

SUB

Underground automation for swing gates with leaf length up to 3.5 mt and weight up to 800 kg, residential and apartment-block use



A practical, elegant yet invisible champion

Tightly sealed single block with hydraulic control unit - jack

Reversible or irreversible versions

End-of-stroke device set by means of a timer on control panel

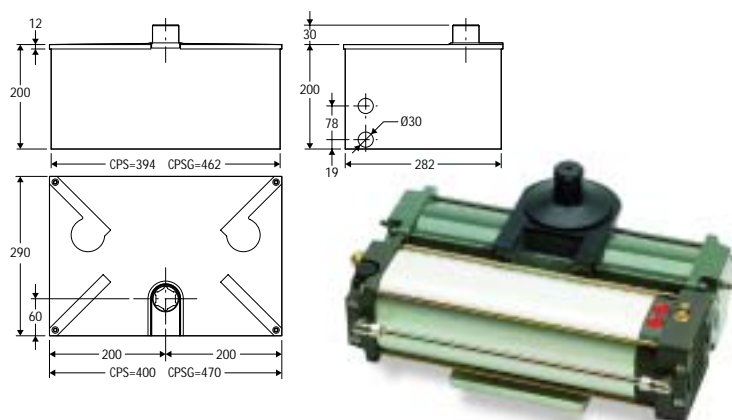
Anti-squash safety guaranteed by two adjustable valves

Hydraulic lock on opening and closing



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- SUB is an hydraulic actuator consisting of a single block containing a hydraulic control unit and a jack, particularly suitable for underground hinge-pivot installations inside prestigious environments.
- Available with hydraulic or reversible lock and with slow-down device on opening and closing.
- Possibility of opening the leaves up to 180°.
- Anti-squash safety guaranteed by two by-pass valves which adjusts the force on opening and closing.
- Easy maintenance: the special foundation case makes it possible to extract the operator without dismantling the leaf of the gate.

Technical specifications

Operators	SUB	SUB R	SUB G
Single-phase power supply		230V~ ± 10% -50 Hz	
Absorbed power		250W	
Thermal protection		built-in	
Max. leaf weight		8000 N (~800 kg)	
Leaf length		1,8 mt	
Max. opening angle	130°	130°	180°
Rotation speed	5,4 °/sec	9 °/sec	5,4 °/sec
Slow-down	-	closing/opening	-
Impact reaction		hydraulic clutch	
Block type		hydraulic on closing/opening	
Manual manoeuvre		release key	
No. of manoeuvres in 24 hours		500	
Environmental conditions		from -10°C to +60°C	
Protection degree		IP 67	
Operator weight	220 N (~22 kg)	220 N (~22 kg)	240 N (~24 kg)

Operators	SUB E	SUB EL	SUB ER	SUB EG
Single-phase power supply			230V~ ± 10% -50 Hz	
Absorbed power			250W	
Thermal protection			built-in	
Max. leaf weight			8000 N (~800 kg)	
Leaf length	2,5 mt	3,5 mt	2,5 mt	2,5 mt
Max. opening angle	130°	130°	130°	180°
Rotation speed	5,4 °/s	3,9 °/s	9 °/s	5,4 °/s
Slow-down	-	-	closing/opening	-
Impact reaction			hydraulic clutch	
Block type			electric lock	
Manual manoeuvre			reversible	
No. of manoeuvres in 24 hours			500	
Environmental conditions			from -10°C to +60°C	
Protection degree			IP 67	
Operator weight	220 N (~22 kg)	220 N (~22 kg)	220 N (~22 kg)	240 N (~24 kg)

Accessories

CPS
Bearing foundation case for SUB controller fitting. Maintenance can be carried out without disassembling the gate.

CID
Package containing cover, half-boxes, foundation plate and different accessories for building a foundation case with direct assembly of the leaf onto the

gearmotor (can only be installed with motor).

BSC
Sliding arm for SUB and SUB L fitting to one side of the hinge-pivot. Needed to avoid disassembling the gate during installation when CPS is not used.

CLS/82
Release key for SUB model.



ALCOR SD
• Control panel for the management of one or two single-

phase operators with a power of up to 2X250W with torque setting option.

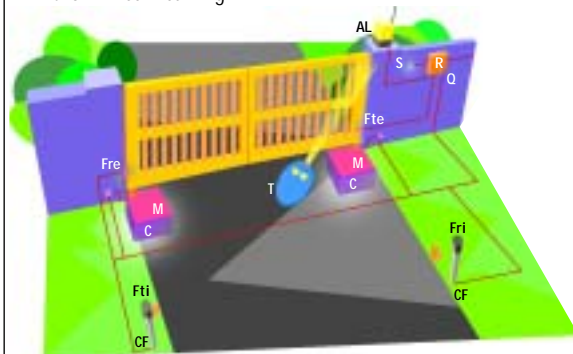
• 4-step logic with automatic or semi-automatic operation. Programmable delay of second motor on closing. System easy check provided by a set of LEDs.

• Universal connector for radio-receiver. Extractable terminal bars for easier installation, maintenance or replacement operations.

Example of installation

M. SUB SC right-handed hydraulic, controller with lock
M. SUB SC left-handed hydraulic, controller with lock
CS. CPS right-handed bearing foundation case
CS. CPS left-handed bearing foundation case
Q. ALCOR control unit
R. CLONIX1 self-learning

rolling code single-channel receiver
T. MITTO2 double-channel transmitter with rolling code coding
Ftx-Frx. CELLULA130 photocells
CF. CC130 photocells posts
AL. LAMPO PA with SL433
S. INTRO key selector



For system composition and installation conditions refer to the regulations in force in the country where the system is being installed. The indicated data are not binding. BFT reserves the right to make modifications without prior notice.