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FLOW

Individually Tested EN12841: 2006 Type C EN341: 2011 Type 2 - Class A

FOR USE ON LOW STRETCH KERNMANTEL ROPES

AUTO-STOP DESCENDER FOR USE ON LOW STRETCH ROPE



Ø Rope Diameter: 10.5 - 11.5 mm

Type of Rope: EN 1891:1998 Type A / NBR 15986

Anchor Point Minimum 15 kN

Test Mass: 100kg /200Kg - 220lb/440 lb

Weight 515g / 17,5 oz

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Notified body - SGS United Kingdom: 202b, Worle Parkway, Weston-Super-Mare, BS22 6WA.



EN 12841: 2006 Type C EN 341: 2011 Type 2 - Class A

Rope type: = Rope Diameter Ø

10.5 - 11.5 • = EN 1891 Type A

(li = Read Instructions Warning

0000 A 0000

Serial Number **Batch Letter** Year / Month

ATTENTION

If marking with user's identification, care must be taken to ensure that full function is maintained and the device is not damaged.

NOMENCLATURE - PARTS Safetec "FLOW" Working Line Descender Devices. - Moving side plate - Moving plate pivot axel 3 - Cam - Cam axe 5 - Opening Gate 6 - Direction to anchor point - Product Information 8 - Attachment Point 9 - Fixed Side Plate 10 - Control Handle - Standards and Certifications 12 - Serial and traceability number 13 - Tag designated field FLOW D06 FLOW D07 14 - Indication Arrow pointer FLOW D05 GREEN RED With a panic without panic without panic locking element locking element locking element ſ<u>Γ</u> +60°C Working Temperature Range - 4°C +60°C Minimum slippage load: 4 kN

DESCRIPTION AND FIELD OF USE/ APPLICATION The S.Tec *FLOW* is designed to be used to protect users from falls from height

uring personal activities using ropes

The range of **FLOW** Descenders has been developed for use in vertical activities including Rope Access, Rope Rescue Systems, Working at height and Adventure Activities including abseiling, cascade waterfall descent, ravines, etc. Specific training is required for users of all models. The D05(Green) is the top of the range device which includes anti-panic mechanism and auto re-set

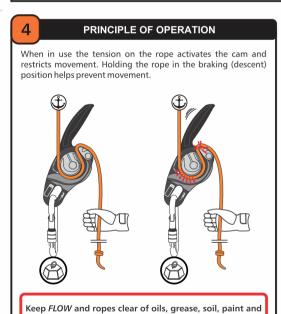
The D05(Green) is recommended for all users including beginner's and

The D06(Black) and D07(Red) do not have the anti-panic mechanism which allows continuos controlled descent even when angle of descent and loading

The D06 and D07 are designed for expert usage where all users must be aware that full deployment of the handle with no rope control will result in uncontrolled descent and possible serious injury. D06 and D07 are also designed for tactical use and allow the user to develop almost free - fall speed.

The **FLOW** descenders have been tested in accordance with EN 12841 2006 Type C and EN 341:2011 Type 2, Class A to be used with EN 1891:1998 Type A/NBR 15896 low stretch ropes of diameter between 10.5 and 11.5 mm for loads between 45 and 200 Kg. Certified for 200 meters continuous descents, being able to use for continuous descents of up to 500 meters.

INSPECTION For the safe operation, the FLOW requires inspection prior, during and after to each use. Verify that there are no cracks, abrasion damage, corrosion, heavy marks or sharp parts, signs of falls, deformation etc. Pay special attention to the gate action and security. In addition to these inspections, formal - through inspections are required by a nominated competent person at intervals not exceeding 6 months. Arduos conditions, heavy use or incidents will require additional interim inspections. All formal - thorough and interim inspections should be recorded. Following any fall or sign of damag the device must be removed from service. **Check Points** Inspect all check points for sharp points cracks, loose axel, corrosion and wear. Always perform a function test to determine that the device is working properly.

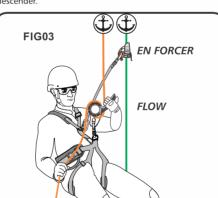




INSTRUCTIONS FOR USE

6.2

Before each use, users must perform a function test to ensure that the rope is correctly installed and device functions orrectly. The function test must be performed in a safe position our when the user is protected by two independent safety: systems. 1. Pull on the anchor section of rope - the device must lock and allow no rope to pass through, 2. With one hand hold the lower end of the rope and the other hand on the **FLOW** control handle, apply light pressure to the control handle, check that the rope moves through the **FLOW** at a controlled rate and that the side plates does not open. 3. Release the handle and verify that the rope move ent stops. During descents adjusting the pressure applied to the control handle will affect the rate of movement. At all times the control handle is held or operated the user must hold the rope section below the FLOW scender



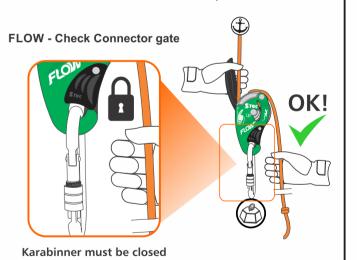
Note: When using the FLOW, to ascend (climb) up a rope, this can be performed with the handle in lock position.

HOW TO USE

WARNING

At all times that the FLOW is being operated or not in the locked position the user must hold the 'control' rope below the FLOW.

FLOW must be used with compatible equipment. Use ap connectors EN362, BS EN 12275 or other suitable safety connector.



LOWERING DESCENT

Technique shown using a single FLOW device - Max Load 200kg.

A secondary back up system is recommended

For loads of up to 400kg two FLOW devices are used, installed on independent rescue

falls outside the scope of the certification.

RESCUE USE - TECHNIQUE 1

S.Tec FLOW - Rescue Use EN341:2011 Type 2, Class A - Accompanied Abseil Descent

Maximum Descent 500m

6.1

400kg Max load - Technique 1 & 2: These are the preferred option all rescues

200kg Max Load Technique 3 & 4

S.Tec FLOW Descenders are only to be used for rescue by competent persons following training the required techniques.

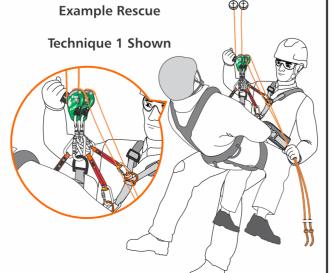
Technique 1 - Two FLOW Descenders devices are connected to the casualty. Connections both to the same harness attachment point, either Dorsal (chest) or Ventral (waist) point. Each FLOW installed on an independent rescue rope. Max Load using this technique is 400kg.

Technique 2 - Two FLOW Descenders devices are connected to the rescuers harness Ventral (waist) point. Each FLOW installed on an independent rescue rope. Max Load using this technique is 400kg.

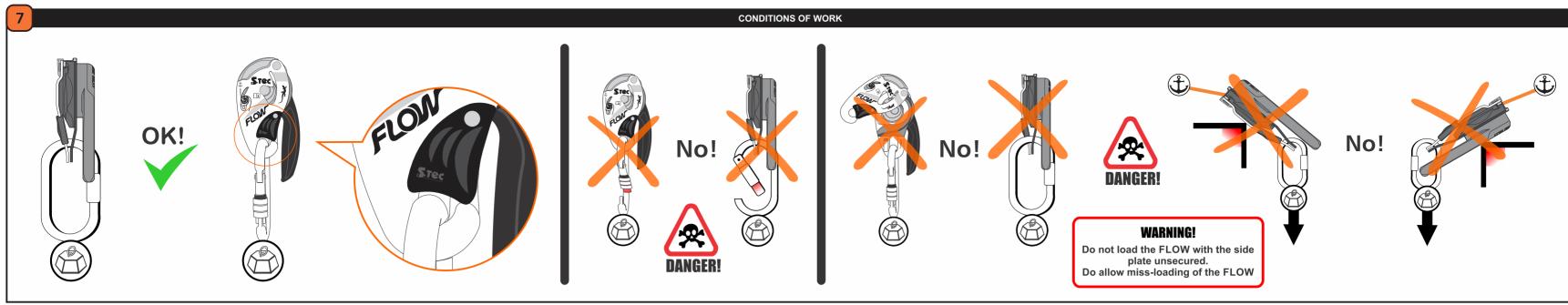
Technique 3 - One *FLOW* Descender is connected to the rescuers harness Ventral (waist) point. The *FLOW* is installed on the main rescuer rope. A suitable back-up device (S.Tec *EN Forcer* or S.Tec *Duck-R*) should be used on an independent back-up rescue rope. Max Load using this technique is 200kg. Technique 4 - One FLOW Descender is connected to the casualty. Connection to either the Dorsal (chest) or Ventral (waist) point. The FLOW is

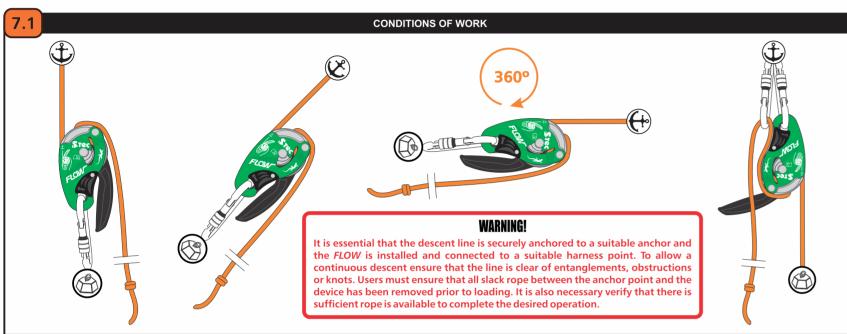
installed on the main rescue rope. A suitable back-up device (S.Tec EN Forcer or S.Tec Duck-R) should be used on an independant back-up rescue rope. Max Load using this technique is 200kg. For both techniques 3 & 4 the lower section of the main rescue rope should be fitted through additional friction karabiner that is attached to

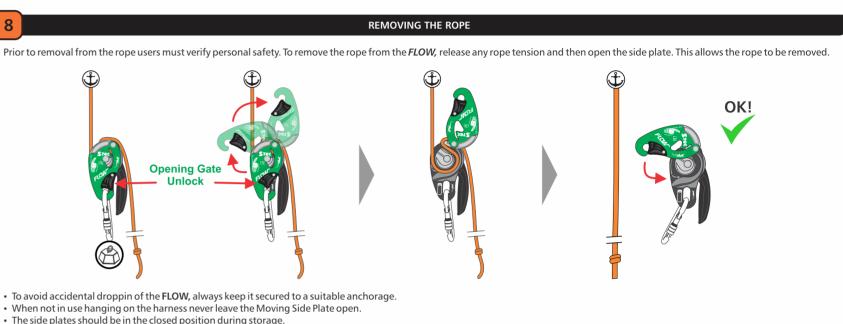
a secure point below the **S.Tec FLOW**. For loads above 200kg this is an essential requirement FUNCTION TESTING IS ESSENTIAL prior to descent. Always begin rescue descents holding the lower sections of both ropes.

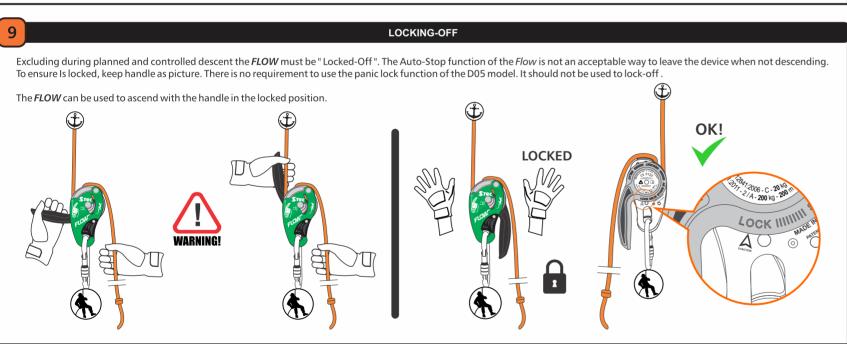


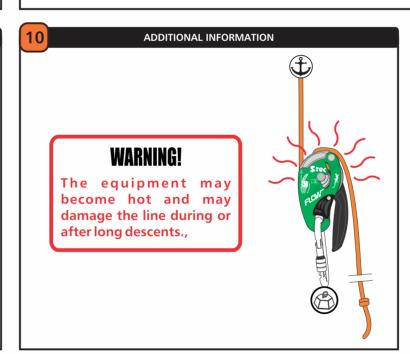
WARNING When the FLOW is used for rescue purposes it











All FLOW Descenders have the COL feature - new concept (Climb On Lock) mode. This feature allows the device to be adjusted or used to climbed with the handle in the LOCK position.

Flow D05 (Green) - COL

With all features the *FLOW* **D05** has: Clip-opening gate to facilitates the installation and removal of the rope, Auto-Stop, anti-panic, **COL** - **climb on lock**, adjust on lock mode. Intended for professional use where the users require anti-panic and opening clip gate to facilitates. *FLOW* **D05** has GREEN moving side plate.

Flow D06 (Black) - COL (no anti-panic feature)

Clip-opening gate, Auto-Stop (NO anti-panic) **COL** - **climb on lock** / adjust on lock mode. Intended for professional use. Opening gate facilitates the placement and removal of the rope. **FLOW D06** has Black moving side plate and subtle shaded etching.

Flow D07 (Red) - COL (no anti-panic feature)

Clip-opening gate and Auto-Stop (NO anti-panic) Intended for use in professional fixed access systems and rescue systems where *FLOW* is pre-installed ready for deployment. This model is ideal for use in Rescue kits and evacuation systems. *FLOW* **D07** has RED moving side plate.

GENERAL INFORMATION

Read and understand this manual prior to use and save for future reference. Only the techniques presented in this manual are authorized. Some examples of miss-use are included, these have a stripe or pictogram of a skull and should be avoided, these are some examples of miss-use, it is impossible to foresee all ways equipment can be miss-used and users should never use equipment in ways that are not 100% verified prior to being used to provide personal safety, in case of doubt contact **SAFETEC**. When any doubt exists regarding its efficiency equipment must not be used.

ROPE CONDITION: Wear, wetness and contaminants will affect the performance of the **FLOW**. Some rope conditions will make control and locking of the **FLOW** more difficult e.g. oil & grease. The effective operation of the **FLOW** should be monitored and checked in all conditions. Where any performance doubt exists, the **FLOW** should not be used.

 $\textbf{SEA WATER:} \ It is essential \ that \ this \ the \ \textbf{FLOW} \ is \ cleaned \ as \ soon \ as \ practicable \ after \ each \ exposure \ to \ sea \ water \ or \ saline \ environment.$

CHEMICAL REAGENT: Avoid contact with any substance or material that may causes corrosion or other damage to the any material or working action of the device. If contact occurs consult expert advice as to damage and decontamination requirements. Inspect prior to any re-use.

MAINTENANCE: The FLOW is not user maintainable without prior authorization from SAFETEC with the exception of disinfection, cleaning and lubrication as detailed in this manual.

DISINFECTION: Following any contamination the source of the contamination should be determined and advice obtained as to suitable disinfecting procedure. After disinfection the device should be re-cleaned. Sterilisation may be required.

CLEANING: If soiled rinse in clean warm water of domestic supply quality (maximum temperature 40°C) with mild detergent at appropriate dilution (pH range 5.5 - 8.5). Dry naturally away from direct heat sources. To remove grease use a detergent that has properties that do not affect the metal or plastic components.

LUBRICATION: It is essential to maintain lubrication of the Cam spring. Lubricate regularly and after cleaning with light machine oil or Teflon or silicone lubricant to ensue free movement of the cam. Wipe off the excess to avoid contamination of ropes and textile equipment. Any excess lubricant **MUST** be completely removed from the device before use.

 $\textbf{STORAGE:} \ Do \ not store \ wet \ or \ when \ contaminated. \ Store \ in \ a \ controlled \ place, secure \ from \ un-authorised \ people$

WARNING – Do not use de-greasing agents as these will remove essential internal lubrication rendering the device inoperable.

LIFESPAN: It is very difficult to define the safe lifespan due to varying use and storage conditions and may be as little as one use, or even earlier if damaged (e.g. in transit or storage) prior to first use. For the product to remain in service it must pass a visual and tactile examination. Maximum lifespan: 10 years from 1st use.

WARRANTY: The **FLOW** has a 3 years warranty against manufacturing defects, proof of purchase required. The warranty does not cover use wear, miss-use, abuse, neglect or any alterations, maintenance or repairs performed outside the factory.

OBSOLESCENCE: This device may become obsolete before the end of its lifespan. Reasons for this may include changes in applicable standards, regulations, legislation, development of new techniques, incompatibility with other equipment etc.

TRANSPORTATION & STORAGE: After cleaning store unpacked in a cool, dry, dark place in a chemically neutral environment away from excessive heat or heat sources, high humidity, sharp edges, corrosives or other possible causes of damage.

DECLARATION OF CONFORMITY: Can be acessed on www.safetecbr.com.br