



PressKit



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GN 450 plastic ball-shaped snap-fit door locks



Flexible and corrosion-resistant positioning on different door models

The GN 450 ball-shaped door lock of series BPS (Elesa patent) is an innovative extra for machines and industrial units. All parts are made of techno-polymer, guaranteeing ultimate flexibility and corrosion-resistance. Tests have shown that the mechanical life by far exceeds 20,000 operation cycles.

The ball-shaped door lock consists of one clamping part for fixing to a door frame, for instance, and an opposite ball which is fixed to the door. When snap-connected, the parts are held together in position with a force of 30 Newton.

The fixing bores which serve to hold the clamping part and the ball are identical, which makes fixing very easy by using identical standard screws.

The GN 450 ball-shaped door locks are designed such that they are equally suitable for use both, for rotary and tilting direction of movement and for linear movement (e.g. flaps or sliding doors). The underside of the clamping parts features a stop ridge which ensures a spacing between the parts to be positioned of between 2.5 and 3.5 mm.

If the connecting surfaces are not at the same level - something which is often the case in practice - the GN 450.1 spacers with heights of 5, 10 and 15 mm compensate the difference. The spacers are also freely combinable.

Find out more in the internet at www.ganter-griff.de



PRESSE-BOX

Ansprechpartner | *Contact*

Axel Weber

Durchwahl | *direct extension*

+ 49 (0) 7723 6507-226

E-Mail | *Email*

axel.weber@ganter-griff.de



Otto Ganter GmbH & Co. KG

Normteilefabrik

Triberger Straße 3

78120 Furtwangen

Telefon +49 (0) 7723 6507-0

Telefax +49 (0) 7723 4659

www.ganter-griff.com

Function meets aesthetics



Clamping levers with eccentric cam of the GN 927 series

Stainless steel is not only the material of choice in corrosive atmospheres – designers increasingly use the material for its high value character.

Clamping levers with eccentric cam are popular operating elements for rapid and torque-free clamping and releasing not only in jig and fixture constructions. The lever elements are also suitable for many other applications and not surprisingly are among Ganter's bestsellers.

The basic model of the GN 927 series uses zinc die casting as lever material, the ergonomic and straight handle is coated with black epoxy resin. The GN 927.3 design alternative features a zinc-plated steel lever. The axial, tensile and adjusting screw in the GN 927.4 clamping lever with eccentric cam is made of non-rusting stainless steel, which makes it a virtual must in corrosive conditions.

As a logical continuation of its material strategy, Ganter has now an all-stainless steel variant in its range with the GN 927.7. The RoHS conforming standard element is now even better suited when aggressive media prevail in the ambient surroundings. The clamping element is also a great deal more pleasant to touch and more attractive to look at because the lever shows itself here with its natural metallic surface. The black contact plates in the GN 927.5 model are made of glass-fibre reinforced polyacetal or polyamide and create a natural contrast to the metal

Using the adjustable contact plate via a precision thread, the space between eccentric lever and clamping surface as well as the clamping force or the position of the lever can be adjusted perfectly. Thanks to their favourable and ergonomic design, they allow clamping forces up to 8 kN.

Like the other clamping levers with eccentric cam, the new GN 927.5 and GN 927.7 series are also available with internal or external thread of sizes M5 to M10. And: the series GN 927 boasts the label of the „iF product design award“ for best ergonomics, function and design language. An added value which pays dividends because a well designed product is easier to operate and lends the whole application a much more pleasing appearance.

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PRESSE-BOX

Ansprechpartner | Contact

Axel Weber

Durchwahl | direct extension

+ 49 (0) 7723 6507-226

E-Mail | Email

axel.weber@ganter-griff.de

Otto Ganter GmbH & Co. KG

Normteilefabrik

Triberger Straße 3

D-78120 Furtwangen

Telefon +49 (0) 7723 6507-0

Telefax +49 (0) 7723 4659

www.ganter-griff.com

Hinges with extra functions



Several hinges:
GN 122.1, GN 122.2, GN 222, GN 151.2 sowie GN 233

Self-latching, freely oscillating, adjustable or quickly fixed in place with a clamping lever – Ganter offers very special hinges with functions for equally special cases.

Hinges are anything but low-interest products, considering that quite a bit more is expected of them in many applications than simply be the axis of rotation for flaps or doors. If doors are expected to engage at different opening angles, be fixable in any position, or require a variable operating force, it might be worth taking a look at the product range offered by Ganter, the market leader in standard machine elements.

It features the GN 122.1 hinge model, for instance, made of glass-fibre-reinforced polyoxymethylene (POM) which easily copes with operating temperatures as high as 80 °C. This element boasts four indexing positions at opening angles of 0°, 80°, 120° and 170° – with a release torque each of 1.1 Nm, incidentally also after 10,000 operating cycles. And the matching caps for the mounting bores are not only pleasant to look at, they also prevent dirt from accumulating in the mounting apertures. Naturally, the same hinge is also available without indexing function as GN 122.2.

If other opening angles are called for, GN 222 could be the solution: here, the indexing positions move between -90° and 115°, with the release torque of 3 Nm being somewhat higher and still fully present after tested 20,000 operating cycles.

Neither the release torque nor the indexing angle is always sufficiently large – this is where a highly individual fixing action using a clamping lever would be the right choice. This is exactly what can be done with the GN 151.2, a black polyamide hinge which can be fixed quickly and safely in any position. The special feature: the clamping lever is freely movable when not operated. Only after being pushed down deliberately does its hub engage in a serration and transmit the torque needed for releasing / clamping the indexing position. This means a lower risk of inadvertent loosening and greater flexibility because the lever is easily moved into a favourable resting position.

Ganter has also fitted the GN 233 with an adjustable friction torque – although not via clamping lever but via preset using a setscrew. The black or white POM standard element keeps its selected friction torque even after 60,000 movement cycles. And these hinges are in the flammability category UL 94-HB.

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PRESSE-BOX

Ansprechpartner | Contact

Axel Weber

Durchwahl | direct extension

+ 49 (0) 7723 6507-226

E-Mail | Email

axel.weber@ganter-griff.de

Otto Ganter GmbH & Co. KG

Normteilefabrik

Triberger Straße 3

78120 Furtwangen

Telefon +49 (0) 7723 6507-0

Telefax +49 (0) 7723 4659

www.ganter-griff.de



Oil drain valves plus accessories



Oil drain valves | Ventilation and breather valves

Ganter enlarges its „Hydraulics“ production line: Special valves for clean oil change and elements for safe the ventilation and breathing of containers now round off the product range.

Changing oil is not exactly anybody's favourite work. Help comes in the shape of Ganter's GN 880 oil drain valve: it speeds up the used oil draining and makes the job neater and cleaner.

The small standard elements available in different sizes replace the conventional drain plugs in the oil sumps of vehicles or machines. The matching connector piece GN 880.1 ensures the controlled draining of the used medium. Bolted to the oil drain valve with a union nut, it operates its valve plate and allows the oil to flow straight into the collecting pan without polluting the environment. The connector piece is available as a straight, 45 degree or 90 degree variant, suitable for virtually any installation situation.

Temperature resistant up to 160 °C and pressure resistant up to 100 bar, the GN 880 oil drain valve is a true all-rounder. The valve body is made of zinc-plated passivated steel or brass, while the seal tightness is guaranteed by an O ring at the valve plate and a metal sealing ring at the point the unit is screwed in. Designed for long service life, tests involving 50,000 operating actions have shown no signs of malfunction or wear and tear.

Matching this series, Ganter's product range now also offers ventilation and breathing valves, for instance the GN 881 breather valve which automatically opens inside the tank at a pressure above 200 mbar and so avoids problematic excess pressure from building up. With its stainless steel pressure spring and the brass sealing disk with silicon-rubber coating, the GN 881 has been designed for long service life. The same function is provided by the less complex GN 883 breather valve with its pressure spring and ball combination, but with no less reliability.

The GN 882 ventilation and breather valve operates in both directions, allowing a defined volume of air into and out of the container. The integrated stainless steel wire mesh of filter category G2-G3 prevents dirt particles from penetrating the tank from the outside and oil particles from escaping from the container. GN 882 is available in the sizes M12 to M30 and in four inch-based sizes.



PRESSE-BOX

Ansprechpartner | Contact

Axel Weber

Durchwahl | direct extension

+ 49 (0) 7723 6507-226

E-Mail | Email

axel.weber@ganter-griff.de

Otto Ganter GmbH & Co. KG

Normteilefabrik

Triberger Straße 3

78120 Furtwangen

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Unique: Latch in „U“ handle



latches with „u“-handle GN 115.7

Ganter presents yet another special standard element which is a first on the market: the „U“ handle with integrated latch. The new element is listed under the code GN 115.7 and is available in a wide range of different design variants.

Door latches plus „U“ handle - until recently, this function could be realised only by installing two separate elements. But Ganter now offers a smart and space-saving combination.

The GN 115.7 standard element is one of those innovations which comes up quietly and without much fuss, but one which makes practical construction life a great deal easier. Wherever the mechanical latching of a door, flap or service hatch also requires a stable handle, the new GN 115.7 element is the right choice.

The „U“ handle in ergonomic, plastic-coated zinc die-cast design rests on a cylindrical sub-construction on the latching side. This also houses the mechanical element which can be operated either with a trihedral or a square key, with a double-beard key or a slotted key. Ganter offers the latch keys under GN 119.2 which visually and ergonomically match the „U“ handle element. The unit is bolted onto the „U“ handle side from the rear.

The mechanical system guarantees a tight and vibration-free closing action, with the actual locking bar being compatible with door frames ranging from 4 to 50 mm thanks to the 22 spacing variants. Run-up chamfers at the locking bars make the closing action easier by turning the latch key by 90 degrees. Incidentally, this rotating range is not factory preset, instead, it is easily variable in four 90° positions by inserting a small plug-in part - also after installation, of course. As the position of the „U“ handle stays independent from the position of the locking bar, the whole standard element also stays independent from the attachment position or the striking side of the door.

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PRESSE-BOX

Ansprechpartner | *Contact*

Axel Weber

Durchwahl | *direct extension*

+ 49 (0) 7723 6507-226

E-Mail | *Email*

axel.weber@ganter-griff.de

Otto Ganter GmbH & Co. KG

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Solid footing



Overall range Levelling feet GN 440

Attractive prices, available in a wide range of different designs and now also in stainless steel: the levelling feet of the Ganter standard GN 440

Expensive assets rest on them, whole production lines and even the latest innovations cannot make do without them: levelling feet!

These inconspicuous elements with ground contact at times carry immense weights, staying vertical even when exposed to transverse movements or heavy vibrations. And since even the most advanced high-tech systems feel the force of gravity, levelling feet are simply indispensable items in the construction engineer's toolkit.

A toolkit which Ganter regularly equips with new and reliable standard parts, for instance with the levelling feet of the latest enlarged GN 440 series which offer a solution for virtually every application.

The basic versions GN 440 / GN 440.5 with steel or stainless steel stud now feature new variants with internal thread and/or fixing lug. The GN 440 product series now covers virtually every requirement of the market. All design versions are available as OS (without plastic cap) as Type KR (with non-slip TPE plastic cap) and also as Type GV (with vulcanised NBR rubber).

The GN 440 series not only boasts a wealth of design variants, the price range is also highly attractive.

As usual for Ganter, the levelling feet are available ex stock, ready to be shipped to wherever they are needed, if necessary also from one day to the next.

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PRESSE-BOX



Ansprechpartner | Contact

Axel Weber

Durchwahl | direct extension

+ 49 (0) 7723 6507-226

E-Mail | Email

axel.weber@ganter-griff.de

Otto Ganter GmbH & Co. KG

Normteilefabrik

Triberger Straße 3

78120 Furtwangen

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Telefax +49 (0) 7723 4659

www.ganter-griff.de

Fixed safely and quickly



GN 214.2 / 214.3 pins with pulling made of steel or stainless steel



Traditional pins GN 113 / 114

Ganter enlarging its range of pins with the pulling versions GN 214.2 / 214.3

Pins are usually found wherever constructions need to be set up, dismantled or changed quickly. This is why cotter pins with various designs and dimensions have long been part of the Ganter range of elements.

One typical application is their use in height adjustment.

Ganter has now once more enlarged its product variety by adding the pin types GN 214.2 and GN 214.3. Instead of the handling knob, they now feature a pulling – a design which is always advantageous in confined spaces because the ring is simply dropped sideways. The pulling also allows the easy attachment of the GN 111.2 retaining cable which prevents the loss of the pin. The new pin is available both in steel design (GN 214.2) and in stainless steel design (GN 214.3) if this special application is required for use in corrosive atmosphere or in areas with higher requirements in terms of hygiene. Both variants are available in pin diameters ranging from 6 to 16 millimetres. As with all Ganter pins, the locking pawls can be released by a red and readily identifiable polyamide pushbutton.

The square shape of the locking pawls made of stainless sheet steel creates a linear contact area (instead of the point contact in ball-type locking pins) which is capable of taking relatively high axial forces and so preventing the inadvertent loosening of the connection. The locking pawls will be unlocked only after manually operating the pushbutton, allowing the locking pawl to be pulled off. This principle is also used in Types GN 114.2 (steel with PA knob), GN 114.3 (stainless steel with PA knob) and GN 114.6 in all stainless steel design.

PRESSE-BOX



Find out more in the internet at www.ganter-griff.com

Ansprechpartner | Contact

Axel Weber

Durchwahl | direct extension

+ 49 (0) 7723 6507-226

E-Mail | Email

axel.weber@ganter-griff.de

Otto Ganter GmbH & Co. KG

Normteilefabrik

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78120 Furtwangen

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www.ganter-griff.de

Latch with double turn



GN 116.1 rotary clamping latches
in various designs

The GN 116.1 rotary clamping latches by Ganter close doors and gates safely

Locking doors, gates and flaps should be no real issue. But there are some situations calling for an additional clamping effect to make sure that the door is firmly pressed into the frame-side seal. This will improve the tightness and the vibration resistance of the key and prevents rattling and doors opening by themselves.

Ganter have now developed an extraordinarily compact solution which enlarges the locking mechanism with a stepless clamping function within the individual key spacings and so allows a clean closing action also with larger closing strokes - without any additional manual handling.

First, turning the knurled knob by 90 degrees takes the key into the closing position and locks the opening. If you continue turning the handle clockwise, the key travels in axial direction on the threaded bearing - and clamps the door against the frame. For opening, the movement is reversed, first loosening the clamping action and then the locking mechanism. An integrated pressure spring guarantees the necessary friction to „take along“ the key once the clamping action has been released.

The large clamping range of 12 millimetres and the differently shaped keys (straight or offset) covers a wide range of applications. With a tightening torque of two Newtonmeters, the closing force at the key reaches an astounding 300 Newton. Next to the large, ergonomically shaped polyamide knurled knob, there are also alternative operating options available with square, triangular, hexagonal and double beard drives. The plastic knurled knob and the powder-varnished zinc die-cast casing in connection with the zinc-plated blue passivated steel elements conform with RoHS.

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PRESSE-BOX

Ansprechpartner | *Contact*

Axel Weber

Durchwahl | *direct extension*

+ 49 (0) 7723 6507-226

E-Mail | *Email*

axel.weber@ganter-griff.de

Otto Ganter GmbH & Co. KG

Normteilefabrik

Triberger Straße 3

78120 Furtwangen

Telefon +49 (0) 7723 6507-0

Telefax +49 (0) 7723 4659

www.ganter-griff.de

Small movers



GN 753 guide rollers - a choice of shapes and design

Ganter's new guide rollers made of POM:

Easy running, long-lived all-rounders

Anything moved easily and without much effort is convenient, ergonomic and signals a high level of quality. This is true for drawers, draw tubes, screens, adjustable wall claddings, but also for enclosures for machines and laboratory equipment. And all these need little helpers like Ganter's GN 753 guide rollers running on ball bearings. Available in a variety of different dimensions and sizes, these small guide rollers with their encased ball bearings guarantee the safe and reliable movement of smaller loads - for a long time because they have been designed for at least one million revolutions. The running surfaces made of polyacetal (POM) have different cross-section: next to the smooth version, there are also concave, grooved and wedge-shaped designs on offer, matching the various guide profiles.

Thanks to their high-grade ball bearings, the roller not only move easily, they are also silent and wear-resistant. The rollers are fixed via a radial, cylindrical bore, a threaded journal mounted on one side or a rivet pin - a version Ganter offers on request. What's more: all guide rollers conform with RoHS and are therefore suitable for virtually every application. The thermal range Ganter gives is between 0°C and 40°C.

Find out more in the internet at www.ganter-griff.com

PRESSE-BOX



Ansprechpartner | *Contact*

Axel Weber

Durchwahl | *direct extension*

+ 49 (0) 7723 6507-226

E-Mail | *Email*

axel.weber@ganter-griff.de

Otto Ganter GmbH & Co. KG

Normteilefabrik

Triberger Straße 3

78120 Furtwangen

Telefon +49 (0) 7723 6507-0

Telefax +49 (0) 7723 4659

www.ganter-griff.de

Small extra - great benefit



Unique GN 801 holder for contact pressure screw mounted to a toggle clamp with open clamping arm



Ganter presents a new and easily adjustable holder for contact pressure screws of toggle clamps

It is often the small things in life which deliver the biggest potential for improvement. Like the new GN 801 contact pressure holder made by Ganter for the exact and fast handling of toggle clamps. This small element allows you to make the vertical adjustment of the contact pressure screw separately from the horizontal positioning of the clamping arm.

Until recently, two hex nuts held the contact pressure screw in place, changing it meant that both nuts had to be loosened at the same time. As this also meant that the contact pressure screw was loose in both setting directions, axial adjustment, in particular, needed a great deal of intuitive feeling because the holder for the contact pressure screw was likely to slide along the clamping arm.

The new GN 801 holder now uncouples the adjustment and separates the axial and the radial positioning in two steps. The contact pressure will no longer slip and the adjustment is much more exact and also substantially faster.

Also, the holder is capable of holding different contact pressure screws via the axial bore hole - for instance spring-loaded thrust pieces or threaded pins with rubber or plastic stoppers. And: the contact pressure screw needs no minimum length defined by the clamping arm.

The new GN 801 holder conforming with RoHS is available now. It is made of zinc-plated and passivated steel and available in different dimensions for the vast range of Ganter toggle clamps.

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PRESSE-BOX



Ansprechpartner | *Contact*

Axel Weber

Durchwahl | *direct extension*

+ 49 (0) 7723 6507-226

E-Mail | *Email*

axel.weber@ganter-griff.de

Otto Ganter GmbH & Co. KG

Normteilefabrik

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78120 Furtwangen

Telefon +49 (0) 7723 6507-0

Telefax +49 (0) 7723 4659

www.ganter-griff.de

Ganter - the secret champion from the Black Forest



With over 50,000 readily available products, Ganter is the Number One specialist in standard parts.

Handles, hinges, handwheels, clamp handles, knobs or clamping devices - all these are components which are needed virtually everywhere, in mechanical engineering as much as in laboratories, in plant equipment and in the transport sector. Components, many of which come from the Black Forest, directly off the high-rise shelves of the market leader: Otto Ganter GmbH & Co. KG.

Established in Furtwangen in 1894 as a small mechanical workshop, company founder Otto Ganter hit on the idea in 1912 to standardize operating elements - years before the German Industry Norm (DIN) came into being. An idea thriving and growing into a sustained model of success: today, the family-owned company in its fourth generation is present worldwide and keeps on growing. Over 270 people at the company's Black Forest headquarters permanently develop new elements, manufacture with ultimate precision and quality and ensure the fastest possible shipping. 85 percent of all orders leave our plant within 24 hours - a speed which sets standards. And with over 50,000 available variants, Ganter offers an unrivalled range and variety of standard parts.

What became known as the Ganter Standard after its launch 100 years ago eventually turned into an indispensable feature in many engineering and construction offices - and with it the Ganter catalogue, showing the entire range of products with all their characteristics on around 1,300 pages in the most recent 15th edition. The Ganter catalogue has long been a much sought-after manual which has successfully helped and accompanied generations of designers and developers. And - this being the digital age - all the data are also available online and can be loaded into all common CAD programs.

If, by any chance, there is a standard part that you need and cannot find in the extensive range of products, the people at Ganter will set to work to close the gap and develop a customized solution. This is also one part of the story which has made Ganter into what it is today: a successful player on the international stage.



PRESSE-BOX

Ansprechpartner | *Contact*

Axel Weber

Durchwahl | *direct extension*

+ 49 (0) 7723 6507-226

E-Mail | *Email*

axel.weber@ganter-griff.de

Otto Ganter GmbH & Co. KG

Normteilefabrik

Triberger Straße 3

78120 Furtwangen

Telefon +49 (0) 7723 6507-0

Telefax +49 (0) 7723 4659

www.ganter-griff.de

Rubber Damping Elements



GN 451, GN 452 and GN 453 buffers and GN 148 and GN 248 levelling feet

News from Ganter in Furtwangen

Ganter, maker of standard elements, has enlarged its existing „elastomer damping elements“ product range.

Shore hardnesses 40 and 70 have been added to the well-known GN 351, GN 352 and GN 353 range of rubber buffers. All commercial Shore hardnesses (40, 55 and 70) are now available ex warehouse as standard parts.

Ganter's product portfolio now also includes stainless steel design versions, with the GN 351 rubber buffers now available in stainless steel design under standard **GN 451**. The GN 352 and GN 353 are now also available in stainless steel designs **GN 452 and GN 453**.

The **GN 248 levelling feet** enlarge the range of these elements, allowing heavy machines and units to be set up free of vibrations. To compensate uneven floors, the adjusting spindle can be used to adjust the height. These standard elements use a natural caoutchouc with a rubber hardness of 80 Shore. The use of these levelling feet has a positive impact on the life of the machine and helps to abate noise. The Ganter Catalogue of Standard Elements also features a calculation method for finding the most suitable machine levelling feet.

The extremely robust **GN 148 levelling feet** feature a specially shaped rubber body which makes them the first choice for pressure and tension exposure. These levelling feet are optionally also available with tear-off guard, protecting against destruction through tear-off under excess load.

These standard elements are offered with spring characteristics of 43° (soft), 57° (medium) and 68° (hard) Shore.

The GN 148.2 rubber pads are used if the machine feet are not to be bolted

All standard elements listed are made of resilient natural rubber (NR), providing excellent properties in terms of vibration damping and featuring ultimate elasticity and tear resistance.

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PRESSE-BOX

Ansprechpartner | Contact

Axel Weber

Durchwahl | direct extension

+ 49 (0) 7723 6507-226

E-Mail | Email

axel.weber@ganter-griff.de

Otto Ganter GmbH & Co. KG

Normteilefabrik

Triberger Straße 3

78120 Furtwangen

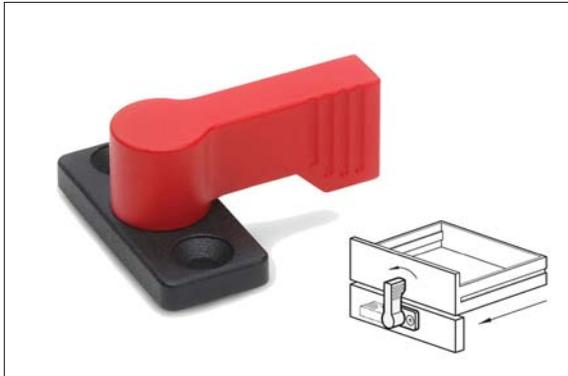
Telefon +49 (0) 7723 6507-0

Telefax +49 (0) 7723 4659

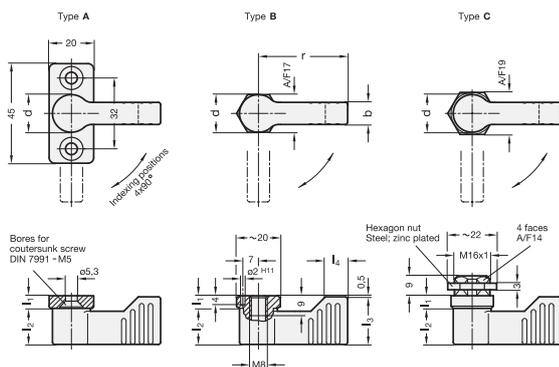
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Smart stop lock with four latch positions



GN 702 stop locks - application examples



News from Ganter in Furtwangen

Ganter, makers of standard elements, has enlarged its product range with GN 702 stop locks, used, for instance in fire fighting vehicles to secure doors and drawers.

The GN 702 stop locks are available in three design versions:

- Type A: with fastening flange
- Type B: with internal thread
- Type C: with external thread

The locking mechanisms in the GN 702 stop locks are on the outside, each with four latch positions offset by 90°. They can only be used for locking, not for clamping.

All locks are made of mat-textured black or red, plastic-coated zinc die castings. The latching mechanism is generally made of zinc die-casting and plastic.

The GN 702 stop locks of Type C have the same connecting dimensions as, for instance, Ganter's GN 115.1 mini latches. For mounting, a bore hole is set into the fastening surface. In volume production, this mounting bore hole is normally made by punching or by laser. For small series and sheet metal panels with thicknesses below 2 mm, Ganter's GN 123 sheet metal punch is the first choice.

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PRESSE-BOX



Ansprechpartner | Contact

Axel Weber

Durchwahl | direct extension

+ 49 (0) 7723 6507-226

E-Mail | Email

axel.weber@ganter-griff.de

Otto Ganter GmbH & Co. KG

Normteilefabrik

Triberger Straße 3

78120 Furtwangen

Telefon +49 (0) 7723 6507-0

Telefax +49 (0) 7723 4659

www.ganter-griff.de