

# **SISTEMI E COMPONENTI PER PORTELLONI BUS BUS DOORS SYSTEMS AND COMPONENTS**



**PRIMA**  
INDUSTRIES

**18B**

**Tutti i prodotti contenuti in questa sezione rispondono alle seguenti normative:**

## **REGOLAMENTO 107/08**

(disposizioni speciali da applicare ai veicoli adibiti al trasporto passeggeri aventi più di otto posti a sedere oltre al sedile del conducente e recante modifica alle direttive 70/156/CEE, 97/27/CE e 2001/85/CE)

## **UN ECE R118 e FMVSS302**

Velocità e metodica di combustione dei materiali utilizzati per la costruzione degli interni di veicoli a motore

I componenti non metallici di questa sezione hanno forme/geometrie che non permettono di ottenere campioni di dimensioni tali da essere sottoposti ai test previsti da R118.3 (come indicato in Appendice I paragrafo 6.2.7 e negli allegati VI, VII e VIII) oppure vengono installati su bus urbani oppure non vengono installati all'interno del vano passeggeri, quindi non devono essere testati.

## **DIRETTIVA 2000/53/CE (e successivi emendamenti: 2008/33/CE)**

(messa al bando dei metalli pesanti piombo, cadmio, mercurio e cromo esavalente)

## **DIRETTIVA 2002/95/CE - (ROHS)**

(messa al bando dei metalli pesanti, del polibrominato bifenile - PBB e del pentabromodifenil etere - PBDE)

## **DIRETTIVA 1907/2006/CE - (REACH)** Messa al bando delle sostanze pericolose contenute nella lista SVHC

P277 cod. 61749, 62288, 62298 e 67628 SCIP number: fe40ed6a-cac0-4aca-8e62-5b1dd1cd0a7c

P335 cod. 60849 SCIP number: c1b1395c-476a-4361-a3f9-9459a4be4671

P335 cod. 60839 SCIP number: 344afb4b-3c8a-4e1d-ada3-cfd0cc51f7af

P271 cod. 62238 SCIP number: 6679e127-a090-4d7f-95f7-95f8f4aeea3e

P20 cod. 69777 SCIP number: f0fb1334-cd6a-4760-85f9-dc9f60f69eb8

P100 cod. 52100 SCIP number: 8b551819-a412-47ed-a621-1ecca5e2a6da

P101 cod. 52110 e 65831 SCIP number: c98edbab-8120-40ae-aec2-6dbaa8a7856a

## **DIRETTIVA 2005/20/CE - (e successivi emendamenti)**

(bando delle sostanze pericolose dagli imballaggi e dai rifiuti di imballaggio)

## **REGOLAMENTO R10**

(compatibilità elettromagnetica)

## **GADSL**

(conformità alla lista delle sostanze dichiarabili del settore automobilistico)

## **PAH**

(bando degli idrocarburi policiclici aromatici)

## **CONFLICT MINERALS RULES**

(regole nate negli USA per scoraggiare l'uso di minerali preziosi - oro, tantalio, stagno, tungsteno e loro derivati - provenienti da aree in guerra)

**I colori RAL, riferiti ai prodotti contenuti in questo catalogo, sono puramente indicativi.  
Per eventuali abbinamenti o particolari necessità cromatiche contattare nostro Ufficio Commerciale**

All the products contained in this section complies with the following norms:

## REGULATION 107/08

Special provisions for vehicles used for the carriage of passengers comprising more than eight seats in addition to the driver's seat and amending Directives 70/156/EEC, 97/27/EC and 2001/85/EC

## UN ECE R118 and FMVSS302

Combustion rate and method of materials used for the construction of motor vehicle interiors

The non-metallic components of this section have shapes/geometries that do not allow obtaining samples of such dimensions as to be subjected to the tests required by R118.3 (as indicated in Appendix I paragraph 6.2.7 and in Annexes VI, VII and VIII) or they are installed on city buses or they are not installed inside the passenger compartment, therefore they do not have to be tested.

## DIRECTIVE 2000/53/EC ( and amendments:2008/33/EC

On the restriction of the use of certain heavy metals such as lead, cadmium, mercury and hexavalent chromium in the manufacturing process

## DIRECTIVE 2002/95/EC

On the restriction of the use of certain heavy metals and brominated flame retardants such as polybrominated biphenils (PBB) and polybrominated diphenyls ethers (PBDE) in new electrical and electronic equipment

## DIRECTIVE 1907/2006/EC - (REACH) On the restriction of the use of hazardous substances on the SVHC list

P277 cod. 61749, 62288, 62298 and 67628 SCIP number: fe40ed6a-cac0-4aca-8e62-5b1dd1cd0a7c

P335 cod. 60849 SCIP number: c1b1395c-476a-4361-a3f9-9459a4be4671

P335 cod. 60839 SCIP number: 344afbab-3c8a-4e1d-ada3-cfd0cc51f7af

P271 cod. 62238 SCIP number: 6679e127-a090-4d7f-95f7-95f8f4aeaa3e

P20 cod. 69777 SCIP number: f0fb1334-cd6a-4760-85f9-dc9f60f69eb8

P100 cod. 52100 SCIP number: 8b551819-a412-47ed-a621-1ecca5e2a6da

P101 cod. 52110 and 65831 SCIP number: c98edbab-8120-40ae-aec2-6dbaa8a7856a

## DIRECTIVE 2005/20/CE - (and amendments)

On the restriction of hazardous substances on packaging and packaging waste

## REGULATION R10

Electric compatibility -EMC

## GADSL

Conform to global automotive declarable substances list

## PAH

Without polycyclic aromatic hydrocarbon

## CONFLICT MINERALS RULES

Rules created to discourage the use of precious minerals (gold, tantalum, tin, tungsten and their derivatives) extracted in a conflict zone

**The RAL colors, referring to the products indicated on our catalogue, are purely indicatives.  
For eventual combinations or specific colors please contact our Sales Department**

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## P.187 tipo - type 1

**Materiale - Material**  
Corpo in poliammide fibra vetro + motorino elettrico -  
Glass fibre polyamide fibre glass body + electric motor

**Colore - Color**  
Nero - Black

**Pezzi confezione - Package items**  
secondo codice - according to item code

**Volume confezione - Package volume**  
6,55 dm<sup>3</sup>

**Peso confezione - Package weight**  
secondo codice - according to item code

**Ricambi - Spare parts**  
vedi sez. tecnica - see technical section

**Accessori - Accessories**  
vedi sez. tecnica - see technical section

**Ciclo vita - Life cycle**  
50.000 azionamenti - actions

**Temp. di esercizio - Working temp.**  
-25/+80 °C

**Normative - Norms**  
R107.8; REACH; ROHS; CMR.  
More info on page B2-B3 and website on "Directives and regulations" area.



### P.187 tipo - type 1

| Cod.  | Fili - Wires | Volt | n° | g     | Min |
|-------|--------------|------|----|-------|-----|
| 61499 | 2            | 24   | 10 | 1.400 |     |
| 61509 | 5            | 24   | 10 | 1.450 |     |
| 64751 | 2            | 12   | 10 | 1.400 | 300 |
| 64761 | 5            | 12   | 10 | 1.450 | 300 |

## P.187 tipo - type 2



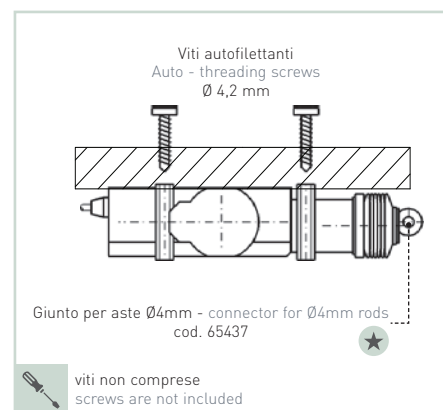
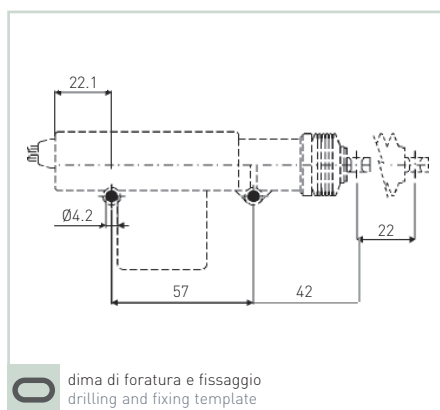
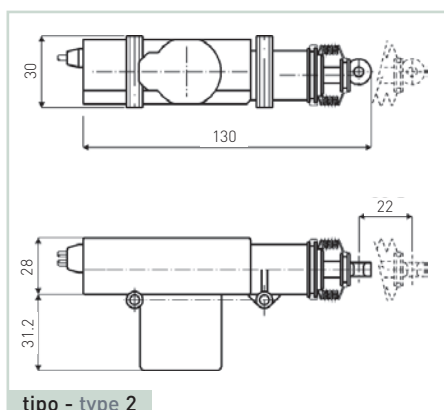
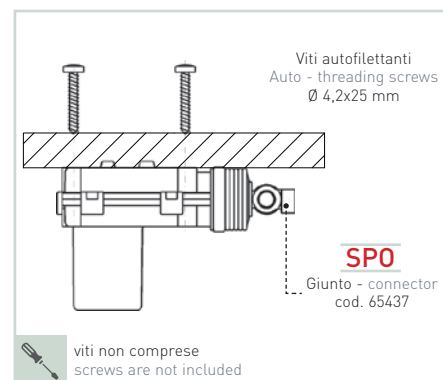
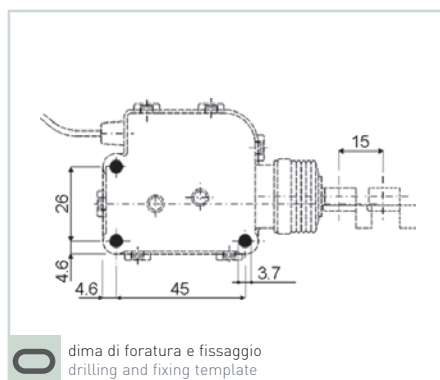
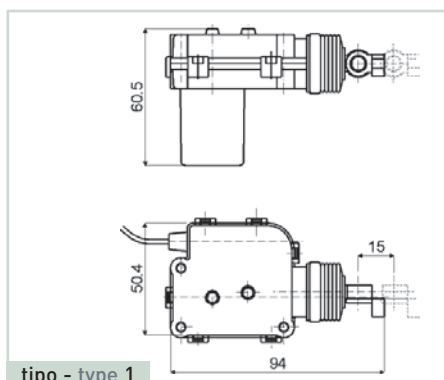
### P.187 tipo - type 2

| Cod.  | Fili - Wires | Volt    | Connector | n° | g     |
|-------|--------------|---------|-----------|----|-------|
| 66354 | 2            | 12 - 24 | NO*       | 20 | 1.400 |
| 66364 | 5            | 12 - 24 | NO*       | 20 | 1.450 |

\* l'attuatore ha i faston liberi senza connettore - the actuator has free faston without connectors

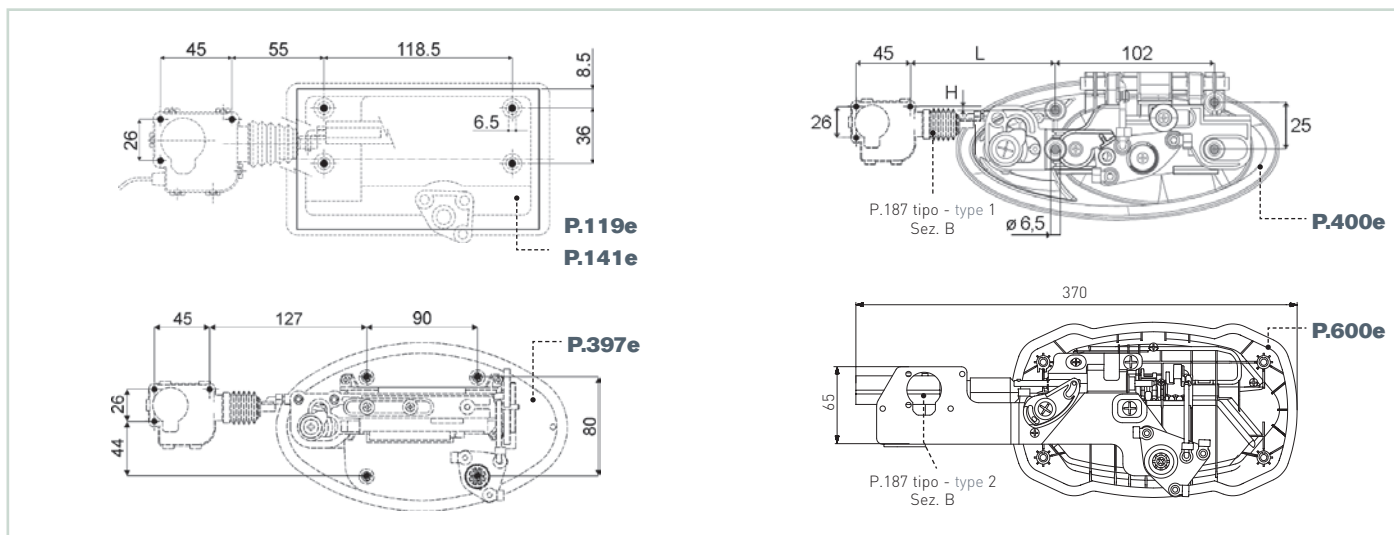
lotto minimo d'acquisto - minimum purchasing lot

## P.187



| Caratteristiche - Features                                | tipo - type 1 |            | tipo - type 2 |
|-----------------------------------------------------------|---------------|------------|---------------|
| Voltaggio nominale - Rated voltage                        | 12 V          | 24 V       | 12 - 24 V     |
| Max corrente assorbita - Max absorbed current             | 2,5 A         | 2,5 A      | 1,5 A         |
| Forza di spinta - Pressure force                          | 7 N           | 30 N       | 20 N - 30 N   |
| Corsa utile - Working stroke                              | 15 mm         | 15 mm      | 22 mm         |
| Tempo di azionamento - Operating time                     | 0,75 sec.     | 0,5 sec.   | 0,5 sec.      |
| Temperatura di funzionamento - Operating temperature      | -25/+80 °C    | -25/+80 °C | -25/+80 °C    |
| Vita (ciclo = 20 sec.) - Life time (cycle time = 20 sec.) | 50.000        | 50.000     | 50.000        |

### Esempi d'applicazione - Examples of application



## P.132



### Materiale - Material

Corpo in ABS + compound metallici -  
ABS body + metallic compounds



### Colore - Color

Nero - Black



### Pezzi confezione - Package items

1 pezzo - piece



### Volume confezione - Package volume

0,89 dm<sup>3</sup>



### Peso confezione - Package weight

420 g



### SPQ

### Ricambi - Spare parts

vedi sez. tecnica - see technical section



### Accessori - Accessories

vedi sez. tecnica - see technical section



### Temp. di esercizio - Working temp.

-25/+80 °C



### Normative - Norms

R107.8; REACH; ROHS; CMR.

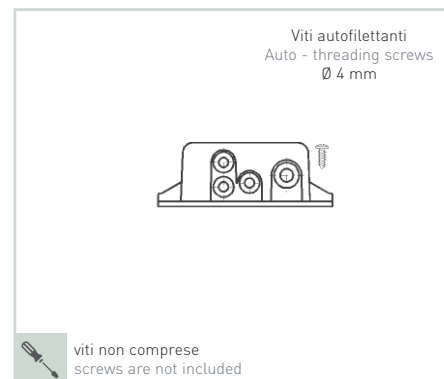
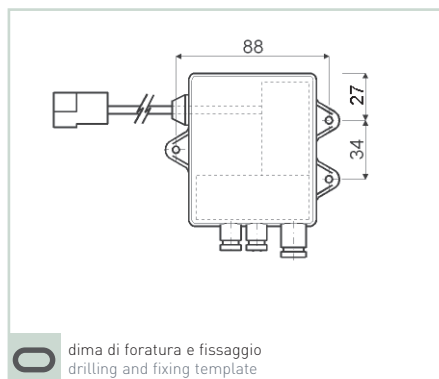
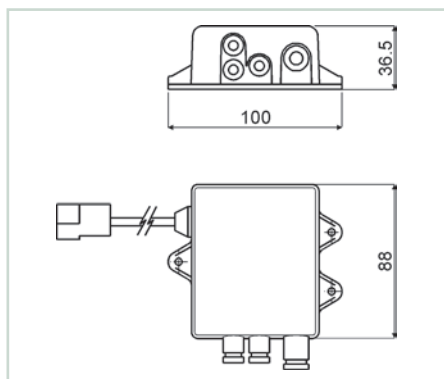
More info on page B2-B3 and website on "Directives and regulations" area.

## P.132

| Cod.  | Volt |
|-------|------|
| 53721 | 24   |

## Sezione tecnica - Technical section

## P.132



### Caratteristiche - Features

|                                                    |              |
|----------------------------------------------------|--------------|
| Alimentazione - Power supply                       | 24 V         |
| Pressione di esercizio - Working pressure          | 0 - 10 bar.  |
| Temperatura max del fluido - Max fluid temperature | 50° C.       |
| Portata a 6 Bar - Flow rate at 6 Bar               | 53 NI / min. |

|                                                      |        |
|------------------------------------------------------|--------|
| Diametro nominale di passaggio - Pass rated diameter | 1.3 mm |
| Corrente assorbita - Current consumption             | 230 mA |
| Consumo - Energy consumption                         | 5,5 W  |



- a) dalla plancia comandi dell'autista che aziona una centralina elettropneumatica P.132;
- b) con chiave d'emergenza direttamente sulla maniglia.

Per ulteriori informazioni riguardo ai succitati componenti, vedere Sez. A e B e/o contattare il nostro ufficio commerciale.

In the pneumatic version, the opening/closing mechanism is controlled by:

- a) driver's control board working an electropneumatic unit P.132;
- b) emergency key placed on the handle itself.

For further information about the above mentioned components, please see Sec. A and B and/or contact our sales dept.

## P.214



### Materiale - Material

Corpo in poliammide fibra vetro, cursore in acetilica, componenti metallici in acciaio zincato  
Glass fibre polyamide body, acetalic resin slider, zinc-plated steel metallic components



### Colore - Color

Nero - Black



### Pezzi confezione - Package items

20 pezzi - pieces



### Volume confezione - Package volume

secondo codice - according to item code



### Peso confezione - Package weight

secondo codice - according to item code



### Ricambi - Spare parts

-



### Accessori - Accessories

vedi sez. tecnica - see technical section



### Carico di rottura - Breakup load

Cursore - Slider = 2.200 N



### Temp. di esercizio - Working temp.

-10/+120 °C



### Normative - Norms

R107.8; R118.3; FMVSS 302; REACH; ROHS; CMR.

More info on page B2-B3 and website on "Directives and regulations" area.



## P.214

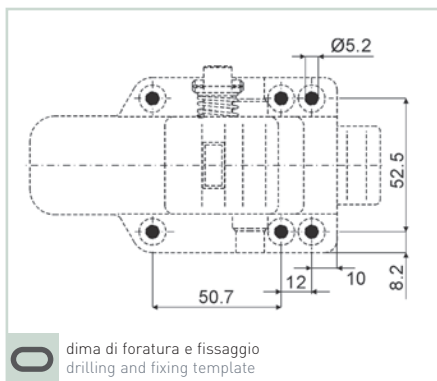
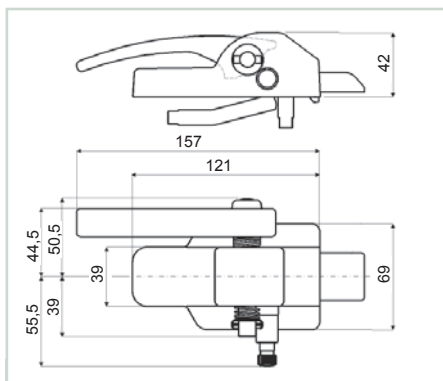
| Cod.    | 1 | 2 | 3     | 4 | 5 | 6 | 7 | 8 | 9    | 10 | 11   | 12 | dm    | g     |
|---------|---|---|-------|---|---|---|---|---|------|----|------|----|-------|-------|
|         |   |   |       |   |   |   |   |   |      |    |      |    |       |       |
| 61068   | • |   | •     |   |   |   |   |   |      |    | •    |    | 10,64 | 4.300 |
| 67707   | • |   | •     |   |   |   |   |   |      | •  | •    |    | 10,64 | 4.500 |
| 65958   | • |   | •     |   |   |   |   | • |      |    | •    |    | 10,64 | 6.000 |
| 67057   | • |   | •     | • |   |   |   |   |      |    | •    |    | 10,64 | 4.500 |
| 66788   | • |   | •     |   |   |   |   |   |      | •  | •    |    | 10,64 | 4.900 |
| 67727   | • |   |       | • |   |   |   |   |      |    | •    |    | 10,64 | 4.600 |
| 67007   | • |   |       | • |   |   |   |   |      | •  | •    |    | 10,64 | 4.500 |
| 69739   | • |   |       | • |   |   |   |   | •    | •  | •    |    | 10,64 | 5.500 |
| 69979   | • |   |       |   |   |   |   | • | •    |    |      |    | 22,38 | 5.500 |
| 69989   | • |   |       |   |   |   |   |   | •    |    | •    |    | 10,64 | 5.500 |
| 65868   | • |   |       |   |   |   |   | • |      | •  |      |    | 10,64 | 6.000 |
| 65878   | • |   |       |   |   |   | • |   |      | •  |      |    | 10,64 | 6.000 |
| 65598*  | • |   |       |   |   |   |   |   |      |    |      | •  | 10,64 | 4.500 |
| 65608*  | • |   | vert* |   |   |   |   |   |      |    | •    |    | 10,64 | 4.500 |
| 60192*  |   | • | vert* |   |   |   |   |   |      |    | •    |    | 10,64 | 4.500 |
| 60209   |   | • |       |   |   |   |   |   |      |    | •    |    | 10,64 | 4.650 |
| 67917   |   | • | •     |   | • |   |   |   | •    | •  |      |    | 10,64 | 5.500 |
| 60199   |   | • |       | • |   |   |   |   |      | •  | •    |    | 12,85 | 4.650 |
| 66148   |   | • |       |   | • |   | • |   |      |    |      |    | 10,64 | 6.000 |
| 66987   |   | • |       |   | • |   |   |   | •    |    | •    |    | 10,64 | 4.900 |
| 61129   |   | • |       |   | • |   | • |   |      | •  |      |    | 10,64 | 6.500 |
| 63611   |   | • |       |   |   | • |   | • |      | •  |      |    | 10,64 | 5.500 |
| 67167   |   | • |       |   |   | • |   | • |      |    |      |    | 22,38 | 6.000 |
| 67658   |   | • |       |   |   |   | • |   | •    | •  |      |    | 10,64 | 6.500 |
| 69953   |   | • |       |   |   |   | • |   |      | •  |      |    | 10,64 | 6.500 |
| 67757   |   | • |       |   |   |   |   | • | •    |    |      |    | 22,38 | 6.000 |
| 66977   |   | • |       |   |   | • |   |   | •    | •  | •    |    | 10,64 | 4.900 |
| 66997   |   | • |       |   |   |   |   |   | •    | •  | •    |    | 10,64 | 4.900 |
| 66138   |   |   | •     | • |   |   |   |   |      | •  | •    |    | 10,64 | 4.900 |
| 66968** |   |   |       |   |   |   |   |   |      | •  |      | •  | 12,85 | 3.800 |
| 60163   | • |   | •     |   |   |   |   |   |      |    |      |    | 10,64 | 4.300 |
| 60203   | • |   |       | • |   |   |   |   | •    |    |      |    | 10,64 | 5.300 |
| 60213   | • |   | •     | • |   |   |   |   | •    |    |      |    | 10,64 | 5.500 |
| 60223   | • |   |       | • |   |   |   |   |      |    |      |    | 10,64 | 4.600 |
| 60143   | • |   | •     | • |   |   |   |   |      |    | •*** |    | 10,64 | 5.500 |
| 60153   | • |   |       | • |   |   |   |   | •*** |    |      |    | 10,64 | 5.300 |

\*Serrandole verticali - Vertical locking gears

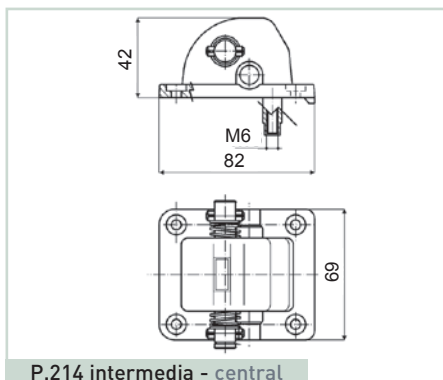
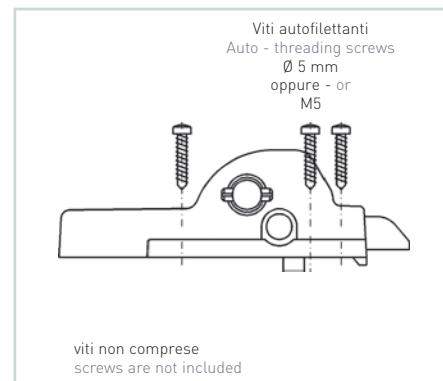
\*\* Serrandola intermedia - Central gear

\*\*\* Serrandola con tirante filettato - Gear including threaded link

## P.214



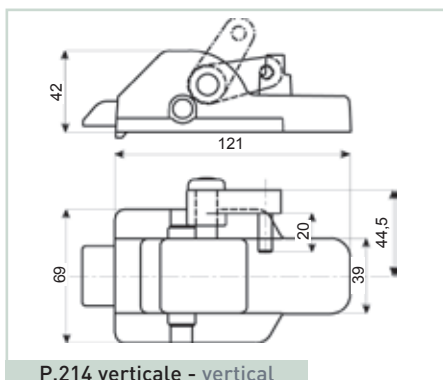
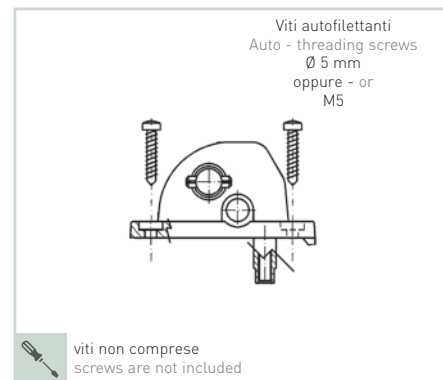
**O** dima di foratura e fissaggio  
drilling and fixing template



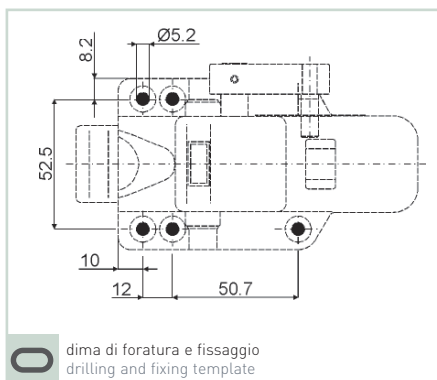
P.214 intermedia - central



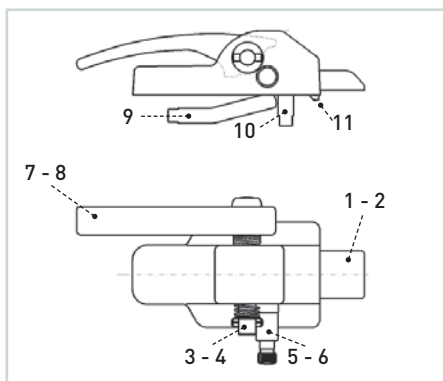
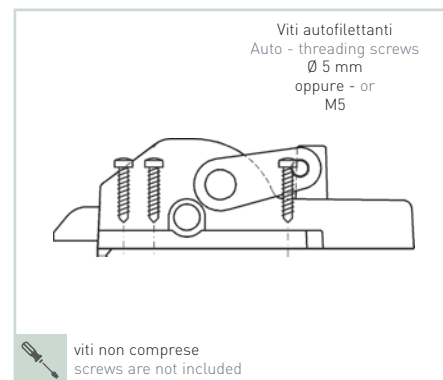
**O** dima di foratura e fissaggio  
drilling and fixing template



P.214 verticale - vertical



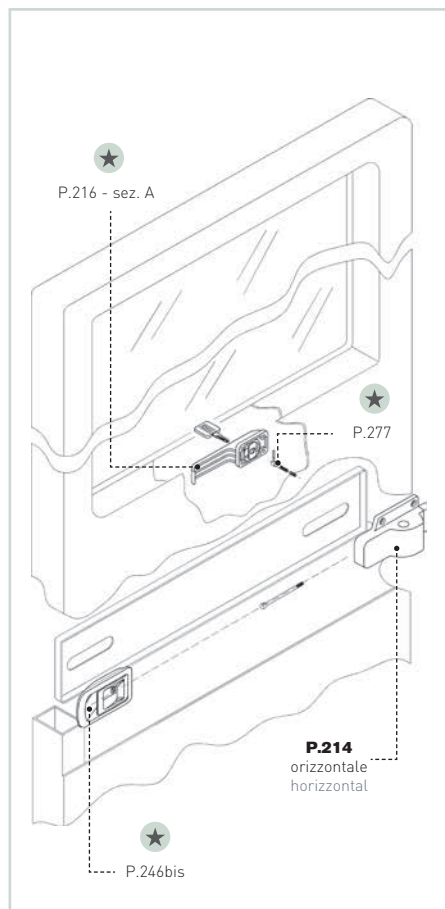
**O** dima di foratura e fissaggio  
drilling and fixing template



- 1-2. Cursore in acetale
  - 3-4. Perno azionamento cursore (tramite aste P.219)
  - 5-6. Sicura. Consente di estendere maggiormente il cursore (da 17 a 28,5 mm), in modo da bloccare la porta dall'interno; a questo punto, la porta può essere aperta solo dall'interno con maniglia P.216, o dall'interno con maniglia P.246bis, oppure tramite maniglia P.217 collegata alla serrandola con le aste P.219 (a seconda della versione).
  - 7-8. Maniglia per azionamento serrandola
  - 9. Tirante lungo di azionamento cursore tramite P.246bis e/o esempio di applicazione 4
  - 10. Tirante corto di azionamento cursore tramite P.216 e P.277
  - 11. Dente di ritegno
  - 12. Serrandola intermedia
- 
- 1-2. Acetalic resin slider
  - 3-4. Pin to enable the slider to work (by rod P. 219)
  - 5-6. Safety lock. It allows the slider to extend (from 17 to 28,5 mm) so that the door can be locked from inside. In this way, the door can be opened only from inside using the P.216 or the P.264 bis or the P.217 handle attached to the lock by rods P.219 (depending on version)
  - 7-8. Handle to enable the lock to work
  - 9. Long tie rod to enable the slider to work by P.246bis and/or application example 4
  - 10. Short tie rod to enable the slider to work by P.218 and P.277
  - 11. Catch
  - 12. Central gear

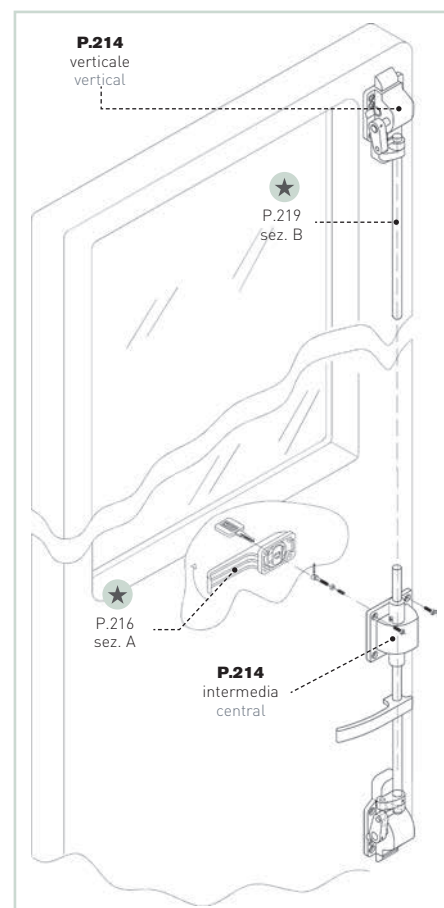
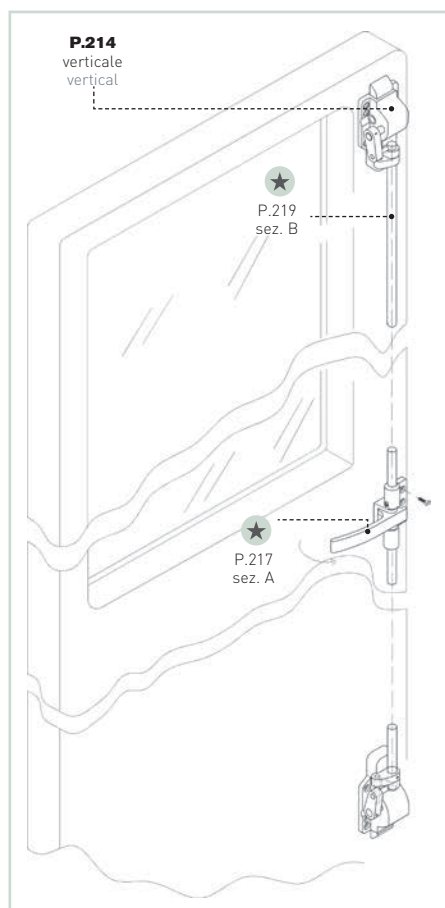
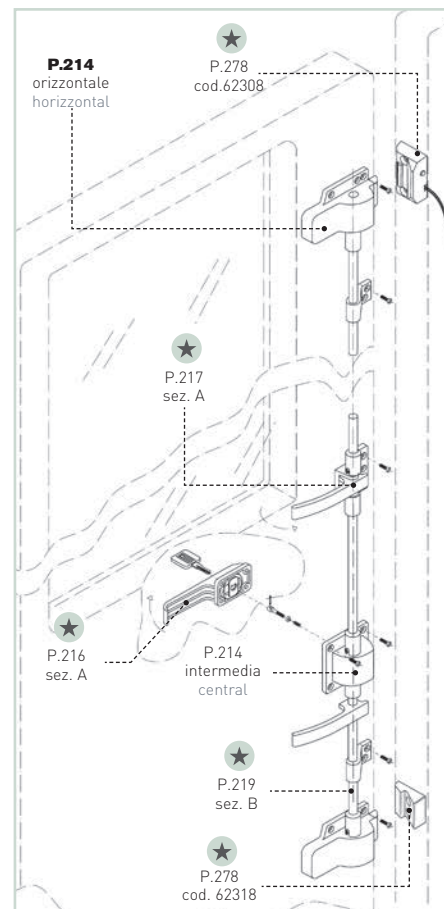
## P.214

### Esempi d'applicazione - Examples of application



Solitamente, le serrandole vengono utilizzate come sistema di chiusura per le porte di uscita passeggeri; sono composte da un cursore, azionato da una molla, che si ritrae od estende nelle funzioni di apertura/chiusura. Questo movimento può essere comandato da un perno azionato da apposite aste, da impugnatura solidale alla serrandola, da tiranti azionabili da impugnatura all'esterno del veicolo. Le serrandole, inoltre, possono essere equipaggiate da perni di sicurezza per evitare l'apertura accidentale dall'interno del veicolo. Tutte queste soluzioni, nate dalle più diverse necessità dei nostri clienti, hanno dato vita a una vasta gamma di serrandole, che verranno illustrate di seguito all'interno di diversi esempi di applicazioni per meglio evidenziare le caratteristiche sopra descritte.

Locking gears are usually used as a locking system for the doors that passengers use for an exit. They are made up of a slider worked by a spring that is squashed or extended depending on whether the door is open or shut. This movement can be controlled by a pin which is moved by its rods, by a grip attached to the locking gear, by pulls moved by a grip on the outside of the vehicle. The locking gears can also have security pins to ensure that the lock cannot be accidentally opened from inside the vehicle. All these solutions, which have been designed for the different needs of our customers, have created a large number of locking gears. These will be illustrated below in several different examples for their use so that the characteristics described above can be clearly understood.



# P.214

## ■ Accessori - Accessories P.277

Questo particolare funziona da collegamento tra la maniglia P.216 e il tirante corto (n. 10 pag. B10) delle serrandole P.214, per poter aprire il sistema di sicurezza dall'esterno dell'autobus. La lunghezza del perno, va scelta in base alla distanza (L) tra i due particolari.

This part works as a connection between P.216 handle and the short tie rod (n.10 pag.10) of P.214 locking gears, to allow the opening of the emergency system from outside of the bus. The length of the P.277 tie rod has to be chosen according to the distance (L) between the two parts.

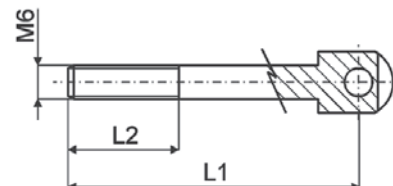


## Normative - Norms

R107.8; REACH (SCIP number at page B2-B3); ROHS3, CMR.

More info on page B2-B3 and website on "Directives and regulations" area.

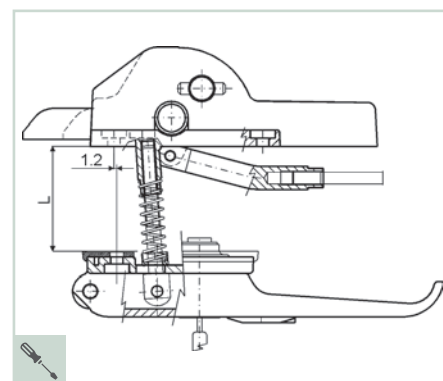
| Cod.  | L1   | L2 | n° |
|-------|------|----|----|
| 61479 | 52,3 | 20 | 20 |
| 62288 | 62,3 | 30 | 20 |
| 62298 | 72,3 | 30 | 20 |
| 67628 | 82,3 | 50 | 20 |



## ■ Fissaggio - Fixing P.277

1. Inserire la rondella in ottone dalla parte filettata del tirante
2. Aggiungere la molla inserendola nella sede della rondella
3. Avvitare il P.277 nel tirante corto del P.214
4. Svitare il perno filettato già predisposto nella P.216
5. Unire il P.277 alla maniglia P.216, facendo passare il perno filettato nel foro della testa del P.277

1. Insert the brass washer from the threaded side of the tie rod
2. Add the spring by inserting it in the washer's seat
3. Screw the P.277 into the short tie rod of P.214
4. Unscrew the threaded pin already predisposed into P.216 handle
5. Join the P.277 to P.216 handle, passing the threaded pin through the hole on the head of P.277



## ■ Accessori - Accessories P.278

1. P.278 con micro: il riscontro è dotato di due denti; il primo viene spinto dal cursore della serrandola e sollecita il micro, il secondo garantisce il bloccaggio della serrandola. Inoltre, l'impulso può portare un segnale sino alla plancia-comandi dell'autista, accendendo eventualmente una spia luminosa (P.149 - Sez. F).

2. P.278 senza micro: il riscontro è dotato di due denti; il primo è di sicurezza, il secondo garantisce il bloccaggio della serrandola quando la porta si chiude

1. P.278 with micro-switch: the striker is equipped with two tooth; the first one is pushed by the slider of the locking gear and it activates the micro-switch; the second one guarantees the locking of the gear.

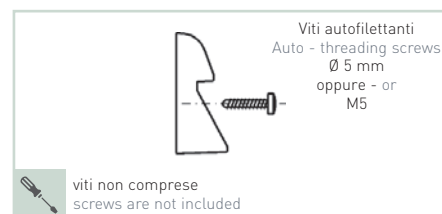
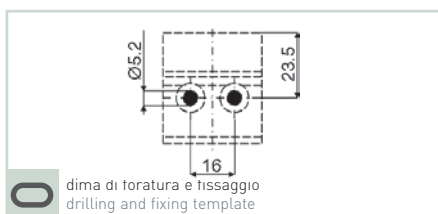
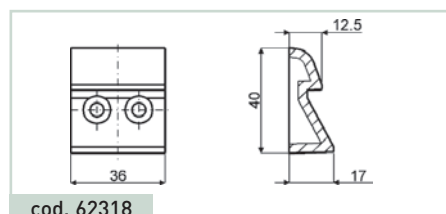
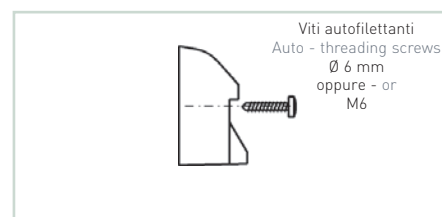
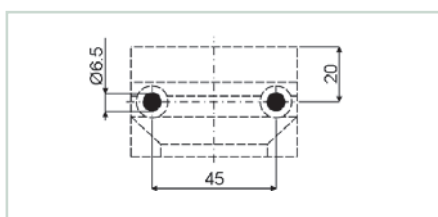
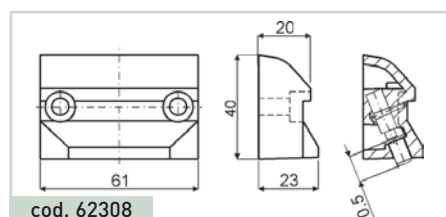
Moreover, this impulse can carry a signal to the driver's command-board, eventually lightening up a warning light (P.149 - Sez. F)

2. P.278 without micro-switch: the striker is equipped with two tooth; the first one is for safety; the second one guarantees the locking of the gear when the door is closed.



## P.278

| Cod.  | Tipo - Type                  | n° | dm   | g     |
|-------|------------------------------|----|------|-------|
| 62308 | con micro<br>with micro      | 20 | 5,32 | 1.400 |
| 62318 | senza micro<br>without micro | 20 | 0,89 | 300   |



## P.335



### Materiale - Material

Corpo serrandola in resina acetica, componenti metallici in acciaio zincato -  
Acetalic resin locking gear body, zinc-plated steel metallic components



### Colore - Color

Corpo serrandola bianco -  
White locking gear body



### Pezzi confezione - Package items

25 pezzi - pieces



### Volume confezione - Package volume

12,85 dm<sup>3</sup>



### Peso confezione - Package weight

9.000 g



### SP0 Ricambi - Spare parts

-



### Accessori - Accessories

-



### Carico di rottura - Breakup load

-



### Temp. di esercizio - Working temp.

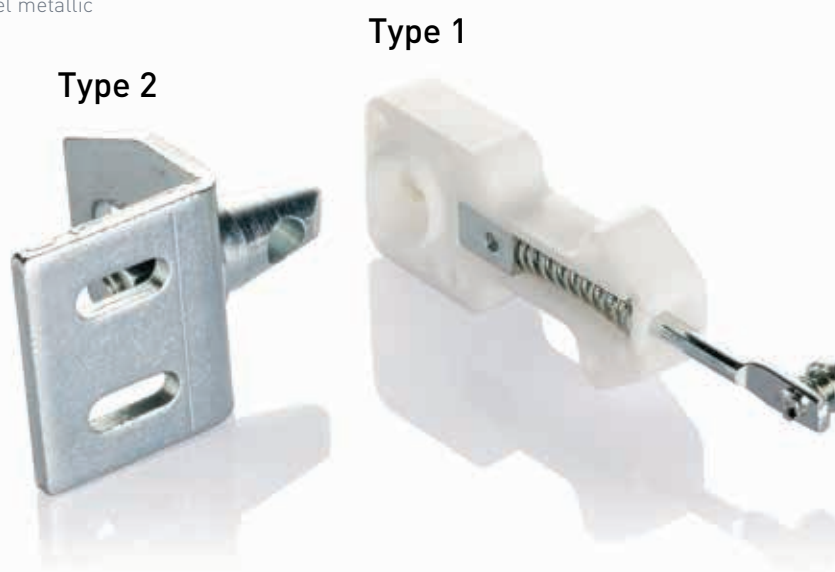
-10/+120 °C



LEX

### Normative - Norms

R107.8; REACH (SCIP numbers at page B2-B3); ROHS; CMR.  
More info on page B2-B3 and website on "Directives and regulations" area.



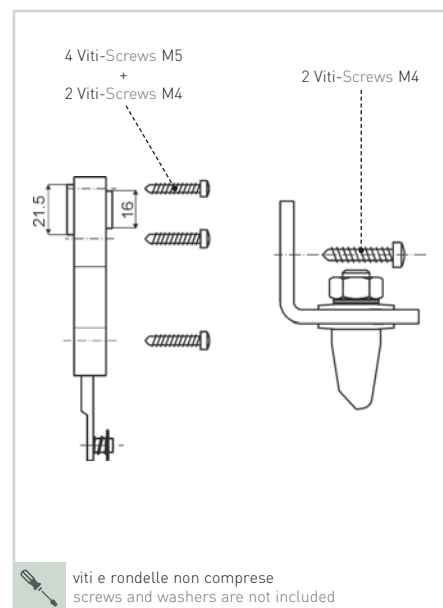
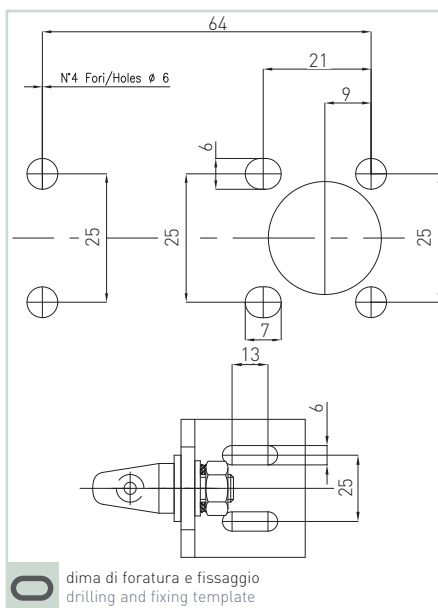
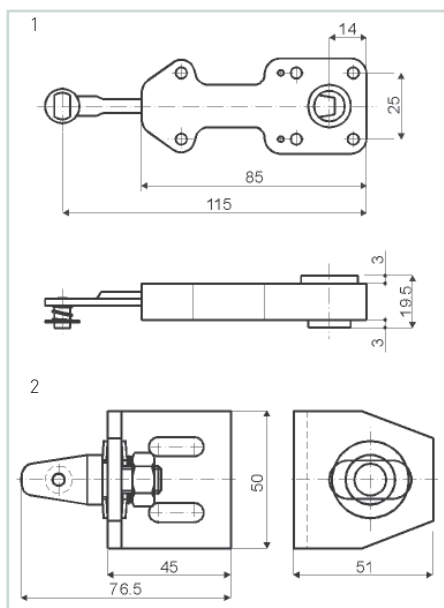
## P.335

| Cod.  | Tipo - Type | dm <sup>3</sup> | g     | Min |
|-------|-------------|-----------------|-------|-----|
| 60839 | 1           | 6,55            | 4.800 |     |
| 60849 | 2           | 6,55            | 4.800 | 100 |
| 64861 | 1+2         | 12,85           | 5.500 | 100 |

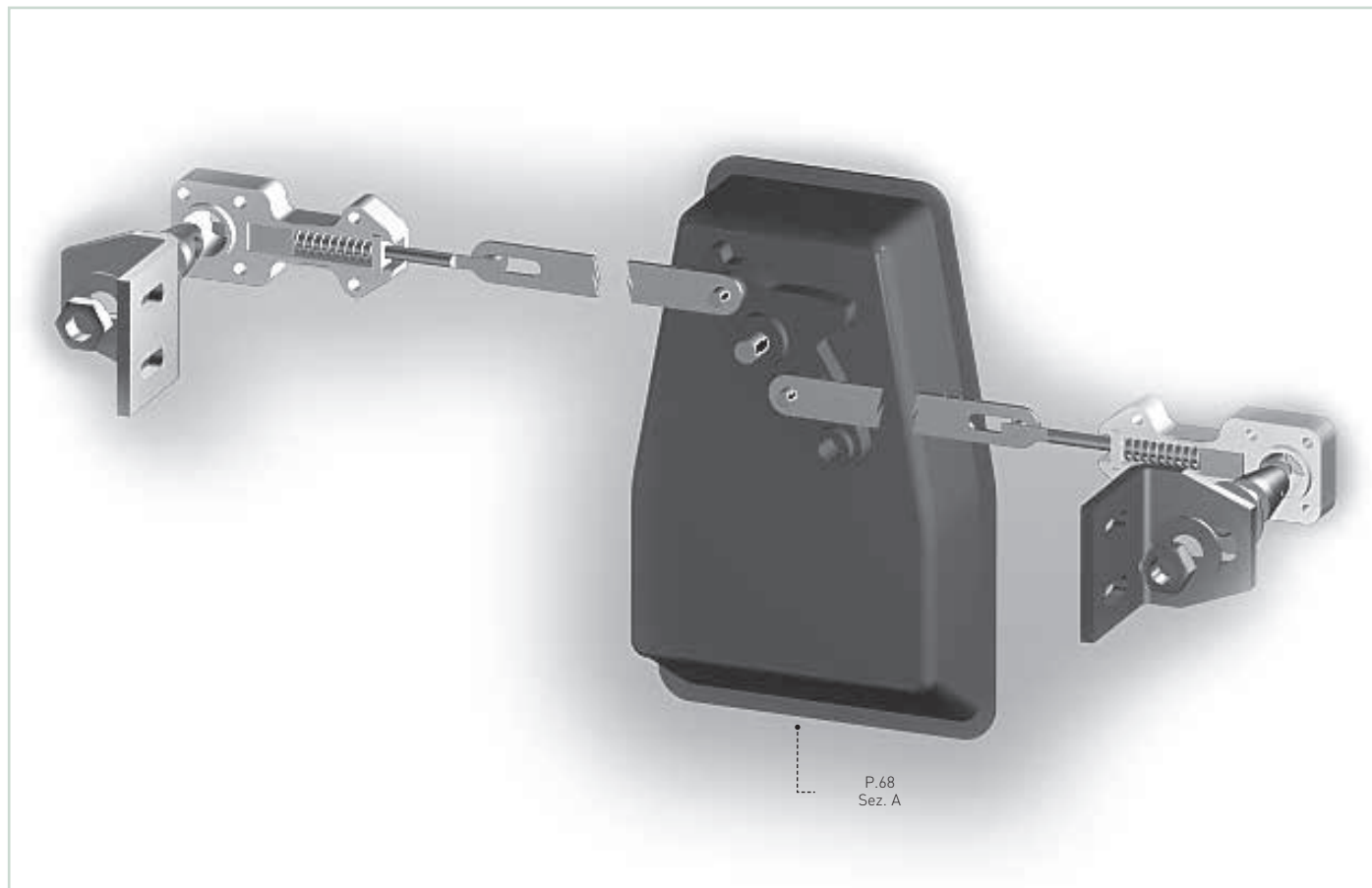


lotto minimo d'acquisto - minimum purchasing lot

## P.335



### Esempi d'applicazione - Examples of application



Le aste piatte raffigurate in questi esempi, hanno il solo scopo di rappresentazione delle applicazioni, ma non sono fornite a corredo dalla ditta PRIMA Industries.  
The plate rods shown in these examples have the only purpose to explain the applications, but they are not supplied as accessories by PRIMA Industries.

## P.219



### Materiale - Material

Asta in acciaio verniciato, componenti plastici  
in Poliammide fibra vetro -  
Painted steel rod, glass fibre PA plastic elements



### Colore - Color

Nero - Black



### Pezzi confezione - Package items

secondo codice - according to item code



### Volume confezione - Package volume

secondo codice - according to item code



### Peso confezione - Package weight

secondo codice - according to item code



### Ricambi - Spare parts

vedi sez. tecnica - see technical section



### Accessori - Accessories

vedi sez. tecnica - see technical section



### Carico di rottura - Breakup load

-



### Temp. di esercizio - Working temp.

-10/+120 °C



### Normative - Norms

R107.8; REACH; ROHS; CMR.

More info on page B2-B3 and website on "Directives and regulations" area.



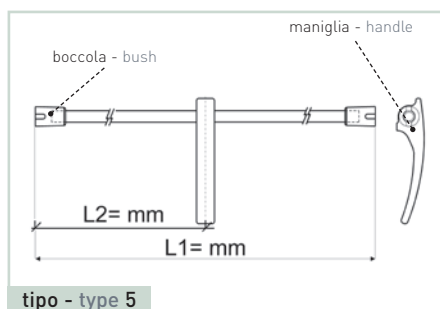
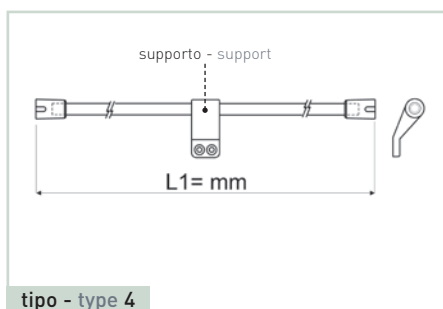
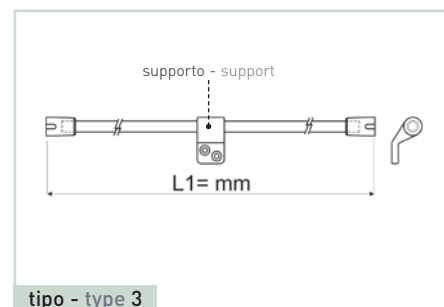
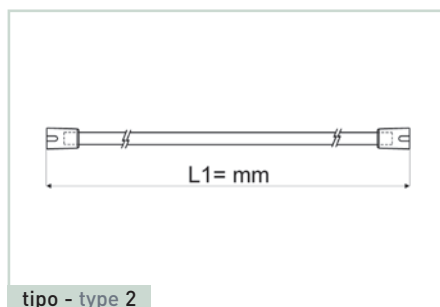
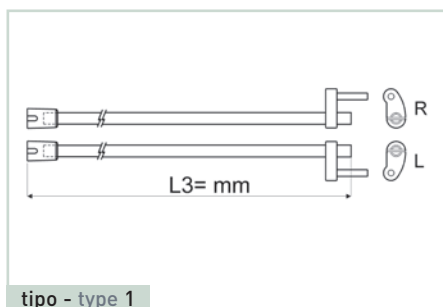
## P.219

| Cod.  | L1   | L2  | L3   | Tipo - Type                     |                                   |   |                 |    |  |  |  |  |  |
|-------|------|-----|------|---------------------------------|-----------------------------------|---|-----------------|----|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--|
|       |      |     |      | Asta per serrandole verticali   | Asta per serrandole orizzontali   |   |                 |    |                                                                                       |                                                                                       |                                                                                       |                                                                                       |  |
|       |      |     |      | Rods for vertical locking gears | Rods for horizontal locking gears |   |                 |    |                                                                                       |                                                                                       |                                                                                       |                                                                                       |  |
|       |      |     |      | 1                               | 2                                 | 3 | 4               | 5  |                                                                                       |                                                                                       |                                                                                       |                                                                                       |  |
| 67759 |      |     | 607  | R                               |                                   |   |                 |    | 10                                                                                    | 22,4                                                                                  | 2.900                                                                                 | 50                                                                                    |  |
| 65578 |      |     | 916  | R                               |                                   |   |                 |    | 10                                                                                    | 22,4                                                                                  | 4.350                                                                                 | 50                                                                                    |  |
| 60141 |      |     | 989  | R                               |                                   |   |                 |    | 10                                                                                    | 22,4                                                                                  | 4.700                                                                                 | 50                                                                                    |  |
| 67558 |      | 71  | 1200 | R                               |                                   |   |                 | •  | 10                                                                                    | 34,8                                                                                  | 6.000                                                                                 | 50                                                                                    |  |
| 65588 |      |     | 916  | L                               |                                   |   |                 |    | 10                                                                                    | 22,4                                                                                  | 4.350                                                                                 | 50                                                                                    |  |
| 60131 |      |     | 989  | L                               |                                   |   |                 |    | 10                                                                                    | 22,4                                                                                  | 4.700                                                                                 | 50                                                                                    |  |
| 67687 | 360  |     |      |                                 | •                                 |   |                 |    | 10                                                                                    | 10,2                                                                                  | 1.300                                                                                 | 50                                                                                    |  |
| 67077 | 413  |     |      |                                 | •                                 |   |                 |    | 10                                                                                    | 10,2                                                                                  | 1.500                                                                                 | 50                                                                                    |  |
| 67677 | 780  |     |      |                                 | •                                 |   |                 |    | 10                                                                                    | 22,4                                                                                  | 2.800                                                                                 | 50                                                                                    |  |
| 62758 | 1000 |     |      |                                 | •                                 |   |                 |    | 10                                                                                    | 22,4                                                                                  | 3.600                                                                                 | 50                                                                                    |  |
| 67248 | 2000 |     |      |                                 | •A                                |   |                 |    | 12                                                                                    | 47,2                                                                                  | 7.500                                                                                 | 50                                                                                    |  |
| 62651 | 672  | 41  |      |                                 |                                   | • |                 | •  | 10                                                                                    | 22,4                                                                                  | 3.600                                                                                 | 50                                                                                    |  |
| 66938 | 840  | 41  |      |                                 |                                   | • |                 | •  | 10                                                                                    | 22,4                                                                                  | 4.600                                                                                 | 50                                                                                    |  |
| 62688 | 945  |     |      |                                 |                                   | • |                 |    | 10                                                                                    | 22,4                                                                                  | 5.200                                                                                 | 50                                                                                    |  |
| 62421 | 1200 | 41  |      |                                 |                                   | • |                 | •  | 10                                                                                    | 34,8                                                                                  | 6.600                                                                                 | 50                                                                                    |  |
| 67087 | 573  |     |      |                                 |                                   |   | •               |    | 10                                                                                    | 22,4                                                                                  | 2.300                                                                                 | 50                                                                                    |  |
| 62249 | 845  |     |      |                                 |                                   |   | special version |    | 10                                                                                    | 22,4                                                                                  | 3.500                                                                                 | 50                                                                                    |  |
| 67618 | 1300 |     |      |                                 |                                   |   | •               | •B | 10                                                                                    | 34,8                                                                                  | 5.200                                                                                 | 50                                                                                    |  |
| 66609 | 650  | 494 |      |                                 |                                   |   |                 | •  | 10                                                                                    | 22,4                                                                                  | 3.500                                                                                 | 50                                                                                    |  |
| 67788 | 750  | 71  |      |                                 |                                   |   |                 | •  | 10                                                                                    | 22,4                                                                                  | 4.100                                                                                 | 50                                                                                    |  |
| 67717 | 762  | 71  |      |                                 |                                   |   |                 | •  | 10                                                                                    | 22,4                                                                                  | 4.200                                                                                 | 50                                                                                    |  |
| 64308 | 780  | 71  |      |                                 |                                   |   |                 | •  | 10                                                                                    | 22,4                                                                                  | 4.300                                                                                 | 50                                                                                    |  |
| 62121 | 840  | 41  |      |                                 |                                   |   |                 | •  | 10                                                                                    | 22,4                                                                                  | 4.600                                                                                 | 50                                                                                    |  |

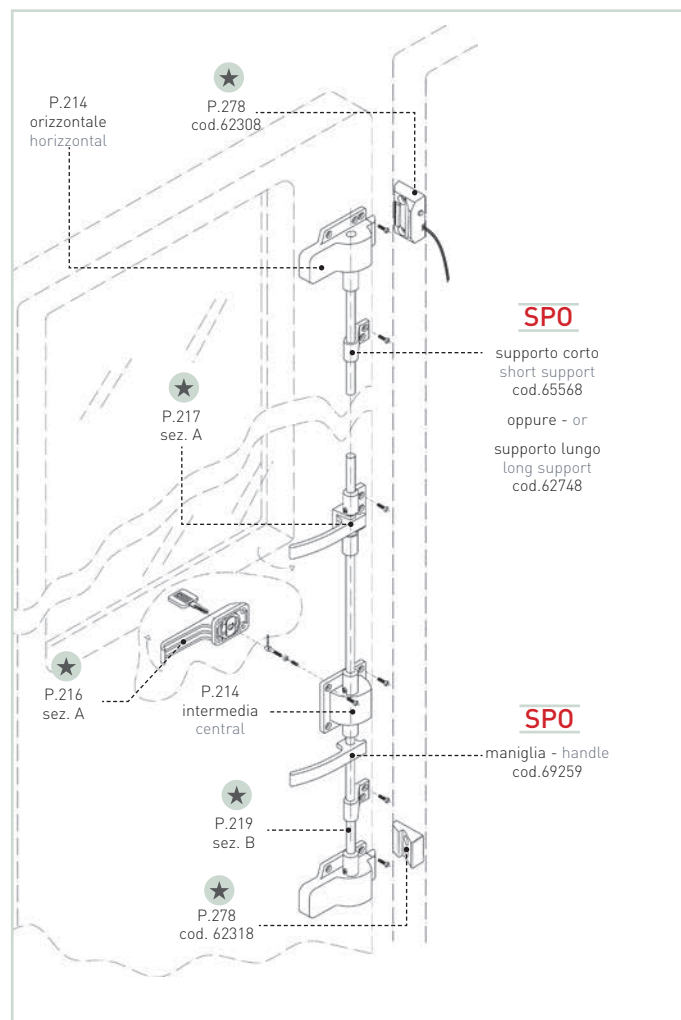
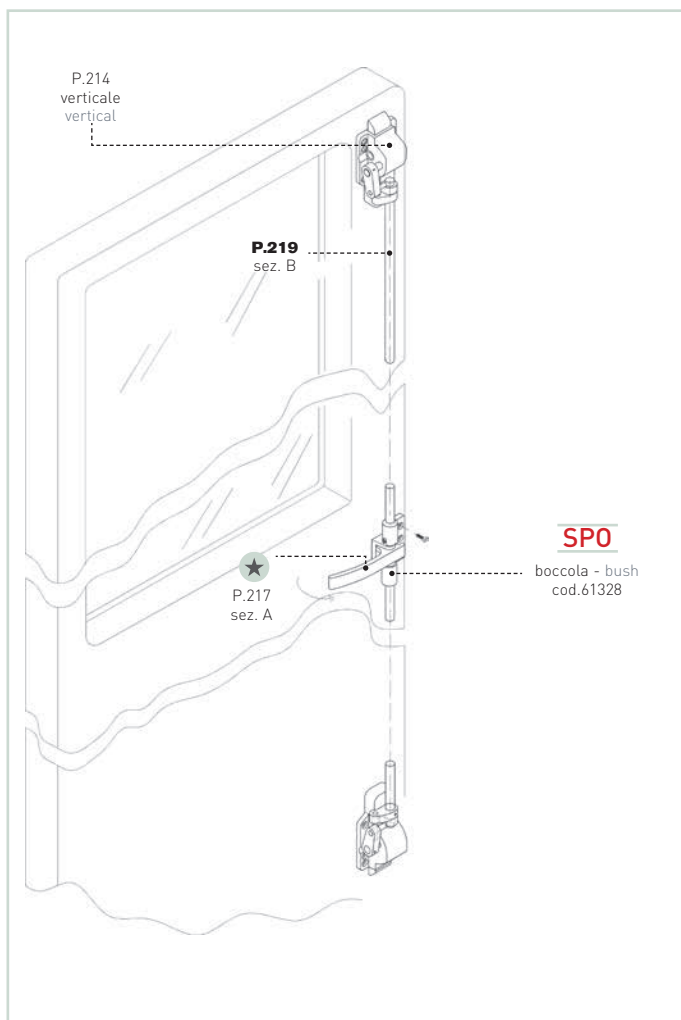
**A** Asta con solo una boccola - Rod with only one bush

**B** Maniglia scorrevole - Sliding handle

## P.219



### Esempi d'applicazione - Examples of application



## P.99



**Materiale - Material**  
Acciaio Inox Aisi 304 -  
Stainless steel Aisi 304



**Colore - Color**  
-



**Pezzi confezione - Package items**  
secondo codice - according to item code



**Volume confezione - Package volume**  
secondo codice - according to item code



**Peso confezione - Package weight**  
secondo codice - according to item code



**Ricambi - Spare parts**  
-



**Accessori - Accessories**  
vedi sez. tecnica - see technical section



**Carico di rottura - Breakup load**  
-



**Temp. di esercizio - Working temp.**  
-10/+120 °C



**Normative - Norms**  
R107.8; REACH; ROHS; CMR.  
More info on page B2-B3 and website on "Directives and regulations" area.

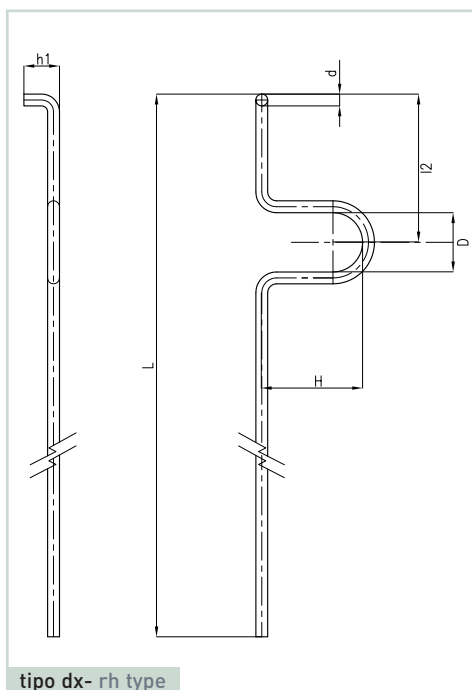
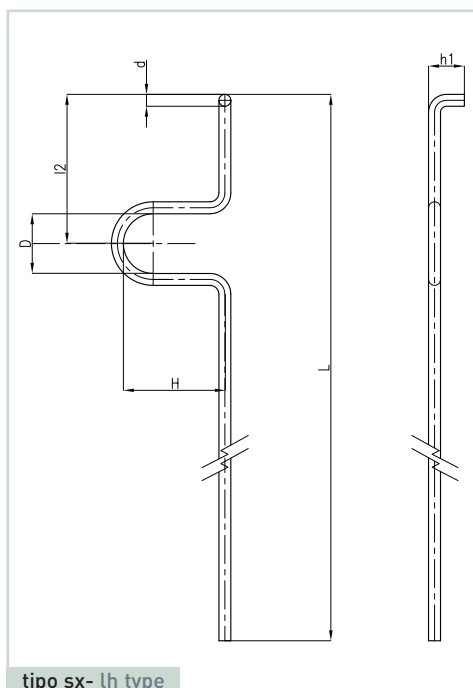


## P.99

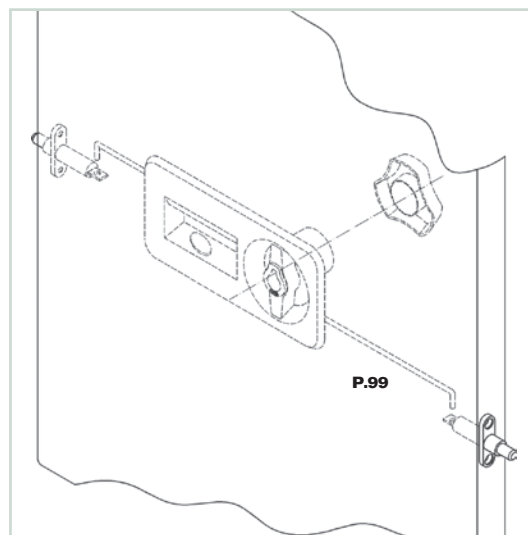
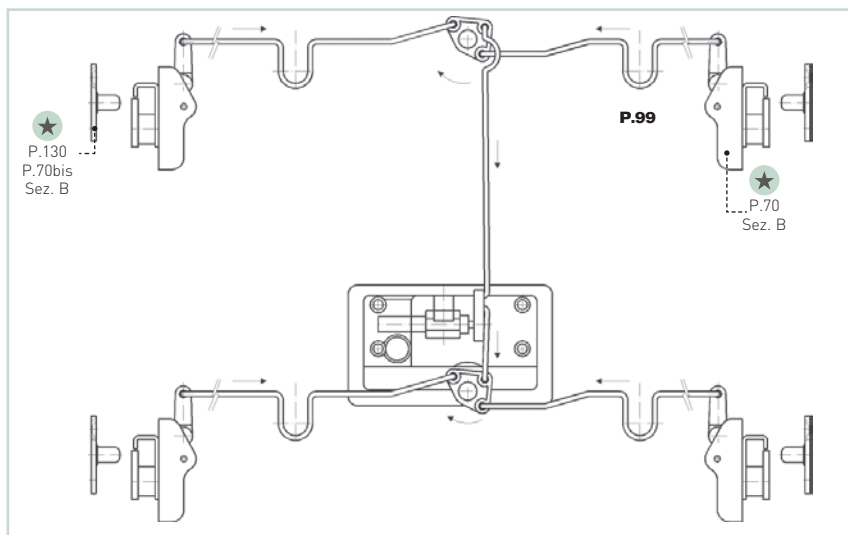
| Cod.  | Tipo - Type | L    | l1 | l2 | H  | h1 | h2 | D  | d | n° | dm   | g     | Min |
|-------|-------------|------|----|----|----|----|----|----|---|----|------|-------|-----|
| 66828 | dx - rh     | 1000 | -  | 36 | 40 | 12 | -  | 20 | 4 | 25 | 22,4 | 3.400 | 250 |
| 66838 | sx - lh     | 1000 | -  | 46 | 40 | 12 | -  | 20 | 4 | 25 | 22,4 | 3.400 | 250 |

Si eseguono aste a disegno su richiesta del cliente (q.tà min 500 pezzi)  
On request it is possible to supply rods based on customer's drawing (min. q.ty 500 pieces)

## P.99



### Esempi d'applicazione - Examples of application



## P.70



### Materiale - Material

Acciaio zincato - Zinc-plated steel



### Colore - Color

Nero - Black



### Pezzi confezione - Package items

25 pezzi - pieces



### Volume confezione - Package volume

6,55 dm<sup>3</sup>



### Peso confezione - Package weight

7.800 g



### SP0 Ricambi - Spare parts

vedi sez. tecnica - see technical section



### Accessori - Accessories

vedi sez. tecnica - see technical section



### Carico di rottura - Breakup load

1.200 N



### Temp. di esercizio - Working temp.

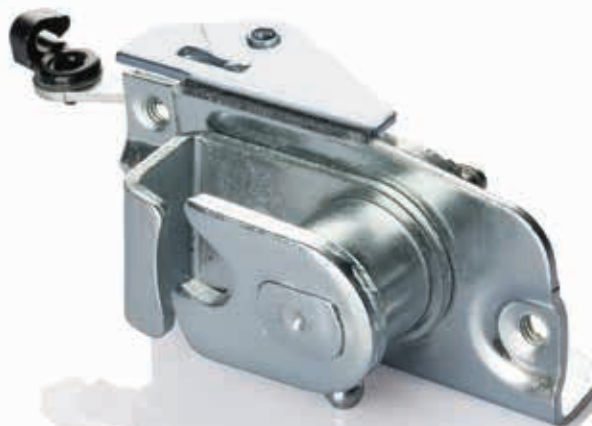
-10/+120 °C



### LEX Normative - Norms

R107.8; REACH; ROHS; CMR.

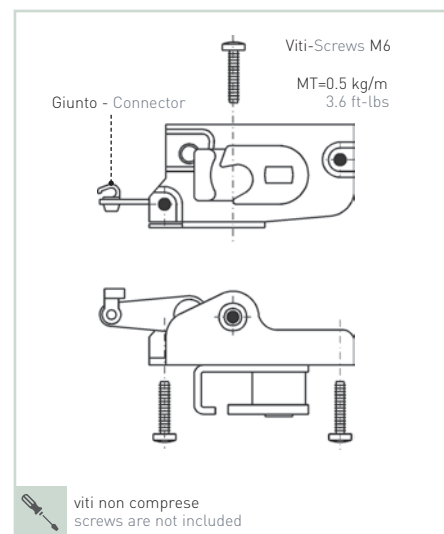
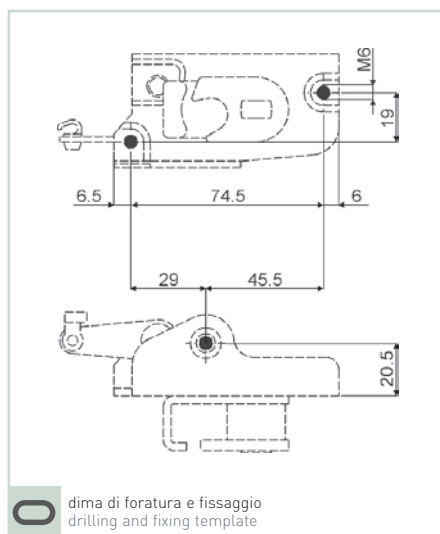
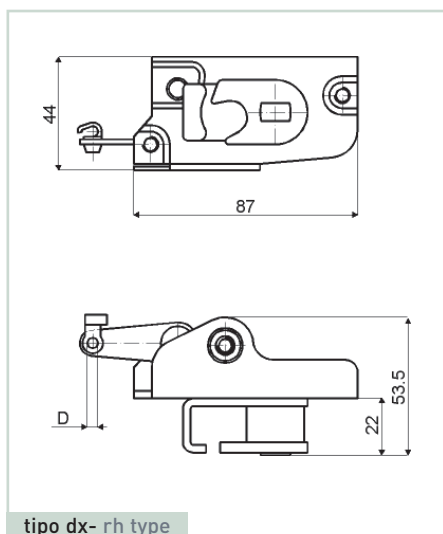
More info on page B2-B3 and website on "Directives and regulations" area.



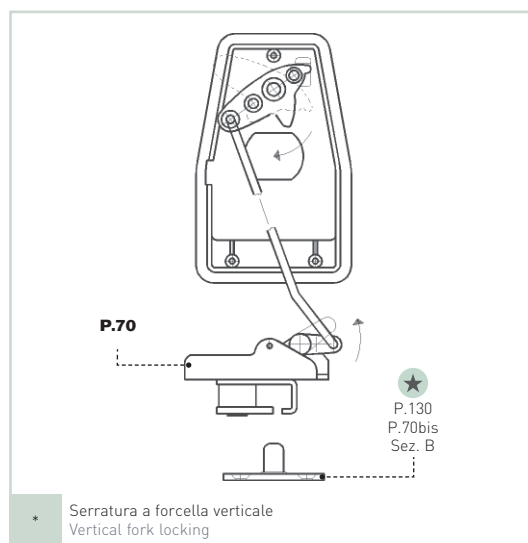
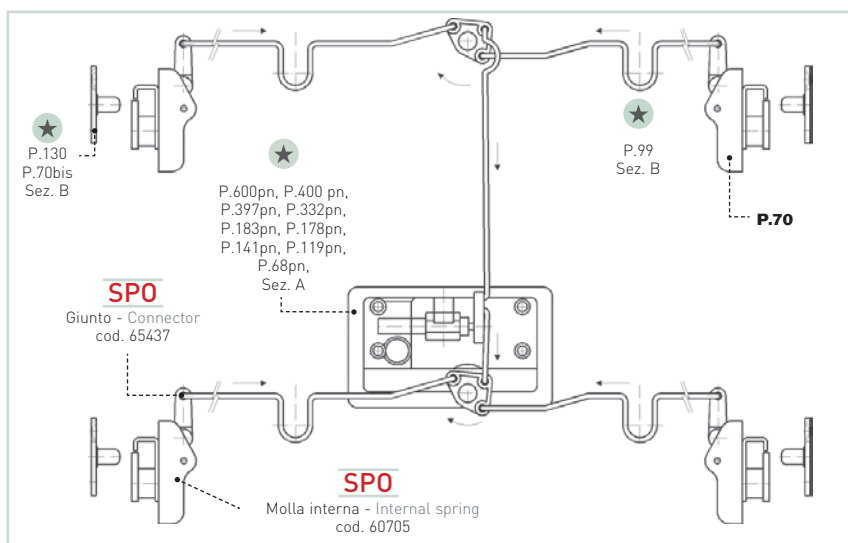
## P.70

| Cod.  | Tipo - Type | Giunto - Connector | D | Ingrassatore - Lubricator |
|-------|-------------|--------------------|---|---------------------------|
| 66940 | dx - rh     | •                  | 4 | -                         |
| 51700 | sx - lh     | •                  | 4 | -                         |
| 67218 | dx - rh     | -                  | 8 | -                         |
| 67208 | sx - lh     | -                  | 8 | -                         |
| 64967 | dx - rh     | •                  | 4 | •                         |
| 64957 | sx - lh     | •                  | 4 | •                         |

## P.70



### Esempi d'applicazione - Examples of application



## P.62



### Materiale - Material

Acciaio zincato, forcella di serraggio ricoperta in PA -  
Zinc-plated steel, locking fork covered in PA



### Colore - Color

Nero - Black



### Pezzi confezione - Package items

25 pezzi - pieces



### Volume confezione - Package volume

22,38 dm<sup>3</sup>



### Peso confezione - Package weight

10.000 g



### Ricambi - Spare parts

vedi sez. tecnica - see technical section



### Accessori - Accessories

vedi sez. tecnica - see technical section



### Carico di rottura - Breakup load

-



### Temp. di esercizio - Working temp.

-10/+120 °C



### Normative - Norms

R107.8; REACH; ROHS; CMR.

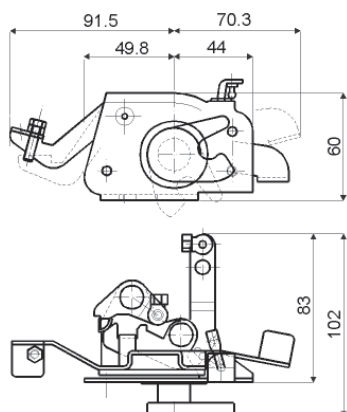
More info on page B2-B3 and website on "Directives and regulations" area.



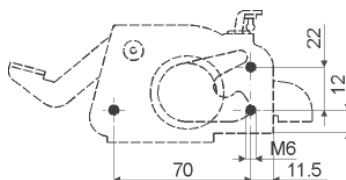
## P.62

| Cod.  | Tipo - Type |
|-------|-------------|
| 65532 | dx - rh     |
| 66374 | sx - lh     |

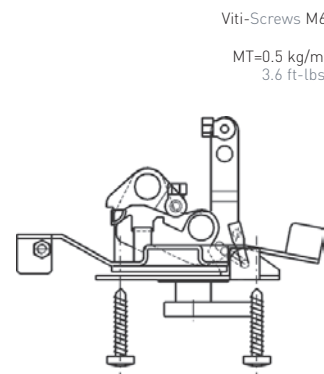
## P.62



tipo dx- rh type

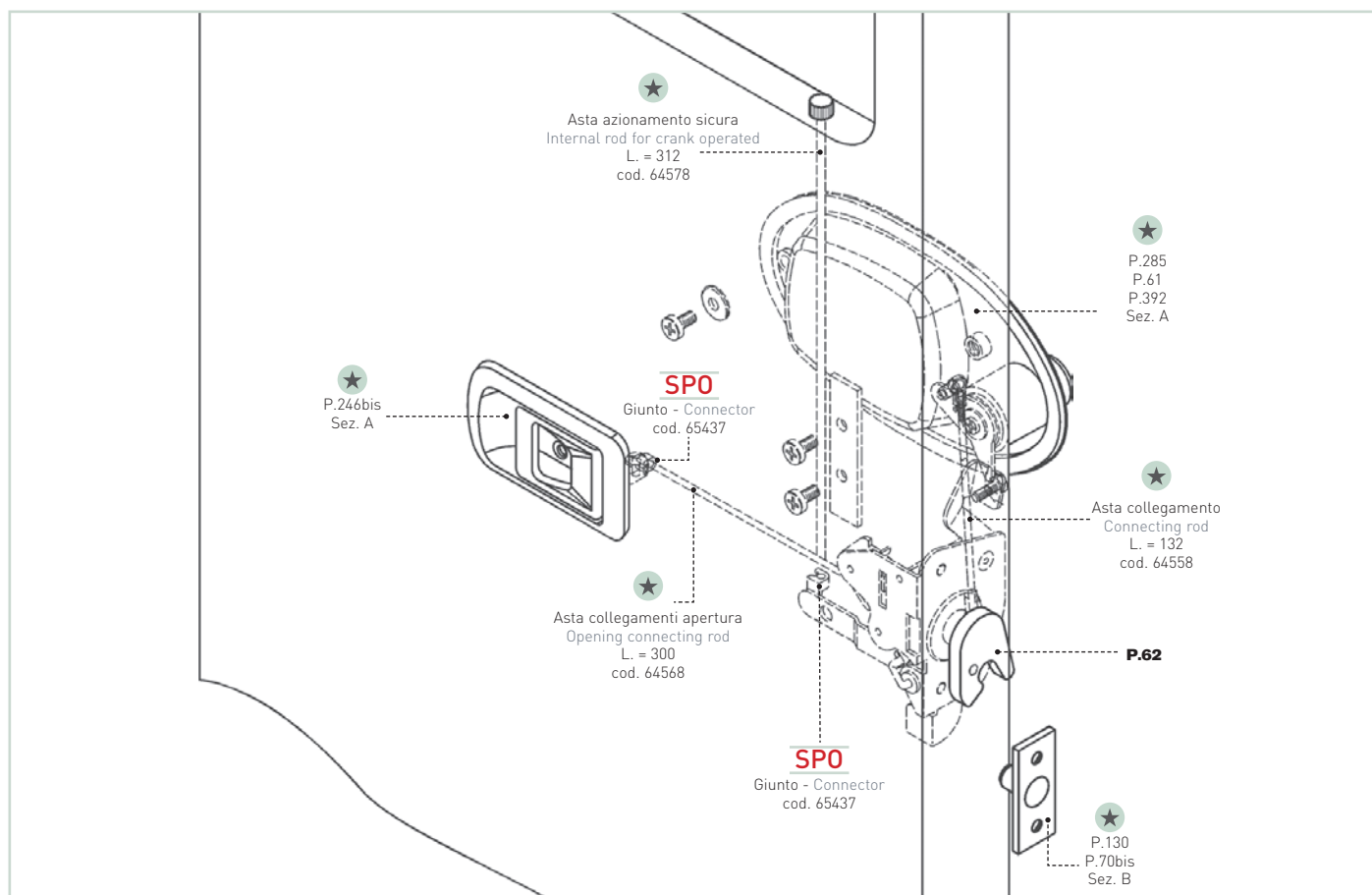


**O** dima di foratura e fissaggio  
drilling and fixing template



viti non comprese  
screws are not included

### Esempi d'applicazione - Examples of application



# Perno di riscontro - Control pin

## P.70bis



### Materiale - Material

Acciaio zincato - Zinc-plated steel



### Colore - Color

-



### Pezzi confezione - Package items

50 pezzi - pieces



### Volume confezione - Package volume

2,76 dm<sup>3</sup>



### Peso confezione - Package weight

secondo codice - according to item code



### SP0 Ricambi - Spare parts

-



### Accessori - Accessories

pag. B31



### Carico di rottura - Breakup load

-



### Temp. di esercizio - Working temp.

-10/+120 °C



LEX

### Normative - Norms

R107.8; REACH; ROHS; CMR.

More info on page B2-B3 and website on "Directives and regulations" area.

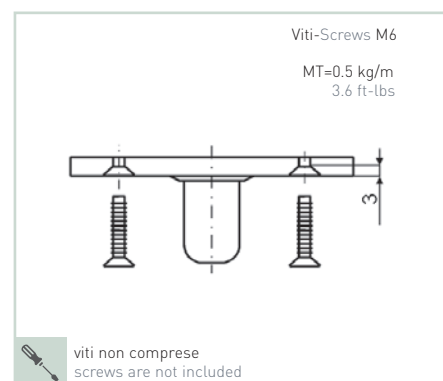
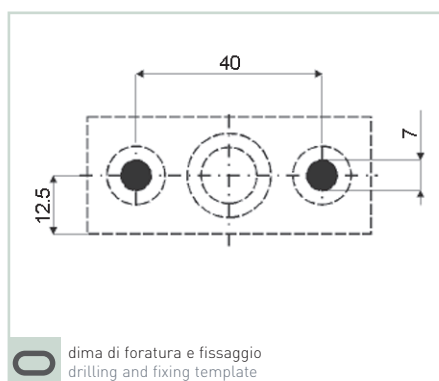
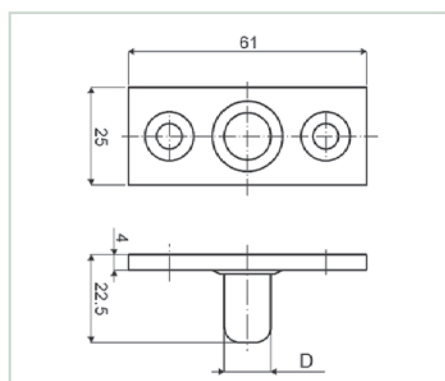


### P.70bis

| Cod.  | D      | Impiego - Use   |       |
|-------|--------|-----------------|-------|
| 64548 | ø10 mm | con - with P.62 | 2.800 |
| 64981 | ø12 mm | con - with P.70 | 3.020 |

## Sezione tecnica - Technical section

### P.70bis



# Perno di riscontro - Control pin

## P.130



### Materiale - Material

Acciaio zincato - Zinc-plated steel



### Colore - Color

-



### Pezzi confezione - Package items

50 pezzi - pieces



### Volume confezione - Package volume

2,76 dm<sup>3</sup>



### Peso confezione - Package weight

3.600 g



### Ricambi - Spare parts

-



### Accessori - Accessories

pag. B31



### Carico di rottura - Breakup load

-



### Temp. di esercizio - Working temp.

-10/+120 °C



### Normative - Norms

R107.8; REACH; ROHS; CMR.

More info on page B2-B3 and website on "Directives and regulations" area.

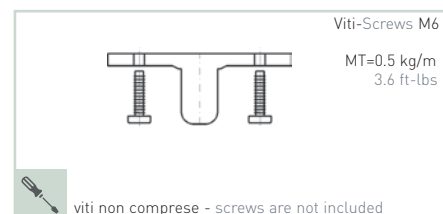
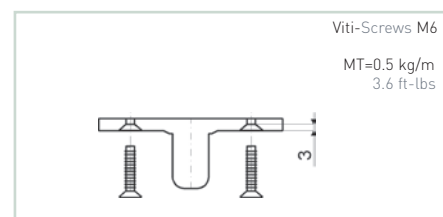
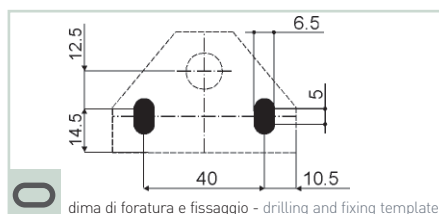
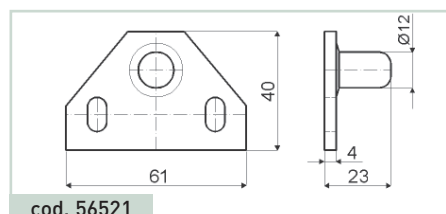
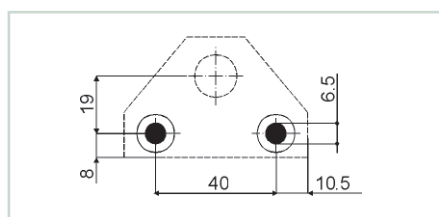
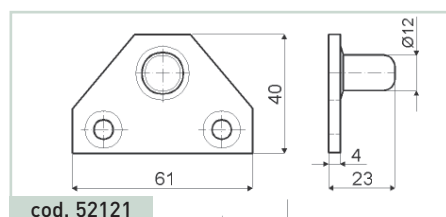


## P.130

| Cod.  | Tipo - Type                    |
|-------|--------------------------------|
| 52121 | con fori - with holes          |
| 56521 | con asole - with slotted holes |

## Sezione tecnica - Technical section

## P.130



# Serratura a molla - Clasp lock

## P.271



### Materiale - Material

Acciaio zincato, forcella di serraggio in acetale - Zinc plated steel, acetalic resin locking fork



### Colore - Color

-



### Pezzi confezione - Package items

50 pezzi - pieces



### Volume confezione - Package volume

22,38 dm<sup>3</sup>



### Peso confezione - Package weight

19.000 g



### SP0 Ricambi - Spare parts

-



### Accessori - Accessories

-



### Carico di rottura - Breakup load

-



### Temp. di esercizio - Working temp.

-10/+120 °C



### LEX Normative - Norms

R107.8; REACH (SCIP number at page B2-B3); ROHS; CMR.  
More info on page B2-B3 and website on "Directives and regulations" area.



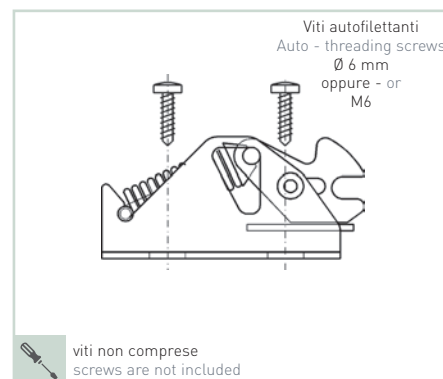
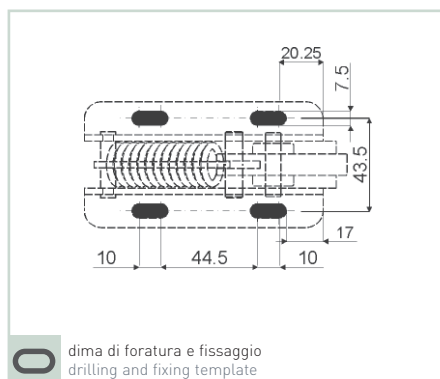
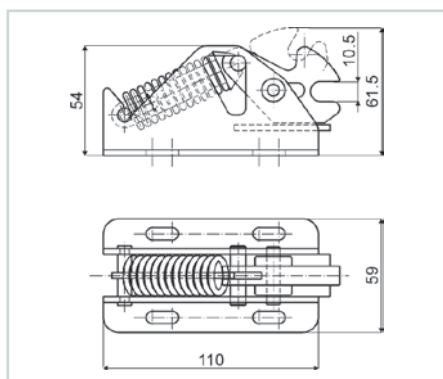
## P.271

Cod.

62238

# Sezione tecnica - Technical section

## P.271



# Serratura a molla - Clasp lock

## P.20 - P.21



### Materiale - Material

Acciaio zincato, forcella di serraggio in PA - Zinc-plated steel, PA locking fork



### Colore - Color

-



### Pezzi confezione - Package items

50 pezzi - pieces



### Volume confezione - Package volume

secondo codice - according to item code



### Peso confezione - Package weight

secondo codice - according to item code



### Ricambi - Spare parts

-



### Accessori - Accessories



### Carico di rottura - Breakup load

-



### Temp. di esercizio - Working temp.

-10/+120 °C



### Normative - Norms

R107.8; REACH (SCIP number at page B2-B3); ROHS; CMR.  
More info on page B2-B3 and website on "Directives and regulations" area.



### P.20

### serratura a molla - clasp lock

#### Cod.

69777



6,55



3.300

### P.21

### perno di riscontro - control pin

#### Cod.

69787



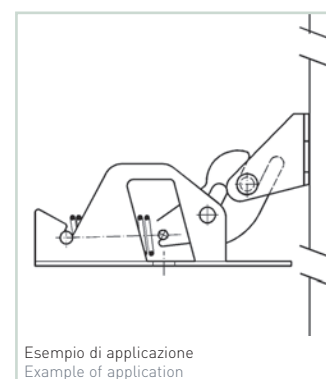
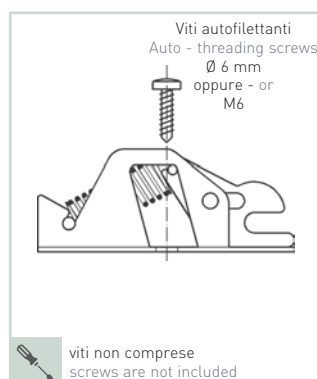
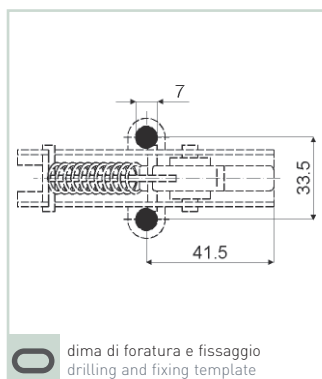
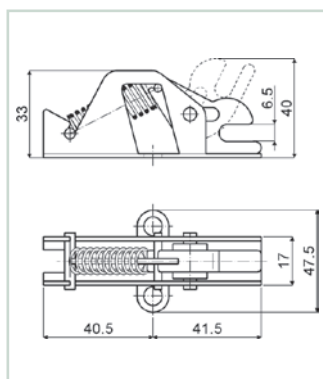
0,89



780

# Sezione tecnica - Technical section

## P.20 - P.21



# Perno di chiusura - Locking pin

## P.238



### Materiale - Material

Perno in acciaio zincato - zinc-plated steel pin  
Corpo in PA6+FG - Body in PA6+FG



### Colore - Color

-



### Pezzi confezione - Package items

20 pezzi - pieces



### Volume confezione - Package volume

2,10 dm<sup>3</sup>



### Peso confezione - Package weight

200 g



### Ricambi - Spare parts

Giunto - Connector cod. 65437



### Accessori - Accessories

vedi sez. tecnica - see technical section



### Carico di rottura - Breakup load

-



### Temp. di esercizio - Working temp.

-10/+120 °C



### Normative - Norms

R107.8; REACH; ROHS; CMR.

More info on page B2-B3 and website on "Directives and regulations" area.

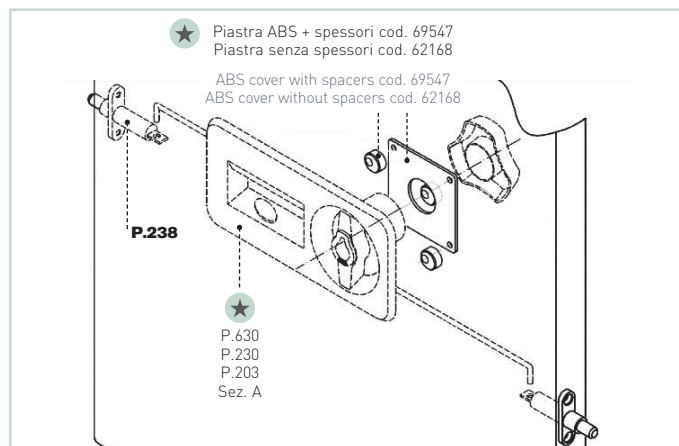
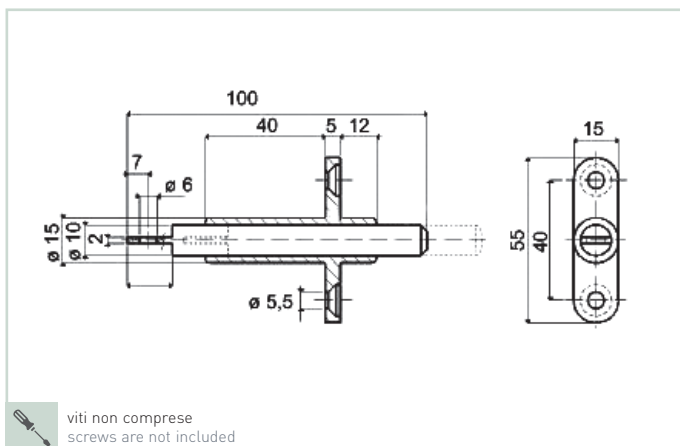
## P.238

Cod.

67967

## Sezione tecnica - Technical section

## P.238





# Cerniera - Hinge

## P.322



### Materiale - Material

Componenti in acciaio Inox -  
Stainless steel metallic components



### Colore - Color

-



### Pezzi confezione - Package items

50 pezzi - pieces



### Volume confezione - Package volume

6,55 dm<sup>3</sup>



### Peso confezione - Package weight

secondo codice - according to item code



### SP0 Ricambi - Spare parts

-



### Accessori - Accessories

-



### Carico di rottura - Breakup load

-



### Temp. di esercizio - Working temp.

-10/+120 °C



### LEX Normative - Norms

R107.8; REACH; ROHS; CMR.

More info on page B2-B3 and website on "Directives and regulations" area.



## P.322

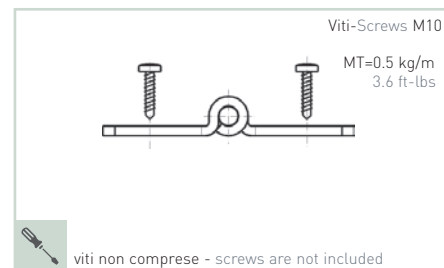
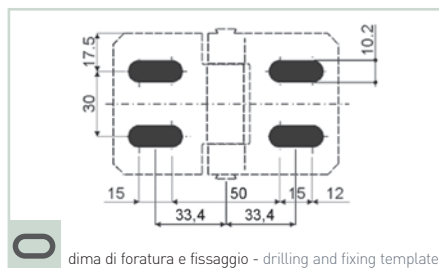
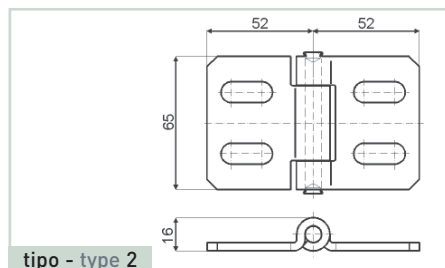
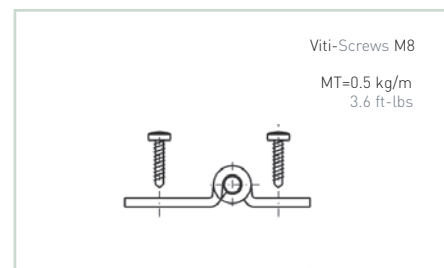
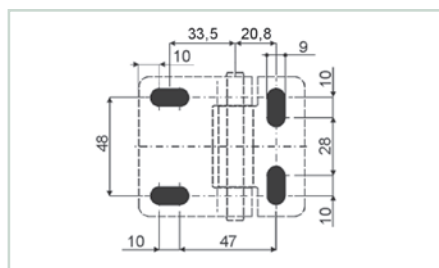
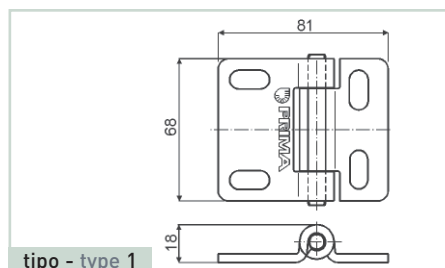
| Cod.  | Tipo - Type                        | g      | Min |
|-------|------------------------------------|--------|-----|
| 68218 | 1 con logo Prima - with Prima logo | 11.000 |     |
| 67678 | 1 no logo - anonymous              | 11.000 | 200 |
| 63729 | 2 no logo - anonymous              | 12.000 |     |



lotto minimo d'acquisto - minimum purchasing lot

## Sezione tecnica - Technical section

## P.322



## P.295



**Materiale - Material**  
PA fibra vetro - Glass fibre PA



**Colore - Color**  
Nero - Black



**Pezzi confezione - Package items**  
50 pezzi - pieces



**Volume confezione - Package volume**  
secondo codice - according to item code



**Peso confezione - Package weight**  
secondo codice - according to item code



**Ricambi - Spare parts**  
-



**Accessori - Accessories**  
-



**Carico di rottura - Breakup load**  
-



**Temp. di esercizio - Working temp.**  
-10/+120 °C



**Normative - Norms**  
R107.8; REACH; ROHS; CMR.  
More info on page B2-B3 and website on "Directives and regulations" area.



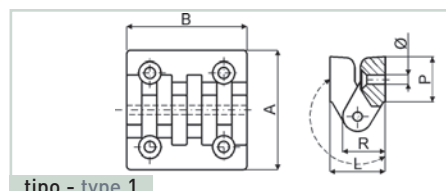
### P.295

| Cod.  | Tipo-Type | A (mm) | B (mm) | L (mm) | L2 (mm) | M  | Ø (mm) | R (mm) | P (mm) | D    | C    | dm   | g     | Min |
|-------|-----------|--------|--------|--------|---------|----|--------|--------|--------|------|------|------|-------|-----|
| 64488 | 1         | 38,8   | 39,5   | 19,3   | -       |    | 4,2    | 14,5   | 13,8   | 25   | 25   | 2,76 | 800   | 50  |
| 64498 | 1         | 48     | 49     | 25,2   | -       |    | 5,5    | 19     | 17,1   | 31   | 30,5 | 6,55 | 2.100 | 50  |
| 64508 | 1         | 64     | 65     | 29,5   | -       |    | 6,5    | 22,8   | 23,8   | 40   | 40   | 6,55 | 3.000 | 50  |
| 62888 | 2         | 48     | 49     | 25,2   | -       | M5 | -      | 19     | 17,4   | 30,5 | 31   | 2,76 | 2.100 | 50  |
| 64518 | 3         | 48     | 49     | 25,2   | 14,2    | M5 | -      | 19     | 17,2   | 30,5 | 31   | 6,55 | 2.400 | 50  |

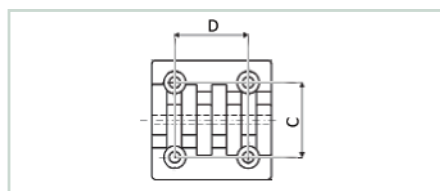
lotto minimo d'acquisto - minimum purchasing lot

## Sezione tecnica - Technical section

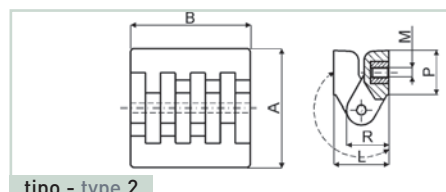
### P.295



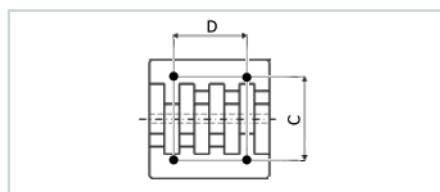
tipo - type 1



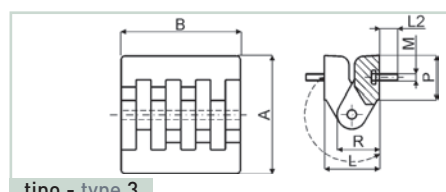
Viti autofilettanti o metriche non comprese, da scegliere con dimensioni adeguate al prodotto acquistato (vedi tabella commerciale)



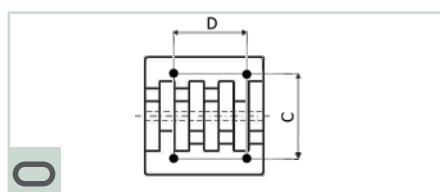
tipo - type 2



Viti metriche non comprese, da scegliere con dimensioni adeguate al prodotto acquistato (vedi tabella commerciale)



tipo - type 3



Dadi e rondelle non comprese, da scegliere con dimensioni adeguate al prodotto acquistato (vedi tabella commerciale)



# Scontrino - Pin vanger

## P.301



**Materiale - Material**  
Poliammide - Polyamide



**Colore - Color**  
Nero - Black



**Pezzi confezione - Package items**  
100 pezzi - pieces



**Volume confezione - Package volume**  
6,55 dm<sup>3</sup>



**Peso confezione - Package weight**  
1.100 g



**SP0 Ricambi - Spare parts**  
-



**Accessori - Accessories**  
-



**Carico di rottura - Breakup load**  
-



**Temp. di esercizio - Working temp.**  
-10/+120 °C



**LEX Normative - Norms**  
R107.8; REACH; ROHS; CMR.  
More info on page B2-B3 and website on "Directives and regulations" area.



### P.301

**Cod.**

65628



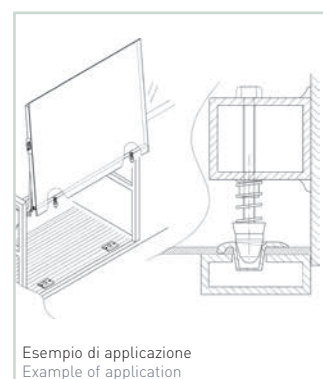
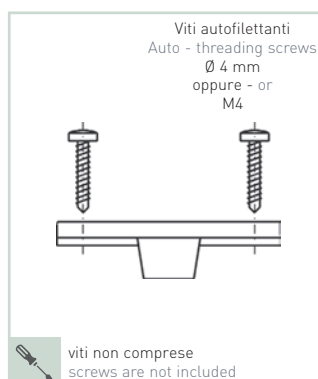
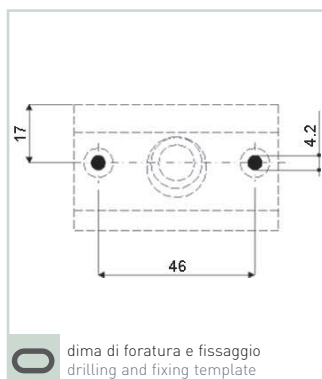
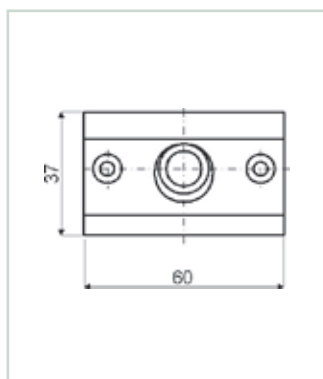
500



lotto minimo d'acquisto - minimum purchasing lot

## Sezione tecnica - Technical section

### P.301



## P.294



### Materiale - Material

Corpo in polipropilene, inserti in ottone -  
Polypropylene body, brass inserts



### Colore - Color

Nero - Black



### Pezzi confezione - Package items

50 pezzi - pieces



### Volume confezione - Package volume

5,32 dm<sup>3</sup>



### Peso confezione - Package weight

secondo codice - according to item code

### SP

### Ricambi - Spare parts

-



### Accessori - Accessories

-



### Carico di rottura - Breakup load

-



### Temp. di esercizio - Working temp.

-10/+120 °C



### Normative - Norms

R107.8; REACH; ROHS; CMR.

More info on page B2-B3 and website on "Directives and regulations" area.



## P.294

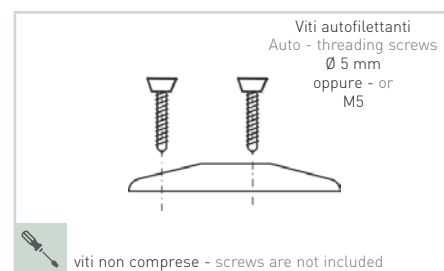
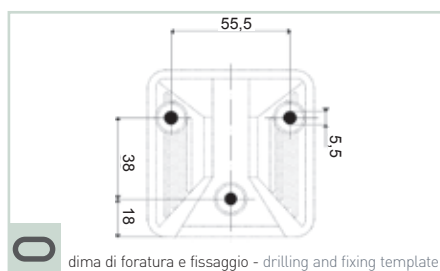
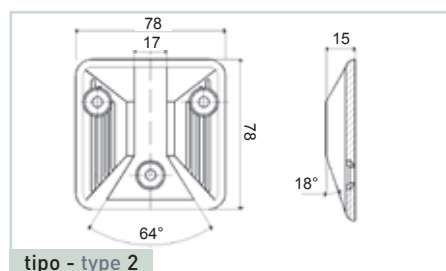
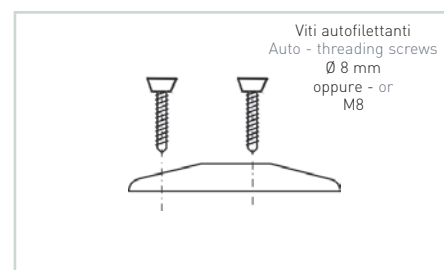
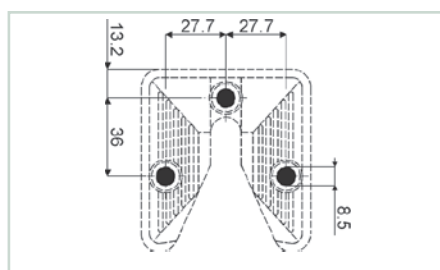
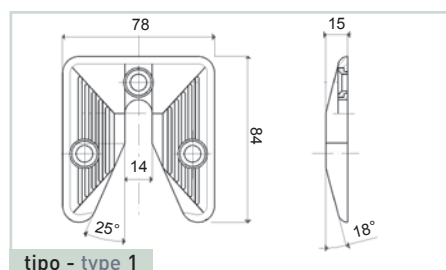
| Cod.  | Tipo - Type |       |     |
|-------|-------------|-------|-----|
| 62828 | 1           | 2.300 | 100 |
| 65698 | 2           | 2.200 | 100 |



lotto minimo d'acquisto - minimum purchasing lot

## Sezione tecnica - Technical section

## P.294



# P.510M



**Materiale - Material**  
Acciaio - Steel



**Colore - Color**  
Metallo - Metal



**Pezzi confezione - Package items**  
Secondo componenti - According to components



**Volume confezione - Package volume**  
Secondo componenti - According to components



**Peso confezione - Package weight**  
Secondo componenti - According to components



**Ricambi - Spare parts**  
Vedi sezione tecnica - See technical section



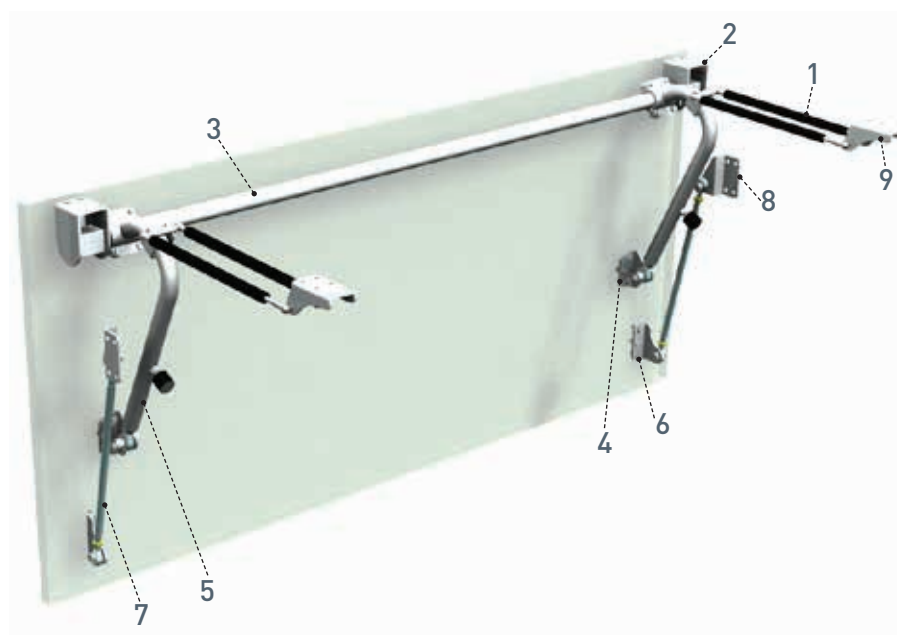
**Accessori - Accessories**  
Vedi sezione tecnica - See technical section



**Ciclo vita - Life cycle**  
100.000 azionamenti - actions



**Normative - Norms**  
R107.8; REACH; ROHS; CMR.  
More info on page B2-B3 and website on  
"Directives and regulations" area.



## P.510 Kit base - Basic kit (2, 3, 4, 6, 8, 9)

| Cod.  |       |   |
|-------|-------|---|
| 60242 | 6.500 | 1 |



lotto minimo d'acquisto - minimum purchasing lot

## P.510 Kit leveraggi - Levers kit (5, 7)

| Cod.  | H [mm]      |       |   |
|-------|-------------|-------|---|
| 60252 | 750 ÷ 950   | 3.600 | 1 |
| 60262 | 950 ÷ 1100  | 4.500 | 1 |
| 60272 | 1100 ÷ 1300 | 5.000 | 1 |
| 60282 | 1300 ÷ 1500 | 5.800 | 1 |

I leveraggi devono essere scelti a seconda dell'altezza del portellone  
Levers to be chosen depending on the overall door height

H Altezza portellone - Overall door height

10 Possibile fornitura del portellone su richiesta. Per maggiori informazioni contattare l'ufficio commerciale di PRIMA Industries  
Possible supply of the door on request. For further information please contact PRIMA Industries sales department

## P.510 Molle a gas - Gas springs (1)

| Cod.  | Carico molla - Spring load (Kg) |     |   |
|-------|---------------------------------|-----|---|
| 60342 | 40                              | 370 | 1 |
| 60352 | 45                              | 370 | 1 |
| 60952 | 50                              | 370 | 1 |
| 60362 | 55                              | 370 | 1 |
| 60372 | 60                              | 400 | 1 |
| 60962 | 65                              | 400 | 1 |
| 60382 | 70                              | 400 | 1 |

La scelta delle molle deve essere fatta dal cliente in base all'applicazione. Per maggiori informazioni contattare l'ufficio commerciale di PRIMA Industries  
The choice of the gas springs must be made by the customer depending on the application. For further information please contact PRIMA Industries sales department

| Id. | Descrizione - Description                                                                                      | Q.tà - Q.ty                |
|-----|----------------------------------------------------------------------------------------------------------------|----------------------------|
| (1) | Molla a gas (vedi Tab. 1) - Gas spring (see Tab. 1)                                                            | 2/4 pz - pcs               |
| (2) | Supporto laterale ambidestro, con terminale sostegno tubo - Lateral support with self-aligning bearing         | 2 pz - pcs                 |
| (3) | Tubo in barra - Tube bars 1.500 mm                                                                             | 1 pz - pc                  |
| (4) | Staffa portellone attacco braccio di rotazione - Door side bracket for rotating arms                           | 2 pz - pcs                 |
| (5) | Bracci di rotazione (in funzione dell'altezza del portellone) - Rotating arms (depending on the door's height) | 2 pz - pcs                 |
| (6) | Staffa portellone attacco tirante - Door side bracket for tie rod                                              | 1 pz - pc R + 1 pz - pc L* |
| (7) | Tirante di registrazione - Tie rod                                                                             | 2 pz - pcs                 |
| (8) | Staffa telaio attacco tirante - Frame side bracket for tie rod                                                 | 1 pz - pc R + 1 pz - pc L* |
| (9) | Staffa supporto molla a gas - Bracket for gas springs                                                          | 2 pz - pcs                 |

\*R = Right/Destra \*L = Left/Sinistra

## P.510M

ClassicDOOR M è un sistema a pantografo manuale pratico ed economico per movimentare i portelloni degli autobus da turismo. Esso consiste in un tubo (3) che ruota su due boccole (2), mentre due bracci di spinta (5) aprono il portellone. Le due aste di registrazione (7) assicurano la stabilità durante la chiusura del pantografo, mentre alcune molle a gas (1) regolarizzano il portellone durante la chiusura e lo mantengono nella corretta posizione una volta chiuso.

In più le molle a gas contribuiscono a bilanciare e mantenere fluido il movimento di apertura. I supporti di fissaggio universali (8) sono provvisti di differenti punti di fissaggio per connettere i 4 kit di leveraggi disponibili, che devono essere scelti in base all'altezza del portellone (H).

Il kit include anche i supporti (4 e 6) per il fissaggio del portellone (regolabili in funzione delle dimensioni e forma del portellone) ed i supporti per il fissaggio delle molle a gas (9), che permettono un corretto posizionamento delle molle, in modo da garantire il perfetto funzionamento del sistema di apertura del portellone.

ClassicDOOR M pantograph system is a practical and economic method for the opening of coach luggage compartment doors. It consists of a tube (3) that rotates on two bearings (2), while two lever arms (5) open the door. The two rectifying shafts (7) ensure the stability during the closing of the pantograph, while some gas springs (1) brake the door during its closing and they maintain the door in the right position once it's closed.

Moreover the gas springs contribute to balance and keep smooth the opening movement. The universal fixing brackets include (8) different fixing points to connect the 4 available lever sets, that must be chosen conformly to the door height (H). The kit includes also the brackets (4 and 6) for the fixing to the hatch (to be adapted depending on the hatch dimensions and shape) and the gas spring supports (9), that permit a correct positioning of the springs, for a perfect working of the door opening system.

La fornitura e la scelta dei componenti del sistema vanno fatte rispettando i seguenti passi:

The supply and the choice of the components of the system must be done respecting the following steps:

### STEP 1

#### Dimensioni del portellone - Door's dimensions

Altezza portellone (H): tra 750 e 1.500 mm - Door's height (H): between 750 and 1.500 mm

Lunghezza portellone: nessun limite - Door's length: no limit

#### Peso del portellone - Door's weight

Peso consigliato: da 10 a 30 Kg max / Suggested weight: from 10 up to 30 Kg max

### STEP 2

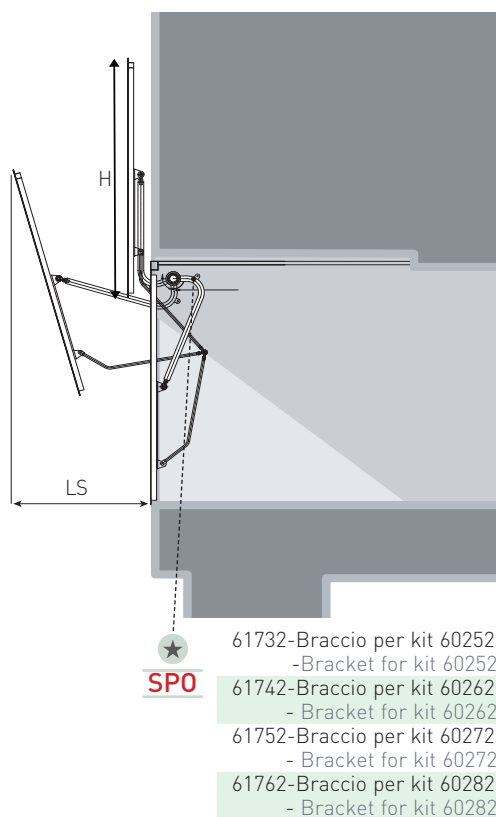
Scelta del kit base - Choosing of the basic kit

Scelta del kit leveraggi - Choosing of the levers set

Scelta delle molle a gas - Choosing of the gas springs

Lo spazio laterale richiesto (LS) per l'apertura va da min. 400 mm per portelloni alti 750 mm fino a max. 630 mm per portelloni alti 1.500 mm

The lateral space (LS) needed for the opening is from min. 400 mm for doors 750 mm highs to max. 630 mm for doors 1.500 mm highs



La scelta delle molle a gas tra quelle disponibili verrà fatta di volta in volta in base alla specifica configurazione del portellone ed al suo peso

The choice of the available gas springs will be done everytime depending on the specific configuration of the door and on its weight

## P.224



**Materiale - Material**  
Alluminio - Aluminium



**Colore - Color**  
Metallo - Metal



**Pezzi confezione - Package items**  
10 pezzi - pieces



**Volume confezione - Package volume**  
7 dm<sup>3</sup>



**Peso confezione - Package weight**  
1.460 g



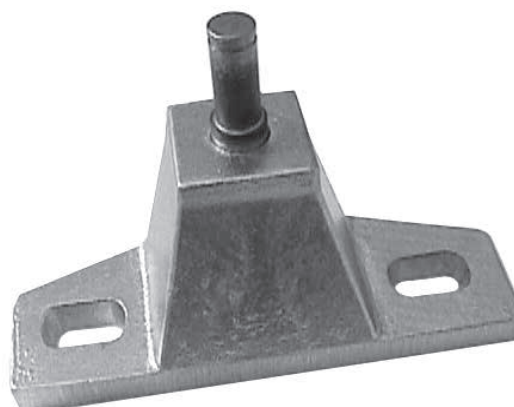
**Ricambi - Spare parts**  
Vedi sezione tecnica - See technical section



**Accessori - Accessories**  
Vedi sezione tecnica - See technical section



**Normative - Norms**  
R107.8; REACH; ROHS; CMR.  
More info on page B2-B3 and website on "Directives and regulations" area.



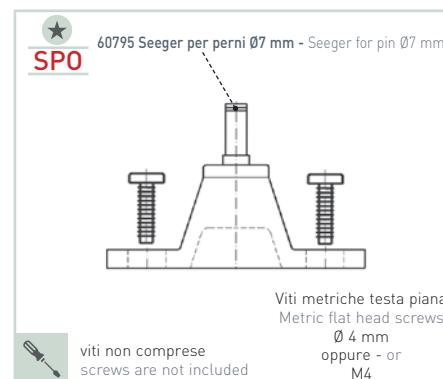
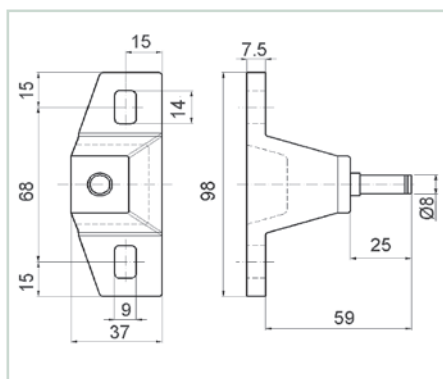
### P.224

Cod.

60168

## Sezione tecnica - Technical section

### P.224



## P.89



**Materiale - Material**  
Poliammide - Polyamide



**Colore - Color**  
Grigio - Grey RAL 7042



**Pezzi confezione - Package items**  
100 pezzi - pieces



**Volume confezione - Package volume**  
2,1 dm<sup>3</sup>



**Peso confezione - Package weight**  
400 g



**Ricambi - Spare parts**  
Vedi sezione tecnica - See technical section



**Carico di rottura - Breakup load**  
1.000 N



**Temp. di esercizio - Working temp.**  
-10/+120 °C



**Normative - Norms**  
R107.8; REACH; ROHS; CMR.  
More info on page B2-B3 and website on "Directives and regulations" area.



**B**

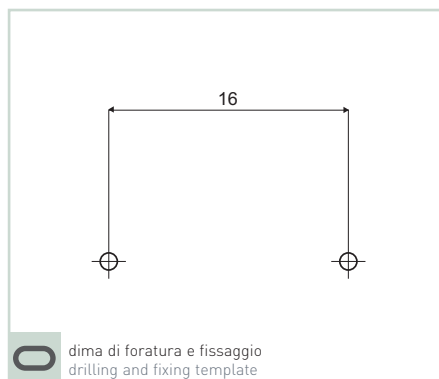
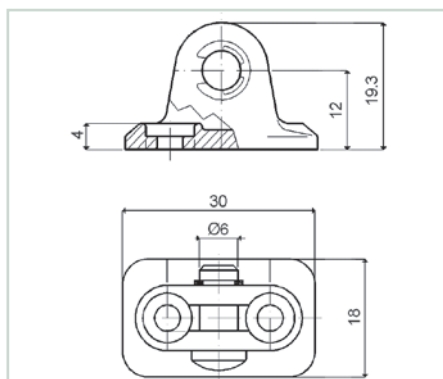
## P.89

Cod.

66737

# Sezione tecnica - Technical section

## P.89



## P.93



**Materiale - Material**  
Poliammide - Polyamide



**Colore - Color**  
Nero - Black



**Pezzi confezione - Package items**  
100 pezzi - pieces



**Volume confezione - Package volume**  
2,1 dm<sup>3</sup>



**Peso confezione - Package weight**  
1.300 g



**Ricambi - Spare parts**  
Vedi sezione tecnica - See technical section



**Carico di rottura - Breakup load**  
2.500 N



**Temp. di esercizio - Working temp.**  
-10/+120 °C



**Normative - Norms**  
R107.8; REACH; ROHS; CMR.  
More info on page B2-B3 and website on "Directives and regulations" area.



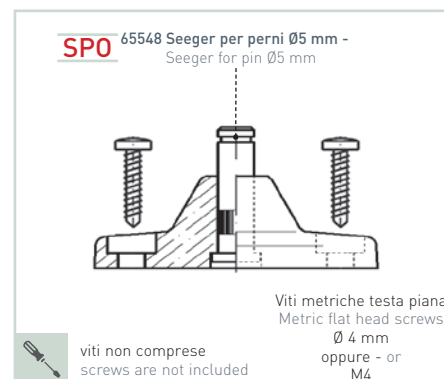
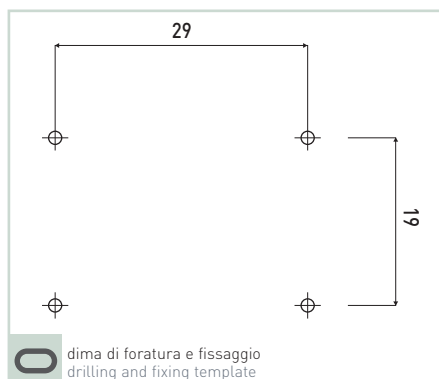
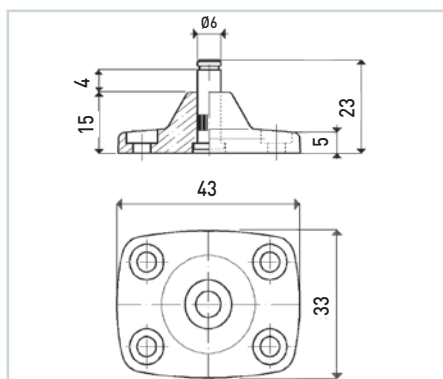
### P.93

Cod.

69797

## Sezione tecnica - Technical section

### P.93



## P.100



### Materiale - Material

Supporto in poliammide, perno in acciaio zincato - Polyamide support, zinc-plated steel pin



### Colore - Color

Nero - Black



### Pezzi confezione - Package items

100 pezzi - pieces



### Volume confezione - Package volume

7 dm<sup>3</sup>



### Peso confezione - Package weight

2.700 g



### Ricambi - Spare parts

Vedi sezione tecnica - See technical section



### Carico di rottura - Breakup load

4.500 N



### Temp. di esercizio - Working temp.

-10/+120 °C



### Normative - Norms

R107.8; REACH (SCIP number at page B2-B3); ROHS; CMR.  
More info on page B2-B3 and website on "Directives and regulations" area.



B

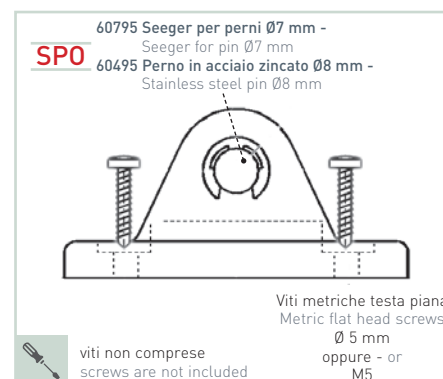
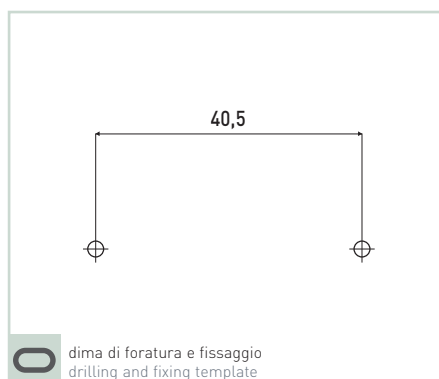
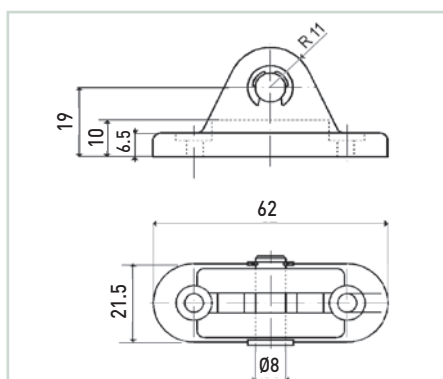
## P.100

Cod.

52100

## Sezione tecnica - Technical section

## P.100



## P.101



### Materiale - Material

Supporto e distanziale in poliammide super tenace, perno in acciaio zincato - Very strong polyamide support and washer, zinc-plated steel pin



### Colore - Color

Nero - Black



### Pezzi confezione - Package items

100 pezzi - pieces



### Volume confezione - Package volume

Secondo codice - According to item code



### Peso confezione - Package weight

Secondo codice - According to item code



### SPQ Ricambi - Spare parts

Vedi sezione tecnica - See technical section



### Carico di rottura - Breakup load

4.500 N



### Temp. di esercizio - Working temp.

-10/+70 °C



### LEX Normative - Norms

R107.8; REACH (SCIP number at page B2-B3); ROHS; CMR.

More info on page B2-B3 and website on "Directives and regulations" area.

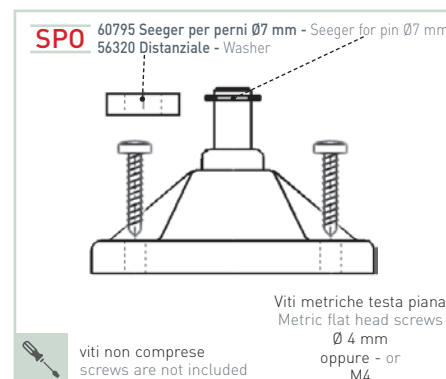
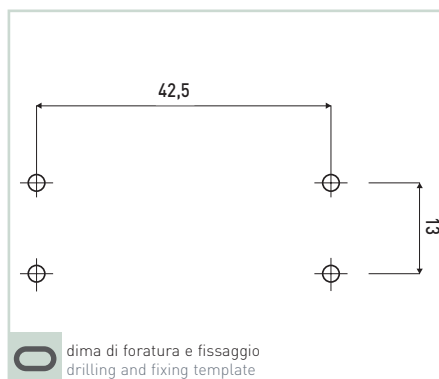
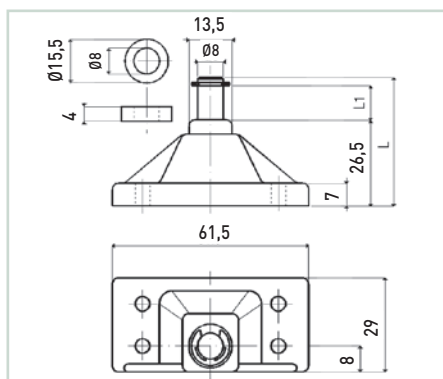


## P.101

| Cod.  | L mm | L1 mm | dm   | g     |
|-------|------|-------|------|-------|
| 52110 | 40   | 11    | 7    | 4.010 |
| 65831 | 48   | 19    | 12,7 | 4.260 |

## Sezione tecnica - Technical section

## P.101



## P.229



**Materiale - Material**  
Acciaio - Steel



**Colore - Color**  
Metallo - Metal



**Pezzi confezione - Package items**  
10 pezzi - pieces



**Volume confezione - Package volume**  
0,86 dm³



**Peso confezione - Package weight**  
850 g



**Normative - Norms**  
R107.8; REACH; ROHS; CMR.  
More info on page B2-B3 and website on "Directives and regulations" area.



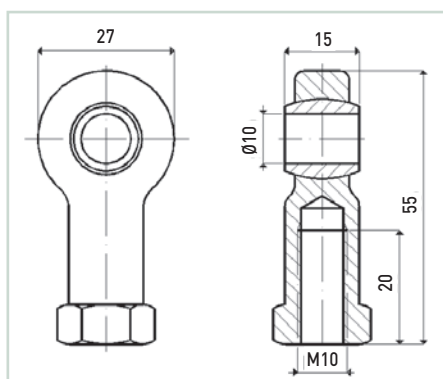
### P.229

**Cod.**

60178

## Sezione tecnica - Technical section

### P.229



## P.114



### Materiale - Material

Acciaio zincato - Zinc-plated steel



### Colore - Color

Metallo - Metal



### Pezzi confezione - Package items

40 pezzi - pieces



### Volume confezione - Package volume

0,86 dm<sup>3</sup>



### Peso confezione - Package weight

400 g



### Normative - Norms

R107.8; REACH; ROHS; CMR.

More info on page B2-B3 and website on "Directives and regulations" area.



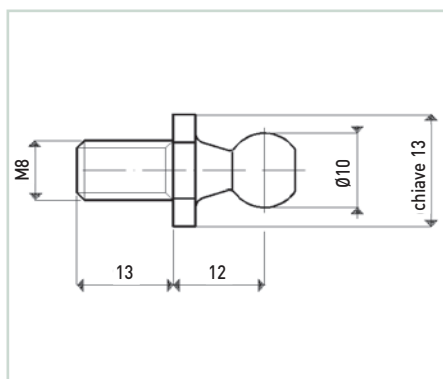
## P.114

Cod.

65517

## Sezione tecnica - Technical section

## P.114



## P.223



### Materiale - Material

Acciaio zincato - Zinc-plated steel



### Colore - Color

Metallo - Metal



### Pezzi confezione - Package items

50 pezzi - pieces



### Volume confezione - Package volume

Secondo codice - According to item code



### Peso confezione - Package weight

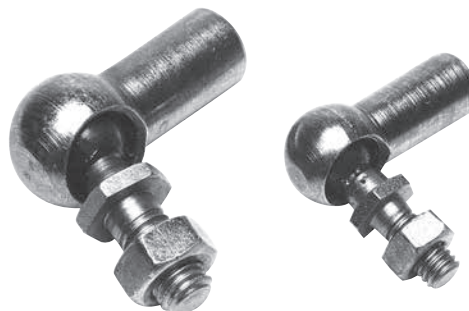
Secondo codice - According to item code



### Normative - Norms

R107.8; REACH; ROHS; CMR.

More info on page B2-B3 and website on "Directives and regulations" area.



**B**

## P.223

| Cod.  | Tipo - Type | dm   | g     |
|-------|-------------|------|-------|
| 69807 | M6          | 0,86 | 2.500 |
| 69817 | M8          | 2,1  | 3.000 |

## Sezione tecnica - Technical section

## P.223

