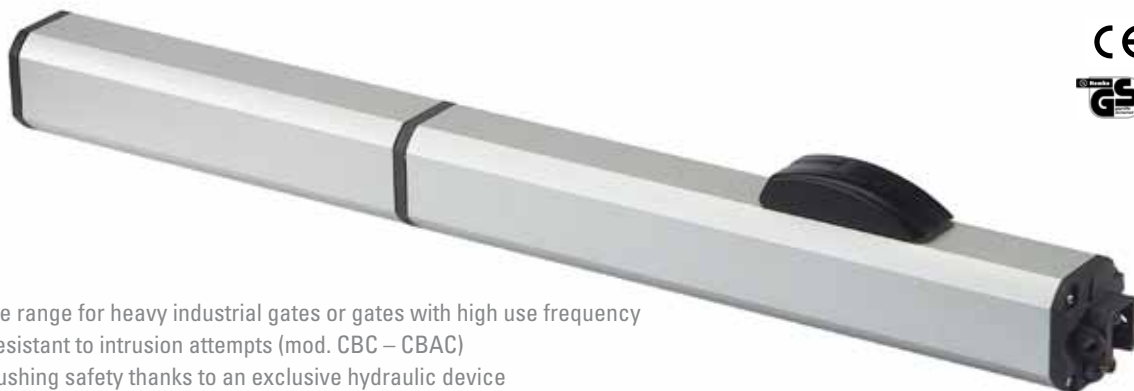


# Hydraulic operator

for condominium and industrial swing-leaf gates

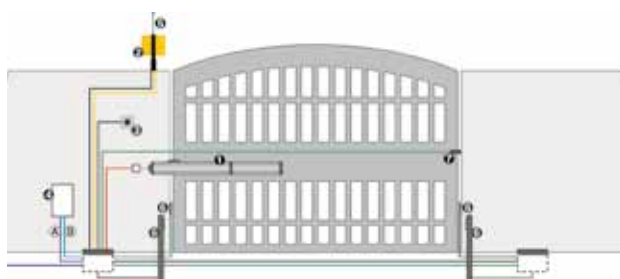


- Wide and versatile range for heavy industrial gates or gates with high use frequency
- Hydraulic block resistant to intrusion attempts (mod. CBC – CBAC)
- Maximum anti-crushing safety thanks to an exclusive hydraulic device
- Very silent movement
- Key-protected release device

## DIMENSIONS AND TECHNICAL SPECIFICATIONS OF 400

	400 CBC	400 CBAC	400 SB	400 SBS	400 CBACR	400CBAC LN	400 SB LN
Power supply voltage	230 Vac (+6% -10%) 50 (60) Hz						
Absorbed power	220 W						
Absorbed current	1 A						
Motor rotation speed	1400 r.p.m.						
Rod extension speed	1 cm/s		0.75 cm/s		1.5 cm/s		
Pump flow rate	1 l/min		0.75 l/min		1.5 l/min		
Traction and thrust force	0 to 620 daN		0 to 775 daN		0 to 465 daN		
Operating ambient temperature	-20 °C to +55 °C						
Thermal protection on motor winding	120 °C						
Weight	8.6 kg					10 kg	
Type of oil	FAAC HP OIL						
Protection class	IP 55						
Dimensions (L x D x H) in mm	1,031 x 113 x 85 mm - long version 1,285 x 113 x 85 mm						

## EXAMPLE OF A TYPICAL INSTALLATION



### ■ (A) Low voltage cabling

- 3 cables 3x0.50
- 1 cable 2x0.50

### ■ (B) Power cabling (230 V)

- 2 cables 3x1.50+T
- 1 cable 2x1.5+T
- 1 cable 2x1.5

N.B.: Cable sections in mm<sup>2</sup>

Ref.	Q.ty	Description	Item code	Price (euro)
1	1	Operator 400 SBS	104203	
4	1	Control board 452 MPS	790916	
4	1	Enclosure mod. L	720118	
5	1	Receiver RP 433 SLH	787824	
	1	Two-channel transmitter XT2 433 SLH	787003	
2	1	Flashing lamp FAACLIGHT	410013	
6	2	Pair of FOTOSWITCH photocells	785152	
6	2	Aluminium columns for FOTOSWITCH	401028	
	2	Foundation plates for columns	737630	
5	1	Key-operated push-button T10	401010001/36	
	3	Plastic enclosure to be walled in	720086	
7	1	Electric lock	712650+ 712651001/36+ 712652001/36	
	1	Pillar mounted counter strike	712990	
<b>TOTAL</b>				

### Notes

**IMPORTANT:** The configuration does not include the safety devices (i.e.: active or passive safety edges) that are to be determined according to the specific "risk analysis" of each installation (Ref.: UNI-EN 12445 and 12453 European Standards).

• The indicated price does not include the installation costs and the expenses for masonry, electrical and metalwork preparations.

## 400

Model	Use		Control unit	Item code	Price (euro)
	Single-leaf max. width (m)	Use frequency (cycles/hour)			
400 CBC	2.20	70	Not included	104205	
400 SB	4.00	70	Not included	104206	
400 SBS	7.00	60	Not included	104203	
400 CBAC	2.20	70	Not included	104201	
400 CBACR	2.20	80	Not included	104207	
400 CBAC long	2.20	50	Not included	104202	
400 SB long	2.50	50	Not included	104204	

The 400 packages contain: a hydraulic operator with closing hydraulic block (400 CBC), without hydraulic block (400 SB and SB LN), without hydraulic block for heavy or panelled leaves (400 SBS), a hydraulic operator with hydraulic block at opening/closing (400 SBAC and CBAC LN), a hydraulic operator with hydraulic block at opening and closure, with faster activation speed (400 CBACR), installation accessories, a release key, a thrust capacitor 8  $\mu$ F 400 V.

### CONTROL UNITS



**Control board 452 MPS**  
Technical specifications page 148

Item code 790916  
Price (euro)



**Control board 455 D**  
Technical specifications page 149

Item code 790917  
Price (euro)



**Control board 462 DF**  
Technical specifications page 150

Item code 790918  
Price (euro)

#### Enclosure mod. L for control boards

Item code 720118  
Price (euro)

#### Enclosure mod. E for control boards

Item code 720119  
Price (euro)

#### Enclosure mod. LM for control boards

Item code 720309  
Price (euro)

### SPECIFIC ACCESSORIES



**Union for sheath RTA**

Item code 710010  
Price (euro)



**Plate for walling-in**

Item code 737604  
Price (euro)



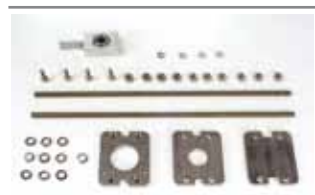
**Release lock with customised key from no. 1 to no. 36**

Item code 712501001 to 712501036  
Price (euro)



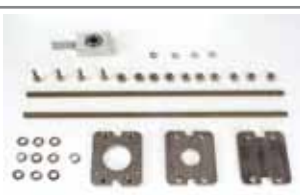
**Gatecoder obstacle detection kit (with reversing function)**  
Technical specifications page 161

Item code 104485  
Price (euro)



**Positive Stop - mechanical stops at opening/closing (can be integrated on the 400 mod.)**

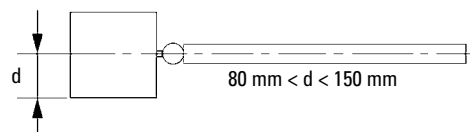
Item code 490042  
Price (euro)



**Positive Stop - mechanical stops at opening/closing (can be integrated on the long 400 mod.)**

Item code 490043  
Price (euro)

FIG. 1



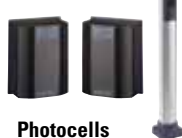
#### Notes

- An electric lock should be installed for operators without a block facility.
- Use the 400 long models to avoid niches on the masonry pilasters (FIG.1).
- The operator with block facility is not recommended when there is no access to the manual release device (panelled leaves or no other access to the property).

### OTHER ACCESSORIES



**Key-operated push-buttons**  
page 185



**Photocells and Columns**  
page 189



**Safety devices**  
page 191



**Flashing lamps**  
page 193



**Transmitters**  
page 182



**Various accessories**  
page 194

# 422 - 422 ped.

## Hydraulic operator

for residential and condominium swing-leaf gates with single-leaf max width of 1.8 m (422 CBC-CBCS-CBAC-CBACS) and 3 m (422 SB-SBS) with single pedestrian leaf width from 0.8 m to 1.2 m (422 PED CBC-SB)

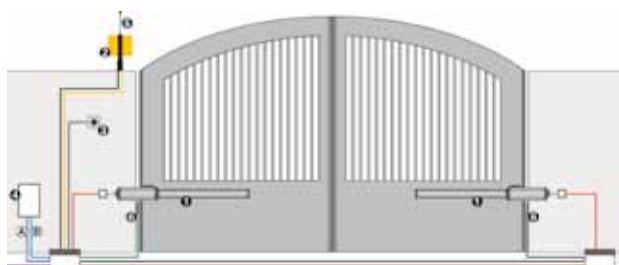


- A wide versatile range.
- Maximum anti-crushing safety thanks to an exclusive hydraulic device.
- Anti-corrosion cover with high weather resistance.
- Key protected, release device.

### DIMENSIONS AND TECHNICAL SPECIFICATIONS OF 422 - 422 PED.

	422 CBC	422 CBAC	422SB	422 CBCS	422 CBACS	422 SBS	422 PED. CBC	422 PED. SB
Power supply voltage	230 Vac (+6% -10%) 50 (60) Hz							
Absorbed power	220 W							
Absorbed current	1 A							
Motor rotation speed	1400 r.p.m.							
Rod extension speed	1.3 cm/s			1 cm/s		2 cm/s		
Pump flow rate	1 l/min			0.75 l/min		1.5 l/min		
Traction and thrust force	0 to 500 daN			0 to 690 daN		0 to 380 daN		
Operating ambient temperature	-20 °C to +55 °C							
Thermal protection on motor winding	120 °C							
Weight	7 kg							
Type of oil	FAAC HP OIL							
Protection class	IP 55							
Dimensions (L x D x H) in mm	987 x 120 x 85 mm - pedestrian 827 x 120 x 85 mm							

### EXAMPLE OF A TYPICAL INSTALLATION



#### ■ (A) Low voltage cabling

- 3 cables 3x0.50
- 1 cable 2x0.50

#### ■ (B) Power cabling (230 V)

- 2 cables 3x1.50+T
- 1 cable 2x1.5+T
- 1 cable 2x1.5

N.B.: Cable sections in mm<sup>2</sup>

Ref.	Q.ty	Description	Item code	Price (euro)
①	2	Operator 422 CBCS	104208	
④	1	Control board 452 MPS	790916	
④	1	Enclosure mod. L	720118	
	1	Receiver board RP 433 SLH	787824	
	1	Two-channel transmitter XT2 433 SLH	787003	
	1	Flashing lamp FAACLIGHT	410013	
⑥	1	Pair of photocells SAFEBEAM	785165	
⑧	1	Key-operated push-button T10 E	401019001/36	
<b>TOTAL</b>				

#### Notes

**IMPORTANT:** The configuration does not include the safety devices (i.e.: active or passive safety edges) that are to be determined according to the specific "risk analysis" of each installation (Ref.: UNI-EN 12445 and 12453 European Standards).

- The indicated price does not include the installation costs and the expenses for masonry, electrical and metalwork preparations.

## 422 - 422 PED.

Model	Use		Item code	Price (euro)
	Single-leaf max. width (m)	Use frequency (cycles/hour)		
422 CBCS	1.80	55	104208	
422 CBACS	1.80	55	104209	
422 SBS	3.00	55	104210	
422 CBC	1.80	55	104211	
422 CBAC	1.80	55	104200	
422 SB	3.00	55	104212	
422 PED. CBC	1.20 (min 0.80)	70	104213	
422 PED. SB	1.20 (min 0.80)	70	104214	

The **422 packages contain:** a hydraulic operator with closing hydraulic block (**422 CBC-CBCS**), with opening/closing hydraulic block (**422 CBAC-CBACS**), without block (**422 SB-SBS**), installation accessories, a release key, a thrust capacitor 8 µF 400 V.

The **422 PEDESTRIAN CBC-SB packages contain:** a hydraulic operator for pedestrian crossings with hydraulic block at closure (**422 PED.CBC**), without hydraulic block (**422 PED. SB**), installation accessories, a release key, a thrust capacitor 8 µF 400 V.

## CONTROL UNITS



**Control board 452 MPS**  
Technical specifications page 148

Item code 790916  
Price (euro)



**Control board 455 D**  
Technical specifications page 149

Item code 790917  
Price (euro)



**Control board 462 DF**  
Technical specifications page 150

Item code 790918  
Price (euro)

### Enclosure mod. LM for control boards

Item code 720309  
Price (euro)

### Enclosure mod. L for control boards

Item code 720118  
Price (euro)

### Enclosure mod. E for control boards

Item code 720119  
Price (euro)

## SPECIFIC ACCESSORIES



**Plate for walling-in**

Item code 737604  
Price (euro)



**Release lock with customised key**  
from no. 1 to no. 36

Item code 712501001 to 712501036  
Price (euro)



**Gatecoder obstacle detection kit**  
(with reversing function)  
Technical specifications page 161

Item code 104485  
Price (euro)

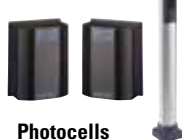
### Notes

- An electric lock should be installed for operators without a block facility.

## OTHER ACCESSORIES



**Key-operated push-buttons**  
page 185



**Photocells and Columns**  
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**Safety devices**  
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**Flashing lamps**  
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**Transmitters**  
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**Various accessories**  
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