

EN.....

1 - GENERAL INFORMATION

1.1 - The user's organization shall retain the manufacturer's instructions and make them readily available to all users. Users shall read and perfectly understand the information provided by the manufacturer before using the device, shall comply with all instructions regarding the inspection, maintenance and storage of the equipment and make sure that the device is in perfect condition and working properly. **Important:** this information relates to the characteristics, services, assembly, disassembly, maintenance, conservation, disinfection, etc. of the device. Although it does include some suggestions on how to use the device, it cannot be considered a true to life instruction manual (the same as an operating and maintenance handbook for a car does not teach how to drive it and does not replace a driving school). **Warning: rescue work, tree climbing and works at height are activities with a high degree of risk, which may lead to accidents and even death.** The user takes complete responsibility for the risks deriving from these activities and from using our devices. This device can be used only by individuals medically fit. It is essential that the users of this type of equipment receive proper training and instruction, including detailed procedures for the safe use of such equipment in their work application. ANSI/ASSE Z359.2 establishes guidelines and requirements for an employer's managed fall protection program, including policy statements, duties and responsibilities, training and evaluations, minimum requirements for fall protection procedures, eliminating and controlling fall hazards, rescue procedures, incident investigations, and evaluating program effectiveness.

1.2 - If the user has the slightest doubt concerning the efficiency of the device it shall be replaced immediately, particularly after having used it to arrest a fall.

1.3 - Minimum resistance of anchoring points, on both natural and artificial elements, can be at least 12 kN. The assessment of those made on natural elements (rocks, plants, etc.) is possible only empirically, and can therefore be performed by a competent expert, while those on artificial elements (metal, concrete, etc.) can be calculated scientifically, and can therefore be performed by qualified personnel.

1.4 – **802.100 BACK-UP ANSI** is tested in accordance to ANSI/ASSE Z359.15-2014. This device is inspected in accordance with the procedures of the Quality System certified according to the UNI EN ISO 9001. **Warning: laboratory tests, inspections, information and norms do not always manage to reproduce what actually happens in practice, and so performance under real usage conditions in a natural environment may differ, sometimes even considerably. The best information can be gained by continual practice under the supervision of skilled, expert, qualified individuals.**

2 - WARNINGS

- It is strictly forbidden to alter and/or repair the device, only the equipment manufacturer, or persons or entities authorized by the manufacturer, are allowed to repair the equipment.
- Before use make sure that the device is suitable for the purpose: only the techniques that are not crossed out are permitted, any other use is considered improper and therefore potentially dangerous.
- Verify combinations of components or sub-systems, or both, they have not to affect or interfere with the safe function of each other.
- Improper use, deformation, falls, wear, contact with chemical substances, chemical contamination, exposure to direct sunlight (UV degradation), heat sources and flames, exposure to temperatures below -20°F or higher than +120°F, are some examples of other causes that may produce a harmful effect, or reduce, limit or end the life of the device.
- We strongly suggest using the device personally in order to continuously monitor the degree of protection and efficiency.
- At low temperatures, the presence of moisture can form ice that, on textile devices, can reduce flexibility and increases the risk of cutting and abrasion.
- Pay particular attention when using the equipment around moving machinery and electrical hazards, sharp edges or abrasive surfaces.

3 – MAINTENANCE AND STORAGE

- Equipment which is in need of, or scheduled for maintenance shall be tagged as “unusable” and removed from service.
- Maintenance and storage of equipment shall be conducted by the user's organization, consists of washing in warm drinking water (90°F), possibly with the addition of neutral detergent. Rinse and, without spinning, leave it to dry without leaving it in the direct sunlight.
- In addition, if necessary disinfect the device, soaking it in warm water containing 1% of sodium hypochlorite (bleach). Rinse with drinking water and, without spinning, leave it to dry without leaving it in the direct sun-

light. Avoid sterilising textile devices in an autoclave.
- Equipment shall be stored in a manner as to preclude damage from environment: maintain temperature between 5-30°C (40-85 °F) and relative humidity between 40-90%, avoid exposure to light, UV, sharp edges, excessive moisture, oil, chemicals and their vapours or other degrading elements.
- Exceptional maintenance and storage issues, which may arise due to unusual conditions of use, shall be addressed with the manufacturer.

4 – INSPECTION

Inspection criteria for the equipment shall be set by the user's organization. Such criteria for the equipment shall equal or exceed the criteria established by ANSI/ASSE Z359.2:13 or the manufacturer's instructions, whichever is greater. The outcome of these periodic inspections shall be recorded on the device's inspection chart or a designated register. When inspection reveals defects in, damage to, or inadequate maintenance of equipment, the equipment shall be permanently removed from service or undergo adequate corrective maintenance, by the original equipment manufacturer or their designate, before return to service. In addition to the inspection requirements set forth in the manufacturer's instructions, the equipment shall be inspected by the user before and after using the device and additionally by a competent person, other than the user, at interval of no more than one year for:
- absence or illegibility of markings,
- absence of any elements affecting the equipment form, fit or function,
- evidence of broken stitches fixed to load indicators,
- evidence of defects in or damage to hardware elements including crack, sharp edges, deformation, corrosion, chemical attack, excessive heating, alteration and excessive wear,
- evidence of defects in or damage to strap or ropes including fraying, unsplicing, unlaying, kinking, knotting, roping, broken or pulled stitches, excessive elongation, chemical attack, excessive soiling, abrasion, alteration, excessive aging and excessive wear.

5 - DEVICE LIFE

Lifetime of metallic equipment is indefinable, theoretically unlimited, while those in textile, synthetic or plastic is 10 years from the date of production, under the following conditions:
- the operating procedures comply with point 2,
- maintenance and storage are carried out as described in point 3,
- the outcomes of pre- and post-use checks and periodical inspections are positive,
- the equipment is used correctly, not exceeding ¼ of the marked load.
Any equipment that do not pass the pre-use, post-use and periodic inspections shall be discarded.

6 – LEGAL OBLIGATIONS

Professional and recreational activities are often regulated by specific national or governmental laws that may impose specific limits and/or requirements for the personal fall arrest systems, which includes this device in their components. The user is obliged to know and apply these laws, which may in some cases impose obligations different from those contained in this information.

7 – GUARANTEE

The manufacturer guarantees that the device complies with regulations in force at the time of production. The guarantee covering faults is limited to production defects and raw materials. It does not include wear and tear, oxidation, damages caused by improper use and/or during competition, incorrect maintenance, transport, conservation, storage, etc. The guarantee becomes void as soon as the device is modified or tampered with. The validity corresponds to the legal guarantee of the country where the device was sold by the manufacturer, with effect from the date of sale. After this period no claim can be made against the manufacturer. Any request for repair or replacement under this warranty shall be accompanied by a proof of purchase. If the defect is accepted, the manufacturer, at its sole discretion, will repair, replace or refund the device. Under no circumstances does the manufacturer's liability extend beyond the invoice price of the device.

8 – USE INFORMATION

802.100 BACK-UP ANSI is a fall arrestor device that travels on a lifeline and will automatically engage and lock onto the lifeline in the event of a fall, arresting the user.

Important, this device comply with ANSI/ASSE Z359.15 when used:
- in «FREE MODE»,
- in the capacity range of minimum 130 lbs and maximum 310 lbs,
- with 7/16” polyester static ropes complying to CI 1201 and NFPA 1983:2012 T,
- with optional use of a lanyard:

- Non-Integral Lanyards: 802.400 Kong Backup Lanyard,
- Any Energy Absorbing Lanyards meeting the requirements of ANSI/ASSE Z359.13.

Warning: humidity, snow, ice, mud, dirt, etc. greatly reduce (up to nullifying) the performances of the devices.

8.1 – Nomenclature of the parts

Fig. 1 – (A) Lock device – (B) “Free mode” / “Lock mode” selection lever – (C) Connector – (D) Lanyard with Load indicator (E) - (F) Label.

8.2 – Use in a fall arrest system

For the sake of safety in case of risk of falls from a height, it is essential to:
- assess the risks and make sure that the whole system, where this device is only a component, is reliable and safe,
- prepare a rescue plan to deal with any emergencies possibly arising while the device is being used,
- have the means at hands to implement the rescue plan,
- make sure that the anchoring device or the anchoring point is always positioned as high up as possible, and that work is done in such way as to reduce potential falls and relevant heights to a minimum,
- in order to avoid all possible problems (e.g. ground, material rubbing against the rock face, abrasions, etc..), carefully assess the free height under the user (clearance). Examples of main factors can be: height of a potential fall, Full Body Harness Stretch (Hs), rope paid out, the length of any attachment element extender, the stretch in any energy dissipaters or absorbers, the height of the user and the “pendulum” effect.
Important: in a system for protection against falling from heights, it is obligatory to use a complete harness in compliance with current regulations.

8.3 – Function modes

Select the function mode before inserting the device on the rope, according to the intended purpose:
- “FREE MODE”: the device is free to move in both directions.
- “LOCK MODE”: the device slides in one direction only (upwards).
The selection between “FREE MODE” and “LOCK MODE” is made by moving the lever (B) fitted with a locking button:
- push down the button,
- move the lever (B) to the desired position (fig.2),
- check that the button returns in position and locks the lever movement.

Warning, DANGER OF DEATH:
- **the device blocks if the load is applied to the connector only, therefore never load it in any other way (e.g. fig. 3 and 4) because it will slide along the lifeline,**
- **do not manipulate the device or hold the fall arrester body or lever, instead move it up by the lanyard.**
- **the device shall be kept equal to or above the height of the harness attachment point (fig. 5),**
- **this device must be used only with the following connector series attached directly to the eyelet: 412 OVALONE, 414 OVALONE DNA, 512 OVALONE SS.**

8.4 – Connection of the device

With the device in front of you, in the same position as figure 6:
- choose function mode “FREE MODE” as in point 8.3,
- open the device by rotating anti-clockwise the revolving face,
- insert the device on the lifeline,
- close the device by rotating clockwise the revolving face,
- insert the connector (C) into the eyelet of the “BACK-UP”, hook it up to the attachment point of the full body harness and let the gate of the connector close.
Important:
- keep the device as high as possible above the user to reduce slippage (fig. 7),
- the unstitching of the load indicator (E) means that the lanyard (D) has been loaded with a force of approx. 4 kN (fig. 8), in such event replace the whole device.

Warning:

- **do not connect the device to:**
- **the lifeline in any other way, (e.g. fig. 9): risk of death!**
- **types of lifeline and/or lanyard different from what specified, because the device performance may differ from the performances specified in the standard,**
- **attachment points of full body harnesses not compatible with fall arrest systems,**
- **more than one lifeline,**
- **more than one user.**
- **when positioning the device, make sure that:**



BACK-UP

802.100

ANSI USE



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- during use, the user will not be positioned on an unstable surface, fine grain material such as sand or coal,
- anchor points of the lifeline are placed above the user,
- the lifeline between anchor point and user is not loose.

9 - CHECKS BEFORE AND AFTER USE

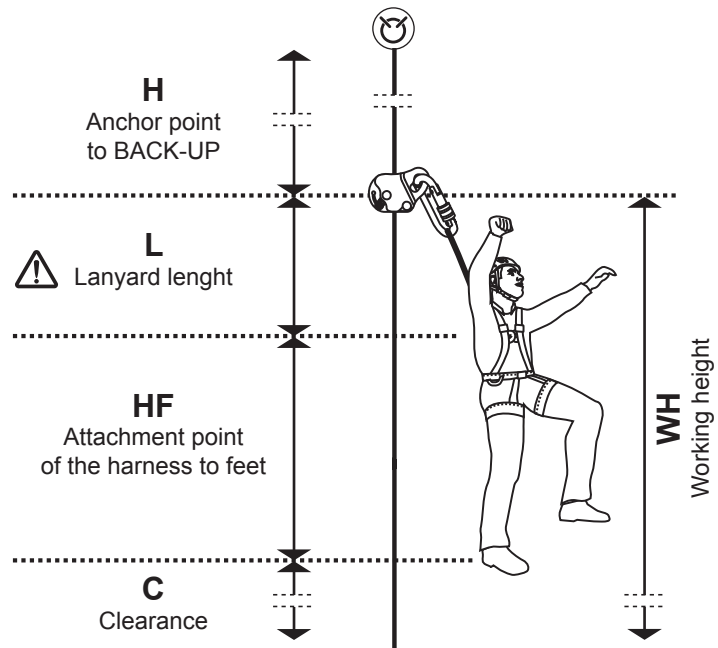
Check and make sure that:
- the device:
- is suitable for the intended use;
- is not out of shape and does not show signs of cracks or wear;
- its inner levers and springs work freely,
- its selection lever is working as described in point 8.3,
- the points where the rope passes through are free from mud, sand, etc. and that there are no lubricant substances.

- the connector (C) is working correctly, in particular check that the gate locking device works as described in fig. 10,
- the lifeline and the lanyard (D) do not show any signs of damaged threads, stiffening, variations of diameter, cuts, wear or seams coming apart. Be careful of cut or loose threads!
- the load indicator (E) is unbroken.
Before use, on each occasion check that the device holds correctly by putting your weight on it, in a position that is completely safe.

10 – CONFORMITY

The compliance of conformity has been supplied by the accredited laboratory following the EN ISO 17025: n. 1539 DOLOMITICERT scarl - zona industriale Villanova – 32013 Longarone (BL) – Italia.

CLEARANCE



Necessary minimum clearance below the user
 $C = (H \times 8\%) + S + 3$ (in ft)
 H x 8% = Rope stretch S = Slippage = max 4 ft

Minimum working height
 $WH = L + HF + C$

In case of a shock absorbing lanyard take in account the possible full deployment!

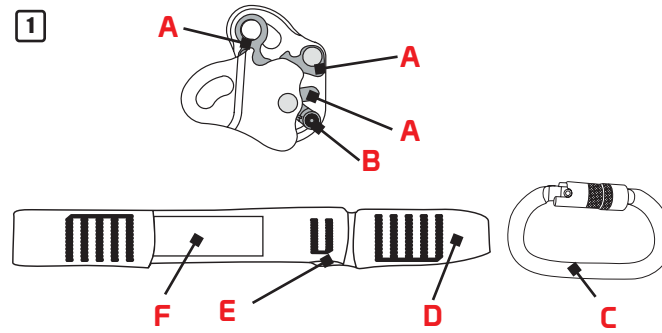
CONTROL CARD

1 - Item		3 - Serial N°	
2 - Year of production		5 - Place of purchase	
4 - Date of purchase		7 - Name of the user	
6 - Date of first use			
8 - Date of inspection	9 - result	10 - Comments	11 - Signature
	☺ ☹		
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LEGEND

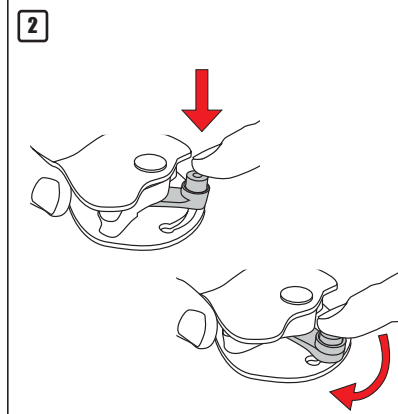
n°	Figures number	⚠	Improper use may be very dangerous
OK!	Correct use	☠	Never do it: risks fatal accident!
X	Absolutely no correct use		
Ⓜ	Anchor point		

1

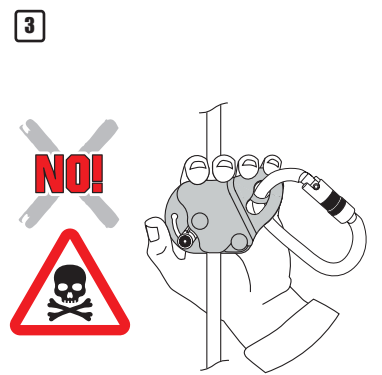


BACK-UP + CONNECTOR
 or
 BACK-UP + CONNECTOR + LANYARD

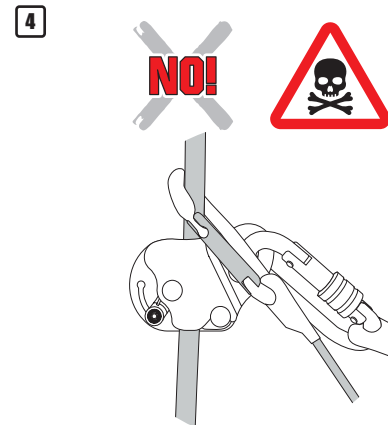
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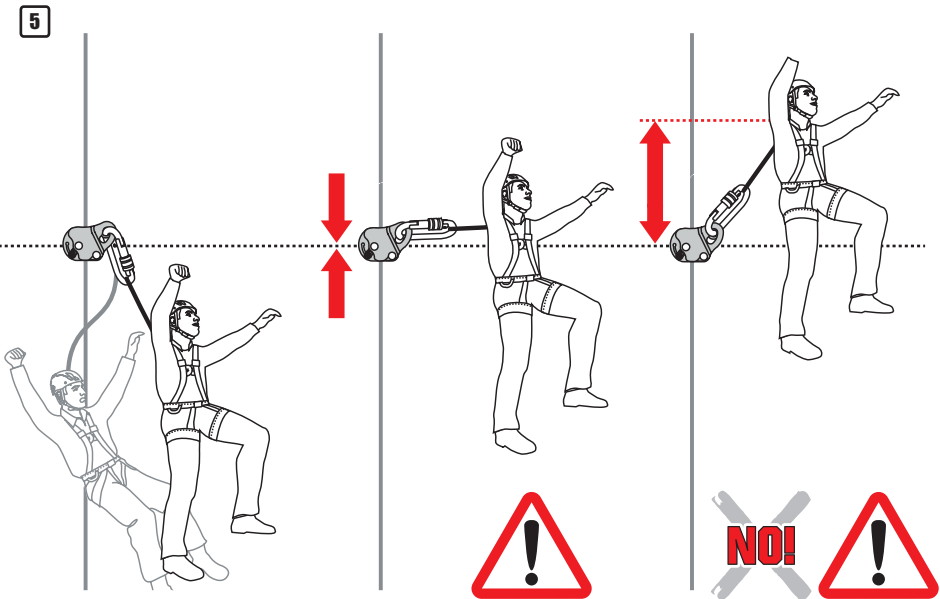
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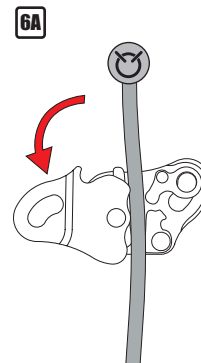
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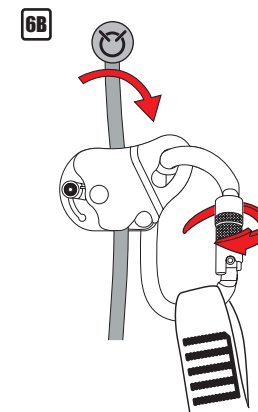
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6A



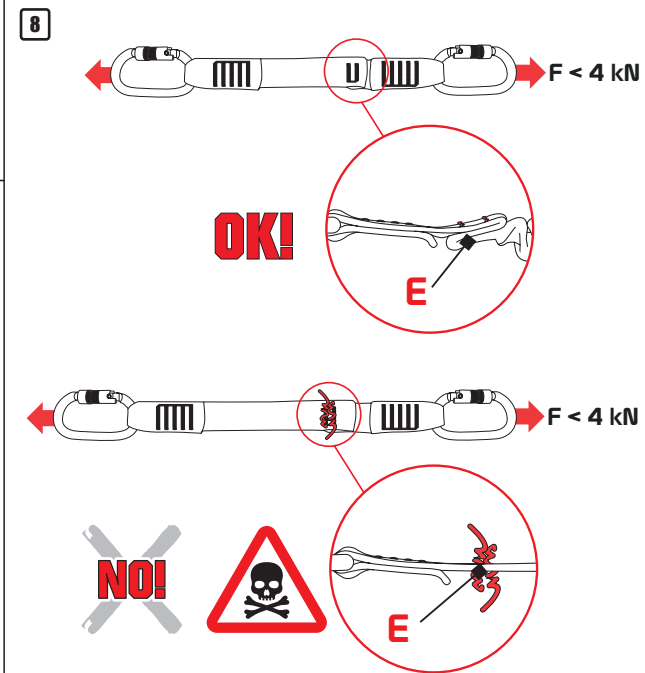
6B



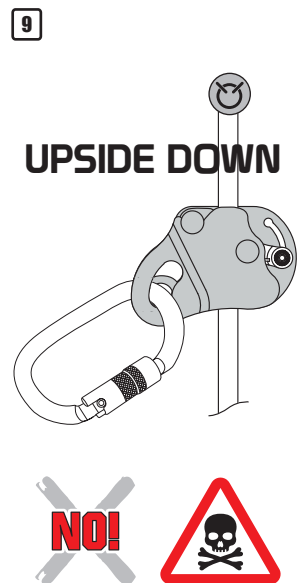
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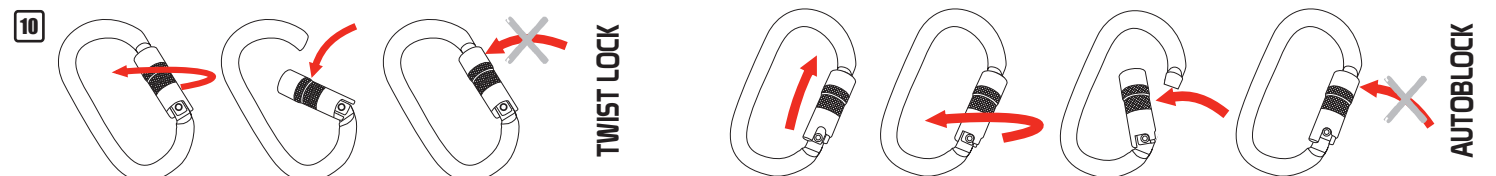
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9

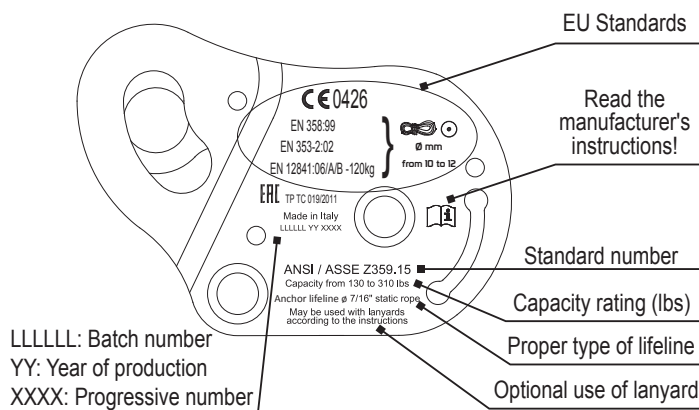
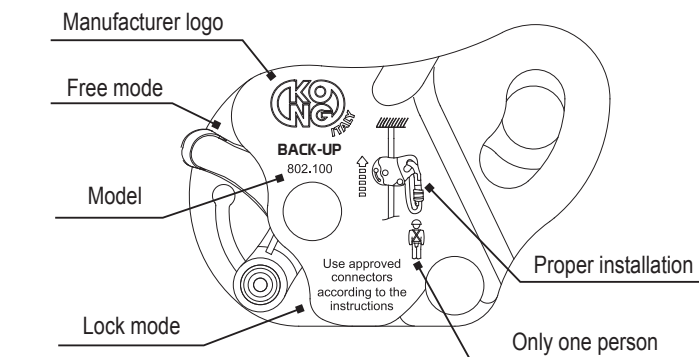


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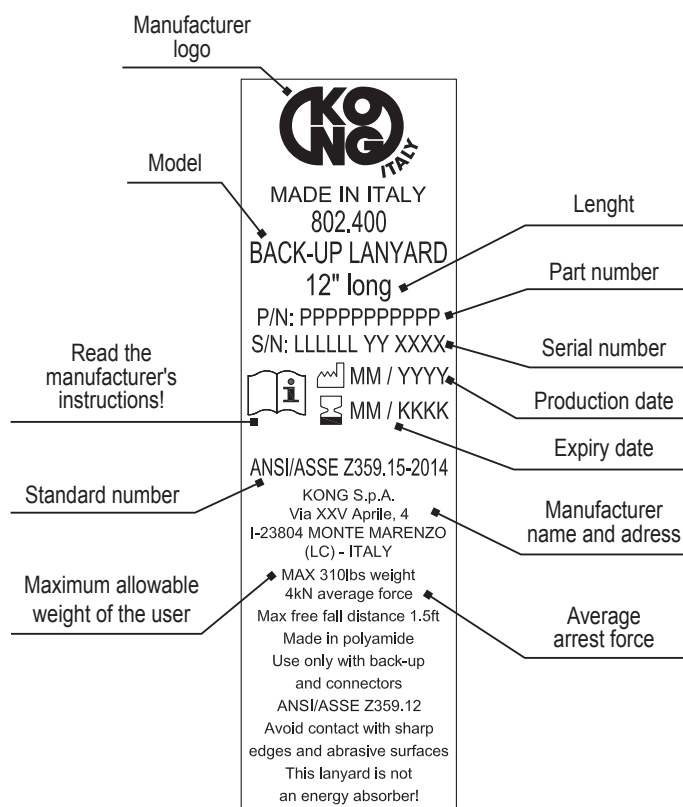


MARKING

Marking on the fall arrestor



Marking on the lanyard's label (F)



EN.....

ANSI/ASSE Z359 - Requirements for Proper Use and Maintenance of Connectors

These are general requirements and information provided by ANSI/ASSE Z359, the Manufacturer of this equipment may impose more stringent restrictions on the use of the products they manufacturer, see the Manufacturer's instructions.

1 - GENERAL INFORMATION

1.1 - The user's organization shall retain the manufacturer's instructions and make them readily available to all users. Users shall read and perfectly understand the information provided by the manufacturer before using the device, shall comply with all instructions regarding the inspection, maintenance and storage of the equipment and make sure that the device is in perfect condition and working properly. **Important:** this information relates to the characteristics, services, assembly, disassembly, maintenance, conservation, disinfection, etc. of the device. Although it does include some suggestions on how to use the device, it cannot be considered a true to life instruction manual (the same as an operating and maintenance handbook for a car does not teach how to drive it and does not replace a driving school).

Warning: rescue work, tree climbing and works at height are activities with a high degree of risk, which may lead to accidents and even death. The user takes complete responsibility for the risks deriving from these activities and from using our devices. This device can be used only by individuals medically fit. It is essential that the users of this type of equipment receive proper training and instruction, including detailed procedures for the safe use of such equipment in their work application. ANSI/ASSE Z359.2 establishes guidelines and requirements for an employer's managed fall protection program, including policy statements, duties and responsibilities, training and evaluations, minimum requirements for fall protection procedures, eliminating and controlling fall hazards, rescue procedures, incident investigations, and evaluating program effectiveness.

1.2 - If the user has the slightest doubt concerning the efficiency of the device, it shall be replaced immediately, particularly after having used it to arrest a fall.

1.3 - Minimum resistance of anchoring points, on both natural and artificial elements, can be at least 12 kN. The assessment of those made on natural elements (rocks, plants, etc.) is possible only empirically, and can therefore be performed by a competent expert, while those on artificial elements (metal, concrete, etc.) can be calculated scientifically, and can therefore be performed by qualified personnel.

1.4 – This device is tested in accordance to ANSI/ASSE Z359.12-2009, is inspected in accordance with the procedures of the Quality System certified according to the UNI EN ISO 9001, and are also subjected to production surveillance - in compliance with article 11/B of Directive 89/686/CEE or with annex V and VIII of regulation 2016/425 - by an authority whose accreditation number is indicated on the equipment.

Warning: laboratory tests, inspections, information and norms do not always manage to reproduce what actually happens in practice, and so performance under real usage conditions in a natural environment may differ, sometimes even considerably. The best information can be gained by continual practice under the supervision of skilled, expert, qualified individuals.

2 - WARNINGS

- It is strictly forbidden to altering and/or repair the device, only the equipment manufacturer, or persons or entities authorized by the manufacturer, are allowed to repair the equipment.

- Before use make sure that the device is suitable for the purpose: only the techniques that are not crossed out are permitted, any other use is considered improper and therefore potentially dangerous.

- Verify combinations of components or sub-systems, or both, they have not to affect or interfere with the safe function of each other.

- Improper use, deformation, falls, wear, contact with chemical substances, chemical contamination, exposure to direct sunlight (UV degradation), heat sources and flames, exposure to temperatures below -20°F or higher than +120°F, are some examples of other causes that may produce a harmful effect, or reduce, limit or end the life of the device. We strongly suggest using the device personally in order to continuously monitor the degree of protection and efficiency.

- At low temperatures, the presence of moisture can form ice that, on textile devices, can reduce flexibility and increases the risk of cutting and abrasion.

- Pay particular attention when using the equipment around moving machinery and electrical hazards, sharp edges or abrasive surfaces.

3 - MAINTENANCE AND STORAGE

- Equipment which is in need of, or scheduled for maintenance shall be tagged as “unusable” and removed from service.

- Maintenance and storage of equipment shall be conducted by the user's organization, consists of washing in warm drinking water (90°F), possibly with the addition of neutral detergent. Rinse and, without spinning, leave it to dry without leaving it in the direct sunlight.

- In addition, if necessary disinfect the device, soaking it in warm water containing 1% of sodium hypochlorite (bleach). Rinse with drinking water and, without spinning, leave it to dry without leaving it in the direct sunlight. Avoid sterilising textile devices in an autoclave.

- Equipment shall be stored in a manner as to preclude damage from environment: maintain temperature between 5-30°C (40-85 °F) and relative humidity between 40-90%, avoid exposure to light, UV, sharp edges, excessive moisture, oil, chemicals and their vapours or other degrading elements.

- Exceptional maintenance and storage issues, which may arise due to unusual conditions of use, shall be addressed with the manufacturer.

4 - INSPECTION

Inspection criteria for the equipment shall be set by the user's organization. Such criteria for the equipment shall equal or exceed the criteria established by ANSI/ASSE Z359.2:13 or the manufacturer's instructions, whichever is greater. The outcome of these periodic inspections shall be recorded on the device's inspection chart or a designated register. When inspection reveals defects in, damage to, or inadequate maintenance of equipment, the equipment shall be permanently removed from service or undergo adequate corrective maintenance, by the original equipment manufacturer or their designate, before return to service.

In addition to the inspection requirements set forth in the manufacturer's instructions, the equipment shall be inspected by the user before and after using the device and additionally by a competent person, other than the user, at interval of no more than one year for:

- absence or illegibility of markings,
- absence of any elements affecting the equipment form, fit or function,
- evidence of broken stitches fixed to load indicators,
- evidence of defects in or damage to hardware elements including crack, sharp edges, deformation, corrosion, chemical attack, excessive heating, alteration and excessive wear,
- evidence of defects in or damage to strap or ropes including fraying, unsplicing, unlaying, kinking, knotting, roping, broken or pulled stitches, excessive elongation, chemical attack, excessive soiling, abrasion, alteration, excessive aging and excessive wear.

5 - DEVICE LIFE

The lifespan of this device is 10 years from the date of production (indicated in the serial number) as long as: maintenance and storage are carried out as described in point 3, the results of pre-use, post-use and periodic inspections are all positive, and the device is used correctly.

6 - LEGAL OBLIGATIONS

Professional and recreational activities are often regulated by specific national or governmental laws that may impose specific limits and/or requirements for the personal fall arrest systems, which includes the Connector in their components. The user is obliged to know and apply these laws, which may in some cases impose obligations different from those contained in this information.

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7 - GUARANTEE

The manufacturer guarantees that the device complies with regulations in force at the time of production. The guarantee covering faults is limited to production defects and raw materials. It does not include wear and tear, oxidation, damages caused by improper use and/or during competition, incorrect maintenance, transport, conservation, storage, etc. The guarantee becomes void as soon as the device is modified or tampered with. The validity corresponds to the legal guarantee of the country where the device was sold by the manufacturer, with effect from the date of sale. After this period no claim can be made against the manufacturer. Any request for repair or replacement under this warranty shall be accompanied by a proof of purchase. If the defect is accepted, the manufacturer, at its sole discretion, will repair, replace or refund the device. Under no circumstances does the manufacturer's liability extend beyond the invoice price of the device.

8 - USE INFORMATION

The Personal Protective Equipment (PPE) known as **412 OVALONE, 512 OVALONE SS, 414 OVALONE DNA**, in the versions:

- carbon steel made OVALONE: 412.O00 **Autoblock** and 412.T00 **Twistlock**,

- stainless steel made OVALONE SS 512.I00 **Autoblock** and 512.K00 **Twistlock**,

- carbon steel made OVALONE DNA 414.O00 **Autoblock** and 414.T00 **Twistlock**,

are connecting components in accordance with ANSI/ASSE Z359.12-2009, used to connect two or more pieces of equipment together in Personal Fall Arrest Systems.

These connectors conform also to EN362:04/M, for which the instructions can be downloaded at: www.kong.it.

Fig. 1 - Nomenclature of parts: (A) Body, (B) Gate, (C) Automatic gate locking device: (C1) Autoblock, (C2) Twistlock. chosen

Fig. 2a - Only permitted position, providing the greatest strength.

Warning:

- **fig. 2b, not permitted positions, those can cause lateral and/or sideways forces and/or twisting and/or direct forces on the gate (B),**
- **fig. 3 and 4, connecting using wide elements reduces the connector's strength and may compromise releasing and closing the gate (B).**

Important:

- fig. 5, before using the connector for hanging, calculate the actual loads that will be applied,
- it is recommended to never exceed ¼ of the load marked on the connector (SWL 1:4),
- fig. 6 and 7, make sure the gate locking device works as shown,
- do not open the gate when the connector is loaded,
- regularly inspect and monitor the system during use and check locking and positioning of the connector,
- take the connector's length into consideration, when using it in a system to prevent falling.

Carefully assess the suitability of the attachment/anchoring point chosen in relation to the application for which it is to be used, applicable governmental regulations and standards on occupational safety. Especially, always make sure that the connectors attached to the attachment/anchoring point are free to move and take up a position in the foreseeable direction in which the load will be applied, with the gates fully closed at all times.

Fig. 8 – Dimensions and minimum strength (when loaded in directions set by ANSI/ASSE Z359.12) of the connector.



OVALONE

412 • 512 • 414

ANSI USE www.kong.it



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ZZV05513 rev.2

9 - CHECKS BEFORE AND AFTER USE

Check and make sure that:

- The connector is suitable for the intended use.
- The connector is not out of shape and does not show signs of cracks or wear.
- The gate opens completely when pushed and closes automatically and completely when released.
- The gate locking device works as described in figures 6 and 7. Before use, on each occasion check that the device holds correctly by putting your weight on it, in a position that is completely safe.

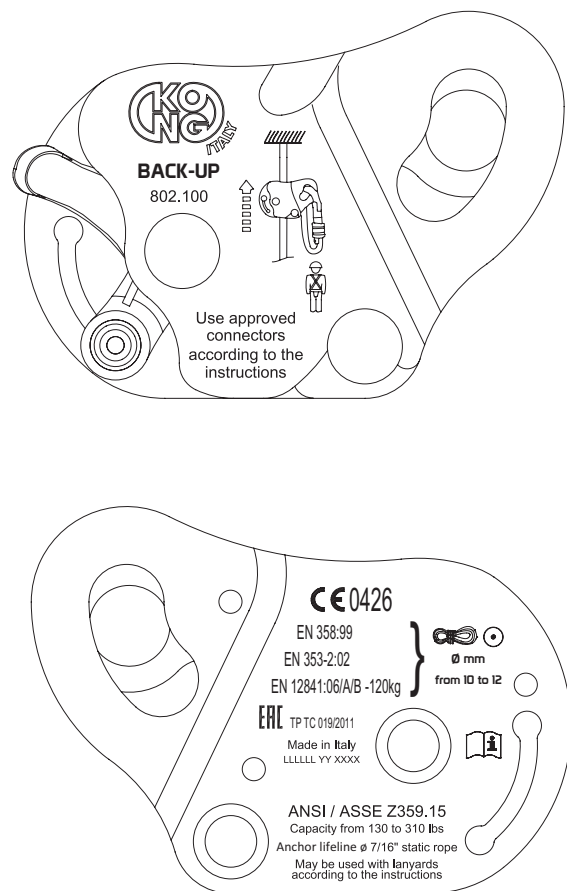
10- CONFORMITY

The compliance of conformity has been supplied by one of the following the notified body:

- n. 2008 DOLOMITICERT scarl - zona industriale Villanova – 32013 Longarone (BL) – Italia (device OVALONE DNA),
- n° 0123 - TÜV SÜD Product Service GmbH Daimlerstraße 11 - 85748 Garching – Germany (devices OVALONE and OVALONE SS).

DESCRIPTION

1



EN: The category III Personal Protective Equipment **802.100 BACK-UP** is suitable for creating systems intended to prevent and/or arrest a fall (retention, work positioning, rope access systems, etc.), and is:

- a guided self-locking fall-arrester device, which accompanies the user and locks on the anchor line in case of a fall, certified according to standard EN 353-2:02 in FREE MODE with $\varnothing 10\text{mm}$, $\varnothing 11\text{mm}$, $\varnothing 12\text{mm}$ diameter Kong "Static rope lanyard",
- a rope adjustment device, which accompanies the user during changes of position and/or allows adjustment of the safety line, and which locks automatically to the safety line under static or dynamic loading, certified according to standard EN 12841:06 type A in FREE MODE with $\varnothing 10\text{mm}$ to $\varnothing 12\text{mm}$ diameter Kong "Static rope lanyard",
- a working line ascender device, which, locks under load in the downward direction and slides freely in the opposite direction, certified according to standard EN 12841:06 type B in LOCK MODE with $\varnothing 10\text{mm}$ to $\varnothing 12\text{mm}$ diameter Kong "Static rope lanyard",
- a length adjustment device used to connect a body holding device to an anchor point, or to a structure by encircling it, as a means of support for work positioning, certified according to standard EN 358:99 in LOCK MODE with $\varnothing 10\text{mm}$, $\varnothing 11\text{mm}$, $\varnothing 12\text{mm}$ diameter Kong "Static rope lanyard".

Refer to "Compatibility" for major details.



BACK-UP
802.100

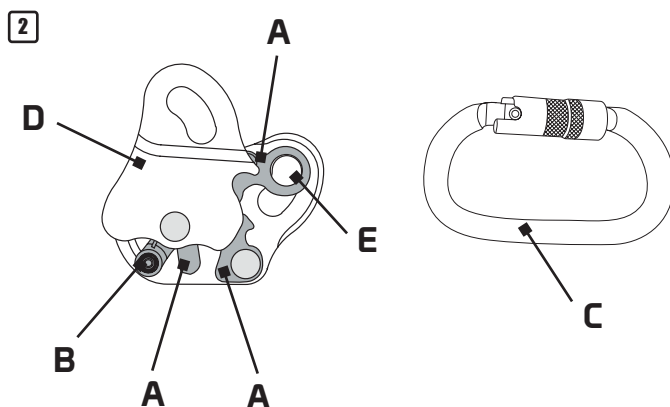
EU USE

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NOMENCLATURE



EN: (A) Locking mechanism – (B) Selection lever – (C) Connector – (D) Revolving plate – (E) Connection eyelet. This device main parts are made of aluminium alloy.

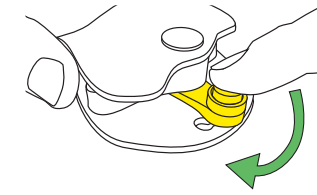
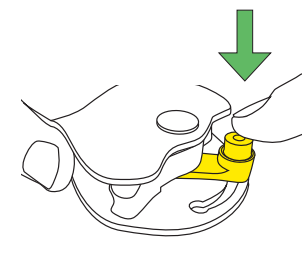
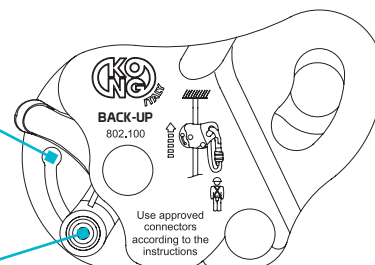
ICON LEGEND

	Correct use
	Incorrect use
	Dangerous!
	Death risk!
	Anchoring point

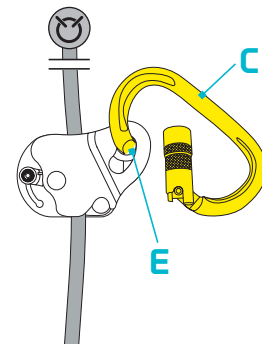
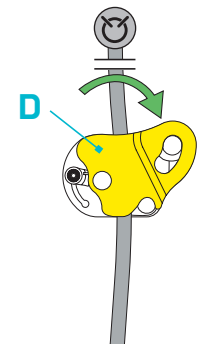
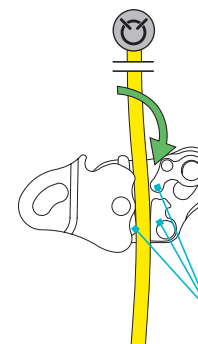
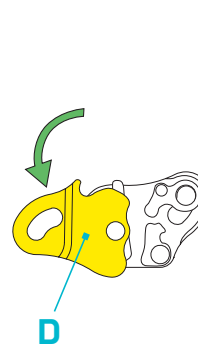
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FREE MODE

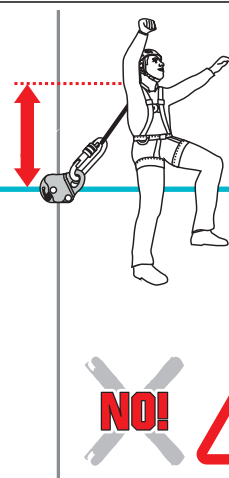
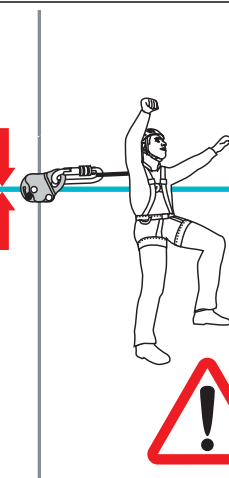
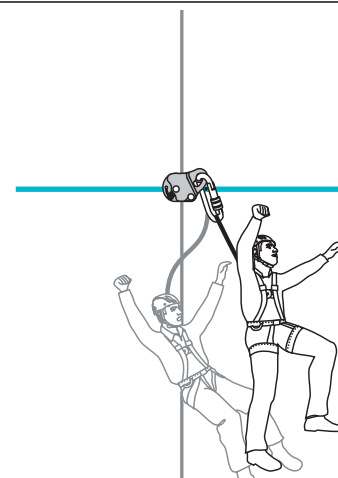
LOCK MODE



4



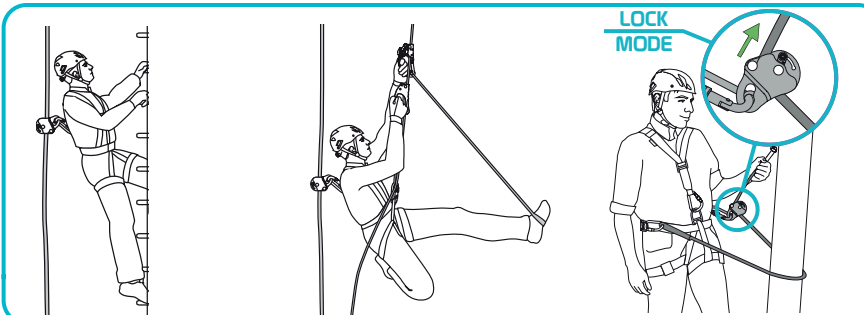
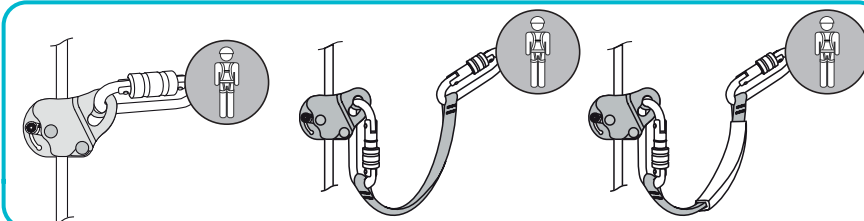
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NO!

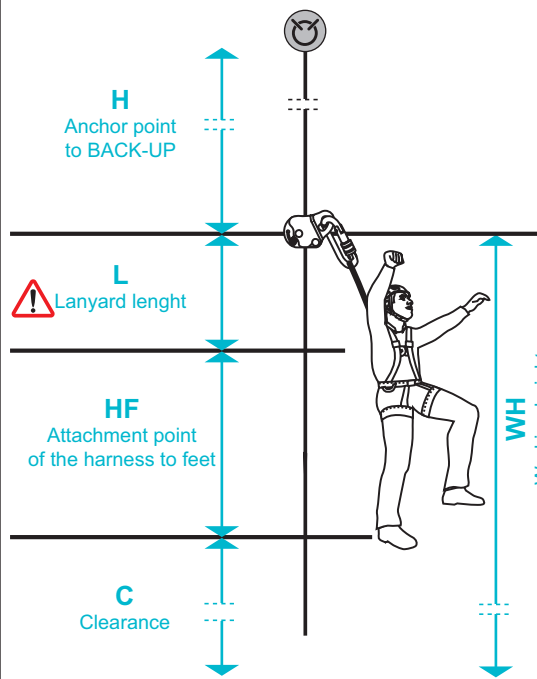


6



8

CLEARANCE

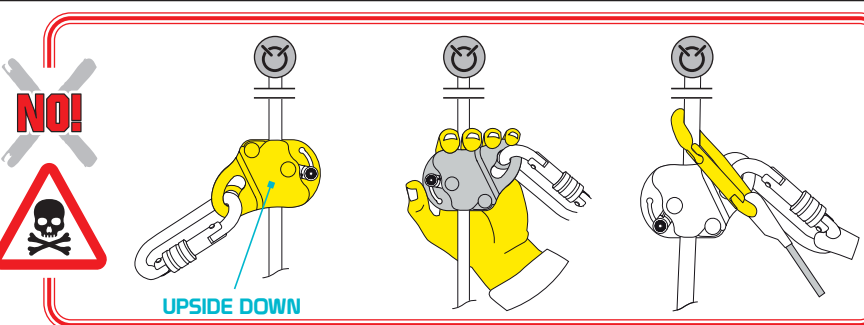


Necessary minimum clearance below the user
 $C = (H \times 8\%) + S + 1$ (in m)
H x 8% = Rope stretch S = Slippage = max 1,2 m

Minimum working height
 $WH = L + HF + C$

In case of a shock absorbing lanyard take in account the possible full deployment!

7



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Tel +39 0341630506 - Fax +39 0341641550 - info@kong.it

ZZV0XXXX rev.X

EN

1 - GENERAL INFORMATION

A) Users must read and perfectly understand the information provided by the manufacturer (hereinafter "information") before using the device. **Warning:** - **this information relates to the characteristics, services, assembly, disassembly, maintenance, conservation, disinfection, etc. of the device. Although it does include some suggestions on how to use the device, it must not be considered a true to life instruction manual the same as an operating and maintenance handbook for a car does not teach how to drive it and does not replace a driving school);** - **climbing rocks and ice, abseiling, via ferrata, speleology, alpine skiing, canyoning, exploration, rescue work, tree climbing and works at height are all activities with a high degree of risk, which may lead to accidents and even death. The user takes complete responsibility for the risks deriving from these activities and from using our device.**

- **this device must be used only by individuals medically fit that have been trained (and educated) in its use, or under the direct control of instructors/supervisors who can guarantee their safety.**

B) Before and after using the device, the user must perform all the inspections described in the specific information and, in particular, must make sure that the device is:

- in perfect condition and working well,
- suitable for use: only the techniques that are not crossed out are permitted, any other use is considered improper and therefore potentially dangerous.

C) If the user has the slightest doubt concerning the efficiency of the device, it must be replaced immediately, particularly after having used it to stop a fall. Improper use, deformation, falls, wear, chemical contamination, exposure to temperatures below -30°C or higher than +50°C for the textile/plastic components/devices, and +100°C for metal devices, are some examples of other causes that may reduce, limit or end the life of the device. We strongly suggest using the device personally in order to continuously monitor the degree of protection and efficiency.

D) This equipment can be used in combination with other devices when they are compatible with the relevant information provided by the manufacturers.

E) The anchoring position is essential for safely stopping a fall: carefully assess the free height under the user (clearance), height of a potential fall, rope paid out, the stretch in any energy dissipaters or absorbers, the height of the user and the "pendulum" effect in order to avoid all possible problems (e.g. ground, material rubbing against the rock face, abrasions, etc..).

F) Minimum resistance of anchoring points, on both natural and artificial elements, must be at least 12 kN. The assessment of those made on natural elements (rocks, plants, etc.) is possible only empirically, and must therefore be performed by a competent expert, while those on artificial elements (metal, concrete, etc.) can be calculated scientifically, and must therefore be performed by qualified personnel.

G) It is strictly forbidden to modify and/or repair the device.

H) Avoid exposing the device to heat sources or to contact with chemical substances. Reduce direct exposure to the sunlight to a minimum, particularly for textile and plastic devices. At low temperatures and in the presence of moisture can form ice that, on textile devices, can reduce flexibility and increase the risk of cutting and abrasion.

I) Make sure that the device has been supplied complete, in its original packaging and with the manufacturer's information. It is compulsory for dealers selling products in countries other than the original destination to check and supply the translation of this information.

L) All our equipment is tested/inspected piece by piece in accordance with the procedures of the Quality System certified according to the UNI EN ISO 9001 standard. Our personal protective equipment is certified by the accredited authority indicated in the equipment's specific instructions and, if they belong to category III, are also subjected to production surveillance - in compliance with article 11/B of Directive 89/686/CEE or with annex V and VIII of regulation 2016/425 - by an authority whose accreditation number is indicated on the equipment. **Warning: laboratory tests, inspections, information and norms do not always manage to reproduce what actually happens in practice, and so performance under real usage conditions in a natural environment can differ, sometimes even considerably. The best information can be gained by continual practice under the supervision of skilled, expert, qualified individuals.**

2 – WORKS AT A HEIGHT

Additional information for protective equipment against falls from a height. For the sake of safety in case of risk of falls from a height, it is essential to:

- assess the risks and make sure that the whole system, where this device is only a component, is reliable and safe,
- prepare a rescue plan to deal with any emergencies possibly arising while the device is being used,
- make sure that the anchoring device or the anchoring point is always positioned as high up as possible, and that work is done in such way as to reduce potential falls and relevant heights to a minimum,
- make sure that the devices used are suitable for the purpose and are certified.

Important: in a system for protection against falling from heights, it is obligatory to use a complete harness in compliance with current regulations.

3 – MAINTENANCE AND STORAGE

Device maintenance consists of:

- Frequent washing in warm drinking water (30°C), possibly with the addition of neutral detergent. Rinse and, without spinning, leave it to dry without leaving it in the direct sunlight.
- Lubricating moving parts (only for metal devices) with silicon-based oil. This operation is to be performed once the device has dried out, being careful to avoid contact with

textile components.

In addition, if necessary:

- disinfect the device, soaking it in warm water containing 1% of sodium hypochlorite (bleach). Rinse with drinking water and, without spinning, leave it to dry without leaving it in the direct sunlight. Avoid sterilising textile devices in an autoclave.

Storage: store the devices in a dry (40-90% relative humidity), fresh (temperature 5-30°C) and dark place, chemically neutral (absolutely avoid salty and/or acid environments), away from sharp edges, corrosive substances or other possible detrimental conditions.

4 – CHECKS AND INSPECTIONS

We would strongly advise having checks before and after use, carried out by qualified individuals, as indicated in the instructions for the specific equipment. Except in the case of more stringent legal requirements, inspections on category III equipment must be carried out by a competent person - therefore one trained and authorised by the manufacturer - every year starting from first use. The outcome of these periodic inspections must be recorded on the equipment's inspection chart or in a designated register.

5 – DEVICE LIFE

Lifetime of metallic equipment is indefinable, theoretically unlimited, while those in textile, synthetic or plastic is 10 years from the date of production, under the following conditions:

- the operating procedures comply with point 1C,
- maintenance and storage are carried out as described in point 3,
- the outcomes of pre- and post-use checks and routine inspections are positive,
- the equipment is used correctly, not exceeding ¼ of the marked load.

Any equipment that do not pass the pre-use, post-use and periodic inspections must be discarded.

6 – LEGAL OBLIGATIONS

Professional and recreational activities are often regulated by specific national laws that may impose specific limits and/or requirements for the use of PPE and the preparation of safety systems, which included the PPE in their components. The user is obliged to know and apply these laws, which may in some cases impose obligations different from those contained in this information.

7 – GUARANTEE

The manufacturer guarantees that the device complies with regulations in force at the time of production. The guarantee covering faults is limited to production defects and raw materials. It does not include wear and tear, oxidation, damages caused by improper use and/or during competition, incorrect maintenance, transport, conservation, storage, etc. The guarantee becomes void as soon as the device is modified or tampered with. The validity corresponds to the legal guarantee of the country where the device was sold by the manufacturer, with effect from the date of sale. After this period no claim can be made against the manufacturer. Any request for repair or replacement under this warranty must be accompanied by a proof of purchase. If the defect is accepted, the manufacturer, at its sole discretion, will repair, replace or refund the device. Under no circumstances does the manufacturer's liability extend beyond the invoice price of the device.

8 – SPECIFIC INFORMATION

Fig. 3 - Function modes - Select the function mode before inserting the device on the rope, according to the intended purpose:

- "FREE MODE": allow free movement in both directions,
- "LOCK MODE": allow free movement in one direction only.

The selection between "FREE MODE" and "LOCK MODE" is made by moving the lever (B) fitted with a locking button:

- push down the button,
- move the lever (B) to the desired position,
- check that the button returns in position and locks the lever (B).

Fig. 4 - Connection of the device - With the device in front of you:

- choose function mode as above,
- open the device by rotating anti-clockwise the revolving plate (D),
- insert the line in the locking mechanism (A),
- close the device by rotating clockwise the revolving plate (D),
- insert the connector (C) into the eyelet (E),
- attach the connector (C) to the longe or directly to the harness.

Compatibility - This device may also be used with EN1891 ropes of the diameters indicated, and must be used only with the following connector series attached directly to the eyelet (E): 412 OVALONE, 414 OVALONE DNA, 512 OVALONE SS (both the versions CE only or the version CE and ANSI are suitable). To attach this device directly to the harness, it is strongly advised to use the twisted connector 414 OVALONE DNA.

If there are interruptions or intermediate anchor points in the lines at which this device is connected or if working near the end of the lines do

not place a simple longe between device and harness: must be used only a longe fitted with a shock absorber in compliance with EN355.

Fig. 5 - Keep the device as high as possible above the user.

Fig. 6 - Examples of correct use.

Fig. 7 - Examples of wrong and dangerous use.

Important:

- when connecting the device, make sure that:
 - the line between anchor point and user is not loose,
 - connectors have a gate locking system and in compliance with standard EN 362,
 - anchor points of working and safety line are placed above the user and in compliance with standard EN 795,
- do not manipulate the device or hold the fall arrester body or eyelet, instead move it up by the lanyard,
- when working at a height, suspended to this adjustment device inserted on the working line, always use at least a second safety line with inserted a fall-arrester device conforming to standards EN 12841 type A and/or EN 353,
- when used as a fall arrester, always check beforehand the necessary minimum clearance below the user (fig. 8) so that, should a fall occur due to a breakage or malfunction in the working line or one of its components, there would be no collision of the user with the ground or other obstacle in the fall path.

Warning:

- **do not connect the device to the lifeline in any other way,**
- **do not use devices outside from those specified as compatible in this instruction and information,**
- **the device blocks if the load is applied to the connector only, therefore never load it in any other way because it will slide along the line,**
- **when used with ropes, it is essential to always make a knot at the free end of the rope and keep it constantly under control, to prevent the accidental release of the device,**
- **when used as a length adjustment device, the device must be kept equal to or above the height of the harness attachment point and use a longe of convenient lengths so that a potential fall will always be less than 0,5m,**
- **do not connect the device to:**
 - **more than one user,**
 - **more than one line,**
- **this device performances:**
 - **are greatly influenced by the lanyard connected.**
 - **are greatly reduced (up to be nullified) by humidity, snow, ice, mud, dirt, lubricants, etc.,**
 - **may differ from the performances specified in the standards when connected with types of lifeline different from what specified.**

9 - PRE AND POST USE CONTROLS

Before and after use make sure that the device is in efficient condition and working properly, particularly check that:

- the device:
 - is suitable for the intended use;
 - is not out of shape and does not show signs of cracks or wear;
 - the locking mechanism (A) works correctly,
 - its selection lever (B) is working as described,
 - the points where the rope passes through are free from mud, sand, etc. and that there are no lubricant substances.
 - the connector (C) is working correctly, in particular check the gate and the gate locking device,
 - the ropes do not show any signs of damaged threads, stiffening, variations of diameter, cuts, wear or seams coming apart.
- Before use in a position that is completely safe, on each occasion check that the device is working properly.

SERIAL NUMBER

LLLLLL YY XXXX	
LLLLLL	Production lot
YY	Year of production
XXXX	Progressive number

ISPECTION CHART

1			
2			3
4			5
6			7
8	9	10	11
	☺	☹	
	☺	☹	
	☺	☹	
	☺	☹	
	☺	☹	

1	Article
2	Year of manufacture
3	Serial number
4	Date of purchase
5	Place of purchase
6	Date of first use
7	Name of user
8	Date of inspection
9	Result of inspection
☺	Conforms
☹	Non-compliant
10	Comments
11	Signature

CERTIFIED BY

NB n° 0123
TÜV SÜD Product
Service GmbH
Daimlerstraße 11
85748 Garching - Germany

Download the declarance
of conformity at:

www.kong.it/conformity



MARKING



Conformity to Directive 89/686/
EEC \ Regulation 2016/425

0426

Notified body for production
inspection:

ITALCERT Viale Sarca, 336
20126 Milano – Italia



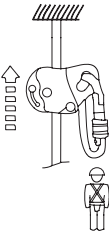
TP TC 019/2011
Euro Asiatic Conformity
to Technical Regulation

EN358:99
EN353-2:02
EN1241/A/B

Conformity to
European standards



Ø mm
from 10 to 12
Line proper type
and diameter range



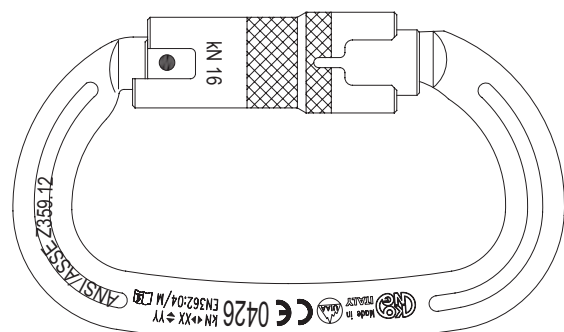
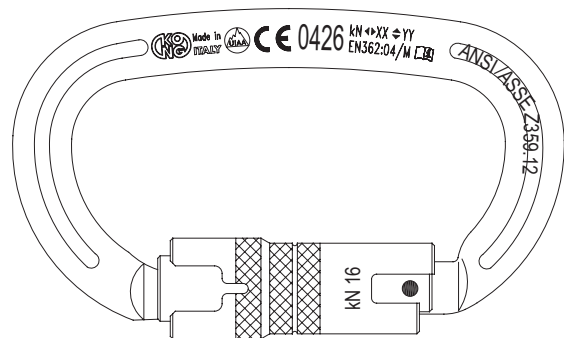
Proper installation



Always read and follow
the information supplied
by the manufacturer

DESCRIPTION

1



EN: The category III Personal Protective Equipment **412 OVALONE**, **512 OVALONE SS** and **414 OVALONE DNA** are openable devices used to connect components, which enable the user to assemble a system in order to link himself/herself directly or indirectly to an anchor, are suitable for creating systems intended to prevent and/or arrest a fall (retention, work positioning, rope access systems, etc.), which may be loaded in the major and minor axis, and are certified according to standard EN 362:04 class M.

These connectors conform also to ANSI/ASSE Z359.12-2009, for which the instructions can be downloaded at: www.kong.it



OVALONE
412 • 512 • 414

EU USE

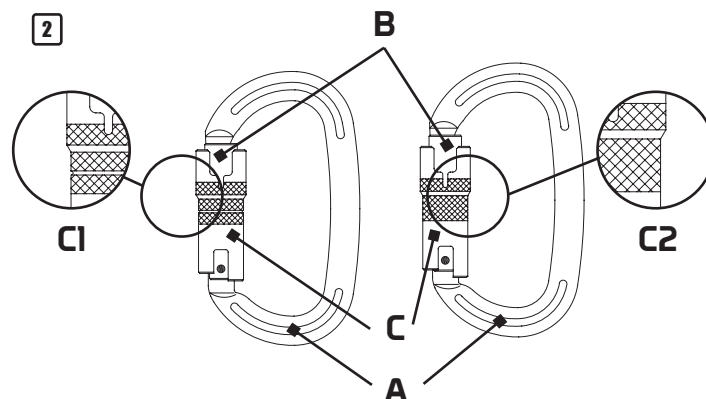
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ZZV0XXXX rev.X

NOMENCLATURE

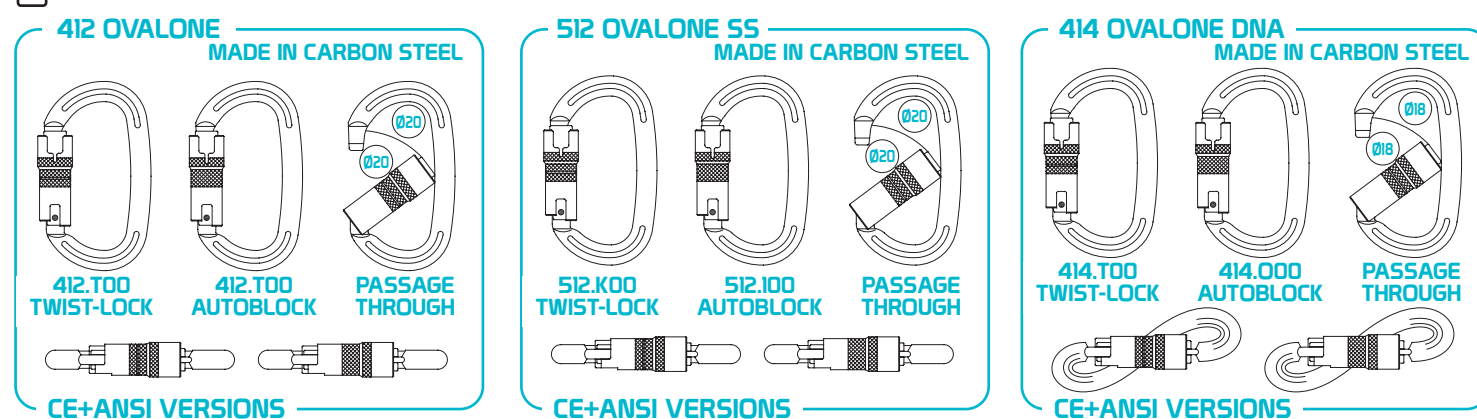


EN: (A) Body, (B) Gate, (C) Automatic gate locking device: (C1) TWIST-LOCK, (C2) AUTOBLOCK.

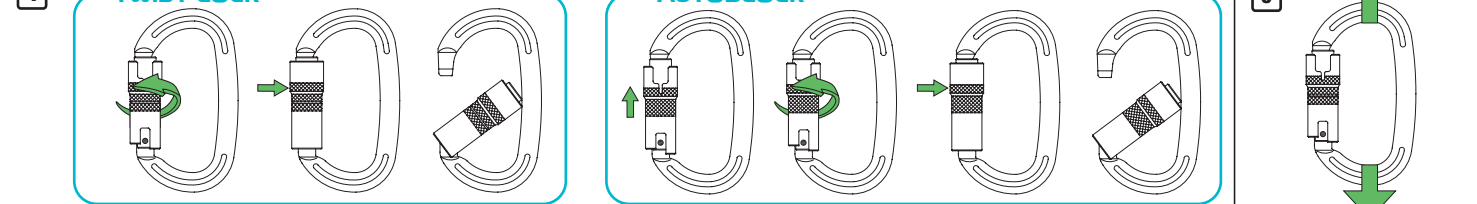
ICON LEGEND

	Correct use
	Incorrect use
	Dangerous!
	Death risk!
	Anchoring point

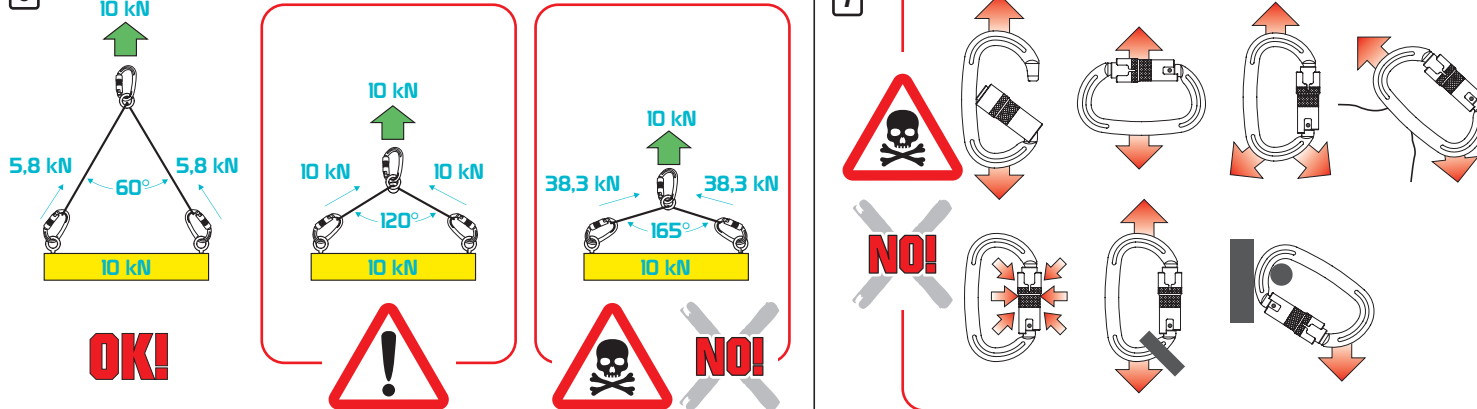
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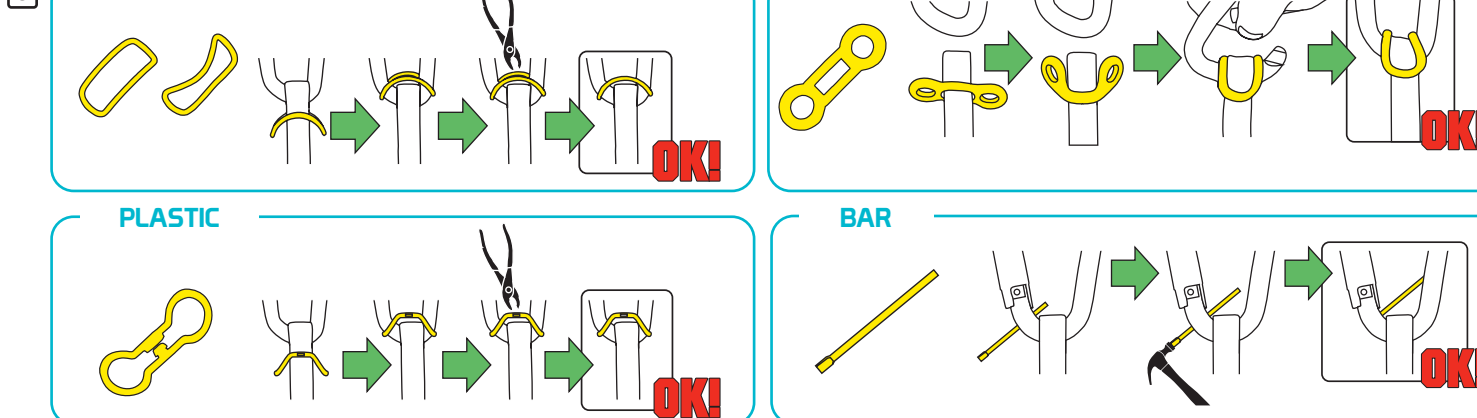
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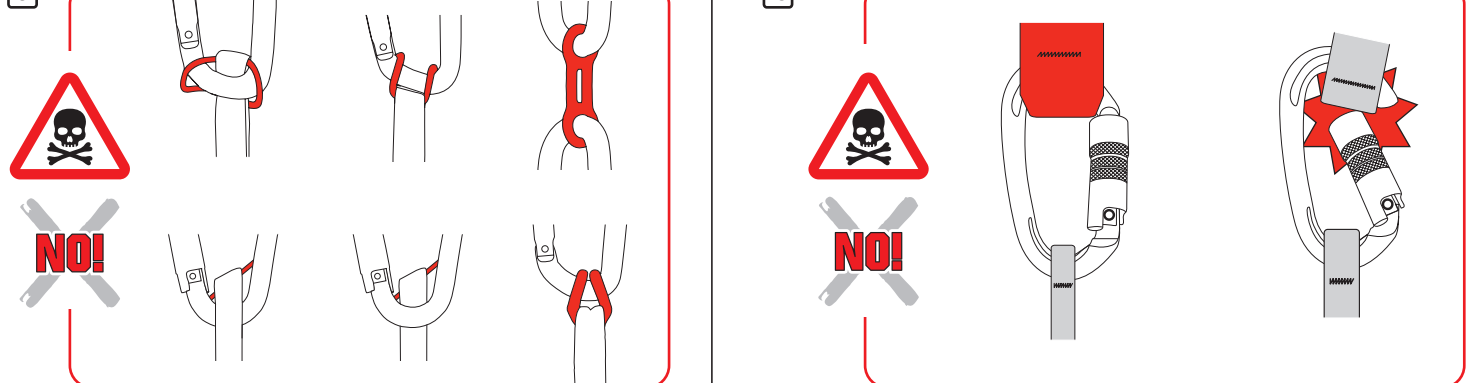
6



8



9



10

EN

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C) If the user has the slightest doubt concerning the efficiency of the device, it must be replaced immediately, particularly after having used it to stop a fall. Improper use, deformation, falls, wear, chemical contamination, exposure to temperatures below -30°C or higher than +50°C for the textile/plastic components/ devices, and +100°C for metal devices, are some examples of other causes that may reduce, limit or end the life of the device. We strongly suggest using the device personally in order to continuously monitor the degree of protection and efficiency.

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F) Minimum resistance of anchoring points, on both natural and artificial elements, must be at least 12 kN. The assessment of those made on natural elements (rocks, plants, etc.) is possible only empirically, and must therefore be performed by a competent expert, while those on artificial elements (metal, concrete, etc.) can be calculated scientifically, and must therefore be performed by qualified personnel.

G) It is strictly forbidden to modify and/or repair the device.

H) Avoid exposing the device to heat sources or to contact with chemical substances. Reduce direct exposure to the sunlight to a minimum, particularly for textile and plastic devices. At low temperatures and in the presence of moisture can form ice that, on textile devices, can reduce flexibility and increase the risk of cutting and abrasion.

I) Make sure that the device has been supplied complete, in its original packaging and with the manufacturer's information. It is compulsory for dealers selling products in countries other than the original destination to check and supply the translation of this information.

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2 – WORKS AT A HEIGHT

Additional information for protective equipment against falls from a height. For the sake of safety in case of risk of falls from a height, it is essential to:

- assess the risks and make sure that the whole system, where this device is only a component, is reliable and safe,
- prepare a rescue plan to deal with any emergencies possibly arising while the device is being used,
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- make sure that the devices used are suitable for the purpose and are certified.

Important: in a system for protection against falling from heights, it is obligatory to use a complete harness in compliance with current regulations.

3 – MAINTENANCE AND STORAGE

Device maintenance consists of:

- Frequent washing in warm drinking water (30°C), possibly with the addition of neutral detergent. Rinse and, without spinning, leave it to dry without leaving it in the direct sunlight.
- Lubricating moving parts (only for metal devices) with silicon-based oil. This operation is to be performed once the device has dried out, being careful to avoid contact with textile components.

In addition, if necessary:

- disinfect the device, soaking it in warm water containing 1% of sodium hypochlorite (bleach). Rinse with drinking water and, without spinning, leave it to dry without leaving it in the direct sunlight. Avoid sterilising textile devices in an autoclave.

Storage: store the devices in a dry (40-90% relative humidity), fresh (temperature 5-30°C) and dark place, chemically neutral (absolutely avoid salty and/or acid environments), away from sharp edges, corrosive substances or other possible detrimental conditions.

4 – CHECKS AND INSPECTIONS

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5 – DEVICE LIFE

Lifetime of metallic equipment is indefinable, theoretically unlimited, while those in textile, synthetic or plastic is 10 years from the date of production, under the following conditions:

- the operating procedures comply with point 1C,
- maintenance and storage are carried out as described in point 3,
- the outcomes of pre- and post-use checks and routine inspections are positive,
- the equipment is used correctly, not exceeding ¼ of the marked load.

Any equipment that do not pass the pre-use, post-use and periodic inspections must be discarded.

6 – LEGAL OBLIGATIONS

Professional and recreational activities are often regulated by specific national laws that may impose specific limits and/or requirements for the use of PPE and the preparation of safety systems, which included the PPE in their components. The user is obliged to know and apply these laws, which may in some cases impose obligations different from those contained in this information.

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8 – SPECIFIC INFORMATION

Fig.3 – Versions – These connectors are available in the version Autoblock or Twist-lock, and their main parts are made in steel.

Fig. 4 – Opening the gate.

Fig. 5 – Position that provides the greatest strength.

Fig. 6 – Examples of loads application – Before using the connector, calculate the actual load that will be applied.

Fig. 7 – Examples of wrong and dangerous use.

Fig. 8 – Correct use of fasteners.

Fig. 9 – Examples of wrong and dangerous use of fasteners.

Important:

- it is recommended to never exceed ¼ of the load marked on the connector (SWL 1:4),
- regularly inspect and monitor the system during use and check locking and positioning of this device,
- take this device length into consideration, when checking the necessary minimum clearance below the user.

Warning:

- **never grip the connectors to help you to climb,**
- **do not open the gate when the connector is loaded,**
- **connecting using wide elements reduces the connector's strength and may compromise releasing and closing the gate (fig. 10),**
- **always make sure that this device is attached free to move and take up a position in the foreseeable direction in which the load will be applied, with the gate fully closed at all times.**

9 - CHECKS BEFORE AND AFTER USE

Before and after use make sure that the device is in efficient condition and working properly, particularly check that:

- it is suitable for the intended use,
- it is not out of shape and does not show signs of cracks or wear,
- the gate opens completely when pushed and closes automatically and completely when released,
- the gate locking device works as described,

Before use in a position that is completely safe, on each occasion check that the device is working properly.

SERIAL NUMBER

LLLLLL YY XXXX	
LLLLLL	Production lot
YY	Year of production
XXXX	Progressive number

ISPECTION CHART

1			
2			3
4			5
6			7
8	9	10	11
	☺	☹	
	☺	☹	
	☺	☹	
	☺	☹	
	☺	☹	

1	Article
2	Year of manufacture
3	Serial number
4	Date of purchase
5	Place of purchase
6	Date of first use
7	Name of user
8	Date of inspection
9	Result of inspection
☺	Conforms
☹	Non-compliant
10	Comments
11	Signature

CERTIFIED BY

412
512

NB n° 0123
TÜV SÜD Product
Service GmbH
Daimlerstraße 11
85748 Garching - Germany

414

NB n° 2008
DOLOMITICERT scarl
Zona Industriale Villanove
30013 Longaroen BL - Italy

Download the
declarance of conformity
at:

www.kong.it/conformity



MARKING



Conformity to
Directive 89/686/EEC \
Regulation 2016/425

0426

Notified body for
production inspection:
**ITALCERT Viale Sarca, 336
20126 Milano – Italia**

**EN362:04/M
EN12275 Ⓟ**

Conformity to
European standards
M = Multiuse connector
B = Basic connector with gate
locking device (only 412)

kN ◀▶ ...

Max load in major
axis with gate closed

kN ⬆ ...

Max load in minor
axis with gate closed



Always read and follow
the information supplied
by the manufacturer