 3</b>
V-TEC LMS	Pg 21	nickel-plated	25	6.580	<b>2085 77 1</b>
V-TEC LMS	Pg 29	nickel-plated	20	13.660	<b>2085 79 8</b>
V-TEC LMS	Pg 36	nickel-plated	10	22.700	<b>2085 80 1</b>
V-TEC LMS	Pg 42	nickel-plated	5	31.000	<b>2085 82 8</b>
V-TEC LMS	Pg 48	nickel-plated	5	37.900	<b>2085 83 6</b>

With long connecting thread

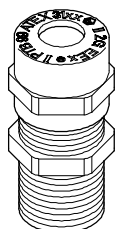
\*Prices to DEL quotation; see Notes on Materials



Nom. size G	Sealing range D1 mm	Strain relief and twist protection D2 mm	Hexagon SS mm	E mm	Lmax. ca mm	L1 V-TEC LMS mm	L2 mm	L3 mm
Pg 7	2.5- 6.5	3 - 6.5	14	15.5	20	10	3	12
Pg 9	2.5- 8	3.5- 8	17	18.9	22	10	3	14
Pg 11	3.5-10	4.5-10	20	22.2	24	10	3	15
Pg 13.5	5 -12	6 -12	22	24.4	25	10	3.5	16
Pg 16	7 -14	7 -14	24	26.7	27	10	4	17
Pg 21	9 -18	12 -18	30	33.5	33	12	4.5	20
Pg 29	14 -25	17 -25	40	43.5	39	12	5	23.5
Pg 36	18 -32	20 -32	50	54	49	15	5.5	29
Pg 42	24 -38	26 -38	57	61	52	15	6	31
Pg 48	30 -44	30 -44	64	69	52.5	15	6.5	31

**V-TEC LMS:** cap-nut cable gland with wide sealing range and with strain relief and twist protection for high sealing demands, with long Pg connecting thread to DIN 40430 for thicker walls in combination with locknut Terminal insert of polyamide, gasket of chloroprene/nitrile rubber O-ring pre-fitted to the connecting thread Protection IP 68 at 5 bar 1 h. Tested to VDE 0619

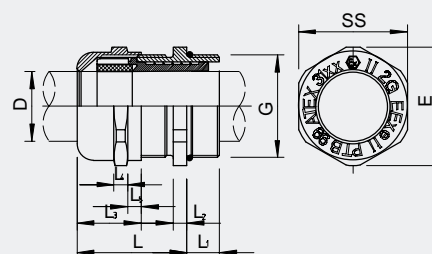
**Ms** Brass, nickel-plated



Type	Thread	Colour	Pack qty	Weight kg/100	Ord. no. Ms
V-TEC EX LMS	Pg 7	nickel-plated	50	1.130	<b>2086 64 6</b>
V-TEC EX LMS	Pg 9	nickel-plated	50	1.740	<b>2086 65 4</b>
V-TEC EX LMS	Pg 11	nickel-plated	50	2.550	<b>2086 66 2</b>
V-TEC EX LMS	Pg 13.5	nickel-plated	50	3.030	<b>2086 67 0</b>
V-TEC EX LMS	Pg 16	nickel-plated	50	3.660	<b>2086 68 9</b>
V-TEC EX LMS	Pg 21	nickel-plated	25	6.580	<b>2086 69 7</b>
V-TEC EX LMS	Pg 29	nickel-plated	20	13.660	<b>2086 70 0</b>
V-TEC EX LMS	Pg 36	nickel-plated	10	22.700	<b>2086 71 9</b>
V-TEC EX LMS	Pg 42	nickel-plated	5	31.000	<b>2086 72 7</b>
V-TEC EX LMS	Pg 48	nickel-plated	5	37.900	<b>2086 73 5</b>

With long connecting thread

\*Prices to DEL quotation; see Notes on Materials



Nom. size G	can be used for cable diameter of mm	Hexagon SS mm	E mm	Lmax. ca mm	L1 V-TEC LMS mm	L2 mm	L3 mm
Pg 7	3.5- 6.5	14	15.5	20	10	3	12
Pg 9	5 - 8	17	18.9	22	10	3	14
Pg 11	4.5-10	20	22.2	24	10	3	15
Pg 13.5	6.5-12	22	24.4	25	10	3.5	16
Pg 16	7 -14	24	26.7	27	10	4	17
Pg 21	12 -18	30	33.5	33	12	4.5	20
Pg 29	17 -25	40	43.5	39	12	5	23.5
Pg 36	20 -32	50	54	49	15	5.5	29
Pg 42	24 -38	57	61	52	15	6	31
Pg 48	30 -44	64	69	52.5	15	6.5	31

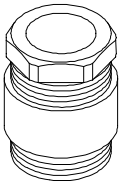
**V-TEC EX LMS:** cable gland with EC design type approval certificate for devices and protection systems for use in accordance with the regulations in explosion-hazard area - Directive 94/9/EC

**EC design type approval certificate number:**  
**PTB 99 ATEX 3111X**

cap-nut cable gland with wide sealing range and with strain relief and twist protection for high sealing demands, with long Pg connecting thread to DIN 40430 for thicker walls in combination with locknut Terminal insert of polyamide, gasket of chloroprene/nitrile rubber O-ring pre-fitted to the connecting thread Protection IP 68 at 5 bar 1 h. Tested to VDE 0619

**Ms** Brass, nickel-plated

## Brass cable glands

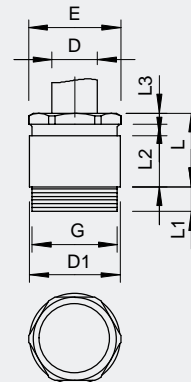


Type	Thread	Colour	Carton qty	Pack qty	Weight kg/100	Ord. no. Ms
160/MS	Pg 7	nickel-plated	1600	50	0.767	2080 07 9
160/MS	Pg 9	nickel-plated	1500	50	1.274	2080 09 5
160/MS	Pg 11	nickel-plated	600	25	1.818	2080 11 7
160/MS	Pg 13.5	nickel-plated	600	50	2.244	2080 13 3
160/MS	Pg 16	nickel-plated	450	25	2.852	2080 16 8
160/MS	Pg 21	nickel-plated	250	25	4.320	2080 21 4
160/MS	Pg 29	nickel-plated	200	10	7.610	2080 28 1
160/MS	Pg 36	nickel-plated	120	10	14.400	2080 36 2
160/MS	Pg 42	nickel-plated	45	5	20.100	2080 42 7
160/MS	Pg 48	nickel-plated	45	5	28.650	2080 48 6

\*Prices to DEL quotation; see Notes on Materials

### Accessories available:

Thread entry seals	170 (Flat)	see page 76
	171 (O-ring)	see page 77



Nom. size G	Sealing range D Type 160/MS mm	SS mm	E ca mm	D1 mm	L max. mm	L1 mm	L2 mm	L3 mm
Pg 7	5- 7	13	14.3	14	15	5	10	2.5
Pg 9	6- 8	15	16.6	17	16	6	10.5	2.5
Pg 11	8-10	18	20	20	17	6	11	3
Pg 13.5	8-10	20	22.2	22	18	6.5	12.5	3
Pg 16	8-10	22	24.4	24	19	6.5	13.5	3
Pg 21	17-19	28	31.2	30	22	7	15	3.5
Pg 29	24-26	37	41	39	24	8	16.5	4
Pg 36	31-33	47	50.5	50	29	9	19.5	4.5
Pg 42	37-39	54	59	57	33	10	22	6
Pg 48	43-45	60	65	64	34	10	23	6

**160/MS:** cable gland with round intermediate socket, Form C 5 to DIN 46320

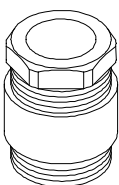
With Pg connecting thread to DIN 40430

Compression rings of steel, electro-galvanised and yellow-chromated seal of NR/SBR

Degree of protection: with seal IP65, without IP54

With single gasket, with small nominal diameter

**Ms** Brass, nickel-plated



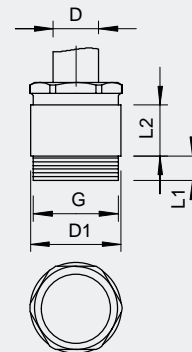
(M)

Type	Thread	Colour	Carton qty	Pack qty	Weight kg/100	Ord. no. Ms
160/MS M	M12	nickel-plated	800	50	1.058	2079 80 1
160/MS M	M16	nickel-plated	750	50	1.814	2079 82 8
160/MS M	M20	nickel-plated	600	50	2.526	2079 83 6
160/MS M	M25	nickel-plated	350	25	3.388	2079 84 4
160/MS M	M32	nickel-plated	400	25	5.004	2079 85 2
160/MS M	M40	nickel-plated	100	10	8.720	2079 86 0
160/MS M	M50	nickel-plated	60	10	15.800	2079 87 9
160/MS M	M63	nickel-plated	50	5	21.600	2079 88 7

\*Prices to DEL quotation; see Notes on Materials

### Accessories available:

Thread entry seals	170M (Flat)	see page 76
	171M (O-ring)	see page 77



Nom. size G	Sealing range D Type 160/MS M mm	D1 mm	L1 mm	L2 mm
M12	5- 7	14	7	10
M16	6- 8	17	7	10.5
M20	8-10	22	7	12.5
M25	8-10	26	8	13.5
M32	17-19	34	8.5	15
M40	24-26	41	8.5	16.5
M50	31-33	54	9.5	19.5
M63	37-39	64	10.5	16.5

**160/MS M:** cable gland with round intermediate socket, Form C 5 to DIN 46320

With metric connecting thread to DIN EN 60423 or ISO 68

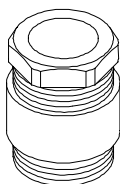
Compression rings of steel, electro-galvanised and yellow-chromated seal of NR/SBR

Degree of protection: with seal IP65, without IP54

With single gasket, with small nominal diameter

**Ms** Brass, nickel-plated

## Brass cable glands



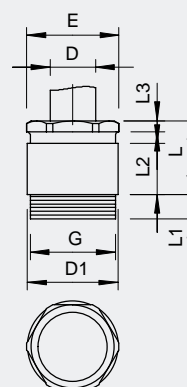
Type	Thread	Colour	Carton qty	Pack qty	Weight kg/100	Ord. no. Ms
160/GMS	Pg 9	nickel-plated	800	50	1.060	2080 70 2
160/GMS	Pg 11	nickel-plated	500	25	1.690	2080 72 9
160/GMS	Pg 13.5	nickel-plated	600	50	2.350	2080 74 5
160/GMS	Pg 16	nickel-plated	400	25	2.700	2080 76 1
160/GMS	Pg 21	nickel-plated	300	25	4.560	2080 79 6
160/GMS	Pg 29	nickel-plated	120	10	7.800	2080 82 6

With large gasket

\*Prices to DEL quotation; see Notes on Materials

### Accessories available:

Thread entry seals	170 (Flat)	see page 76
	171 (O-ring)	see page 77



Nom. size G	Sealing range D Type 160/GMS mm	SS mm	E ca mm	D1 mm	L max mm	L1 mm	L2 mm	L3 mm
Pg 7	—	13	14.3	14	15	5	10	2.5
Pg 9	8 - 9.5	15	16.6	17	16	6	10.5	2.5
Pg 11	10 -11.5	18	20	20	17	6	11	3
Pg 13.5	11 -13	20	22.2	22	18	6.5	12.5	3
Pg 16	13 -15	22	24.4	24	19	6.5	13.5	3
Pg 21	19.5-20.5	28	31.2	30	22	7	15	3.5
Pg 29	28 -29.5	37	41	39	24	8	16.5	4

**160/GMS:** cable gland with round intermediate socket, Form C 5 to DIN 46320

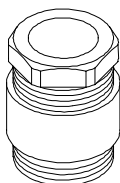
With Pg connecting thread to DIN 40430

Compression rings of steel, electro-galvanised and yellow-chromated seal of NR/SBR

Degree of protection: with seal IP65, without IP54

With single gasket, with large internal diameter

**Ms** Brass, nickel-plated



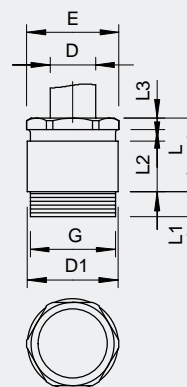
Type	Thread	Colour	Carton qty	Pack qty	Weight kg/100	Ord. no. Ms
161/MS	Pg 11	nickel-plated	800	50	1.915	2080 50 8
161/MS	Pg 13.5	nickel-plated	600	50	2.584	2080 52 4
161/MS	Pg 16	nickel-plated	500	25	3.013	2080 54 0
161/MS	Pg 21	nickel-plated	350	25	5.154	2080 56 7
161/MS	Pg 29	nickel-plated	150	10	8.963	2080 58 3
161/MS	Pg 36	nickel-plated	150	10	16.238	2080 60 5

With cutting ring

\*Prices to DEL quotation; see Notes on Materials

### Accessories available:

Thread entry seals	170 (Flat)	see page 76
	171 (O-ring)	see page 77



Nom. size G	Sealing range D Type 161MS mm	SS mm	E ca mm	D1 mm	L max mm	L1 mm	L2 mm	L3 mm
Pg 11	7.5-11.5	18	20	20	17	6	11	3
Pg 13.5	7.5-13.5	20	22.2	22	18	6.5	12.5	3
Pg 16	7.5-15.5	22	24.4	24	19	6.5	13.5	3
Pg 21	10 -20.5	28	31.2	30	22	7	15	3.5
Pg 29	18 -29	37	41	39	24	8	16.5	4
Pg 36	24 -37	47	50.5	50	29	9	19.5	4.5

**161/MS:** cable gland with round intermediate socket, Form C 5 to DIN 46320

With Pg connecting thread to DIN 40430

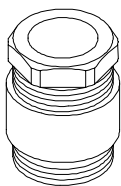
Compression rings of steel, electro-galvanised and yellow-chromated seal of NR/SBR

Degree of protection: with seal IP65, without IP54

With cutting ring

**Ms** Brass, nickel-plated

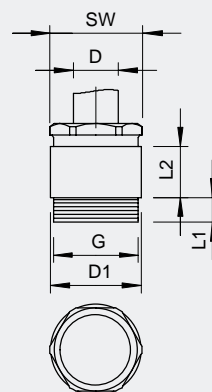
## Brass cable glands



(M)

Type	Colour	Carton qty	Pack qty	Weight kg/100 qty	Ord. no. Ms
161/MS M16x1,5	nickel-plated	750	50	1,814	2079 90 5
161/MS M20x1,5	nickel-plated	600	50	2,526	2079 90 9
161/MS M25x1,5	nickel-plated	350	25	3,388	2079 91 3
161/MS M32x1,5	nickel-plated	400	25	5,004	2079 91 7
161/MS M40x1,5	nickel-plated	100	10	8,720	2079 92 1
161/MS M50x1,5	nickel-plated	60	10	15,800	2079 92 5
161/MS M63x1,5	nickel-plated	50	5	21,600	2079 92 9

With cutting ring



Nom. size G	Sealing range D Type 161/MS M	D1 mm	L1 mm	L2 mm	SW mm
M16x1,5	5 - 9,5	17	7	17	15
M20x1,5	7,5 - 13,5	22	7	19	20
M25x1,5	7,5 - 15,5	26	8	20	22
M32x1,5	10 - 20,5	34	8,5	23,5	28
M40x1,5	18 - 29	41	8,5	25,5	37
M50x1,5	24 - 37	54	9,5	31	47
M63x1,5	30 - 42	64	10,5	35	54

**160/MS M:** cable gland with round intermediate socket, Form C 5 to DIN 46320

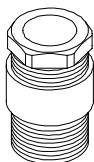
With metric connecting thread to DIN 40430

Compression rings of steel, electro-galvanised and yellow-chromated seal of NR/SBR

Degree of protection: with seal IP65, without IP54

With cutting ring

**Ms** Brass, nickel-plated



Type	Thread	Colour	Carton qty	Pack qty	Weight kg/100	Ord. no. Ms
160/LMS	Pg 7	nickel-plated	900	50	1.058	2081 07 5
160/LMS	Pg 9	nickel-plated	1200	50	1.814	2081 09 1
160/LMS	Pg 11	nickel-plated	500	50	2.204	2081 11 3
160/LMS	Pg 13,5	nickel-plated	500	50	2.526	2081 14 8
160/LMS	Pg 16	nickel-plated	300	20	3.388	2081 16 4
160/LMS	Pg 21	nickel-plated	250	20	5.004	2081 21 0
160/LMS	Pg 29	nickel-plated	200	20	8.720	2081 29 6
160/LMS	Pg 36	nickel-plated	80	10	15.800	2081 36 9
160/LMS	Pg 42	nickel-plated	50	5	21.660	2081 42 3
160/LMS	Pg 48	nickel-plated	40	5	31.540	2081 48 2

With long connecting thread

\*Prices to DEL quotation; see Notes on Materials

**Accessories available:**

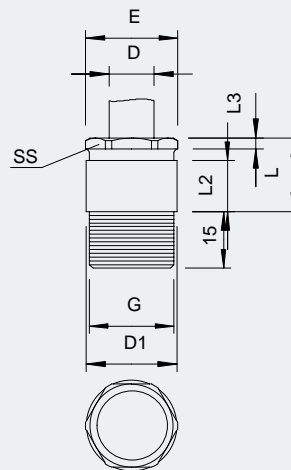
Thread entry seals

170 (Flat)

171 (O-ring)

see page 76

see page 77



Nom. size G	Sealing range D mm	SS mm	E ca mm	D1 mm	L max. mm	L2 mm	L3 mm
Pg 7	5- 7	13	14.3	14	15	10	2.5
Pg 9	6- 8	15	16.6	17	16	10.5	2.5
Pg 11	8-10	18	20	20	17	11	3
Pg 13.5	8-10	20	22.2	22	18	12.5	3
Pg 16	8-10	22	24.4	24	19	13.5	3
Pg 21	17-19	28	31.2	30	22	15	3.5
Pg 29	24-26	37	41	39	24	16.5	4
Pg 36	31-33	47	50.5	50	29	19.5	4.5
Pg 42	37-39	54	59	57	33	22	6
Pg 48	43-45	60	65	64	34	23	6

**160/LMS:** Cable gland with round intermediate socket, Form C 5 to DIN 46320

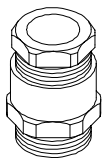
With 15 mm long Pg connecting thread to DIN 40430

Compression rings of steel, electro-galvanised and yellow-chromated Seal of NR/SBR

Degree of protection: with seal IP65, without IP54

**Ms** Brass, nickel-plated

## Brass cable glands

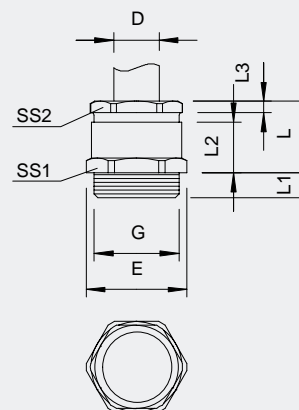


Type	Thread	Colour	Car- ton qty	Pack qty	Weight kg/100	Ord. no. <b>Ms</b>
163/MS	Pg 7	nickel-plated	1600	50	0.850	2082 07 1
163/MS	Pg 9	nickel-plated	1500	50	1.158	2082 09 8
163/MS	Pg 11	nickel-plated	500	25	1.692	2082 10 1
163/MS	Pg 13.5	nickel-plated	450	25	2.206	2082 13 6
163/MS	Pg 16	nickel-plated	450	25	2.960	2082 16 0
163/MS	Pg 21	nickel-plated	250	25	4.548	2082 21 7
163/MS	Pg 29	nickel-plated	200	10	8.210	2082 29 2
163/MS	Pg 36	nickel-plated	120	10	14.230	2082 36 5
163/MS	Pg 42	nickel-plated	50	5	20.540	2082 41 1
163/MS	Pg 48	nickel-plated	50	5	30.050	2082 48 9

\*Prices to DEL quotation; see Notes on Materials

### Accessories available:

Thread entry seals	170 (Flat)	see page 76
	171 (O-ring)	see page 77



Nom. size G	Sealing range D Type 163/MS mm	SS1 mm	SS2 mm	E ca mm	L max. mm	L1 mm	L2 mm	L3 mm
Pg 7	5- 7	14	13	15.5	15	5	10	2.5
Pg 9	6- 8	17	15	18.9	16	6	10.5	2.5
Pg 11	8-10	20	18	22.2	17	6	11	3
Pg 13.5	8-10	22	20	24.4	18	6.5	12.5	3
Pg 16	8-10	24	22	26.7	19	6.5	13.5	3
Pg 21	17-19	30	28	33.5	22	7	15	3.5
Pg 29	24-26	40	37	43.5	24	8	16.5	4
Pg 36	31-33	50	47	54	29	9	19.5	4.5
Pg 42	37-39	57	54	61	33	10	22	6
Pg 48	43-45	64	60	69	34	10	23	6

**163/MS:** Cable gland with hexagon intermediate socket, Form C4 to DIN 46320

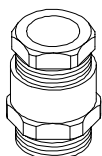
With Pg connecting thread to DIN 40430

Compression rings of steel, electro-galvanised and yellow-chromated  
Seal of NR/SBR

Degree of protection: with seal IP65, without IP54

With single gasket, with small internal diameter

**Ms** Brass, nickel-plated

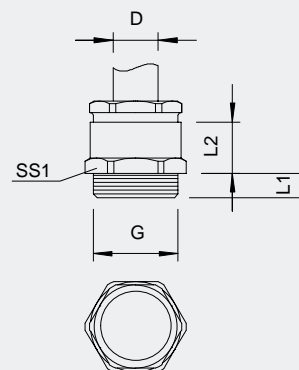


Type	Thread	Colour	Carton qty	Pack qty	Weight kg/100	Ord. no. <b>Ms</b>
163/MS M	M12	nickel-plated	2000	50	0.850	2083 61 2
163/MS M	M16	nickel-plated	800	50	1.158	2083 62 0
163/MS M	M20	nickel-plated	500	50	2.206	2083 63 9
163/MS M	M25	nickel-plated	350	25	4.548	2083 64 7
163/MS M	M32	nickel-plated	200	10	8.210	2083 65 5
163/MS M	M40	nickel-plated	100	10	14.230	2083 66 3
163/MS M	M50	nickel-plated	50	5	20.540	2083 67 1
163/MS M	M63	nickel-plated	50	5	30.050	2083 69 8

\*Prices to DEL quotation; see Notes on Materials

### Accessories available:

Thread entry seals	170 (Flat)	see page 76
	171 (O-ring)	see page 77



Nom. size G	Sealing range D Type 163/MS M mm	SS1 mm	L1 mm	L2 mm
M12	5- 7	14	7	10
M16	6- 8	17	7	10.5
M20	8-10	22	7	12.5
M25	17-19	32	8	15
M32	24-26	40	8.5	16.5
M40	31-33	50	8.5	19.5
M50	37-39	58	9.5	22
M63	43-50	64	10.5	23

**163/MS M:** Cable gland with hexagon intermediate socket, Form C4 to DIN 46320

With metric connecting thread to DIN EN 60423 or ISO 68

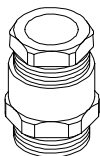
Compression rings of steel, electro-galvanised and yellow-chromated  
Seal of NR/SBR

Degree of protection: with seal IP65, without IP54

With single gasket, with small internal diameter

**Ms** Brass, nickel-plated

## Brass cable glands



Type	Thread	Colour	Car-ton qty	Pack qty	Weight kg/100	Ord. no. Ms
163/GMS	Pg 9	nickel-plated	800	50	1.250	2082 70 5
163/GMS	Pg 11	nickel-plated	500	25	1.710	2082 71 3
163/GMS	Pg 13.5	nickel-plated	500	25	2.400	2082 72 1
163/GMS	Pg 16	nickel-plated	500	25	2.880	2082 74 8
163/GMS	Pg 21	nickel-plated	250	25	4.650	2082 75 6
163/GMS	Pg 29	nickel-plated	240	10	8.100	2082 76 4

With single seal

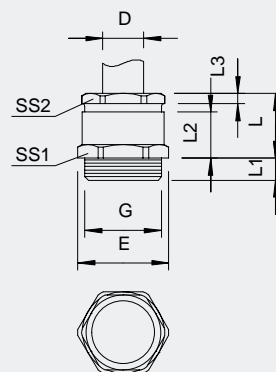
\*Prices to DEL quotation; see Notes on Materials

**Accessories available:**

Thread entry seals

170 (Flat)  
171 (O-ring)

see page 76  
see page 77



Nom. size G	Sealing range D Type 163/GMS mm	SS1 mm	SS2 mm	E ca mm	L max. mm	L1 mm	L2 mm	L3 mm
Pg 9	8 - 9.5	17	15	18.9	16	6	10.5	2.5
Pg 11	10 -11.5	20	18	22.2	17	6	11	3
Pg 13.5	11 -13	22	20	24.4	18	6.5	12.5	3
Pg 16	13 -15	24	22	26.7	19	6.5	13.5	3
Pg 21	19.5 -20.5	30	28	33.5	22	7	15	3.5
Pg 29	28 -29.5	40	37	43.5	24	8	16.5	4

**163/GMS:** Cable gland with hexagon intermediate socket, Form C4 to DIN 46320

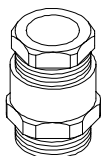
With Pg connecting thread to DIN 40430

Compression rings of steel, electro-galvanised and yellow-chromated  
Seal of NR/SBR

Degree of protection:with seal IP65, without IP54

With single gasket, with large internal diameter

**Ms** Brass, nickel-plated



Type	Thread	Colour	Car-ton qty	Pack qty	Weight kg/100	Ord. no. Ms
162/MS	Pg 9	nickel-plated	1500	50	1.250	2082 51 9
162/MS	Pg 11	nickel-plated	600	50	1.965	2082 50 0
162/MS	Pg 13.5	nickel-plated	600	50	2.634	2082 52 7
162/MS	Pg 16	nickel-plated	450	25	3.193	2082 54 3
162/MS	Pg 21	nickel-plated	250	25	5.244	2082 57 8
162/MS	Pg 29	nickel-plated	200	10	9.263	2082 59 4
162/MS	Pg 36	nickel-plated	80	10	16.488	2082 61 6

With cutting ring

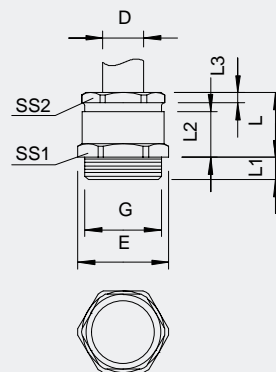
\*Prices to DEL quotation; see Notes on Materials

**Accessories available:**

Thread entry seals

170 (Flat)  
171 (O-ring)

see page 76  
see page 77



Nom. size G	Sealing range D Type 162/MS mm	SS1 mm	SS2 mm	E ca mm	L max. mm	L1 mm	L2 mm	L3 mm
Pg 9	5 - 9.5	17	15	18.9	16	6	10.5	2.5
Pg 11	7.5-11.5	20	18	22.2	17	6	11	3
Pg 13.5	7.5-13.5	22	20	24.4	18	6.5	12.5	3
Pg 16	7.5-15.5	24	22	26.7	19	6.5	13.5	3
Pg 21	10 -20.5	30	28	33.5	22	7	15	3.5
Pg 29	18 -29	40	37	43.5	24	8	16.5	4
Pg 36	24 -37	50	47	54	29	9	19.5	4.5

**162/MS:** Cable gland with hexagon intermediate socket, Form C4 to DIN 46320

With Pg connecting thread to DIN 40430

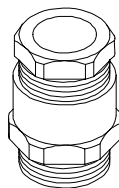
Compression rings of steel, electro-galvanised and yellow-chromated  
Seal of NR/SBR

Degree of protection:with seal IP65, without IP54

With cutting ring

**Ms** Brass, nickel-plated

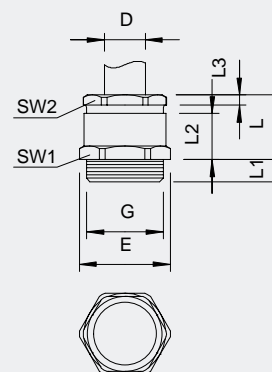
## Brass cable glands



**M**

Type	Colour	Carton qty	Pack qty	Weight kg/100 qty	Ord. no. Ms
162/MS M16x1,5	nickel-plated	750	50	1,814	2083 71 2
162/MS M20x1,5	nickel-plated	600	50	2,526	2083 71 6
162/MS M25x1,5	nickel-plated	350	25	3,388	2083 72 0
162/MS M32x1,5	nickel-plated	400	25	5,004	2083 72 4
162/MS M40x1,5	nickel-plated	100	10	8,720	2083 72 8
162/MS M50x1,5	nickel-plated	60	10	15,800	2083 73 2
162/MS M63x1,5	nickel-plated	50	5	21,600	2083 73 6

With cutting ring



Nom. size G	Sealing range D Type 162/MS M	D1 mm	L1 mm	L2 mm	SW1 mm	SW2 mm
M16x1,5	5 - 9,5	18,9	7	16	17	15
M20x1,5	7,5 - 13,5	24,4	7	18	22	20
M25x1,5	10 - 20,5	35,5	8	22	32	28
M32x1,5	18 - 29	43,5	8,5	24	40	37
M40x1,5	24 - 37	54	8,5	29	50	47
M50x1,5	30 - 42	62,1	9,5	33	58	54
M63x1,5	36 - 47	69	10	44	64	60

**162/MS M:** cable gland with round intermediate socket, Form C 5 to DIN 46320

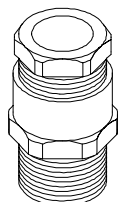
With metric connecting thread to DIN 40430

Compression rings of steel, electro-galvanised and yellow-chromated seal of NR/SBR

Degree of protection: with seal IP65, without IP54

With cutting ring

**Ms** Brass, nickel-plated



Type	Thread	Colour	Carton qty	Pack qty	Weight kg/100	Ord. no. Ms
163/LMS Pg 9	Pg 9	nickel-plated	750	50	1.416	2083 09 4
163/LMS Pg 11	Pg 11	nickel-plated	600	50	2.096	2083 11 6
163/LMS Pg 13.5	Pg 13.5	nickel-plated	400	50	2.580	2083 13 2
163/LMS Pg 16	Pg 16	nickel-plated	500	25	3.012	2083 16 7
163/LMS Pg 21	Pg 21	nickel-plated	250	25	5.312	2083 21 3
163/LMS Pg 29	Pg 29	nickel-plated	80	10	10.120	2083 29 9
163/LMS Pg 36	Pg 36	nickel-plated	80	10	15.400	2083 36 1

With long connecting thread

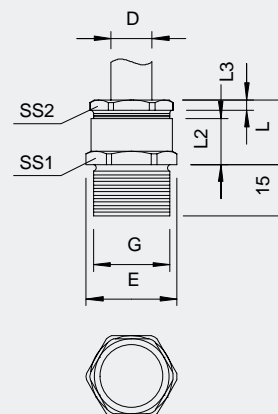
\*Prices to DEL quotation; see Notes on Materials

### Accessories available:

Thread entry seals

170 (Flat)  
171 (O-ring)

see page 76  
see page 77



Nom. size G	Sealing range D mm	SS1 mm	SS2 mm	E ca mm	L max. mm	L2 mm	L3 mm
Pg 9	6- 8	17	15	18,9	16	10,5	2,5
Pg 11	8-10	20	18	22,2	17	11	3
Pg 13.5	8-10	22	20	24,4	18	12,5	3
Pg 16	8-10	24	22	26,7	19	13,5	3
Pg 21	17-19	30	28	33,5	22	15	3,5
Pg 29	24-26	40	37	43,5	24	16,5	4
Pg 36	31-33	50	47	54	29	19,5	4,5

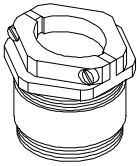
**163/LMS:** Cable gland with hexagon intermediate socket, Form C 4 to DIN 46320, with 15 mm long Pg connecting thread to DIN 40430

Compression rings of steel, electro-galvanised and yellow-chromated Seal of NR/SBR,

Degree of protection: with seal IP65, without IP54

**Ms** Brass, nickel-plated

## Brass cable glands



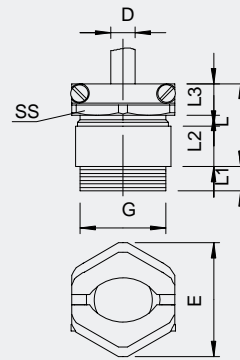
Type	Thread	Colour	Pack qty	Weight kg/100	Ord. no. Ms
158/MS	Pg 7	nickel-plated	50	1.850	2045 07 9
158/MS	Pg 9	nickel-plated	50	2.300	2045 09 5
158/MS	Pg 11	nickel-plated	50	3.200	2045 11 7
158/MS	Pg 13.5	nickel-plated	50	4.690	2045 13 3
158/MS	Pg 16	nickel-plated	25	5.476	2045 16 8
158/MS	Pg 21	nickel-plated	25	7.500	2045 21 4
158/MS	Pg 29	nickel-plated	10	11.480	2045 28 1
158/MS	Pg 36	nickel-plated	5	21.780	2045 36 2
158/MS	Pg 42	nickel-plated	5	39.470	2045 42 7
158/MS	Pg 48	nickel-plated	4	45.050	2045 48 6

With strain relief and bending protection

\*Prices to DEL quotation; see Notes on Materials

**Accessories available:**

Thread entry seals	170 (Flat)	see page 76
	171 (O-ring)	see page 77



Nom. size G	Sealing range D mm	SS2 mm	E ca mm	L max. mm	L1 mm	L2 mm	L3 mm
Pg 7	5- 7	16	17.5	22	5	10	9.3
Pg 9	6- 8	19	20.5	24	6	10.5	10.6
Pg 11	8-10	22	24	25	6	11	11.3
Pg 13.5	8-10	24	27	26	6.5	12.5	11.3
Pg 16	8-10	26	29	28	6.5	13.5	11.8
Pg 21	17-19	33	37	32	7	15	13.3
Pg 29	24-26	42	46.5	34	8	16.5	13.8
Pg 36	31-33	52	57	40	9	19.5	15.8
Pg 42	37-39	59	65	43	10	22	16.3
Pg 48	43-45	64	70	44	10	23	16.3

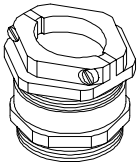
**158/MS:** Cable gland with centrally-acting crossbar strain relief in the threaded bush, thick rounded threaded bush for bending protection of moving cables, with Pg connecting thread to DIN 40430

Compression rings of steel, electro-galvanised and yellow-chromated  
Seal of NR/SBR

Degree of protection: with seal IP65, without IP54

With round intermediate socket (similar to Form C 5 to DIN 46320)

**Ms** Brass, nickel-plated



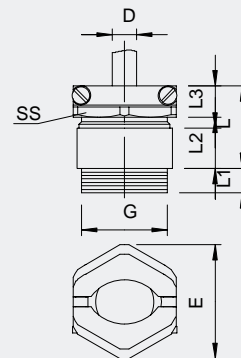
Type	Thread	Colour	Pack qty	Weight kg/100	Ord. no. Ms
159/MS	Pg 7	nickel-plated	50	1.960	2046 07 5
159/MS	Pg 9	nickel-plated	50	2.460	2046 09 1
159/MS	Pg 11	nickel-plated	50	3.250	2046 11 3
159/MS	Pg 13.5	nickel-plated	50	3.830	2046 12 1
159/MS	Pg 16	nickel-plated	25	5.696	2046 16 4
159/MS	Pg 21	nickel-plated	25	7.590	2046 21 0
159/MS	Pg 29	nickel-plated	10	14.970	2046 29 6
159/MS	Pg 36	nickel-plated	5	22.030	2046 36 9
159/MS	Pg 42	nickel-plated	5	41.070	2046 42 3
159/MS	Pg 48	nickel-plated	4	46.250	2046 48 2

With strain relief and bending protection

\*Prices to DEL quotation; see Notes on Materials

**Accessories available:**

Thread entry seals	170 (Flat)	see page 76
	171 (O-ring)	see page 77



Nom. size G	Sealing range D mm	SS1* mm	SS2 mm	E ca mm	L max. mm	L1 mm	L2 mm	L3 mm
Pg 7	5- 7	14	16	17.5	22	5	10	9.3
Pg 9	6- 8	17	19	20.5	24	6	10.5	10.6
Pg 11	8-10	20	22	24	25	6	11	11.3
Pg 13.5	8-10	22	24	27	26	6.5	12.5	11.3
Pg 16	8-10	24	26	29	28	6.5	13.5	11.8
Pg 21	17-19	30	33	37	32	7	15	13.3
Pg 29	24-26	40	42	46.5	34	8	16.5	13.8
Pg 36	31-33	50	52	57	40	9	19.5	15.8
Pg 42	37-39	57	59	65	43	10	22	16.3
Pg 48	43-45	64	64	70	44	10	23	16.3

**159/MS:** Cable gland with centrally-acting crossbar strain relief in the threaded bush, thick rounded threaded bush for bending protection of moving cables

With Pg connecting thread to DIN 40430

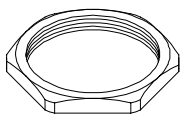
Compression rings of steel, electro-galvanised and yellow-chromated  
Seal of NR/SBR

Degree of protection: with seal IP 65, without IP 54

With hexagon intermediate socket (similar to Form C 4 to DIN 46320)

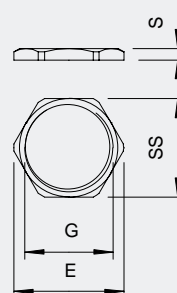
**Ms** Brass, nickel-plated

## Brass locknuts



Type	Thread	Colour	Pack qty	Weight kg/100	Ord. no. Ms
169/MS	Pg 7	nickel-plated	100	0.161	2091 07 0
169/MS	Pg 9	nickel-plated	100	0.183	2091 09 7
169/MS	Pg 11	nickel-plated	100	0.243	2091 11 9
169/MS	Pg 13.5	nickel-plated	100	0.354	2091 13 5
169/MS	Pg 16	nickel-plated	100	0.520	2091 15 1
169/MS	Pg 21	nickel-plated	100	0.818	2091 21 6
169/MS	Pg 29	nickel-plated	100	1.320	2091 29 1
169/MS	Pg 36	nickel-plated	50	1.952	2091 36 4
169/MS	Pg 42	nickel-plated	50	3.868	2091 42 9
169/MS	Pg 48	nickel-plated	25	3.392	2091 48 8

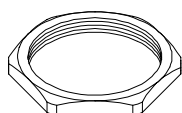
\*Prices to DEL quotation; see Notes on Materials



Nom. size G	SS mm	E mm	S mm
Pg 7	15	16.6	2.8
Pg 9	18	20	2.8
Pg 11	21	23.5	3
Pg 13.5	23	25.5	3
Pg 16	26	29	3
Pg 21	32	35.5	3.5
Pg 29	41	45	4
Pg 36	51	56	5
Pg 42	60	65	5
Pg 48	64	69	5.5

**169/MS:** Locknuts, Part M to DIN 46320  
With Pg thread to DIN 40430

**Ms** Brass, nickel-plated

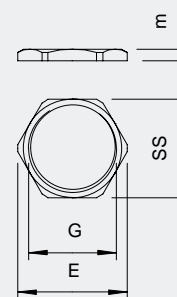


Type	Thread	Colour	Pack qty	Weight kg/100	Ord. no. Ms
169/MS M	M12 x 1.5	nickel-plated	100	0.220	2091 60 7
169/MS M	M16 x 1.5	nickel-plated	100	0.310	2091 61 5
169/MS M	M20 x 1.5	nickel-plated	100	0.530	2091 62 3
169/MS M	M25 x 1.5	nickel-plated	100	0.830	2091 63 1
169/MS M	M32 x 1.5	nickel-plated	100	1.100	2091 65 8
169/MS M	M40 x 1.5	nickel-plated	50	1.860	2091 66 6
169/MS M	M50 x 1.5	nickel-plated	50	3.060	2091 67 4
169/MS M	M63 x 1.5	nickel-plated	25	5.710	2091 68 2

With metric thread to IEC 423

\*Prices to DEL quotation; see Notes on Materials

Nom. size G	SS mm	E mm	m mm
M12 x 1.5	15	16.6	3
M16 x 1.5	19	21	2.8
M20 x 1.5	24	26.7	3
M25 x 1.5	30	33.5	3.5
M32 x 1.5	36	39	4
M40 x 1.5	45	-	4.5
M50 x 1.5	55	-	5.5
M63 x 1.5	70	-	6



**169/MS M:** Locknuts to DIN 46319  
With metric thread to IEC 423

**Ms** Brass, nickel-plated

## Brass screw plugs



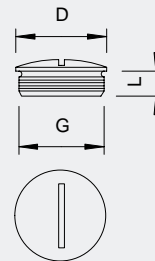
Type	Thread	Colour	Pack qty	Weight kg/100	Ord. no. Ms
168/MS	Pg 7	nickel-plated	100	0.303	2090 07 4
168/MS	Pg 9	nickel-plated	100	0.407	2090 09 0
168/MS	Pg 11	nickel-plated	100	0.734	2090 11 2
168/MS	Pg 13.5	nickel-plated	100	1.015	2090 13 9
168/MS	Pg 16	nickel-plated	100	1.057	2090 16 3
168/MS	Pg 21	nickel-plated	50	1.900	2090 20 1
168/MS	Pg 29	nickel-plated	50	3.412	2090 29 5
168/MS	Pg 36	nickel-plated	50	5.670	2090 36 8
168/MS	Pg 42	nickel-plated	25	8.864	2090 42 2
168/MS	Pg 48	nickel-plated	25	9.852	2090 48 1

\*Prices to DEL quotation; see Notes on Materials

### Accessories available:

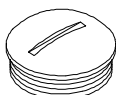
Thread entry seals	170 (Flat)	see page 76
	171 (O-ring)	see page 77

Nom. size G	D mm	L. mm
Pg 7	14	5
Pg 9	17	6
Pg 11	20	6
Pg 13.5	22	6.5
Pg 16	24	6.5
Pg 21	30	7
Pg 29	39	8
Pg 36	50	9
Pg 42	57	10
Pg 48	64	10



**168/MS:** Screw plug N to DIN 46320  
With Pg thread to DIN 40430

**Ms** Brass, nickel-plated



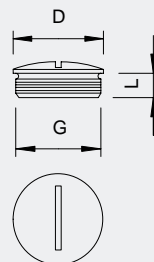
Type	Thread	Colour	Pack qty	Weight kg/100	Ord. no. Ms
168/MS M	M12 x 1.5	nickel-plated	100	0.560	2090 51 1
168/MS M	M16 x 1.5	nickel-plated	100	0.860	2090 53 8
168/MS M	M20 x 1.5	nickel-plated	100	1.320	2090 54 6
168/MS M	M25 x 1.5	nickel-plated	50	2.510	2090 55 4
168/MS M	M32 x 1.5	nickel-plated	50	4.850	2090 56 2
168/MS M	M40 x 1.5	nickel-plated	50	7.450	2090 57 0
168/MS M	M50 x 1.5	nickel-plated	25	11.710	2090 58 9
168/MS M	M63 x 1.5	nickel-plated	25	12.180	2090 59 7

\*Prices to DEL quotation; see Notes on Materials

### Accessories available:

Thread entry seals	170 M (Flat)	see page 76
	171 M (O-ring)	see page 77

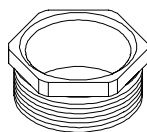
Nom. size G	D mm	L. mm
M12 x 1.5	16	5
M16 x 1.5	20	6
M20 x 1.5	22	6.5
M25 x 1.5	28	7
M32 x 1.5	35	8
M40 x 1.5	45	8
M50 x 1.5	55	9
M63 x 1.5	68	10



**168/MS M:** Screw plug N to DIN 46320  
With metric thread to DIN EN 60423 or ISO 68

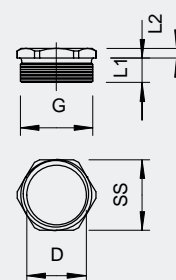
**Ms** Brass, nickel-plated

## Brass threaded bushes



Type	Thread	Colour	Carton qty	Pack qty	Weight kg/100	Ord. no. Ms
164/MS	Pg 7	nickel-plated	2000	100	0.290	2084 07 4
164/MS	Pg 9	nickel-plated	2000	100	0.462	2084 09 0
164/MS	Pg 11	nickel-plated	2000	100	0.595	2084 11 2
164/MS	Pg 13.5	nickel-plated	1000	100	0.769	2084 13 9
164/MS	Pg 16	nickel-plated	1000	100	0.910	2084 16 3
164/MS	Pg 21	nickel-plated	750	50	1.558	2084 20 1
164/MS	Pg 29	nickel-plated	300	25	3.132	2084 29 5
164/MS	Pg 36	nickel-plated	250	25	4.520	2084 36 8
164/MS	Pg 42	nickel-plated	120	10	6.930	2084 42 2
164/MS	Pg 48	nickel-plated	120	10	10.050	2084 48 1

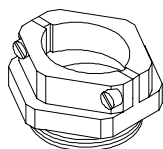
\*Prices to DEL quotation; see Notes on Materials



Nom. size G	SS mm	L1 mm	L2 mm	D mm
Pg 7	13	5.5	2.5	10
Pg 9	15	6	2.5	12.5
Pg 11	18	6	3	15
Pg 13.5	20	7.5	3	17
Pg 16	22	7.5	3	18.5
Pg 21	28	8	3.5	24
Pg 29	37	8	4	32
Pg 36	47	9.5	4.5	42
Pg 42	54	10	6	48
Pg 48	60	11.5	6	52.5

**164/MS:** Threaded bush (Part 3) to DIN 46320  
With Pg thread to DIN 40430

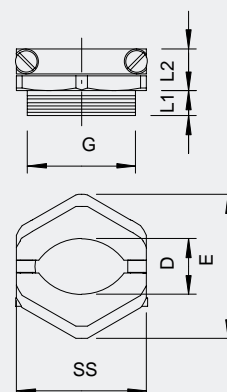
**Ms** Brass, nickel-plated



Type	Thread	Colour	Pack qty	Weight kg/100	Ord. no. Ms
157/MS	Pg 7	nickel-plated	100	1.200	2013 06 1
157/MS	Pg 9	nickel-plated	100	1.500	2013 09 6
157/MS	Pg 11	nickel-plated	100	2.100	2013 11 8
157/MS	Pg 13.5	nickel-plated	100	2.200	2013 13 4
157/MS	Pg 16	nickel-plated	50	3.400	2013 16 9
157/MS	Pg 21	nickel-plated	50	4.500	2013 21 5
157/MS	Pg 29	nickel-plated	25	6.800	2013 29 0
157/MS	Pg 36	nickel-plated	10	12.000	2013 36 3
157/MS	Pg 42	nickel-plated	10	21.000	2013 42 8
157/MS	Pg 48	nickel-plated	10	24.200	2013 48 7

With strain relief and bending protection

\*Prices to DEL quotation; see Notes on Materials

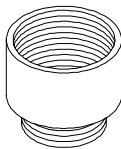


Nom. size G	Clamping range D mm	SS mm	E mm	L1 mm	L2 mm
Pg 7	6 - 7.5	16	17.5	5.5	9.3
Pg 9	7 - 9.5	19	20.5	6	10.6
Pg 11	8.5-11.5	22	24	6	11.3
Pg 13.5	10 -13.5	24	27	6.5	11.3
Pg 16	11 -15.5	26	29	6.5	11.8
Pg 21	14 -20.5	33	37	7.5	13.3
Pg 29	20 -29	42	46.5	8	13.8
Pg 36	26 -36	52	57	9.5	15.8
Pg 42	33 -41	59	65	10	16.3
Pg 48	37 -47	64	70	11	16.3

**157/MS:** Threaded bush with centrally-acting crossbar strain relief  
Screws of stainless steel

**Ms** Brass, nickel-plated

## Enlarging adapters

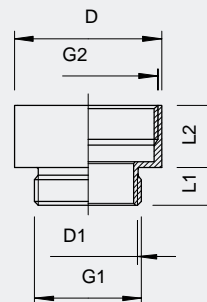


Type	Connecting/ internal thread	Colour	Pack qty	Weight kg/100	Ord. no. <b>Ms</b>
165/MS	Pg 7 / 9	nickel-plated	100	0.721	<b>2088 02 9</b>
165/MS	Pg 9 / 11	nickel-plated	100	0.901	<b>2088 04 5</b>
165/MS	Pg 9 / 13.5	nickel-plated	100	1.045	<b>2088 06 1</b>
165/MS	Pg 11 / 13.5	nickel-plated	100	1.137	<b>2088 09 6</b>
165/MS	Pg 11 / 16	nickel-plated	100	1.520	<b>2088 12 6</b>
165/MS	Pg 13.5/16	nickel-plated	100	1.594	<b>2088 14 2</b>
165/MS	Pg 13.5/21	nickel-plated	50	1.936	<b>2088 16 9</b>
165/MS	Pg 16 / 21	nickel-plated	50	1.810	<b>2088 18 5</b>
165/MS	Pg 21 / 29	nickel-plated	50	3.190	<b>2088 20 7</b>
165/MS	Pg 29 / 36	nickel-plated	25	6.320	<b>2088 22 3</b>
165/MS	Pg 36 / 42	nickel-plated	25	7.676	<b>2088 25 8</b>
165/MS	Pg 42 / 48	nickel-plated	10	9.032	<b>2088 27 4</b>

\*Prices to DEL quotation; see Notes on Materials

**Accessories available:**

Thread entry seals	170 (Flat)	see page 76
	171 (O-ring)	see page 77



Nom. size	G1 mm	G2 mm	D mm	D1 mm	L1 mm	L2 mm
Pg 7/9	Pg 7	Pg 9	17	10	5	10
Pg 9/11	Pg 9	Pg 11	20	12.5	6	10.5
Pg 9/13.5	Pg 9	Pg 13.5	22	12.5	6	11.5
Pg 11/13.5	Pg 11	Pg 13.5	22	15	6	11.5
Pg 11/16	Pg 11	Pg 16	24	15	6	12.5
Pg 13.5/16	Pg 13.5	Pg 16	24	17	6.5	12.5
Pg 13.5/21	Pg 13.5	Pg 21	30	17	6.5	14.5
Pg 16/21	Pg 16	Pg 21	30	18.5	6.5	14.5
Pg 21/29	Pg 21	Pg 29	39	24	7	16
Pg 29/36	Pg 29	Pg 36	50	32	8	19.5
Pg 36/42	Pg 36	Pg 42	57	42	9	22
Pg 42/48	Pg 42	Pg 48	64	48	10	23

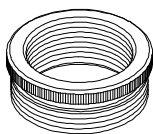
**165/MS:** Enlarging adapter (Part K) to DIN 46320  
With Pg thread to DIN 40430

Installation instructions: There are two ways of using enlarging adapter  
**165/MS:**

- 1) To adapt a Pg threaded hole to a larger cable gland.
- 2) The adapter can be converted into an extended cable gland by adding 2 steel compression rings 107/D, a gasket 107/A or 107/B and a threaded bush 164/MS.

**Ms** Brass, nickel-plated

## Reducers

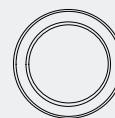
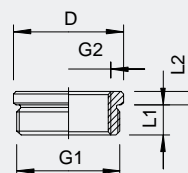


Type	Connecting/ internal thread	Colour	Pack qty	Weight kg/100	Ord. no. <b>Ms</b>
167/MS	Pg 9 / 7	nickel-plated	50	0.452	<b>2089 02 5</b>
167/MS	Pg 11 / 7	nickel-plated	50	1.004	<b>2089 04 1</b>
167/MS	Pg 11 / 9	nickel-plated	50	0.646	<b>2089 07 6</b>
167/MS	Pg 13.5/ 7	nickel-plated	50	1.398	<b>2089 09 2</b>
167/MS	Pg 13.5/ 9	nickel-plated	50	1.036	<b>2089 11 4</b>
167/MS	Pg 13.5/11	nickel-plated	50	0.464	<b>2089 13 0</b>
167/MS	Pg 16 / 9	nickel-plated	50	1.750	<b>2089 15 7</b>
167/MS	Pg 16 /11	nickel-plated	50	1.068	<b>2089 17 3</b>
167/MS	Pg 16 /13.5	nickel-plated	50	0.656	<b>2089 20 3</b>
167/MS	Pg 21 /11	nickel-plated	50	2.745	<b>2089 23 8</b>
167/MS	Pg 21 /13.5	nickel-plated	50	2.430	<b>2089 25 4</b>
167/MS	Pg 21 /16	nickel-plated	50	1.964	<b>2089 27 0</b>
167/MS	Pg 29 /16	nickel-plated	50	5.565	<b>2089 29 7</b>
167/MS	Pg 29 /21	nickel-plated	50	4.273	<b>2089 31 9</b>
167/MS	Pg 36 /21	nickel-plated	25	11.344	<b>2089 33 5</b>
167/MS	Pg 36 /29	nickel-plated	25	6.532	<b>2089 35 1</b>
167/MS	Pg 42 /29	nickel-plated	25	11.376	<b>2089 38 6</b>
167/MS	Pg 42 /36	nickel-plated	25	5.604	<b>2089 40 8</b>
167/MS	Pg 48 /36	nickel-plated	25	10.468	<b>2089 42 4</b>
167/MS	Pg 48 /42	nickel-plated	25	5.404	<b>2089 44 0</b>

\*Prices to DEL quotation; see Notes on Materials

### Accessories available:

Thread entry seals	170 (Flat)	see page 76
	171 (O-ring)	see page 77

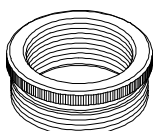


Nom. size	G1 mm	G2 mm	D mm	L1 mm	L2 mm
Pg 9/7	Pg 9	Pg 7	17	6	2.5
Pg 11/7	Pg 11	Pg 7	20	6	2.5
Pg 11/9	Pg 11	Pg 9	20	6	2.5
Pg 13.5/7	Pg 13.5	Pg 7	22	6.5	2.5
Pg 13.5/9	Pg 13.5	Pg 9	22	6.5	2.5
Pg 13.5/11	Pg 13.5	Pg 11	22	6.5	2.5
Pg 16/9	Pg 16	Pg 9	24	6.5	3
Pg 16/11	Pg 16	Pg 11	24	6.5	3
Pg 16/13.5	Pg 16	Pg 13.5	24	6.5	3
Pg 21/11	Pg 21	Pg 11	30	7	3
Pg 21/13.5	Pg 21	Pg 13.5	30	7	3
Pg 21/16	Pg 21	Pg 16	30	7	3
Pg 29/16	Pg 29	Pg 16	39	8	3.5
Pg 29/21	Pg 29	Pg 21	39	8	3.5
Pg 36/21	Pg 36	Pg 21	50	9	3.5
Pg 36/29	Pg 36	Pg 29	50	9	3.5
Pg 42/29	Pg 42	Pg 29	57	10	4
Pg 42/36	Pg 42	Pg 36	57	10	4
Pg 48/36	Pg 48	Pg 36	64	10	4
Pg 48/42	Pg 48	Pg 42	64	10	4

### 167/MS: Reducer (Part H) to DIN 46320

With Pg thread to DIN 40430, to adapt to a smaller Pg cable gland.

**Ms** Brass, nickel-plated

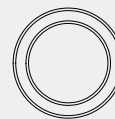
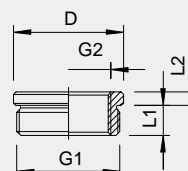


Type	Connec- ting/ internal thread	Colour	Pack qty	Weight kg/100	Ord. no. <b>Ms</b>
167/MS M	M16/ M12	nickel-plated	50	1.140	<b>2089 50 5</b>
167/MS M	M20/ M12	nickel-plated	50	2.170	<b>2089 51 3</b>
167/MS M	M20/ M16	nickel-plated	50	1.480	<b>2089 52 1</b>
167/MS M	M25/ M16	nickel-plated	50	3.120	<b>2089 54 8</b>
167/MS M	M25/ M20	nickel-plated	50	2.700	<b>2089 55 6</b>
167/MS M	M32/ M20	nickel-plated	50	4.900	<b>2089 56 4</b>
167/MS M	M32/ M25	nickel-plated	50	4.500	<b>2089 57 2</b>
167/MS M	M40/ M25	nickel-plated	25	7.210	<b>2089 58 0</b>
167/MS M	M40/ M32	nickel-plated	25	6.840	<b>2089 59 9</b>
167/MS M	M50/ M32	nickel-plated	25	12.100	<b>2089 60 2</b>
167/MS M	M50/ M40	nickel-plated	25	11.760	<b>2089 61 0</b>
167/MS M	M63/ M40	nickel-plated	25	26.120	<b>2089 62 9</b>
167/MS M	M63/ M50	nickel-plated	25	24.390	<b>2089 63 7</b>

\*Prices to DEL quotation; see Notes on Materials

### Accessories available:

Thread entry seals	170 M (Flat)	see page 76
	171 M (O-ring)	see page 77



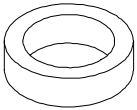
Nom. size	G1 mm	G2 mm	D mm	L1 mm	L2 mm
M16/12	16	12	20	6	8.5
M20/12	20	12	24	6.5	9
M20/16	20	16	24	6.5	9
M25/16	25	16	30	7	10
M20/16	25	20	30	7	10
M20/16	32	20	39	8	11.5
M32/25	32	25	39	8	11.5
M40/25	40	25	50	9	12.5
M40/32	40	32	50	9	12.5
M50/32	50	32	57	10	14
M50/40	50	40	57	10	14
M63/40	63	40	64	10	14
M63/50	63	50	64	10	14

### 167/MS M: Reducer (Part H) similar to DIN 46320

With metric thread to DIN EN 60423 or ISO 68

**Ms** Brass, nickel-plated

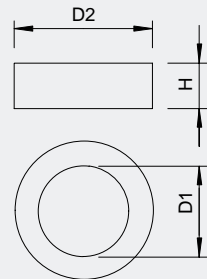
## Gaskets



Type	Nominal size/ internal Ø mm	Pack qty	Weight kg/100	Ord. no. <b>NBR/SBR</b>
107/A	Pg 7 / 6	100	0.049	2028 07 7
107/A	Pg 7 / 7	100	0.052	2028 08 5
107/A	Pg 9 / 7	100	0.067	2028 09 3
107/A	Pg 9 / 9	100	0.088	2028 10 7
107/A	Pg 11 / 9	100	0.107	2028 11 5
107/A	Pg 11 /11	100	0.100	2028 12 3
107/A	Pg 13.5/ 9	100	0.143	2028 02 6
107/A	Pg 13.5/12	100	0.152	2028 13 1
107/A	Pg 16 / 9	100	0.170	2028 03 4
107/A	Pg 16 /14	100	0.204	2028 16 6
107/A	Pg 21 /18	100	0.371	2028 21 2
107/A	Pg 21 /21	100	0.250	2028 22 0
107/A	Pg 29 /25	100	0.644	2028 29 8
107/A	Pg 29 /29	100	0.321	2028 30 1
107/A	Pg 36 /32	50	0.681	2028 36 0
107/A	Pg 42 /38	50	0.968	2028 42 5
107/A	Pg 48 /44	25	2.600	2028 49 2

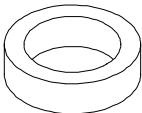
Rubber

Nom. size	D1 mm	D2 mm	H mm
Pg 7	6	10.7	5
Pg 7	7	10.7	5
Pg 9	7	13.3	5.5
Pg 9	9	13.3	5.5
Pg 11	9	16.5	6
Pg 11	11	16.5	6
Pg 13.5	9	18.3	6
Pg 13.5	12	18.3	6
Pg 16	9	20.4	7
Pg 16	14	20.4	7
Pg 21	18	25.9	8
Pg 21	21	25.9	8
Pg 29	25	34.7	9.5
Pg 29	29	34.7	9.5
Pg 36	32	44.7	12
Pg 42	38	51.7	14
Pg 48	44	56.9	14



107/A: Single gasket (Part C) to DIN 46320

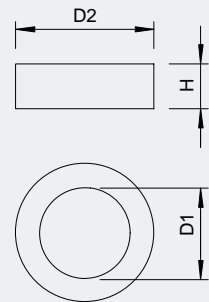
**NBR/SBR** Nitrile rubber/styrene-butadiene rubber



Type	Nominal size/ internal Ø mm	Pack qty	Weight kg/100	Ord. no. <b>CR</b>
107/A CR	Pg 7 / 6	100	0.060	2034 07 7
107/A CR	Pg 9 / 7	100	0.090	2034 09 3
107/A CR	Pg 11 / 9	100	0.143	2034 11 5
107/A CR	Pg 13.5/12	100	0.143	2034 13 1
107/A CR	Pg 13.5/ 9	100	0.170	2034 63 8
107/A CR	Pg 16 /14	100	0.170	2034 16 6
107/A CR	Pg 16 / 9	100	0.170	2034 66 2
107/A CR	Pg 21 /18	100	0.250	2034 21 2
107/A CR	Pg 29 /25	100	0.550	2034 29 8
107/A CR	Pg 36 /32	50	0.948	2034 36 0
107/A CR	Pg 42 /38	50	1.820	2034 42 5
107/A CR	Pg 48 /44	25	2.440	2034 48 4

Neoprene

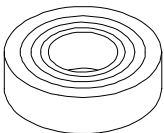
Nom. size	D1 mm	D2 mm	H mm
Pg 7	6	10.7	5
Pg 9	7	13.3	5.5
Pg 11	9	16.5	6
Pg 13.5	12	18.3	6
Pg 13.5	9	18.3	6
Pg 16	14	20.4	7
Pg 16	9	20.4	7
Pg 21	18	25.9	8
Pg 29	25	34.7	9.5
Pg 36	32	44.7	12
Pg 42	38	51.7	14
Pg 48	44	56.9	14



107/A CR: Single gasket (Part 6) to DIN 46320

**CR** Chloroprene-rubber

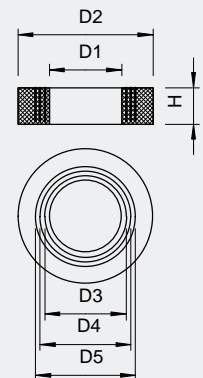
## Variable gasket



Type	Nom. size	Pack qty	Weight kg/100	Ord. no. <b>NBR/SBR</b>
107/B	Pg 9	100	0.240	2029 10 3
107/B	Pg 11	100	0.255	2029 11 1
107/B	Pg 13.5	100	0.234	2029 13 8
107/B	Pg 16	100	0.319	2029 16 2
107/B	Pg 21	100	0.594	2029 21 9
107/B	Pg 29	100	1.163	2029 29 4
107/B	Pg 36	50	1.938	2029 36 7
107/B	Pg 42	50	2.713	2029 42 1
107/B	Pg 48	50	3.488	2029 48 0

Rubber

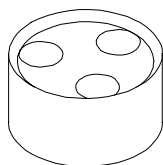
Nom. size	D1 mm	D2 mm	D3 mm	D4 mm	D5 mm	H mm
Pg 9	5	13.3	7.5	10	-	5.5
Pg 11	7.5	16.5	10	12.5	-	6
Pg 13.5	7.5	18.3	10	12.5	-	6
Pg 16	7.5	20.4	10	12.5	15	7
Pg 21	10	25.9	13	16	19	8
Pg 29	18	34.7	21	24	27	9.5
Pg 36	24	44.7	27	30	33	12
Pg 42	30	51.7	33	36	39	14
Pg 48	36	56.9	39	42	45	14



107/B: Variable gasket (cutout sealing ring Part 7) to DIN 46320

**NBR/SBR** Nitrile rubber/styrene-butadiene rubber

## Multiple sealing inserts



Type	Size	For cables no. x Ø mm	Pack qty	Weight kg/100	Ord. no. TPE
107 C/V-TEC	Pg 16	5 x 4	50	0.205	2029 61 8
107 C/V-TEC	Pg 16	3 x 5	50	0.210	2029 62 6
107 C/V-TEC	Pg 16	2 x 6	50	0.210	2029 63 4
107 C/V-TEC	Pg 16	3 x 6.5	50	0.155	2029 64 2
107 C/V-TEC	Pg 21+M25x1.5	3 x 7	25	0.450	2029 65 0
107 C/V-TEC	Pg 21+M25x1.5	2 x 8	25	0.340	2029 66 9

PVC

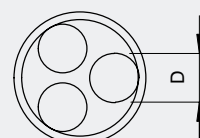
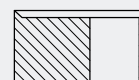
### Accessories available:

Cable glands

V-TEC  
V-TEC-M  
V-TEC MS

see page 37  
see page 41  
see page 60

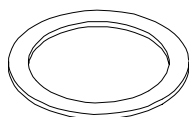
Suitable for V-TEC size	Number of holes	D mm
Pg 16	5	4
Pg 16	3	5
Pg 16	2	6
Pg 16	3	6.5
Pg 21+M25 x 1.5	3	7
Pg 21+M25 x 1.5	2	8



**107 C/V-TEC:** Insert to allow the entry of several thin cables into V-TEC glands. Replaces the single gasket of the gland.

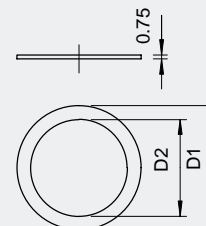
**TPE** Thermoplastic elastomer

## Compression rings



Type	Nom. size	Carton qty	Pack qty	Weight kg/100	Ord. no. G
107/D	Pg 7	1000	100	0.019	2027 07 0
107/D	Pg 9	1000	100	0.038	2027 09 7
107/D	Pg 11	1000	100	0.061	2027 11 9
107/D	Pg 13.5	1000	100	0.066	2027 13 5
107/D	Pg 16	1000	100	0.074	2027 15 1
107/D	Pg 21	500	50	0.104	2027 21 6
107/D	Pg 29	250	25	0.144	2027 29 1
107/D	Pg 36	1000	100	0.255	2027 36 4
107/D	Pg 42	1000	100	0.372	2027 42 9
107/D	Pg 48	1000	100	0.430	2027 48 8

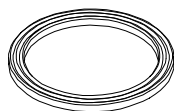
Nom. size	D1+/-0.5 mm	D2+0.5 mm
Pg 7	11	8
Pg 9	13.5	10
Pg 11	16.5	12
Pg 13.5	18.5	14
Pg 16	20.5	16
Pg 21	26	21
Pg 29	35	30
Pg 36	45	38
Pg 42	52	43
Pg 48	57	48



**107/D:** Compression ring (Part 8) to DIN 46320, suitable for plastic and brass glands to DIN 46320

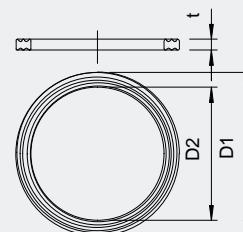
**G** Steel, electro-galvanised

## Thread entry seals



Type	Thread	Carton qty	Pack qty	Weight kg/100	Ord. no. PE
107/F	Pg 7	1000	100	0.017	2030 07 1
107/F	Pg 9	1000	100	0.018	2030 09 8
107/F	Pg 11	1000	100	0.029	2030 10 1
107/F	Pg 13.5	1000	100	0.030	2030 13 6
107/F	Pg 16	1000	100	0.038	2030 16 0
107/F	Pg 21	500	50	0.060	2030 21 7
107/F	Pg 29	1000	100	0.105	2030 29 2
107/F	Pg 36	1000	100	0.200	2030 36 5
107/F	Pg 42	1000	100	0.250	2030 41 1
107/F	Pg 48	1000	100	0.290	2030 48 9

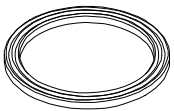
Nom. size	D1 mm	D2 mm	t mm
Pg 7	16.5	12.1	1.6
Pg 9	19	14.7	1.6
Pg 11	23	18	1.8
Pg 13.5	25	19.8	1.8
Pg 16	27	21.8	1.8
Pg 21	34	27.5	2.2
Pg 29	44	36.2	2.2
Pg 36	55.5	46.2	2.7
Pg 42	63.5	53.2	3.2
Pg 48	69.5	58.5	3.2



**107/F:** Thread entry seals similar to Part 9 to DIN 46320  
Some dimensions differ owing to material and function  
Suitable for all plastic cable glands with Pg connecting thread to DIN 40430  
The internal diameters of the seals are chosen so that the rings can be captively prefitted.

**PE** Polyethylene

## Thread entry seals

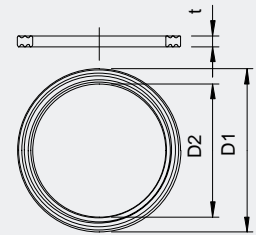


(M)



Type	Nom. size	Carton qty	Pack qty	Weight kg/100	Ord. no. PE
107/F M	M12	1000	100	0.017	2030 00 4
107/F M	M16	1000	100	0.018	2030 00 8
107/F M	M20	1000	100	0.030	2030 01 2
107/F M	M25	1000	100	0.060	2030 01 6
107/F M	M32	1000	100	0.105	2030 02 0
107/F M	M40	1000	100	0.200	2030 02 4
107/F M	M50	1000	100	0.250	2030 02 8
107/F M	M63	1000	100	0.290	2030 03 2

Nom. size	D1 mm	D2 mm	t mm
M12	16.3	12	1
M16	20.9	16	1.1
M20	25.1	20	1.1
M25	31.3	25	1.4
M32	37.6	32	1.4
M40	49.1	40	1.7
M50	60.1	50	2
M63	73.8	63	2

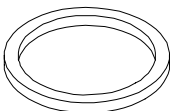


### 107/F M: Thread entry seals

Suitable for all plastic cable glands with metric connecting thread to DIN EN 60423 or ISO 68

The internal diameters of the seals are chosen so that the rings can be captively prefitted.

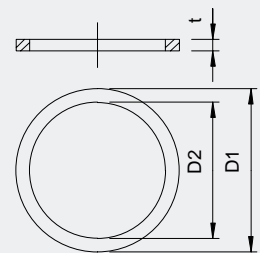
**PE** Polyethylene, natural



Type	Nom. size	Carton qty	Pack qty	Weight kg/100	Ord. no. FA
170	Pg 7	1000	100	0.032	2088 50 9
170	Pg 9	1000	100	0.040	2088 51 7
170	Pg 11	1000	100	0.050	2088 52 5
170	Pg 13.5	1000	100	0.066	2088 53 3
170	Pg 16	1000	100	0.070	2088 54 1
170	Pg 21	2000	100	0.170	2088 56 8
170	Pg 29	1000	100	0.270	2088 57 6
170	Pg 36	500	50	0.330	2088 58 4
170	Pg 42	500	50	0.440	2088 59 2
170	Pg 48	250	25	0.590	2088 60 6

Asbestos-free material

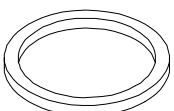
Nom. size	D1 mm	D2 mm	t mm
Pg 7	16	12.6	2
Pg 9	19	15.3	2
Pg 11	22.5	18.7	2
Pg 13.5	25	20.6	2
Pg 16	27	22.7	2
Pg 21	34	28.5	3
Pg 29	44	37.2	3
Pg 36	54	47.2	3
Pg 42	62	54.2	3
Pg 48	69	59.5	3



### 170: Thread entry seals, Part 9 to DIN 46320

Suitable for all brass cable glands with Pg connecting thread to DIN 40430.

**FA** Fibre sealing material, to DIN 28091, asbestos-free, temperature-resistant to max. 300°C

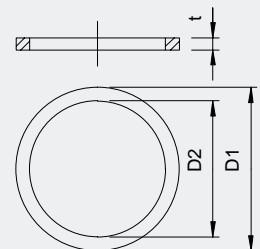


(M)

Type	Nom. size	Carton qty	Pack qty	Weight kg/100	Ord. no. FA
170 M	M12	1000	100	0.032	2088 40 1
170 M	M16	1000	100	0.040	2088 42 8
170 M	M20	1000	100	0.066	2088 43 6
170 M	M25	2000	100	0.170	2088 44 4
170 M	M32	1000	100	0.270	2088 45 2
170 M	M40	500	50	0.330	2088 46 0
170 M	M50	500	50	0.440	2088 47 9
170 M	M63	250	25	0.590	2088 48 7

Asbestos-free material

Nom. size	D1 mm	D2 mm	t mm
M12	15.5	12	2
M16	19.9	16	2
M20	24	20	2
M25	30	25	3
M32	38	32	3
M40	47	40	3
M50	57	50	3
M63	72	63	3

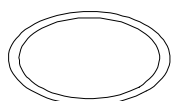


### 170 M: Thread entry seals, Part 9 to DIN 46320

Suitable for all brass cable glands with metric connecting thread to DIN 40430.

**FA** Fibre sealing material, to DIN 28091, asbestos-free, temperature-resistant to max. 300°C

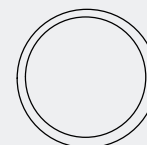
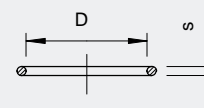
## O-ring seals for thread entries



Type	Nom. size	Carton qty	Pack qty	Weight kg/100	Ord. no. NBR
171	Pg 7	1000	100	0.007	2088 80 0
171	Pg 9	1000	100	0.008	2088 81 9
171	Pg 11	1000	100	0.010	2088 82 7
171	Pg 13.5	1000	100	0.011	2088 83 5
171	Pg 16	1000	100	0.012	2088 84 3
171	Pg 21	1000	100	0.027	2088 85 1
171	Pg 29	1000	100	0.035	2088 87 8
171	Pg 36	500	50	0.045	2088 88 6
171	Pg 42	500	50	0.052	2088 89 4
171	Pg 48	250	25	0.056	2088 90 8

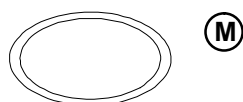
Nitrile rubber

Nom. size	D mm	S mm
Pg 7	10	1.5
Pg 9	13	1.5
Pg 11	16	1.5
Pg 13.5	18	1.5
Pg 16	20	1.5
Pg 21	25	2
Pg 29	33	2
Pg 36	43	2
Pg 42	50	2
Pg 48	55	2



**171:** O-ring seals, suitable as thread entry seals for all plastic and brass cable glands with Pg connecting thread to DIN 40430  
The rings can be pre-fitted.

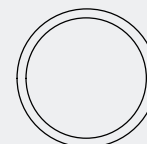
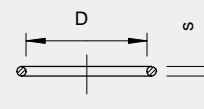
**NBR** Nitrile rubber (NBR), resistant to oil and petrol, temperature-resistant from -30 to +120°C, briefly to +150°C



Type	Nom. size	Carton qty	Pack qty	Weight kg/100	Ord. no. NBR
171 M	M12	1000	100	0.007	2088 70 3
171 M	M16	1000	100	0.008	2088 71 1
171 M	M20	1000	100	0.011	2088 73 8
171 M	M25	1000	100	0.012	2088 74 6
171 M	M32	1000	100	0.035	2088 75 4
171 M	M40	500	50	0.045	2088 76 2
171 M	M50	500	50	0.052	2088 77 0
171 M	M63	250	25	0.056	2088 78 9

Nitrile rubber

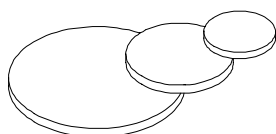
Nom. size	D mm	S mm
M12	10	1.5
M16	13	1.5
M20	18	1.5
M25	22	1.5
M32	29	2
M40	36	2
M50	46	2
M63	59	2



**171 M:** O-ring seals, suitable as thread entry seals for all plastic and brass cable glands with metric connecting thread to DIN 40430  
The rings can be pre-fitted.

**NBR** Nitrile rubber (NBR), resistant to oil and petrol, temperature-resistant from -30 to +120°C, briefly to +150°C

## Anti-dust discs



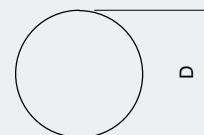
Type	Size	Carton qty	Pack qty	Weight kg/100	Ord. no.
107 S/V-TEC	Pg 7/M12 x 1.5	1000	100	0.001	2028 89 1
107 S/V-TEC	Pg 9/M16 x 1.5	1000	100	0.002	2028 90 5
107 S/V-TEC	Pg 11	1000	100	0.003	2028 91 3
107 S/V-TEC	Pg 13.5/M20 x 1.5	1000	100	0.004	2028 92 1
107 S/V-TEC	Pg 16	1000	100	0.006	2028 94 8
107 S/V-TEC	Pg 21/M25 x 1.5	1000	100	0.010	2028 95 6
107 S/V-TEC	Pg 29/M32 x 1.5	1000	100	0.015	2028 96 4
107 S/V-TEC	Pg 36	1000	100	0.035	2028 97 2
107 S/V-TEC	Pg 42	1000	100	0.050	2028 98 0
107 S/V-TEC	Pg 48	1000	100	0.060	2028 99 9

Cellular polyethylene

**Accessories available:**  
Cable glands

V-TEC see page 37  
V-TEC-M see page 41  
V-TEC MS see page 60

To fit V-TEC	D mm	t mm
Pg 7 + M12 x 1.5	11	1.5
Pg 9 + M16 x 1.5	14	1.5
Pg 11	16.5	1.5
Pg 13.5 + M20 x 1.5	18.5	2
Pg 16	21	2
Pg 21 + M25 x 1.5	26.5	2
Pg 29 + M32 x 1.5	34.5	2
Pg 36	44	3
Pg 42	50	3
Pg 48	56	3



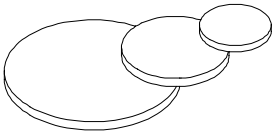
**107 S/V-TEC:** To seal V-TEC and V-TEC-MS glands against dust before the cable is installed.

Application: The discs are pre-fitted between the cap nut and the seal. There is no need to remove them when installing the cable. Simply push the cable through the disc.

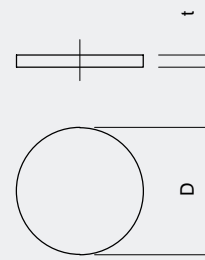
Note: The discs do not provide mechanical protection.

(Glands can be supplied pre-fitted with anti-dust discs on request.)

## Sealing discs



Type	Nom. size	Carton qty	Pack qty	Weight kg/100	Ord. no. PVC
107/V	Pg 7	1000	100	0.013	2029 70 7
107/V	Pg 9	1000	100	0.020	2029 71 5
107/V	Pg 11	1000	100	0.030	2029 72 3
107/V	Pg 13.5	1000	100	0.038	2029 73 1
107/V	Pg 16	1000	100	0.048	2029 75 8
107/V	Pg 21	1000	100	0.075	2029 76 6
107/V	Pg 29	1000	100	0.135	2029 77 4
107/V	Pg 36	1000	100	0.225	2029 78 2
107/V	Pg 42	1000	100	0.300	2029 79 0
107/V	Pg 48	1000	100	0.360	2029 80 4



Nom. size	D mm
Pg 7	11
Pg 9	13.5
Pg 11	16.5
Pg 13.5	18.5
Pg 16	20.5
Pg 21	26
Pg 29	35
Pg 36	45
Pg 42	52
Pg 48	57

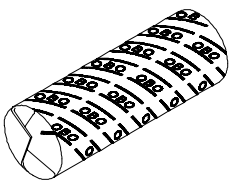
**107/V:** The sealing disc offers mechanical protection and maintains the degree of protection of the plastic and metal cable glands to DIN 46320 before the cable is installed.

Application: The discs are fitted between the threaded bush and the compression ring. To reliably achieve IP 65 protection, it is advisable to fit the disc between the compression ring and the gasket. The discs are removed when the cable is installed, and can be re-used.

(Glands can be supplied pre-fitted with sealing discs on request.)

**PVC** Polyvinylchloride

## Electrically insulating and sealing compound



Type	Colour	Carton qty	Pack qty	Weight kg/100	Ord. no.
115	grey	100	10	11.200	2340 03 8

In bars

**115:** Polymer- and mineral-based permanently elastic, fibre-free sealing compound to fill cavities in installations, eg cable glands or similar components, to prevent the entry of dirt and water.  
Colour: light grey

Properties:

- halogen-, acid- and silicone-free
- workable at low temperatures
- continuously heat resistant up to +80°C
- corrosion protection
- low water absorption
- good insulating properties
- dielectric strength 16 kV/mm to VDE 0291 Part 2
- practically unlimited shelf life

