

## PULLEY MANUAL

EN 12278:2007

CE 2927



Notified body for EU type examination:  
**DOLOMITICERT s.c.ar.l. (2008)**, Module B  
 Z.I. Villanova, 7/A - 32013 Longarone (BL) - Italy

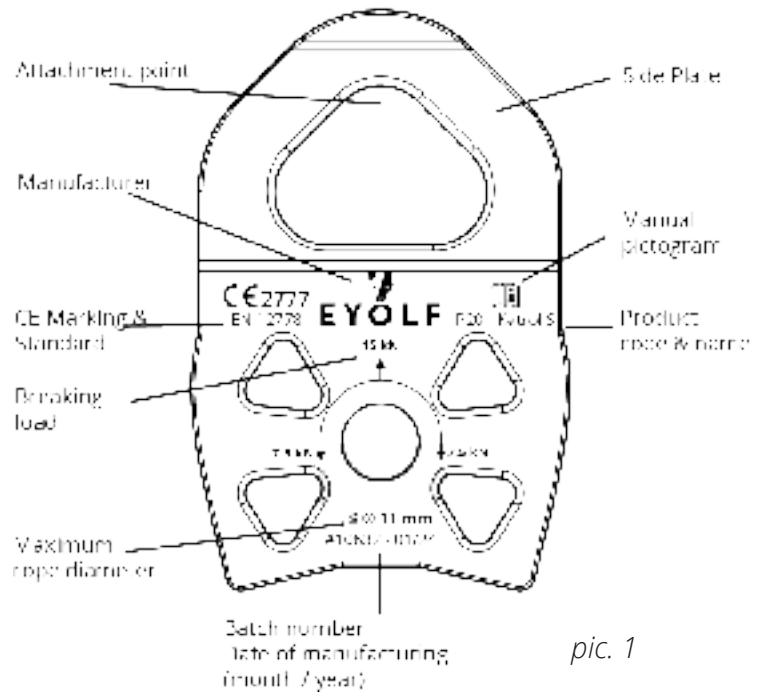
Notified body controlling the manufacturing of this PPE, module D:

**QUINTIN CERTIFICATIONS (2927)** - Module D  
 825 route de Romans  
 38160 Saint Antoine l'Abbaye - France

The provisions of EN 361:2002 / EN 358:1999 / EN 813:2008 deal with the basic requirements and provisions of Regulation (EU) 2016/425.

### Manufacturer:

EYOLF Inc. - Email: info@eyolf.ca  
 191 Gregson Ct, Box 418 Fergus ON - N1M2W8 Canada



pic. 1

### Product markings

**EYOLF:** name of the manufacturer

**MBS 15 kN:** Minimum Breaking Strength declared

**P20 - Katrol** (example): name of device


**08/22** (example): month and year of manufacturing

**10414** (example): serial number

**CE:** CE mark that confirm compliance for the product to regulation (EU) 2016/425


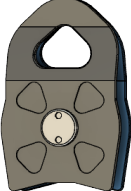

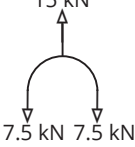
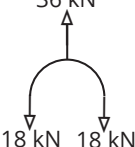
**2927:** number of the notified body involved in the control of the production process in accordance with Module C2 or D of the regulation (EU) 2016/425

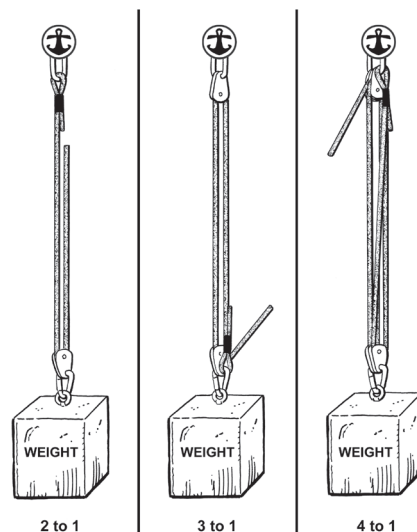
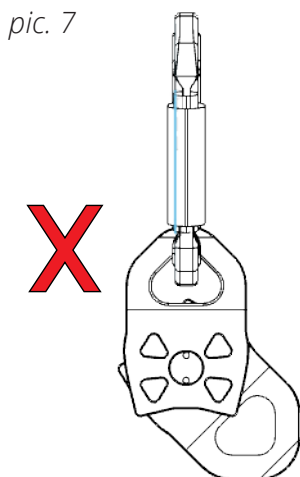
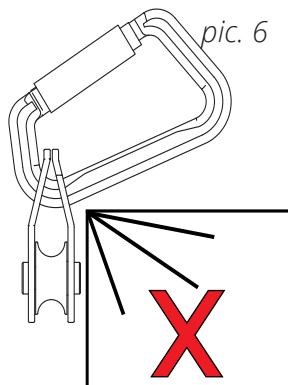
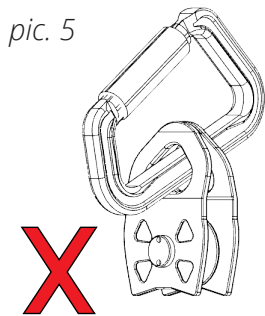
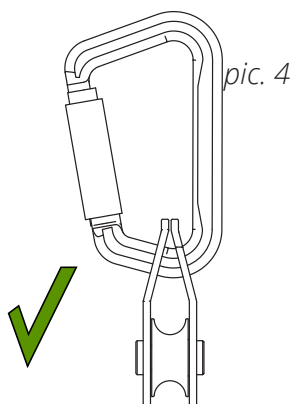
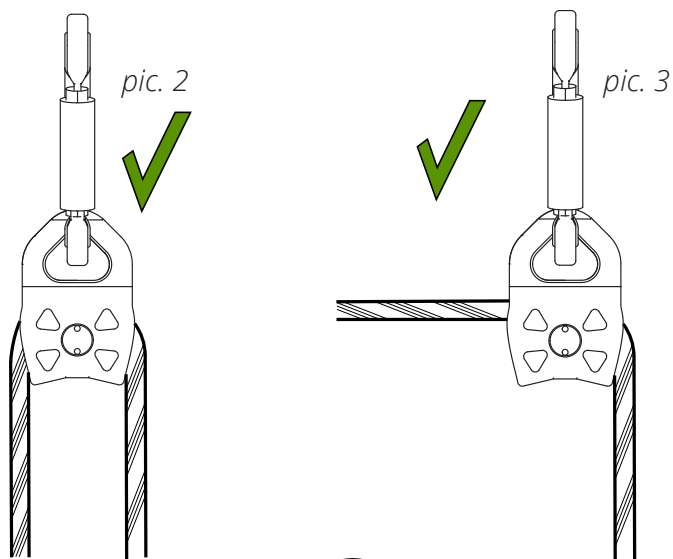
**EN12778:** Standard to which this pulley is tested and certified to

: Pictogram that advises to read instructions

MBS arrows represent the min. breaking load towards the attachment points and division over the sheave with each min. breaking load, see table 1 for clear picture of the diagram.

Table 1

		
<b>Name</b>	Katrol S	Katrol L
<b>Prod. #</b>	P20	P40
	68 g	258 g
<b>Bearing</b>	Needle	Ball
<b>Efficiency</b>	High Radial Load	High Efficiency
<b>Rope Dia.</b>	max. 11 mm	max. 13 mm
<b>MBS</b>	15 kN	36 kN
		



Build your mechanical advantage systems with care for angles, load directions and load limits.

**EN**

Thank you for using an Eyolf product. We have done everything possible to ensure that the information provided in this manual is accurate at the time of publication. However, we do not guarantee that this information will remain up to date, as many products and techniques change over time.

Mountaineering, climbing, caving, working at height and other related activities are inherent dangerous due to outside factors and hidden risks. Not understanding, taking precautions and eliminating these risks can lead to serious injuries and death. If in doubt do not use the product!

Contact us if you have any questions or concerns.

**WARNING**

**Pulley**

One or more sheaves mounted in a block or a body, which can be used to link a rope (in accordance with EN 892 or EN 1891) or an accessory cord (in accordance with EN 564) to a connector (in accordance with EN 12275) to safeguard a mountaineer, and which reduces the friction while the rope or accessory cord is moving under a load.

**Note:** Typical examples of use are load reduction systems, tyrolian travers, zip wires and top rope belay.

**Sheave**

Grooved wheel to located the rope.

**Loading the pulley**

The P20 Katrol S and P40 Katrol L rotate one of the side plates, lay the rope over the sheave and rotate the side plate back in place so a connectors can be hooked into the eyes.

See pictures 2 & 3 on how the rope can be laid.

When working with Prusiks do not let the Prusik rope get jammed into the side flanges.

Pulleys should be in line with the load any restraint can be dangerous, pic 2 & 3 showing correct use and pic. 5, 6 & 7 showing not to cross load the pulley onto a connector, pic. 5.

Do not load the pulley on the edge, pic 6.

Do not use the pulley hanging from one side plate, pic. 7.

Maximum rope diameter is marked on the pulley, do not go over this diameter. Also see table 1.

Do not use on steel cable.

Be careful with foreign objects to be drawn into the pulley. Think about hair, gloves, etc.

### **Maximum strength**

Maximum strength in kN guaranteed by the manufacturer is marked on the pulley and is indicated as MBS (minimum breaking strength) Also can be found in Table 1.

### **Risk**

This PPE is designed to protect against falls from height during the above mentioned activities.

### **Use in extreme environment**

Use of any PPE in extreme environments can be dangerous. It is important to do appropriate testing before the use of our products in environments such as extreme wetness, cold or high temperatures (working temperatures are -30 degrees up to 60 degree Celsius), chemicals, dust, sand and other foreign materials, electrical power, grinding and chafing should be avoided. Water can penetrate the bearing portion of your pulley and causes corrosion. Ice can form too and cause serious damage to the pulley but also your ropes, do not use the pulley when iced over.

### **Inspection**

An examination should be carried out before the product is put into service. Periodic examinations should take place at least once a year, taking into account factors such as legislation, equipment type, frequency of use, and environmental conditions.

A periodic exam should be carried out by a competent person.

Before each use visually inspect to ensure the product is in serviceable condition and operates correctly. If any compromises are found do not use the product and retire it.

If the product has been used to arrest a fall, withdrawn from use immediately! Do not use again until, in writing, a competent person says it is acceptable for use.

A pre-use check by the user may not be applicable if the user is under supervision of a competent person or in the case it is used for emergency use which have been pre-packed or sealed by a competent person.

When carrying out an inspection pay attention to the following items:

Check the marking (visible, legible)

Check body and sheave (deformation, cracks, wear, corrosion, marks)

Check sheave (to see if it rotates)

Check the bolt, if the bolt is loose or unscrewed, the pulley must be removed from service and sent for repair by Eyolf or a person authorized by Eyolf.

### **Chemicals**

Chemicals can have a negative impact on the function of the pulley. It can be corrosive to its aluminium body or the internal components.

### **Maintenance**

Always keep the product clean and dry. Any excess moisture should be removed with a clean, dry cloth and then allowed to dry naturally in a warm room away from direct heat.

If needed to disinfect use a solution of water with alcohol on a cloth and wipe the product.

### **Lubrication**

Lubrication can be done with a suitable grease. Clean the surface, lubricate and wipe off any excess and protect any webbing or rope from being exposed. Lubrication is recommended after every use in a marine environment.

### **Repair**

These particular products, to a degree, can be repaired by an authorised service centre or the manufacturer.

Do not make any alterations or additions to the product without the manufacturer's prior written consent. Repairs shall only be carried out in accordance with manufacturer's procedures.

### **Limitations**

The equipment has been tested for specific use, do not use the equipment outside its limitations without the consent of the manufacturer.

### **Strengths**

Strengths quoted are when the product is tested new and are in accordance with the manufacturer's test methods or to the appropriate standard. Any weights and measurements are approximate.

### **Compatibility**

This product may be used in conjunction with any appropriate item of Personal Protective Equipment (PPE).

Items such as dynamic mountaineering ropes EN 892), low stretch kernmantel ropes (EN 1891), mountaineering connectors (EN 12275), etc.

Compatibility needs to be checked prior to use.

### **Training**

Training and assessment of competency are essential before use of this product.

Users must be aware of the limitations, precautions and the dangers of misuse.

No responsibility will be accepted by EYOLF for damage, injury or death resulting from misuse. If in doubt contact your supplier or EYOLF.

### **Storage**

After cleaning, store unpacked in a cool, dry, and dark place away from direct sunlight, excessive heat sources, sharp edges, vibration or other possible causes of damage. Do not store when wet or in a damp area with a relative humidity more than 70%. If a long shelf life is required it is advisable to store in a moisture proof bag.

### **Transportation**

Keep your equipment in a bag, such as our nylon or vinyl rope and/or equipment bags, during transportation.

### **Lifespan/Aging**

There is no life expectancy for pulleys, aging does not affect its function. However the working life can be a single use in extreme circumstances (e.g. highly chemical environment, serious fall, etc.) and is dependent by the results of the periodical inspection and by the correct and continuous maintenance of the product.

### **Country of destination**

It is essential for the safety of the user that if the product is re-sold outside the original country of destination the reseller shall provide instruction for use, for maintenance, for periodic examination and for repair in the language of the country in which the product is to be used.

### **Warranty**

Equipment offered by Eyolf Inc. are warranted against factory defects in workmanship and materials for a period of three years from date of installation or use by the owner, provided that this period shall not exceed three years from the date of manufacturing. Upon notice in writing, Eyolf Inc. will promptly repair or replace all defective items. Eyolf Inc. reserves the right to elect to have any defective item returned to its plant for inspection before making a repair or replacement. This warranty does not cover equipment damages resulting from abuse, damage in transit, or other damage beyond the control of Eyolf Inc. This warranty applies only to the original purchaser and is only one of applicable to Eyolf products, and is lieu of all other warranties, expressed or implied.