



Innovations in the field
of protection components



Ball-shaped door lock



- Clamp**
 Acetal based (POM) technopolymer. Resistant to solvents, oils, greases and other chemical agents.
- Ball**
 Glass-fibre reinforced polyamide based (PA) technopolymer. Resistant to solvents, oils, greases and other chemical agents.
- Colour**
 Black, matte finish.
- Assembly**
 Self-tapping screw $\varnothing 4.8$ mm. UNI 7981 B or M5 cylindrical head screw with hexagon socket DIN 912.

Accessories on request

BPS.30-SP: acetal based (POM) technopolymer spacers kit 5, 10, 15 mm (sold separately), black colour in order to compensate possible differences in width between frame and door.

Features and applications

BPS ball-shaped door lock consists of a clamp to be fixed to a frame and a ball to be fixed to a door.

The clamp, in which the ball fixed to the closing door is inserted, is a mechanical stop device also to the door movement, thanks to its shape.

The screws, that fix the clamp and the ball respectively to the frame and to the door, are identical. Thus, making the assembly easier.

Under specific tests, the clamp showed constant performances for more than 20.000 cycles.

The ball-shaped door lock has been conceived for use with both shutter doors and sliding doors.

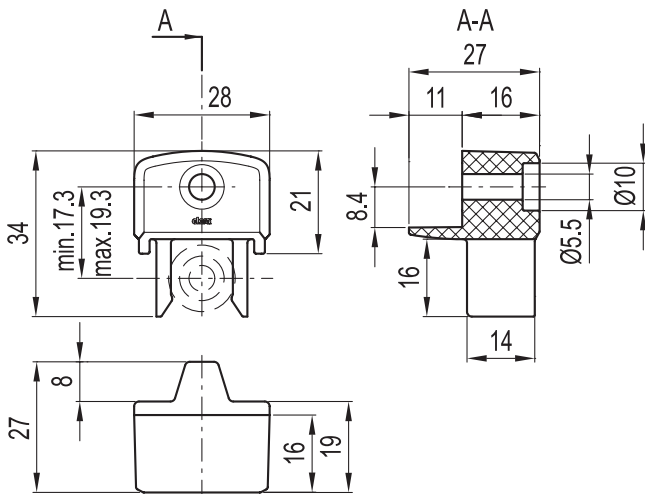
The minimum thickness for the profile suitable for use is 15 mm, while the distance between door and frame must be within 2.5 mm and 3.5 mm.



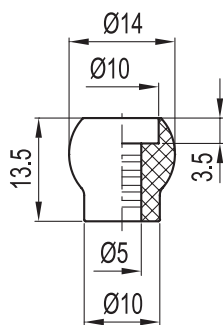
Thickness differences between frame and door	Spacer to be used	Description
0	-	-
5 mm	5 mm	BPS.30-SP5
10 mm	10 mm	BPS.30-SP10
15 mm	15 mm	BPS.30-SP15
20 mm	10 mm + 10 mm	BPS.30-SP10 + BPS.30-SP10
25 mm	10 mm + 15 mm	BPS.30-SP10 + BPS.30-SP15
30 mm	15 mm + 15 mm	BPS.30-SP15 + BPS.30-SP15

Ball-shaped door lock

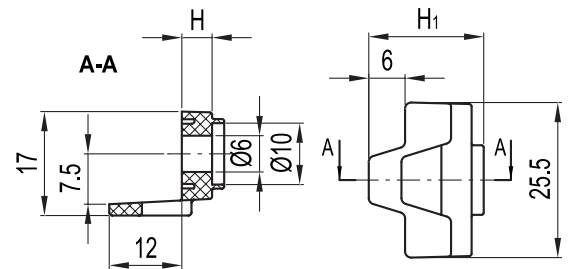
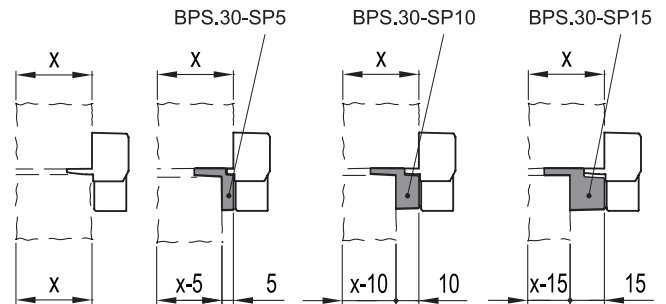
Clamp



Ball



Examples of BPS.30-SP spacers assembly



Standards Elements		Opening release strength	⚖
Code	Description	[N]	g
6251	BPS.30	30	10

Standards Elements		Main dimensions		⚖
Code	Description	H	H ₁	g
6253	BPS.30-SP5	5	19	3
6254	BPS.30-SP10	10	23	4
6255	BPS.30-SP15	15	28	5

Panel support clamp



Material

Glass-fibre reinforced polyamide based (PA) technopolymer. Resistant to solvents, oils, greases and other chemical agents.

Colour

RAL 7042 grey, matte finish.

Pads

Thermoplastic elastomer, hardness 70, Shore A, overmoulded.

Adjusting spacers (included in the supply)

Polyamide based (PA) technopolymer, RAL 7042 grey colour clamp, for fastening panels with thickness higher than 4 mm.

Once it is engaged in the housing, the spacer is constrained to the clamp by means of an undercut.

Assembly of the clamp on the profile

- M6 shorted cylindrical head screw with DIN 7984 hexagon socket (fig. 1).
- DIN 933 M6 hexagonal head screw (fig. 2).
- DIN 439B or DIN 934 M6 hexagonal nut (fig. 3).

Features and applications

The product is in compliance with the Machine Directive (2006/42/CE) that provides for the unlosability of all the clamp elements in the opened position too.

The two parts of the tightening clamp are connected thanks to an articulated joint and they have got a seat for housing a screw and a M5 nut, which are unlosable as well.

The special dimensions of the clamp allow its assembly on profiles with a width of 25 mm or higher.

The panel assembly into the clamp require no drilling.

The pads deform upon tightening to guarantee the perfect fastening of the inserted panel.

The chemical bond of the overmoulded pads makes them a single body with the clamp. The embossed surface avoid any possible sticking of the pad to the panel over the time.

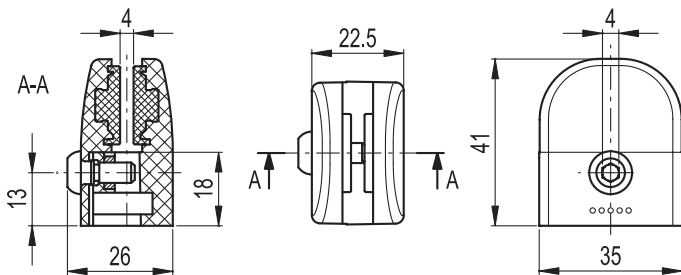
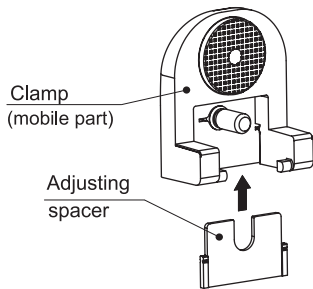
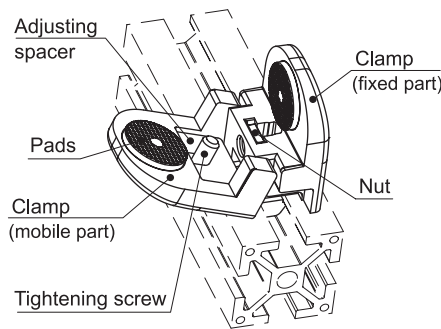
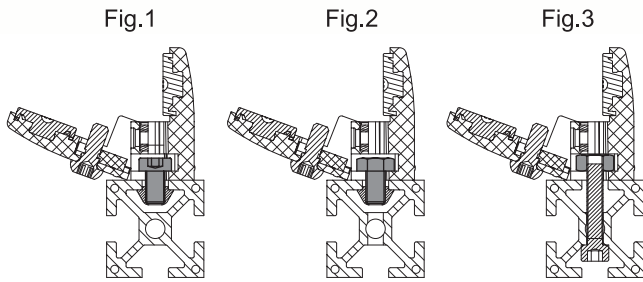
The tightening clamp allows a direct assembly of panels with thickness from 3.1 mm to 4 mm. The assembly of panels with higher thicknesses, up to a maximum of 8 mm, is possible by inserting the spacers into a specific cavity provided in the clamp.

Technical data

If the clamp is opened, the tightening screw does not yield to an extraction force of 250 N, without coming out from its housing.

The tightening screw of the panel and the assembly screws of the clamp on the profile have got the same hexagonal seat. Thus, it is possible to make the assembly by using only one hexagonal key (Ch.4).

Maximum tightening torque for the screw = 3.5 Nm.



Standards Elements		⚖
Code	Description	g
49301	PC.35	31

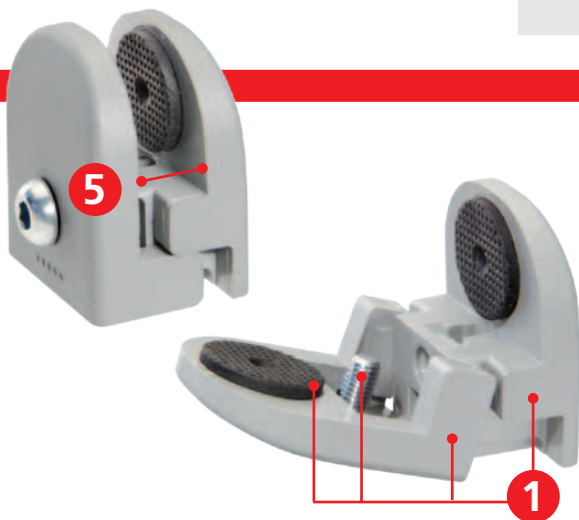
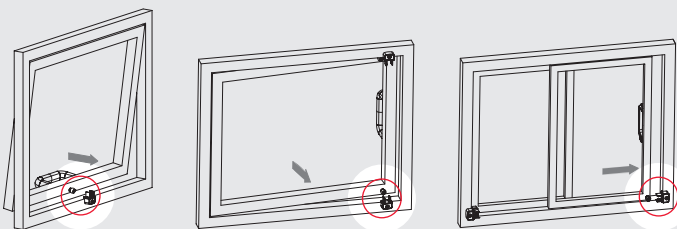
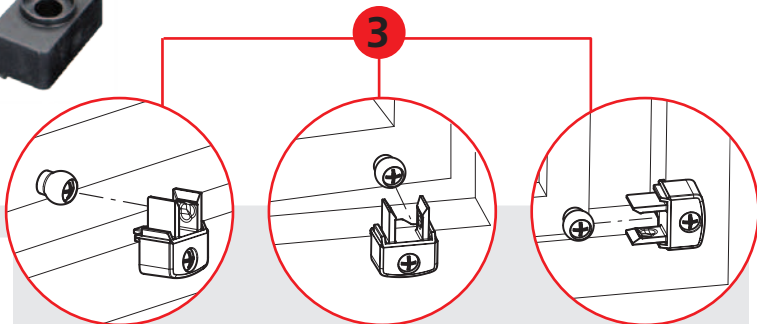
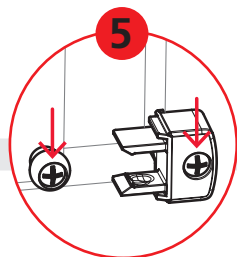
s panel thickness [mm]	Adjusting spacer to be used
$3.1 \leq s < 4.1$	-
$4.1 \leq s < 5.1$	5mm
$5.1 \leq s < 6.1$	6mm
$6.1 \leq s < 7.1$	7mm
$7.1 \leq s < 8.0$	8mm



BPS

Ball-shaped door lock

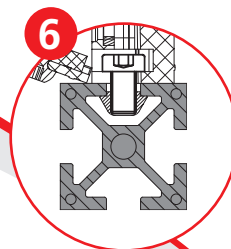
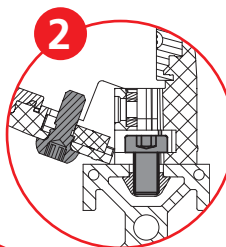
1. anticorrosive materials
2. effective coupling: tested for more than 20.000 cycles
3. flexibility of positioning on different types of doors
4. spacers for adapting to the thickness differences between frame and door
5. easy assembly (two screws)
6. no need for lubrication



PC

Panel support clamp

1. retention of clamping elements in the open position, in compliance with CE standard
2. easy assembly by hexagonal key
3. elastomer overmoulded pads
4. no need for panel drilling
5. suitable for panels from 4 mm to 8 mm (nominal)
6. suitable for profiles with a width of 25 mm or higher



ELESA S.p.A.
Via Pompei 29
20900 Monza (MB) ITALY
Phone: +39 039 28 11.1
Fax: +39 039 83 63 51
www.elsa.com
info@elsa.com

OTTO GANTER GmbH & Co.KG
Triberger Straße 3
78120 Furtwangen GERMANY
Phone: +49 7723 65 07 130
Fax: +49 7723 65 07 165
www.ganter-griff.com
info@ganter-griff.de

www.elsa-ganter.com