RETRACTABLE BOLLARDS

A Environment & safety
B Installation
C Use & maintenance
D Spare parts list

A

1°) Description

This product is a semi-automatic bollard. The functioning of which makes it possible to pass from up or down position to release or stop the passage of vehicles. This product prevents or allows for the passage vehicles, it is not an anti-ram bollard and cannot be used for any other function than its primary function of deterrence.

2°) Safety

Operation must be carried out by a sufficiently qualified and trained person who is aware of the risks associated with automatic machines. Before operation, take all the necessary safety precautions: read the instructions completely, learn about the product, isolate the area, clean the area well to prevent the intrusion of objects or particles into the body of the bollard.
Above all, do not intervene during the automatic movement of the bollard to avoid jamming or injury, given the power of the gas piston and the weight of the assembly in motion.
When removing the ground cover Fig 11, make sure that the bollard Fig 3 is in the upper position (if possible) to limit the risks of a possible raising. Be careful when extracting the ground cover Fig 11, the bollard can still rise by 10 to 30 mm.
To extract the bollard Fig 3 and / or the carrier Fig 2, use a means lifting to avoid injury, applying the instructions for the lifting means.

B =>page 2/3 (See diagram B)

C => page 2/3 (See diagram C)

3°) Normal usage conditions

It is only the actuation of the key which allows to pass from one state to another.

- Low position to high position. The bollard rises "automatically" (after using key) pushed by a sealed gas piston until automatic locks in the upper position. Please note to use the key, press the bollard to release pressure on the locking system, for example with the foot.
- High position to low position. The lowering is done after freeing the bollard with the key and by pressing the bollard down until it automatically locks in the lower position.
- Ensure to pay full attention during the movement of the bollard until it is in the locked position.
- Operate bollard at least once a week.
- For correct operation, it must be in the upper position at least 80% of the time (therefore passage closed).

4°) Precautions for use

It is forbidden to:

- Brutally strike the bollard.
- To use the bollard as a lever or as a support system.
- To intervene on the equipment without being qualified.
- Not to be aware of all the instructions and operation and not to respect them scrupulously.
- To leave the bollard unattended if it is not in one of the locked states (high or low position).
- To remove on the screws Fig 12 except in the event of last resort. (The bollard is centred on the guide carrier during manufacture).
- To modify the product without authorisation from the manufacturer

5°) Maintenance

5-1°) Maintenance

- Periodically (12 months or less depending on the conditions of use or the environment) oil and grease the locking mechanism and more particularly the contacts and guides without removing it (Fig 7).
- Remove the ground cover Fig 11 to gain access.
- Periodically (or when lifting difficulties are observed), extract the carrier + bollard assembly (Fig 2 + 3) vertically after removing the ground cover Fig 11 using suitable lifting means. Clean and lubricate the tubes which slide one inside the other, which are directly located around the gas piston Fig 17. Take the necessary precautions not to allow entry of particles such as sand or the like that could interfere with sliding mechanism.
- After each refitting of the ground cover Fig 11, ensure to place it suitably to reveal the locking system. Centre the ground cover well so as not to scratch the bollard Fig 3 during operation.

5-2°) Troubleshooting

A°) No locking in the lower position

- A1°) Check that there is no object blocking the bottom of the carriers' course and that the carrier shim Fig 21 (lower) is in its place.
- A2°) Check whether the rotation of the latches (and more particularly the lower latch) is working correctly via the control rod actuated by the operating key. If necessary, oil then grease the contacts and guides (locking system Fig 7
- A3°) Check the presence, the correct position and the condition of the pins on the control rod (locking system Item 7).

B°) Not locking in high position

- B1°) Check that there is no object blocking the upper limit of the carriers' course between the carrier Fig 2 and the ground cover Fig 11
- B2°) Check whether the rotation of the latches (and more particularly the upper latch) is working correctly via the control rod actuated by the operating key. If necessary, oil then grease the contacts and guides (locking system Fig 7).
- B3°) Check the presence, the correct position and the condition of the pins on the control rod (locking system Item 7).
- B4°) Check the travel of the whole of the carrier + bollard (Fig 2+ 3). This assembly must slide without encountering a "hard" point until the end of the stroke of the gas piston (without the presence of the ground cover Fig 11).
- B5°) If the problems are not resolved, it is necessary to remove the bollard (Fig 2 + 3) and the ground cover Fig 11 to check the operation of the gas piston. Be aware, this is a very heavy part. Take the necessary precautions and means so as not to cause injury
- B6°) Check the force of the gas piston Fig 17 as recommended by the bollard manufacturer

C°) Unable to turn the key

- C1°) Press firmly with your foot on the bollard Fig 3 to take up the play at the end of the stroke and hold it to activate the operating key Fig 23
- C2°) Check that there is no object blocking the moving parts of the lock Fig 7
- C3°) Oil then grease the joints of the moving parts
- C4°) Check the correct position of the cam drive pins Fig 7

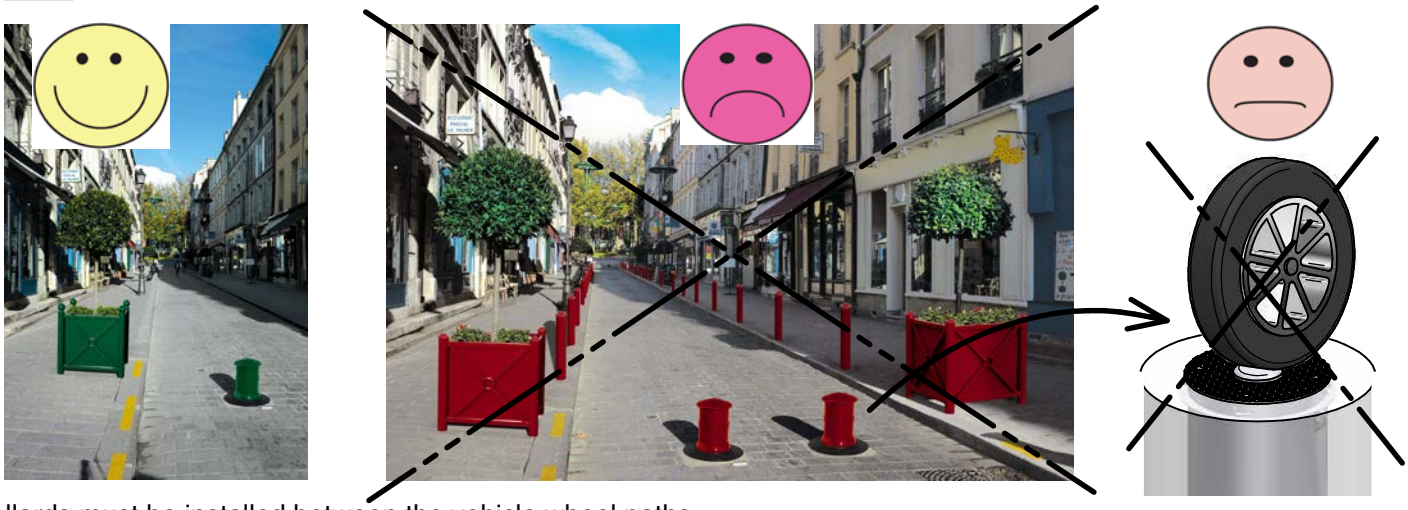
D°) In case of impact

Contact the PROCITY after sales service and / or check all the previous points

6°) Environmental precautions

You must comply with local regulations for recycling, when disposing of packaging or components such as, for example, the gas piston

B

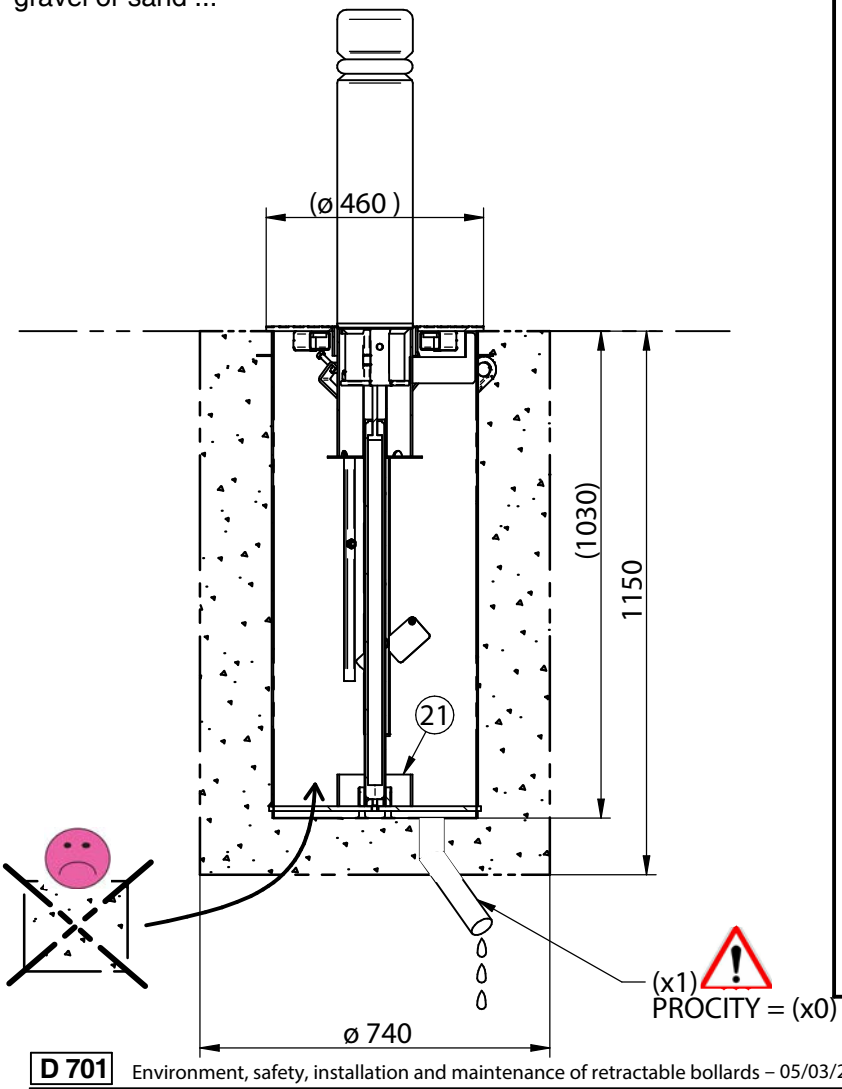


Bollards must be installed between the vehicle wheel paths to prevent vehicles driving on it and thus limit fatigue on the locking system

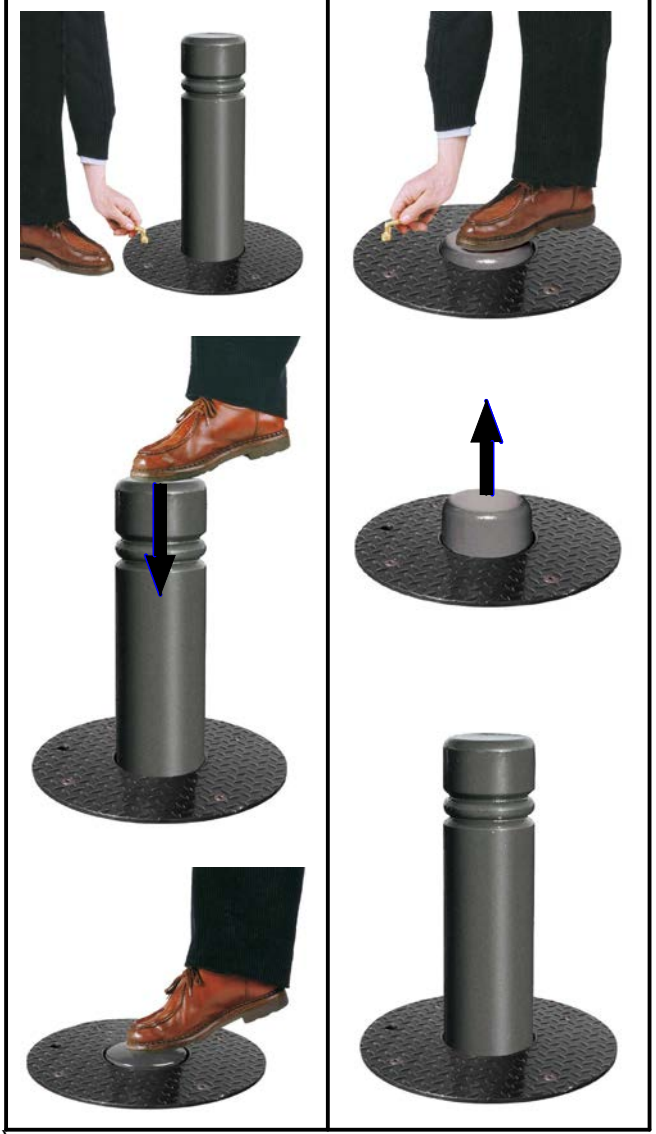
When installing, it is imperative to provide a drain for the evacuation of water

Ensure that particles (gravel, concrete, sand, etc.) do not come up inside the bollard, to leave a space for detritus and not to jam the carrier at the bottom of its course

Ensure that the carrier shim Fig 21 is in place and has not been raised during installation under pressure exerted by gravel or sand ...



C



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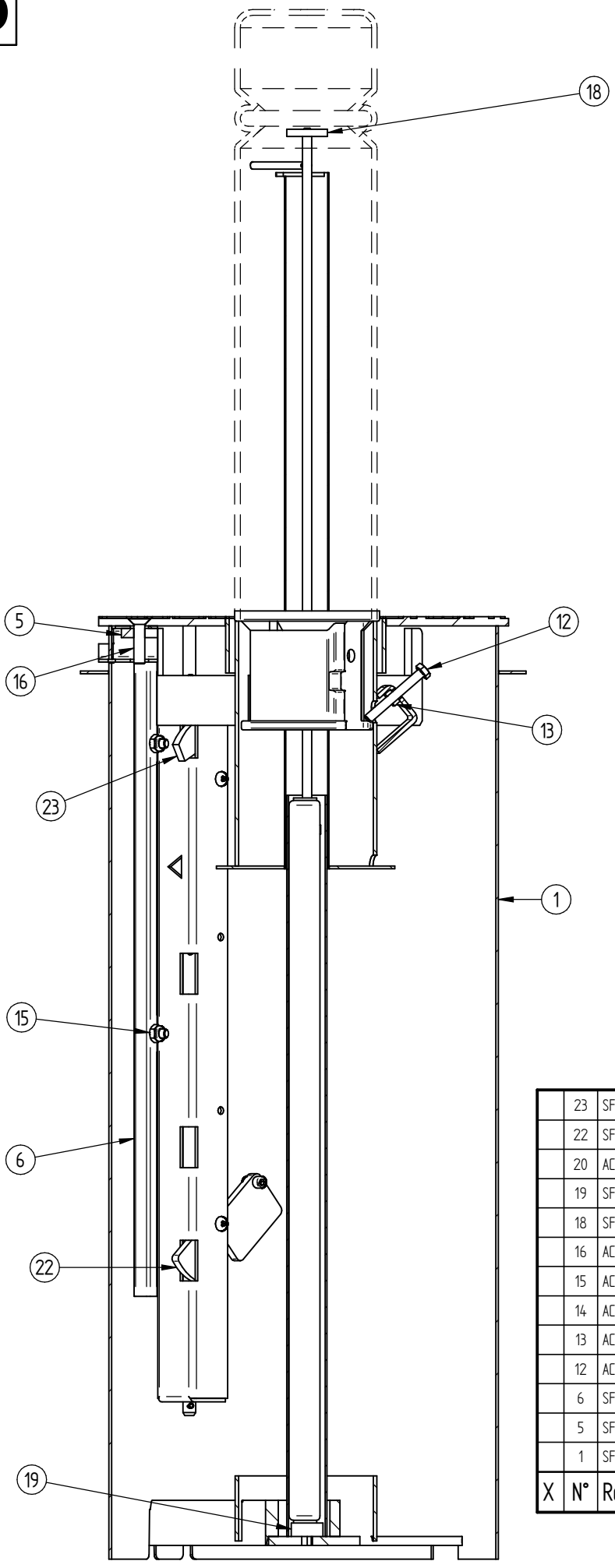

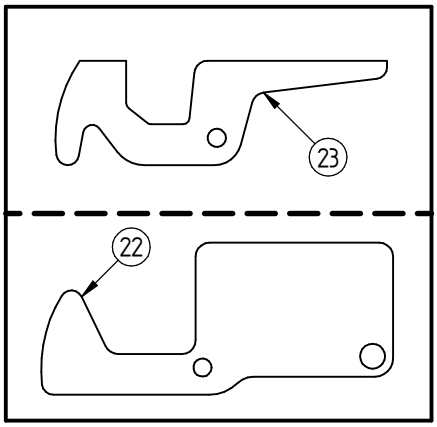

	23	SFI206501-55	1	PENE HAUT
	22	SFI206501-54	1	PENE BAS
	20	ACC220212	2	Vis H M10x25 - ZN
	19	SFI206501-47	1	RONDELLE DE GUIDAGE ET D'APPUI
	18	SFI206501-43	1	RONDELLE DE GUIDAGE ET D'APPUI
	16	ACC222370	4	VIS FHC M12x50 Inox A2-70 - Filetage Total
	15	ACC05038	4	Ecrou frein M10 Inox
	14	ACC220682	2	Vis H M10x40 Entièrement filetée ZN Classe 8.8
	13	ACC04975	4	ECROU M10 Q carre ZN
	12	ACC22414	4	Vis H M10x80 A2-70 entièrement filetée
	6	SFI206501-38	1	RETENU DE VERRROUILLAGE
	5	SFI206501-48	4	PLAT ECROU M12
	1	SFI206501-F	1	CORPS BORNE RETRACTABLE
X	N°	Références	Qté	Description