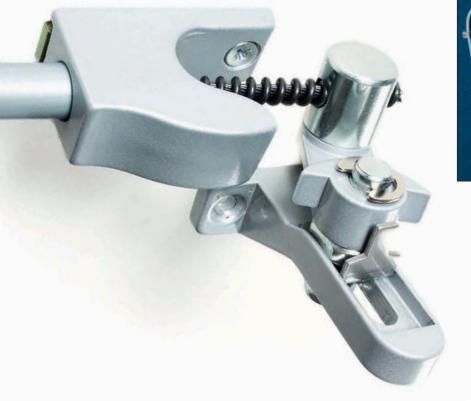
## **LOCKING OPENERS**

Opening mechanisms for bottom hinged windows



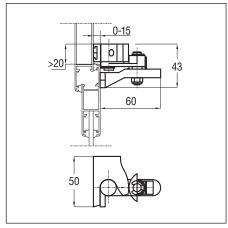


 PART No.
 WHITE
 RAL 9010
 30754Y

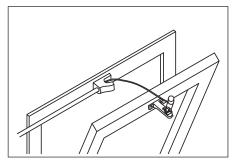
 BLACK
 RAL 9005
 37156M

 GREY
 RAL 9006
 37239Q

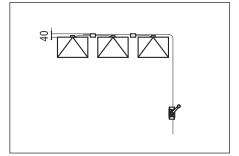
- It can only open bottom hinged windows which not require pushing force for the opening.
- Minimum size; the needed space for the installation is 20 mm from the vent external limit
- Maximum opening stroke: 25 cm; it can be adjusted on the end stroke spring placed in correspondence of the control operator.
- For windows with height inferior to 50 cm it is necessary to reduce the stroke to 1/3 of the window height.
- It is not necessary to work the conduit.
- In systems with more windows it is necessary to use rotary junction boxes to transmit the cable movement from the main line to the auxiliary ones.
- For windows wider than 1,5 m it is necessary to apply two or more thrust points.



Locking opener dimensions



Examples of single installation



Examples of multiple installation

The dimension are measured from the external limits of the vent and show the minimum necessary space



The instructions for a safe installation are included in the section "SECURITY WARNINGS". On bottom hinged windows for safety reasons always install side checks.



- BRAVO is a fast assembly kit for single bottom-hinged window whose width does not exceed 1,5 m.
- Minimum space required: 20 mm from the vent upper profile.
- The conduit is supplied in 0.6 m bars, drown at one end: speed of assembly is ensured thanks to its insertion, with no need of joints.
- One bar of the conduit is already bended (50 mm radius), there is no need of any tool.
- Blister package for display in the shop, easy transport and storage guaranteed.
- Maximum opening: 250 mm; the kit is supplied complete with a pre-cut spent travel tube.
- For vents lower than 500 mm, reduce the stroke to 1/3 of the height by adjusting the end stroke spring, located by the control operator.

NOTE: to open more than one window, loose elements must be ordered (see pages 64-68).





The instructions for a safe installation are included in the section "SECURITY WARNINGS". On bottom hinged windows for safety reasons always install side checks.

4,25 m

40650U

6,05 m

40651W

### PART No.

Color

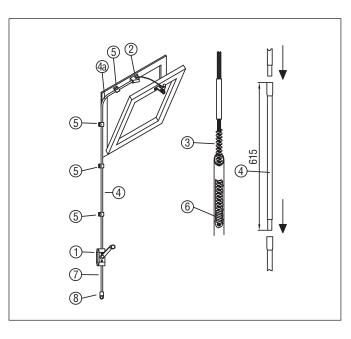
Conduit length

		BLACK	40652Y	40653A	40654C				
		GREY	40655E	40656G	40657J				
Items contained in BRAVO									
Pos.	Description		Q.ty	Q.ty	Q.ty				
1	Flat operator	r	1	1	1				
2	Locking ope	ner	1	1	1				
3	Cable		3,5 m	4,7 m	6,5 m				
4	Conduit		4	6	9				
4A	Bent conduit	t	1	1	1				
5	Saddle		4	6	8				
6	Lock spring		1	1	1				
7	Spent travel tube		1	1	1				
8	End plug		1	1	1				

3,05 m

40649K

WHITE

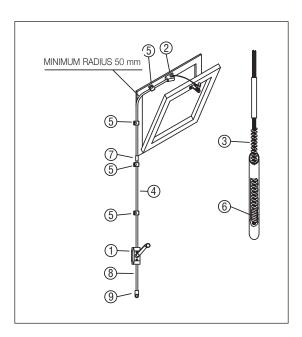


# **KIT** for single bottom hinged windows with rope



 $\wedge$ 

The instructions for a safe installation are included in the section "SECURITY WARNINGS". On bottom hinged windows for safety reasons always install side checks.



### PART No.

Conduit length		3,00 m	4,50 m	6,00 m
Color	WHITE	40166J	40167K	40168N
	BLACK	40171G	40172H	401731
	GREY	40194R	40195S	40196T

### Items contained into the KIT

Description	Q.ty	Q.ty	Q.ty
Flat operator 1	1	1	
Locking opener 1	1	1	
Cable	3 m	4,5 m	6 m
Conduit	3 m	4,5 m	6 m
Saddle	4	8	8
Lock spring	1	1	1
Connector	0	1	1
Spent travel tube	1	1	1
End plug	1	1	1
	Flat operator 1 Locking opener 1 Cable Conduit Saddle Lock spring Connector Spent travel tube	Flat operator       1         Locking opener 1       1         Cable       3 m         Conduit       3 m         Saddle       4         Lock spring       1         Connector       0         Spent travel tube       1	Flat operator         1         1         1           Locking opener 1         1         1         1           Cable         3 m         4,5 m           Conduit         3 m         4,5 m           Saddle         4         8           Lock spring         1         1           Connector         0         1           Spent travel tube         1         1