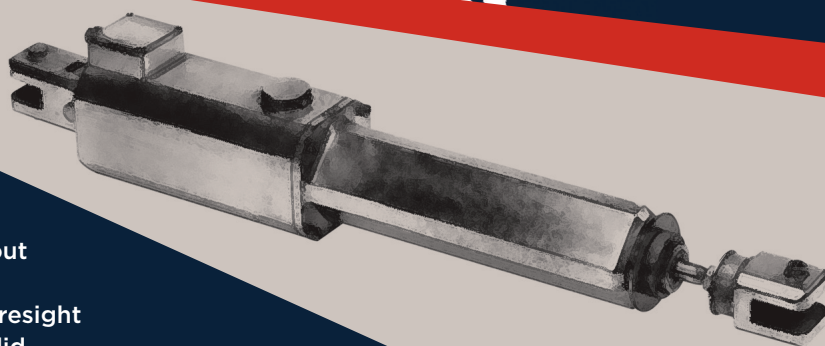




GIUSEPPE MANINI

WHEN AN IDEA CHANGES THE WORLD

Innovation, the ability to push ourselves beyond established practice, the courage to cross frontiers and open up many more: these are the values which have inspired the FAAC Group throughout its history, right from its foundation in 1965. So many different chapters, all marked by a foresight and a pioneering spirit which represent the solid foundations on which the Group continues to build. 50 years on from its foundation, FAAC is taking the opportunity to celebrate these values, paying tribute to those who first set out new goals, embodying the very approach that has always distinguished the company, its employees and its partners. A recognition dedicated to an inventor and a pioneer who significantly improved our daily lives, initially in Italy and then all over the world. An innovative genius that Giuseppe Manini instilled and nurtured in FAAC right from its foundation, sensing that a successful and sustainable business is based on providing simple and effective solutions to our daily needs. Solutions which opened the doors to much, much more.



hydraulic operator
beginning of the 70's

FAAC SpA



The future has fifty years of history behind it



Sixteen manufacturing plants, two electronic and one mechanical research departments, 30 subsidiaries in 24 countries, over eighty distributors all over the world: FAAC is the undisputed leader in automated systems for opening gates and is a very important company in the European industrial system.

We have a very wide range of products:

- operators for swing-leaf gates;
- gearmotors for sliding gates;
- barriers;
- automatic doors;
- parking systems;
- access control systems;
- operators for shutters;
- operators for rolling shutters and sun blinds.

INNOVATION

In 1965 we introduced hydraulics in the gate opening sector and, through the years, we have perfected this technology, adapting it to a multiplicity of needs. Today FAAC automated systems satisfy both intensive use - just think of the millions of manoeuvres per year of motorway barriers - and price sensitive use, as in the case of the 402 residential operator. We began making our own electronic equipment at the end of the 80s: these include control units, radio controls, as well as safety and signalling systems. FAAC is always a step ahead in electronics too: we were the first to use microprocessors in control units, SMT technology as well as simplified self-learning in radio controls.

SAFETY

FAAC has always given maximum attention to accident prevention and safety for gates and door automated systems. This awareness is proven by our "historic" choice of hydraulic technology, defined as the safest, and by conformity of our products to very latest European and US standards. As an example: before putting the European CE mark on its products, FAAC arranged for an independent laboratory to test them, not just individually but in all their possible combinations in an installation. This means that, in FAAC's case, observing the European standards is not just paying lip-service through mere self-declaration but something evaluated by a recognised organisation.

ORGANIZATION

FAAC has strengthened itself through the years also in terms of in-house organization, with the aim of guiding and anticipating the development of the company, through its evolving organization structure. The lay-out of company divisions/posts and the creation of integrated company policies derive from various factors, which include: development of complex sales networks in over eighty countries, three production plants and direct branches in fourteen nations, overall work-force of more than one thousand employees and consolidated revenue of which over 60% is obtained outside the home country.



THE BOLOGNA HEADQUARTERS AND PLANT

The company's headquarters and production plant are in Zola Predosa, in the industrial area of Bologna. Here the operators for automating the accesses are designed, built and tested. FAAC is organized in keeping with the model of leading modern industrial companies and its internal architecture, too, meets space functionality needs. A highly developed IT system manages all important aspects - technical, production, administrative and control - thus increasing overall response capacity and individual efficiency. The plant system, with its modern organization, provides output capacity of over 800,000 operators per year. FAAC's research in mechanics, hydraulics and digital electronics enables it to implement on-going technical and technological renewal, assuring its undisputed position at the forefront of its sector.

THE FAAC ELECTRONICS LTD. PLANT IN DUBLIN

FAAC ELECTRONICS Ltd. is based in Dublin, Ireland. Here, its modern plant performs research, design and production of electronic equipment on the leading-edge of technology. FAAC ELECTRONICS Ltd. became an integral part of the FAAC group at the end of the 80s, specialising in the production of electronic access control units. The overall electronic production of FAAC is concentrated here: microprocessor control equipment, infra-red photocells, radio controls and coded opening systems. Close co-operation between the Bologna and Dublin design and research departments enables FAAC to offer systems with maximum integration of components and products, thus further enhancing overall quality and reliability.

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Type of installation

external motor

Residential	390	415	S418	S450H
		415		S450H
Condominium				
Leaf max length	14 ft	15 ft	12 ft	14 ft CBAC
				17 ft SB
Leaf max weight	600 lb	700 lb	500 lb	1,100 lb

in-ground motor

Residential	770N	S800H
		S800H
Condominium		
Leaf max length	10 ft	13 ft CBAC
		16 ft SBW
Max leaf weight	1100 lb	1,760 lb



Automated Systems
for Swing-leaf Gates
Low Voltage

Electromechanical swing gate operator

for residential swing-leaf gates with maximum leaf width of 12 ft (3.7m)



- Sleek design
- Opening and closing mechanical stops built in
- Effective stroke of 13.8" (350mm)
- New "multi-position" bracket for non-welded installation
- Maximum safety thanks to the E024U control board reverse on contact feature
- Built in battery backup to ensure operation in case of power outage
- UL325 Listed



TECHNICAL SPECIFICATIONS

Input Voltage	24 Vdc
Power	35 W
Current	1.5 A
Maximum thrust	404 lbf (180 daN)
Rod stroke	13.8 in (350 mm)
Rod stroke without mechanical stops	15.3 in (390 mm)
Rod extension speed	0.7 in/s (1.8 cm/s)
Leaf max. width	12 ft (3.7 m)
Leaf max. weight	500 lb (227 Kg)
Operating ambient temperature	-4°F ÷ 131°F (-20°C ÷ +55°C)
Use frequency	continuous
Operator Weight	13.2 lb (6 kg)
Dimensions (L x D x H)	32.5 x 4 x 4.9 in (825x104x125mm)
Protection class	IP 54

Notes

- Mounting dimensions, wind factor and gate design will affect performance specification
- Use frequency is measured at an ambient temperature of 72 °F (20 °C). Temperature variation will affect it.
- An electric or magnetic lock is recommended for any gate longer than 12 ft (3.6 m).

S418

Model	Shipping Wt (approx)	Part Number	Price
S418 - Basic Single Kit	48 lb (21.8 Kg)	104301.5	\$1,612
S418 - Operator only	18 lb (8.2 Kg)	10430115	\$650
S418 - LE Single Kit	48.5 lb (22 Kg)	999001	\$1,440
S418 - LE Dual Kit	66 lb (30 Kg)	999002	\$2,090

The package S418 - Basic Single Kit contains:

Q.ty	Description	Part Number
1	Operator S418	10430115
1	E024U control board	202025
1	Power supply	750007
1	Enclosure	3350
2	Batteries 12V 8 Ah	3540
1	Receiver 433 RC Plug In	787741
2	4-channel transmitter XT4 433 RC	787453

To make a master/slave (bi-parting) kit add these parts

Q.ty	Description	Part Number
1	Operator S418	10430115
-	AWG 12 - 2 conductors cable (operator) *	2197

(*) Order the length of cable needed for the application. Up to 40' can be added at no charge.

The package S418 - LE Single Kit contains:

Q.ty	Description	Part Number
1	Operator S418	10430115
1	E024U control board	202025
1	Power supply	750007
1	LE type Enclosure	3350LE
2	Batteries 12V 8 Ah	3540

The package S418 - LE Dual Kit contains:

Q.ty	Description	Part Number
2	Operator S418	10430115
1	E024U control board	202025
1	Power supply	750007
1	LE type Enclosure	3350LE
2	Batteries 12V 8 Ah	3540

ACCESSORIES

Description	Shipping Wt (approx)	Part Number	Price
Loop Detector Interface		2670	\$120
10 Pin Plug in Loop Detector		PLD1500	\$177
XIB interface for Shadow Loop		790062	\$32
Photobeam Photocells Pair	1 lb (0.45 Kg)	785163	\$244
Photobeam mounting post single (with foundation plate)	5 lb (2.2 Kg)	401028/737630.5	\$123
Photo beam mounting post double (with foundation plate)	9 lb (4.1 Kg)	401035/737630.5	\$198
Transmitter Rolling Code 433MHz		787453	\$23
Receiver Rolling Code 433MHz		787741	\$42
Transmitter 418 MHz Dip Switch Dual Channel		787317	\$53
Transmitter 418 MHz Dip Switch Single Channel		1tm418ds	\$45
Receiver 418 MHz Dip Switch		1rp418ds	\$79
Tuned Antenna Kit		412003	\$88

Electromechanical swing gate operator with articulated arm

for residential swing-leaf gates with maximum leaf width of 14 ft (4.3m)



- Non reversing operator, does not require external locks
- Easy to install, no modifications to the gates are necessary
- Ideal for gates mounted on large columns
- Adjustable limit switches (optional)
- Maximum safety thanks to the E024U control board reverse on contact feature
- Built in battery backup to ensure operation in case of power outage
- UL325 Listed



TECHNICAL SPECIFICATIONS

Input Voltage	24 Vdc
Power	40 W
Current	2 A
Motor rotation speed	960 r.p.m.
Reduction ratio	1:700
Angle speed	8°/s
Leaf max. width	14 ft (4.3 m)
Leaf max. weight	600 lb (272 Kg)
Max. torque	184 lbf.ft (250 Nm)
Operating ambient temperature	-4°F ÷ 131°F (-20°C ÷ +55°C)
Use frequency	continuous
Operator Weight	25 lb (11.5 kg)
Dimensions (L x D x H)	16 x 5 x 5 in (410x130x130 mm)
Protection class	IP 44

Notes

- Mounting dimensions, wind factor and gate design will affect performance specification
- Use frequency is measured at an ambient temperature of 72 °F (20 °C). Temperature variation will affect it.
- An electric or magnetic lock is recommended for any gate longer than 12 ft (3.6 m).

390

Model	Shipping Wt (approx)	Part Number	Price
390 - Basic Single Kit	58 lb (26.3 Kg)	104572.5	\$2,063
390 - Operator only	24 lb (10.9 Kg)	104579	\$933

The package 390 - Basic Single Kit contains:

Q.ty	Description	Part Number
1	Operator 390	104579
2	Limit Switch	390682
1	E024U control board	202025
1	Power supply	750007
1	Enclosure	3350
2	Batteries 12V 8 Ah	3540
1	Receiver 433 RC Plug In	787741
2	4-channel transmitter XT4 433 RC	787453

To make a master/slave (bi-parting) kit add these parts

Q.ty	Description	Part Number
1	Operator 390 with limit switches	104579.5
-	AWG 12 - 2 conductors cable (operator) *	2197
-	AWG 18 - 3 conductors cable (limit switches) *	2192

(*) Order the lenght of cable needed for the application. Up to 40' can be added at no charge.

ACCESSORIES



Standard Articulated arm

Part No.	738705
Price	\$266



Single limit switch kit
(opening or closing)

Part No.	390682
Price	\$35



Steel Articulated arm

Part No.	7387051
Price	\$280

Description	Shipping Wt (approx)	Part Number	Price
Loop Detector Interface		2670	\$120
10 Pin Plug in Loop Detector		PLD1500	\$177
XIB interface for Shadow Loop		790062	\$32
Photobeam Photocells Pair	1 lb (0.45 Kg)	785163	\$244
Photobeam mounting post single (with foundation plate)	5 lb (2.2 Kg)	401028/737630.5	\$123
Photo beam mounting post double (with foundation plate)	9 lb (4.1 Kg)	401035/737630.5	\$198
Transmitter Rolling Code 433MHz		787453	\$23
Receiver Rolling Code 433MHz		787741	\$42
Transmitter 418 MHz Dip Switch Dual Channel		787317	\$53
Transmitter 418 MHz Dip Switch Single Channel		1tm418ds	\$45
Receiver 418 MHz Dip Switch		1rp418ds	\$79
Tuned Antenna Kit		412003	\$88

Electromechanical swing gate operator

for residential swing-leaf gates with single-leaf max width of 15 ft (4.6m)



- "In-axis" thrust operator.
- Built in Limit switches.
- Die-cast aluminium body, entirely double-coat painted for longer life.
- Manual release device with simplified key-protected activation.
- Horizontal exit for cables to allow near to ground installation
- Maximum safety thanks to the E024U control board reverse on contact feature
- Built in battery backup to ensure operation in case of power outage
- UL325 Listed



TECHNICAL SPECIFICATIONS

Input Voltage	24 Vdc
Power	70 W
Current	3 A
Thrust	630 lbf (280 daN)
Effective stroke	15.75 in (400 mm)
Rod speed	0.63"/sec (1,6 cm/sec)
Leaf max. width	15' (4.6m)
Leaf max. weight	700 lb (318 Kg)
Operating ambient temperature	-4°F ÷ 131°F (-20°C ÷ +55°C)
Use frequency	continuous
Operator Weight	17.6 lb (8 Kg)
Dimensions (L x D x H)	36 x 4 x 6 in (904x105x148 mm)
Protection class	IP 54

Notes

- Mounting dimensions, wind factor and gate design will affect performance specification
- Use frequency is measured at an ambient temperature of 72 °F (20 °C) . Temperature variation will affect it.
- An electric or magnetic lock is recommended for any gate longer than 12 ft (3.6 m).

415

Model	Shipping Wt (approx)	Part Number	Price
415 - Basic Single Kit	58 lb (26.3 Kg)	10441811.5	\$1,900
415 - Operator only	25 lb (11.3 Kg)	104418115	\$887

The package 415 - Basic Single Kit contains:

Q.ty	Description	Part Number
1	Operator 415 - 24V	104418115
1	E024U control board	202025
1	Power supply	750007
1	Enclosure	3350
2	Batteries 12V 8 Ah	3540
1	Receiver 433 RC Plug In	787741
2	4-channel transmitter XT4 433 RC	787453

To make a master/slave (bi-parting) kit add these parts

Q.ty	Description	Part Number
1	Operator 415 - 24V	104418115
-	AWG 12 - 2 conductors cable (operator) *	2197
-	AWG 18 - 3 conductors cable (limit switch) *	2192

(*) Order the lenght of cable needed for the application. Up to 40' can be added at no charge.

ACCESSORIES

Description	Shipping Wt (approx)	Part Number	Price
Loop Detector Interface		2670	\$120
10 Pin Plug in Loop Detector		PLD1500	\$177
XIB interface for Shadow Loop		790062	\$32
Photobeam Photocells Pair	1 lb (0.45 Kg)	785163	\$244
Photobeam mounting post single (with foundation plate)	5 lb (2.2 Kg)	401028/737630.5	\$123
Photo beam mounting post double (with foundation plate)	9 lb (4.1 Kg)	401035/737630.5	\$198
Transmitter Rolling Code 433MHz		787453	\$23
Receiver Rolling Code 433Mhz		787741	\$42
Transmitter 418 MHz Dip Switch Dual Channel		787317	\$53
Transmitter 418 MHz Dip Switch Single Channel		1tm418ds	\$45
Receiver 418 MHz Dip Switch		1rp418ds	\$79
Tuned Antenna Kit		412003	\$88

In-ground electromechanical operator

for residential swing-leaf gates with single-leaf max weight of 1100 lb (500 kg)



- Invisible operator
- Access the operator without removing the leaf
- Protection class IP 67
- Non reversible desing
- Optional 140 ° and 180 ° opening kits
- Maximum safety thanks to the E024U control board reverse on contact feature
- Built in battery backup to ensure operation in case of power outage
- UL325 Listed



TECHNICAL SPECIFICATIONS

Input Voltage	24 Vdc
Power	70 W
Current	3 A
Max torque	221 lbf.ft (300 Nm)
Reduction ratio	1:1418
Angular speed	6°/sec
Max opening angle	110 ° (140 ° and 180 ° with optional kit)
Maximum leaf width	10 ft (3 m)
Maximum leaf weight	1100 lb (500 Kg)
Operating ambient temperature	-4°F ÷ 131°F (-20°C ÷ +55°C)
Use frequency	continuous
Operator Weight	26 lb (12 kg)
Operator dimensions	14 x 6 x 5.5 in (360x150x140 mm)
Support box dimensions	17 x 12 x 8 in (430x307x214 mm)
Protection class	IP 67

Notes

- Mounting dimensions, wind factor and gate design will affect performance specification
- Use frequency is measured at an ambient temperature of 72 °F (20 °C) . Temperature variation will affect it.
- An electric or magnetic lock is recommended for any gate longer than 12 ft (3.6 m).

770

Model	Shipping Wt (approx)	Part No.	Price
770 - Basic Single Kit	98 lb (44.5 Kg)	106753.5	\$2,586
770 - Operator only	24 lb (10.9 Kg)	10675315	\$1,012

The package 770 - Basic Single Kit contains:

Q.ty	Description	Part Number
1	Operator 770 - 24V	10675315
1	Support Box	490065
1	E024U control board	202025
1	Power supply	750007
1	Enclosure	3350
2	Batteries 12V 8 Ah	3540
1	Receiver 433 RC Plug In	787741
2	4-channel transmitter XT4 433 RC	787453

To make a master/slave (bi-parting) kit add these parts

Q.ty	Description	Part Number
1	Operator 770 - 24V	10675315
1	Support Box	490065
-	AWG 12 - 2 conductors cable (operator) *	2197

(*) Order the lenght of cable needed for the application. Up to 40' can be added at no charge.

ACCESSORIES



Stainless steel support box package

Part No.	490110
Price	\$728
Shipping Wt	36 lb (16.3 Kg)



Support box package

Part No.	490065
Price	\$467
Shipping Wt	36 lb (16.3 Kg)

The support box package includes:

The box (regular or stainless steel), a stainless steel lid, a bracket for leaf support with integrated manual release system, two release keys, installation accessories.



Positive stop Kit for Open Position

Part No.	722121
Price	\$52



Positive stop Kit for Close Position

Part No.	722122
Price	\$130

Kit 140 ° opening

Part No.	390612
Price	\$187

Kit 180 ° opening

Part No.	490111
Price	\$525

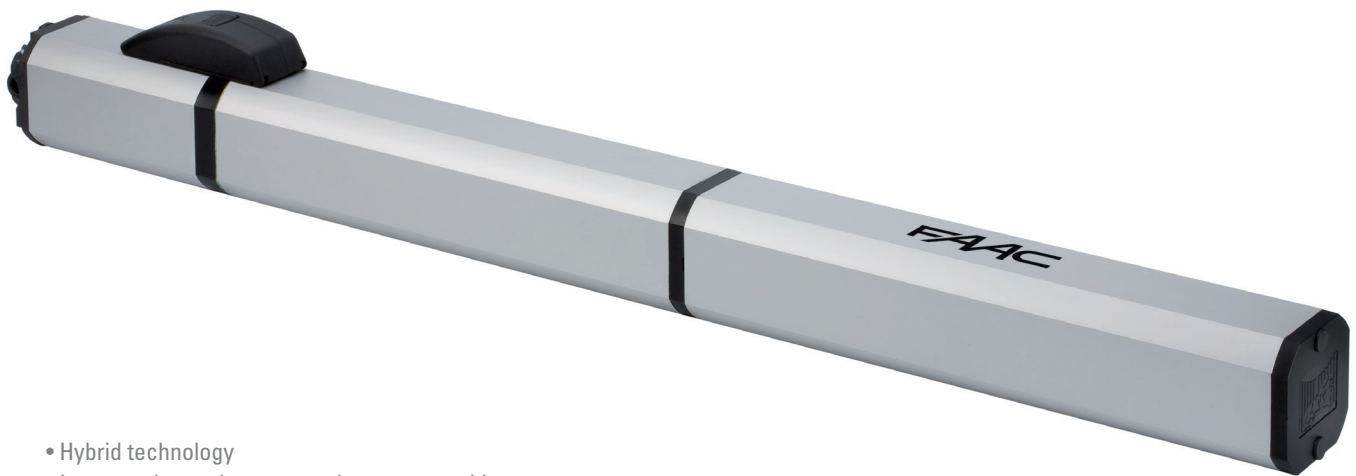
Manual release lever

Part No.	424010
Price	\$328

Description	Shipping Wt (approx)	Part Number	Price
Loop Detector Interface		2670	\$120
10 Pin Plug in Loop Detector		PLD1500	\$177
XIB interface for Shadow Loop		790062	\$32
Photobeam Photocells Pair	1 lb (0.45 Kg)	785163	\$244
Photobeam mounting post single (with foundation plate)	5 lb (2.2 Kg)	401028/737630.5	\$123
Photo beam mounting post double (with foundation plate)	9 lb (4.1 Kg)	401035/737630.5	\$198
Transmitter Rolling Code 433MHz		787453	\$23
Receiver Rolling Code 433MHz		787741	\$42
Transmitter 418 MHz Dip Switch Dual Channel		787317	\$53
Transmitter 418 MHz Dip Switch Single Channel		1tm418ds	\$45
Receiver 418 MHz Dip Switch		1rp418ds	\$79
Tuned Antenna Kit		412003	\$88

Hydraulic Swing Gate Operator

for residential and condominium swing-leaf gates with maximum leaf width of 14 ft (4.3m) CBAC version and 17 ft (5.2m) SB version



- Hybrid technology
- Integrated encoder to control operator position
- Useful stroke 12.2 in (311 mm)
- New “multi-position” bracket for non-welded applications
- Opening/Closing mechanical stops included
- Maximum safety thanks to the E024U control board reverse on contact feature
- Built in battery backup to ensure operation in case of power outage
- UL325 Listed



TECHNICAL SPECIFICATIONS

Model	S450H CBAC	S450H SB
Input voltage	24 Vdc	
Power	60 W	
Current	7 A	
Max Thrust	1124 lbf (500 daN)	
Rod stroke	12.2 in (311 mm)	
Max. rod extension speed	1 in/s (2.5 cm/s)	
Maximum leaf width	14 ft (4.3 m)	17 ft (5.2 m)
Maximum leaf weight	1100 lb (500 Kg)	
Operating ambient temperature	-4°F ÷ 131°F (-20°C ÷ +55°C)	
Use frequency	continuous	
Operator weight	14.3 lb (6.5 Kg)	
Operator dimensions	43.8 x 3.3 x 4.7 in (1113x85x119 mm)	
Protection class	IP 55	
Hydraulic locks	installed	not installed

Notes

- Mounting dimensions, wind factor and gate design will affect performance specification
- Use frequency is measured at an ambient temperature of 72 °F (20 °C) . Temperature variation will affect it.
- An electric or magnetic lock is recommended for any gate longer than 12 ft (3.6 m).

S450H

Model	Shipping Wt (approx)	Oil type	Part No.	Price
S450H CBAC - Basic Single Kit	58 lb (26.4 Kg)	Regular	104100.5	\$2,704
		Arctic	1041001577.5	\$2,704
S450H SB - Basic Single Kit	58 lb (26.4 Kg)	Regular	104101.5	\$2,704
		Arctic	1041011577.5	\$2,704
S450H CBAC - Operator Only	28 lb (12.2 Kg)	Regular	10410015	\$1,664
		Arctic	1041001577	\$1,664
S450H SB - Operator Only	28 lb (12.2 Kg)	Regular	10410115	\$1,664
		Arctic	1041011577	\$1,664

The package S450H - Basic Single Kit contains:

Q.ty	Description	Part Number
1	Operator S450H	Various
1	E024U control board	202025
1	Power supply	750007
1	Enclosure	3350
2	Batteries 12V 8 Ah	3540
1	Receiver 433 RC Plug In	787741
2	4-channel transmitter XT4 433 RC	787453

To make a master/slave (bi-parting) kit add these parts

Q.ty	Description	Part Number
1	Operator S450H	Various
-	AWG 12 - 2 conductors cable (operator) *	2197
-	AWG 22 - 2 conductors cable (encoder) *	2193

(*) Order the length of cable needed for the application. Up to 40' can be added at no charge.

ACCESSORIES

Description	Shipping Wt (approx)	Part Number	Price
Loop Detector Interface		2670	\$120
10 Pin Plug in Loop Detector		PLD1500	\$177
XIB interface for Shadow Loop		790062	\$32
Photobeam Photocells Pair	1 lb (0.45 Kg)	785163	\$244
Photobeam mounting post single (with foundation plate)	5 lb (2.2 Kg)	401028/737630.5	\$123
Photo beam mounting post double (with foundation plate)	9 lb (4.1 Kg)	401035/737630.5	\$198
Transmitter Rolling Code 433MHz		787453	\$23
Receiver Rolling Code 433Mhz		787741	\$42
Transmitter 418 MHz Dip Switch Dual Channel		787317	\$53
Transmitter 418 MHz Dip Switch Single Channel		1tm418ds	\$45
Receiver 418 MHz Dip Switch		1rp418ds	\$79
Tuned Antenna Kit		412003	\$88

In-ground hydraulic operator

for residential and condominium swing-leaf gates with single-leaf
max weight of 1760 lb (800 kg)

- Hybrid technology
- Integrated encoder to control operator position
- 100 ° and 180 ° opening angle versions
- Opening/Closing mechanical stops integrated
- Easy handling and installation thanks to the integrated handles
- Maximum safety thanks to the E024U control board reverse on contact feature
- Built in battery backup to ensure operation in case of power outage
- SBW version for use in areas subject to strong winds
- UL325 Listed



DIMENSIONS AND TECHNICAL SPECIFICATIONS OF S 800 H

	S800H CBAC	S800H SBW
Input Voltage	24 Vdc	
Power	60 W	
Current	7 A	
Max. torque	442 lbf.ft (600 Nm)	
Max. angle speed	8.2°/s	
Max opening angle	113° (S800H 100°) - 187° (S800H 180°)	
Max Leaf width	13' (4 m)	16' (4.9) m
Max Leaf weight	1760 lb (800kg)	
Operating ambient temperature	-4°F ÷ 131°F (-20 °C to +55 °C)	
Use frequency	continuous	
Operator weight	29 lb S800H 100° (13.2Kg) - 37 lb S800H 180° (17.0 kg)	
Operator dimensions		
Protection class	IP 67	
Hydraulic locks	installed	not installed

Notes

- Mounting dimensions, wind factor and gate design will affect performance specification
- Use frequency is measured at an ambient temperature of 72 °F (20 °C). Temperature variation will affect it.
- An electric or magnetic lock is recommended for any gate longer than 12 ft (3.6 m).

S800H

Model	Opening angle	Shipping Wt (approx)	Part No.	Price
S800H CBAC Single Kit	100°	110 lb (50 Kg)	108710.5	\$3,952
	180°	120 lb (54 Kg)	108712.5	\$4,212
S800H CBAC Single Kit Stainless Steel	100°	110 lb (50 Kg)	108710.5SS	\$4,378
	180°	120 lb (54 Kg)	108712.5SS	\$4,638
S800H SBW Single Kit	100°	110 lb (50 Kg)	108714.5	\$3,952
	180°	120 lb (54 Kg)	108715.5	\$4,212
S800H SBW Single Kit Stainless Steel	100°	110 lb (50 Kg)	108714.5SS	\$4,378
	180°	120 lb (54 Kg)	108715.5SS	\$4,638
S800H CBAC Operator Only	100°	29 lb (13 Kg)	10871015	\$2,115
	180°	37 lb (17 Kg)	10871215	\$2,285
S800H SBW Operator Only	100°	29 lb (13 Kg)	10871415	\$2,115
	180°	37 lb (17 Kg)	10871515	\$2,285

The package S800H - Single Kit contains:

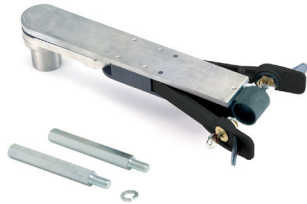
Q.ty	Description	Part Number
1	Operator S800H with accessories	Various
1	Hydraulic manual release	390035
1	Splined shaft collar with mounting bolts	390972
1	Support Box	Various
1	E024U control board	202025
1	Power supply	750007
1	Enclosure	3350
2	Batteries 12V 8 Ah	3540
1	Receiver 433 RC Plug In	787741
2	4-channel transmitter XT4 433 RC	787453

To make a master/slave (bi-parting) kit add these parts

Q.ty	Description	Version	Opening angle	Part Number	Price
1	Operator S800H with hydraulic manual release, splined shaft collar and mounting bolts	CBAC	100°	10871015.5	\$2,392
			180°	10871215.5	\$2,558
		SBW	100°	10871415.5	\$2,392
			180°	10871515.5	\$2,558
1	Support Box	Regular		490112	\$562
		Stainless Steel		490113	\$988
-	AWG 12 - 2 conductors cable (operator) *			2197	
-	AWG 22 - 2 conductors cable (encoder) *			2193	

(*) Order the lenght of cable needed for the application. Up to 40' can be added at no charge.

ACCESSORIES



Mechanical release lever

Part No.	390878
Price	\$310
Shipping Wt	4.5 lb (2 Kg)



Hydraulic release system

Part No.	390035
Price	\$224
Shipping Wt	3 lb (1.4 Kg)



Support box

Part No.	490112
Price	\$562
Shipping Wt	40 lb (18.2 Kg)



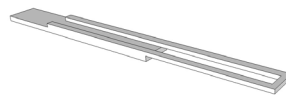
Stainless steel support box

Part No.	490113
Price	\$988
Shipping Wt	40 lb (18.2 Kg)



Splined shaft collar with mounting bolts

Part No.	390972
Price	\$182
Shipping Wt	2 lb (0.9 Kg)



S800H Extension arm

Part No.	2148
Price	\$116
Shipping Wt	2 lb (0.9 Kg)

Description	Shipping Wt (approx)	Part Number	Price
Loop Detector Interface		2670	\$120
10 Pin Plug in Loop Detector		PLD1500	\$177
XIB interface for Shadow Loop		790062	\$32
Photobeam Photocells Pair	1 lb (0.45 Kg)	785163	\$244
Photobeam mounting post single (with foundation plate)	5 lb (2.2 Kg)	401028/737630.5	\$123
Photo beam mounting post double (with foundation plate)	9 lb (4.1 Kg)	401035/737630.5	\$198
Transmitter Rolling Code 433MHz		787453	\$23
Receiver Rolling Code 433Mhz		787741	\$42
Transmitter 418 MHz Dip Switch Dual Channel		787317	\$53
Transmitter 418 MHz Dip Switch Single Channel		1tm418ds	\$45
Receiver 418 MHz Dip Switch		1rp418ds	\$79
Tuned Antenna Kit		412003	\$88

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24V Control Board for Swing Gate Operators

To be used with the following low voltage Swing Gate operators:

- S418
 - S450H
 - S800H
 - 390
 - 415
 - 770
- UL325 and UL991 safety standard compliant
 - Powerful and efficient switching Power Supply
 - Easy Programming with trimmers and dip switch
 - One pushbutton automatic time learning
 - Self resetting fuses
 - Built in battery backup
 - Low current idle mode to preserve battery
 - Opening and closing delays selectable for overlapping gates
 - Speed and force adjustable with trimmers
 - Control Board firmware upgradable via USB
 - Solar Powered option



TECHNICAL SPECIFICATIONS

Input Voltage	115 VAC (+10% -6%)
Input power	400 W max - 4W stand by
Motor output current max	7 A
Accessory Power	24 Vdc - 500 mA
Operating Temperature	-4°F ÷ 131°F (-20°C ÷ +55°C)
Dimensions	17.5 x 15.5 x 6.2 in (445x393x157mm)
Weight (without batteries)	15.5 Lbs (7 kg)
Protection class	NEMA type 3, 3R, 4, 4X, 12 and 13
Operating logics	Semiautomatic (E); Automatic (A); Security (S); Semiautomatic step by step (EP); Automatic step by step (AP); Security step by step (SP); Manned pulsed (B); Manned constant

Description	Includes	Shipping Wt (approx)	Part Number	Price
Enclosure Kit E024U	16" x 14" enclosure E024U control Board Power Supply Battery Cable	26 lb (11.8 Kg)	3350.1	\$1281
425D to E024U Upgrade kit	16" x 14" backplate E024U control Board Power Supply Battery Cable	11 lb (5 Kg)	3351.1	\$860
425D to E024U Upgrade kit with batteries	16" x 14" backplate E024U control Board Power Supply Battery Cable Batteries	23 lb (10.4 Kg)	3351B.1	\$940
Enclosure Solar Kit E024U	16" x 14" enclosure E024U control Board Solar charger and Panel Battery Cable	30 lb (13.6 Kg)	3352.1	Call for Price
16" x 14" Enclosure	Enclosure only	24 lb (10.8 Kg)	3350	\$563

SPARE PARTS AND ACCESSORIES



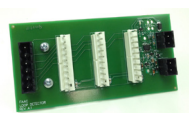
E024U Control board

Part No.	202025
Price	\$541



Switching Power Supply

Part No.	750007
Price	\$156



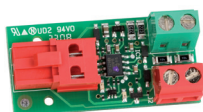
Loop Detectors interface

Part No.	2670
Price	\$120



10 pin plug in loop detector

Part No.	PLD1500
Price	\$177



XIB interface for Shadow Loop

Part No.	790062
Price	\$32



12V 8 Ah battery

Part No.	3540
Price	\$66
Shipping Wt	6 lb (2.7 Kg)

Type of installation

external motor

Residential	412	415	S418	402	422	
Condominium		415			422	400
Industrial						400
Leaf max length	14 ft	15 ft	12 ft	10 ft	10 ft	16 ft CBAC
						18 ft SB
						20 ft SBS
Max leaf weight	500 lb	700 lb	500 lb	900 lb	900 lb	1,300 lb CBAC 1,600 lb SB 2,000 lb SBS

underground motor

Residential	750
Condominium	750
Leaf max length	13 ft
Max leaf weight	1,500 lb



Automated Systems
for Swing-leaf Gates
High Voltage

Electro-mechanical operator

for swing-leaf gates with single-leaf width of 14 ft (4.2 m)



- Designed for light residential, single family use
- Mechanical lock in the open and close position
- Built in manual release in case of power failure
- Simple installation and maintenance.
- Anti-crushing safety thanks to the electronic control board



TECHNICAL SPECIFICATIONS

Input voltage	115 VAC (+10% -6%)
Power	280 W
Current	3 A
Thrust Capacitor	25 uF
Motor rotation speed	1400 r.p.m.
Rod extension speed	0.6 in/s (1.5 cm/s)
Rod stroke	11.4 in (290 mm)
Leaf Maximum width	14 ft (4.2 m)
Leaf maximum weight	500 lb (226.8 Kg)
Use frequency (cycles per hour)	18
Traction and thrust force	719 lbf (320 daN)
Thermal protection on motor winding	284 °F (140 °C)
Operating ambient temperature	4°F ÷ 131°F (-20 °C to +55 °C)
Protection class	IP 44
Operator weight	14.3 lb (6.5 kg)
Dimensions (L x D x H)	39.3 x 3.5 x 7.7 in (1000x90x195mm)

Notes

- Mounting dimensions, wind factor and gate design will affect performance specification
- Use frequency is measured at an ambient temperature of 72 °F 20 °C). Temperature variation will affect it
- An electric or magnetic lock is recommended for any gate longer than 12 ft (3.6 m)
- Positive gate stops, which limit gate travel, are required in the opened and closed positions

412

Model	Control Board Enclosure	Shipping Wt (approx)	Part No.	Price
412 Kit for Bi-Parting Gates	10 x 12 in.	50 lb (22.7 Kg)	412BP1.5	\$2,276
	14 x 16 in. prewired	55 lb (25 Kg)	412BP1S.5	\$2,545
412 DX Kit for sigle leaf Right Hinged Gate	10 x 12 in.	36 lb (16.3 Kg)	412DX1.5	\$1,611
	14 x 16 in. prewired	41 lb (18.6 Kg)	412DX1S.5	\$2,053
412 SX Kit for sigle leaf Left Hinged Gate	10 x 12 in.	36 lb (16.3 Kg)	412SX1.5	\$1,611
	14 x 16 in. prewired	41 lb (18.6 Kg)	412SX1S.5	\$2,053
412 DX operator for sigle leaf Right Hinged Gate		20 lb (9.1 Kg)	104475	\$787
412 SX operator for sigle leaf Left Hinged Gate		20 lb (9.1 Kg)	104476	\$787

Note

- The right leaf version (RH and LH) can be determined by looking from the inside of the property.

The package 412 - Kit for Bi-Parting Gates contains:

Q.ty	Description	Part Number
1	Operator 412 DX	104475
1	Operator 412 SX	104476
1	Fiberglass enclosure	various
1	455D control panel 115V	790919
1	Receiver 418Mhz Plug In	1RP418DS
2	Transmitter 418Mhz Single Button	1TM418DS
2	Photobeam Photocells Pair	785163

The package 412 - Kit for Single Leaf Gates contains:

Q.ty	Description	Part Number
1	Operator 412 DX or SX	104475 or 104476
1	Fiberglass enclosure	various
1	455D control panel 115V	790919
1	Receiver 418Mhz Plug In	1RP418DS
2	Transmitter 418Mhz Single Button	1TM418DS
2	Photobeam Photocells Pair	785163

ACCESSORIES

Description	Shipping Wt	Voltage	Part Number	Price
Positive Stop 412	5 lb (2.2 Kg)		2632	\$185
Capacitor 25 uF		115V	2705	\$12
Photobeam Photocells Pair	1 lb (0.45 Kg)		785163	\$244
Photo beam mounting post single (with foundation plate)	5 lb (2.2 Kg)		401028/737630.5	\$123
Photo beam mounting post double (with foundation plate)	9 lb (4.1 Kg)		401035/737630.5	\$198
Plug in Loop Detector DSP11			2665	\$139
Plug in Loop Detector DSP10			2667	\$152
Shadow Detector Kit with DSP11		115V	26651.5	\$209
Shadow Detector Kit with DSP10		115V	26671.5	\$220
Maglock Relay Kit			2352	\$49
Transmitter Rolling Code 433MHz			787453	\$23
Receiver Rolling Code 433MHz			787741	\$42
Transmitter 418 MHz Dip Switch Single Channel			1tm418ds	\$45
Transmitter 418 MHz Dip Switch Dual Channel			787317	\$53
Receiver 418 MHz Dip Switch			1rp418ds	\$79
Tuned Antenna Kit			412003	\$88

Electro-mechanical operator

for residential swing-leaf gates with single-leaf max width of 15 ft (4.6m)



- "In-axis" thrust operator.
- Die-cast aluminium body, entirely double-coat painted for longer life.
- Manual release device with simplified key-protected activation.
- Built in sealed limit switches that can be used for slowdown or stops
- Horizontal exit for cables to allow near to ground installation (low installation).



TECHNICAL SPECIFICATIONS

Input Voltage	115 VAC (+10% -6%)
Power	300 W
Current	2.6 A
Thermal protection	284 °F (140 °C)
Thrust Capacitor	25 uF
Thrust	674 lbf (300 daN)
Rod stroke	15.7 in (400 mm)
Rod extension speed	0.63 in/ sec (1.6 cm/sec)
Leaf max. width	15 ft (4.6 m)
Leaf maximum weight	700 lb (317.5 Kg)
Usage frequency (cycles per hour)	25
Operating ambient temperature	4°F ÷ 131°F (-20 °C to +55 °C)
Weight of operator	17.6 lb (8 Kg)
Dimensions (L x D x H) in mm	35.6 x 4.1 x 5.8 in (940x105x148 mm)
Protection class	IP 54

Notes

- Mounting dimensions, wind factor and gate design will affect performance specification
- Use frequency is measured at an ambient temperature of 72 °F (20 °C) . Temperature variation will affect it
- An electric or magnetic lock is recommended for any gate longer than 12 ft (3.6 m)

415

Model	Control Board Enclosure	Shipping Wt (approx)	Part No.	Price
415 Basic Single Kit	10 x 12 in.	46 lb (20.9 Kg)	1044182.5	\$1,644
	14 x 16 in. prewired	51 lb (23.1 Kg)	1044182.5L	\$2,081
415 Operator only		25 lb (11.3 Kg)	1044182	\$914

The package 415 - Basic Single Kit contains:

Q.ty	Description	Part Number
1	Operator 415	1044182
1	Fiberglass enclosure	various
1	455D control panel 115V	790919
1	Receiver Rolling Code 433Mhz	787741
2	Transmitter Rolling Code 433MHz	787453

To make the above kit a master/slave (bi-parting) system add one 415 Operator only: 1044182.

ACCESSORIES

Description	Shipping Wt	Voltage	Part Number	Price
Photobeam Photocells Pair	1 lb (0.45 Kg)		785163	\$244
Photo beam mounting post single (with foundation plate)	5 lb (2.2 Kg)		401028/737630.5	\$123
Photo beam mounting post double (with foundation plate)	9 lb (4.1 Kg)		401035/737630.5	\$198
Plug in Loop Detector DSP11			2665	\$139
Plug in Loop Detector DSP10			2667	\$152
Shadow Detector Kit with DSP11		115V	26651.5	\$209
Shadow Detector Kit with DSP10		115V	26671.5	\$220
Maglock Relay Kit			2352	\$49
Transmitter Rolling Code 433MHz			787453	\$23
Receiver Rolling Code 433Mhz			787741	\$42
Transmitter 418 MHz Dip Switch Single Channel			1tm418ds	\$45
Transmitter 418 MHz Dip Switch Dual Channel			787317	\$53
Receiver 418 MHz Dip Switch			1rp418ds	\$79
Tuned Antenna Kit			412003	\$88
Capacitor 25 uF		115V	2705	\$12

Hydraulic Swing Gate Operator

for residential swing-leaf gates with single-leaf max width of 10 ft (3m)



- Entry level hydraulic operator for residential application
- Compact design, ideal for tight space installations
- Hydraulic lock of the gate in closed positions
- Quite operation
- Self lubricating for long life



TECHNICAL SPECIFICATIONS

Input voltage	115 VAC (+10% -6%) or 230 VAC (+6% -10%)
Power	220 W
Current	2A (115V) - 1 A (230V)
Motor rotation speed	1400 r.p.m.
Rod extension speed	0.5 in/sec (1.3 cm/sec)
Pump flow rate	1 l/min
Traction and thrust force	1124 lbf (500 daN)
Leaf max. width	10 ft (3 m)
Leaf maximum weight	900 lb (410 Kg)
Usage frequency (cycles per hour)	55
Operating ambient temperature	4°F ÷ 131°F (-20 °C to +55 °C)
Thermal protection on motor winding	248 °F (120 °C)
Weight	14.3 lb (6.5 kg)
Protection class	IP 55
Dimensions (L x D x H)	37.7 x 3.3 x 2.4 in (959x85x61mm)

Notes

- Mounting dimensions, wind factor and gate design will affect performance specification
- Use frequency is measured at an ambient temperature of 72 °F (20 °C). Temperature variation will affect it
- Positive gate stops, which limit gate travel, are required in the opened and closed positions

402

Model	Shipping Wt (approx)	Voltage	Oil Type	Part No.	Price
402 CBC Standard Basic Single Kit	39 lb (17.7 Kg)	115V	Regular	1044682.5	\$2,330
			Arctic	104468277.5	\$2,330
		230V	Regular	1044681.5	\$2,330
			Arctic	104468177.5	\$2,330

The package 402 - Basic Single Kit 115V contains:

Q.ty	Description	Part Number
1	Operator 402 CBC	Various
1	Prewired fiberglass enclosure 14x16 in	-3300
1	455D control panel 115V	790919
1	Receiver 433 RC Plug In	787741
2	4-channel transmitter XT4 433 RC	787453

The package 402 - Basic Single Kit 230V contains:

Q.ty	Description	Part Number
1	Operator 402 CBC	Various
1	Prewired fiberglass enclosure 14x16 in	-3303
1	455D control panel 230V	790926
1	Receiver 433 RC Plug In	787741
2	4-channel transmitter XT4 433 RC	787453

To make the above kit a master/slave (bi-parting) system add one of the following:

Model	Shipping Wt	Voltage	Oil Type	Part No.	Price
402 CBC Operator only	22 lb (10 Kg)	115V	Regular	1044682	\$1,343
			Arctic	104468277	\$1,343
		230V	Regular	1044681	\$1,343
			Arctic	104468177	\$1,343

Note

- The 402 CBC (lock in closed position) can be converted in CBA (lock in opened position). Call 1-800-221-8278 for more information.

ACCESSORIES

Description	Shipping Wt	Voltage	Part Number	Price
Photobeam Photocells Pair	1 lb (0.45 Kg)		785163	\$244
Photo beam mounting post single (with foundation plate)	5 lb (2.2 Kg)		401028/737630.5	\$123
Photo beam mounting post double (with foundation plate)	9 lb (4.1 Kg)		401035/737630.5	\$198
Positive Stop 402			3554	\$193
Plug in Loop Detector DSP11			2665	\$139
Plug in Loop Detector DSP10			2667	\$152
Shadow Detector Kit with DSP11		115V	26651.5	\$209
		230V	26652.5	\$209
Shadow Detector Kit with DSP10		115V	26671.5	\$220
		230V	26672.5	\$220
Maglock Relay Kit			2352	\$49
Transmitter Rolling Code 433MHz			787453	\$23
Receiver Rolling Code 433MHz			787741	\$42
Transmitter 418 MHz Dip Switch Single Channel			1tm418ds	\$45
Transmitter 418 MHz Dip Switch Dual Channel			787317	\$53
Receiver 418 MHz Dip Switch			1rp418ds	\$79
Tuned Antenna Kit			412003	\$88

Hydraulic Swing Gate Operator

for residential and condominium swing-leaf gates with single-leaf
max width of 10 ft (3 m)



- Versatile hydraulic operator for residential and light commercial application
- Hydraulic lock of the gate in opened and closed positions
- Key protected manual release
- Quiet operation
- Self lubricating for long life



TECHNICAL SPECIFICATIONS

Input voltage	115 VAC (+10% -6%) or 230 VAC (+6% -10%)
Power	220 W
Current	2A (115V) - 1 A (230V)
Motor rotation speed	1400 r.p.m.
Rod extension speed	0.5 in/sec (1.3 cm/sec)
Pump flow rate	1 l/min
Traction and thrust force	1124 lbf (500 daN)
Leaf max. width	10 ft (3 m)
Leaf max. weight	900 lb (410 Kg)
Usage frequency (cycles per hour)	55
Operating ambient temperature	4°F ÷ 131°F (-20 °C to +55 °C)
Thermal protection on motor winding	248 °F (120 °C)
Weight	15.4 lb (7 kg)
Protection class	IP 55
Dimensions (L x D x H) in mm	38.8 x 4.7 x 3.3 in (987x120x85mm)

Notes

- Mounting dimensions, wind factor and gate design will affect performance specification
- Use frequency is measured at an ambient temperature of 72 °F (20 °C) . Temperature variation will affect it
- Positive gate stops, which limit gate travel, are required in the opened and closed positions

422

Model	Shipping Wt (approx)	Voltage	Oil Type	Part No.	Price
422 CBAC Standard Basic Single Kit	39 lb (17.7 Kg)	115V	Regular	10420012.5	\$2,699
			Arctic	1042001277.5	\$2,699
		230V	Regular	1042001.5	\$2,699
			Arctic	104200177.5	\$2,699

The package 422 - Basic Single Kit 115V contains:

Q.ty	Description	Part Number
1	Operator 422 CBAC	Various
1	Prewired fiberglass enclosure 14x16 in	-3300
1	455D control panel 115V	790919
1	Receiver 433 RC Plug In	787741
2	4-channel transmitter XT4 433 RC	787453

The package 422 - Basic Single Kit 230V contains:

Q.ty	Description	Part Number
1	Operator 422 CBAC	Various
1	Prewired fiberglass enclosure 14x16 in	-3303
1	455D control panel 230V	790926
1	Receiver 433 RC Plug In	787741
2	4-channel transmitter XT4 433 RC	787453

To make the above kit a master/slave (bi-parting) system add one of the following:

Model	Shipping Wt	Voltage	Oil Type	Part No.	Price
422 CBAC Operator only	22 lb (10 Kg)	115V	Regular	10420012	\$1,603
			Arctic	1042001277	\$1,603
		230V	Regular	1042001	\$1,603
			Arctic	104200177	\$1,603

Note

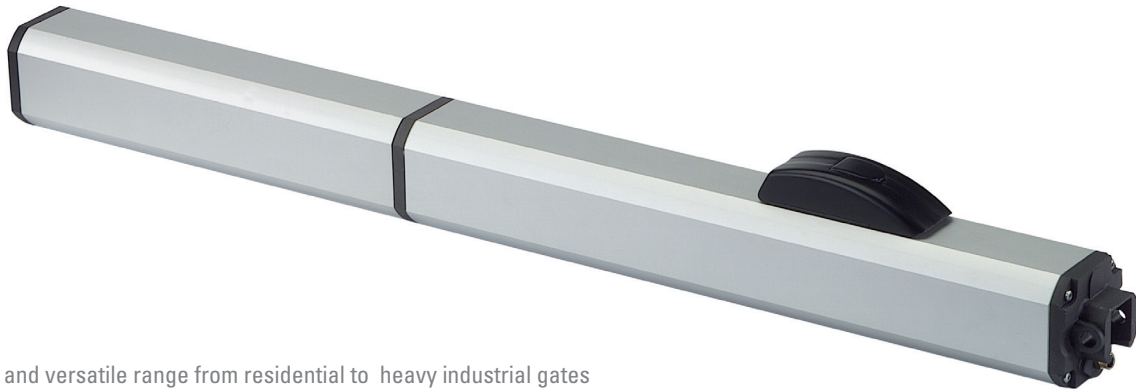
- The 422 CBAC (locks in closed and opened position) can be converted in SB (no locks). Call 1-800-221-8278 for more information.

ACCESSORIES

Description	Shipping Wt	Voltage	Part Number	Price
Photobeam Photocells Pair	1 lb (0.45 Kg)		785163	\$244
Photo beam mounting post single (with foundation plate)	5 lb (2.2 Kg)		401028/737630.5	\$123
Photo beam mounting post double (with foundation plate)	9 lb (4.1 Kg)		401035/737630.5	\$198
Positive Stop 422			3555	\$193
Plug in Loop Detector DSP11			2665	\$139
Plug in Loop Detector DSP10			2667	\$152
Shadow Detector Kit with DSP11		115V	26651.5	\$209
		230V	26652.5	\$209
Shadow Detector Kit with DSP10		115V	26671.5	\$220
		230V	26672.5	\$220
Maglock Relay Kit			2352	\$49
Transmitter Rolling Code 433MHz			787453	\$23
Receiver Rolling Code 433Mhz			787741	\$42
Transmitter 418 MHz Dip Switch Single Channel			1tm418ds	\$45
Transmitter 418 MHz Dip Switch Dual Channel			787317	\$53
Receiver 418 MHz Dip Switch			1rp418ds	\$79
Tuned Antenna Kit			412003	\$88

Hydraulic Swing Gate Operator

for condominium and industrial swing-leaf gates



- Wide and versatile range from residential to heavy industrial gates
- Hydraulic lock of the gate in open and/or closed positions
- Quiet operation
- Self lubricating for long life
- Keyprotected manual release



TECHNICAL SPECIFICATIONS

	400 CBC	400 CBAC	400 SB	400 SBS	400 CBACR	400 CBAC EG	400 SB EG
Input oltage	115 VAC (+10% -6%) or 230 VAC (+6% -10%)						
Power	220 W						
Current	2A (115V) - 1 A (230V)						
Motor rotation speed	1400 r.p.m.						
Thrust capacitor	25uF (115V) - 8uF (230V)						
Operating ambient temperature	4°F ÷ 131°F (-20 °C to +55 °C)						
Thermal protection on motor	248 °F (120 °C)						
Weight	19 lb (8.6 kg)					22 lb (10 kg)	
Protection class	IP 55						
Dimensions (L x D x H) in mm	40.5 x 4.4 x 3.3 in (1,031x113x85 mm)					50.6 x 4.4 x 3.3 in (1,285x113x85 mm)	

MODEL	400 CBC	400 CBAC	400 SB	400 SBS	400 CBACR	400 CBAC EG	400 SB EG
Hydraulic Locking (1) = Closing (2) = Opening and Closing	(1)	(2)	None	None	(2)	(2)	None
Maximum Leaf Length	16 ft (4.9 m)	16 ft (4.9 m)	18 ft (5.5 m)	20 ft (6.1 m)	12 ft (3.6 m)	18 ft (5.5 m)	20 ft (6.1 m)
Maximum Leaf Weight	1300 lb (589 Kg)	1300 lb (589 Kg)	1600 lb (726 Kg)	2000 lb (907 Kg)	900 lb 408 Kg)	1500 lb 680 Kg)	1800 lb (816 Kg)
Thrust force	1390 lbf (620 daN)	1390 lbf (620 daN)	1390 lbf (620 daN)	1740 lbf (775 daN)	1045 lbf (465 daN)	1045 lbf (465 daN)	1045 lbf (465 daN)
Pump flow rate (l/min)	1	1	1	0.75	1.5	1.5	1.5
Rod extension speed	0.4 in/sec (1 cm/sec)	0.4 in/sec (1 cm/sec)	0.4 in/sec (1 cm/sec)	0.3 in/sec (0.75 cm/sec)	0.6 in/s (1.5 cm/sec)	0.6 in/s (1.5 cm/sec)	0.6 in/s (1.5 cm/sec)
Effective rod stroke	10.25 in (260mm)	10.25 in (260mm)	10.25 in (260mm)	10.25 in (260mm)	10.25 in (260mm)	15 in (380mm)	15 in (380mm)
Use Frequency (cycles per hour)	70	70	70	60	80	50	50

Notes

- Mounting dimensions, wind factor and gate design will affect performance specification
- Use frequency is measured at an ambient temperature of 72 °F (20 °C) . Temperature variation will affect it
- An electric or magnetic lock is recommended for any gate longer than 12 ft (3.6 m)
- Positive gate stops, which limit gate travel, are required in the opened and closed positions

400

Model	Shipping Wt (approx)	Voltage	Oil Type	Part No.	Price
400 CBAC Standard Basic Single Kit	54 lb (24.5 Kg)	115V	Regular	10420112.5	\$2,925
			Arctic	1042011277.5	\$2,925
		230V	Regular	1042011.5	\$2,925
			Arctic	104201177.5	\$2,925
400 CBACR Rapid Basic Single Kit	54 lb (24.5 Kg)	115V	Regular	10420712.5	\$3,071
			Arctic	1042071277.5	\$3,071
		230V	Regular	1042071.5	\$3,071
			Arctic	104207177.5	\$3,071
400 CBAC EG (long) Basic Single Kit	54 lb (24.5 Kg)	115V	Regular	10420212.5	\$3,157
			Arctic	1042021277.5	\$3,157
		230V	Regular	1042021.5	\$3,157
			Arctic	104202177.5	\$3,157

The package 400 - Basic Single Kit 115V contains:

Q.ty	Description	Part Number
1	Operator 400 CBAC	Various
1	Prewired fiberglass enclosure 115V 14x16 in	-3300
1	455D control panel 115V	790919
1	Receiver 433 RC Plug In	787741
2	4-channel transmitter XT4 433 RC	787453

The package 400 - Basic Single Kit 230V contains:

Q.ty	Description	Part Number
1	Operator 400 CBAC	Various
1	Prewired fiberglass enclosure 230V 14x16 in	-3303
1	455D control panel 230V	790926
1	Receiver 433 RC Plug In	787741
2	4-channel transmitter XT4 433 RC	787453

To make the above kits a master/slave (bi-parting) system add one of the following:

Model	Shipping Wt	Voltage	Oil Type	Part No.	Price
400 CBAC Standard Operator only	29 lb (13.2 Kg)	115V	Regular	104201125	\$1,906
			Arctic	1042011277	\$1,906
		230V	Regular	1042011	\$1,906
			Arctic	1042011677	\$1,906
400 CBACR Rapid Operator only	29 lb (13.2 Kg)	115V	Regular	10420712	\$2,021
			Arctic	1042071277	\$2,021
		230V	Regular	1042071	\$2,021
			Arctic	104207177	\$2,021
400 CBAC EG (long) Operator only	29 lb (13.2 Kg)	115V	Regular	104202125	\$2,162
			Arctic	1042021277	\$2,162
		230V	Regular	1042021	\$2,162
			Arctic	104202177	\$2,162

The following operators can be special ordered. Call 1-800-221-8278 for more information.

Model	Shipping Wt	Voltage	Oil Type	Part No.	Price
400 CBC	29 lb (13.2 Kg)	115V	Regular	-	\$1,906
			Arctic	-	\$1,906
		230V	Regular	-	\$1,906
			Arctic	-	\$1,906
400 SB	29 lb (13.2 Kg)	115V	Regular	-	\$1,906
			Arctic	-	\$1,906
		230V	Regular	-	\$1,906
			Arctic	-	\$1,906
400 SBS	29 lb (13.2 Kg)	115V	Regular	-	\$2,021
			Arctic	-	\$2,021
		230V	Regular	-	\$2,021
			Arctic	-	\$2,021
400 SB EG	29 lb (13.2 Kg)	115V	Regular	-	\$2,162
			Arctic	-	\$2,162
		230V	Regular	-	\$2,162
			Arctic	-	\$2,162

ACCESSORIES



Positive Stop 400 Std.

Part No.	490109
Price	\$227



Positive Stop 400 EG

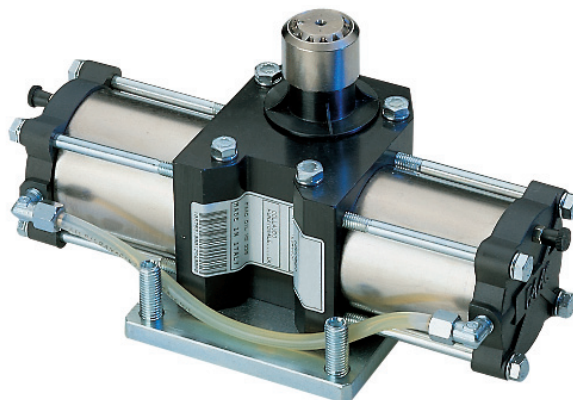
Part No.	490043
Price	\$227

Description	Shipping Wt	Voltage	Part Number	Price
Photobeam Photocells Pair	1 lb (0.45 Kg)		785163	\$244
Photo beam mounting post single (with foundation plate)	5 lb (2.2 Kg)		401028/737630.5	\$123
Photo beam mounting post double (with foundation plate)	9 lb (4.1 Kg)		401035/737630.5	\$198
Plug in Loop Detector DSP11			2665	\$139
Plug in Loop Detector DSP10			2667	\$152
Shadow Detector Kit with DSP11		115V	26651.5	\$209
		230V	26652.5	\$209
Shadow Detector Kit with DSP10		115V	26671.5	\$220
		230V	26672.5	\$220
Maglock Relay Kit			2352	\$49
Transmitter Rolling Code 433MHz			787453	\$23
Receiver Rolling Code 433Mhz			787741	\$42
Transmitter 418 MHz Dip Switch Single Channel			1tm418ds	\$45
Transmitter 418 MHz Dip Switch Dual Channel			787317	\$53
Receiver 418 MHz Dip Switch			1rp418ds	\$79
Tuned Antenna Kit			412003	\$88

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In-ground hydraulic operator

for residential and condominium swing-leaf gates with single-leaf
max weight of 1700 lb (771 Kg)



- Invisible, quiet operator with separate drive unit and pump motor.
- The ideal solution for artistic gates
- Wide and versatile range from residential to commercial
- Hydraulic lock of the gate in open and closed positions
- Quite operation
- Self lubricating for long life



TECHNICAL SPECIFICATIONS OF 750 PUMP MOTOR ASSEMBLY

Input voltage	115 VAC (+10% -6%) or 230 VAC (+6% -10%)
Power	220 W
Current	2A (120V) - 1 A (230V)
Motor rotation speed	1400 r.p.m.
Pump flow rate	0.75 l/min
Operating ambient temperature	4°F ÷ 131°F (-20 °C to +55 °C)
Protection class	IP 55
Thermal protection on motor winding	248 °F (120 °C)
Use Frequency (cycles per hour)	45
Weight	16.5 lb (7.5 kg)
Dimensions (L x D x H) in mm	9.6 x 13.9 x 5.5 in (245x353x141mm)

TECHNICAL SPECIFICATIONS OF 750 DRIVE UNIT

	100° opening	180° opening
Maximum rotation angle	118°	200°
Angle speed	7.8°/s	
Protection class	IP 67	
Effective torque	400 lbf.ft (543 Nm)	
Maximum leaf length	13 ft (4 m) with external lock - 8 ft (2.4m) without external lock	
Maximum leaf weight	1700 lb (771 Kg)	

Notes

- Mounting dimensions, wind factor and gate design will affect performance specification
- Use frequency is measured at an ambient temperature of 72 °F (20 °C). Temperature variation will affect it
- An electric or magnetic lock is recommended for any gate longer than 8 ft (2.4 m)
- Positive gate stops, which limit gate travel, are required in the opened and closed positions

750

Model	Shipping Wt (approx)	Voltage	Part No.	Price (euro)
750 CBAC Pump Motor Assembly with enclosure	15 lb (6.8 Kg)	115 V	107725.5	\$1,068
		230 V	1077251.5	\$1,068
750 CBAC Pump Motor Assembly only	12 lb (5.4 Kg)	115 V	107725	\$1,068
		230 V	1077251	\$1,068
750 100° Drive Unit	26 lb (11.8 Kg)		108757	\$1,106
750 180° Drive Unit	26 lb (11.8 Kg)		108758	\$1,275

The 750 Drive Unit includes: the drive unit, installation accessories, metal enclosure with stainless steel cover, extra oil.

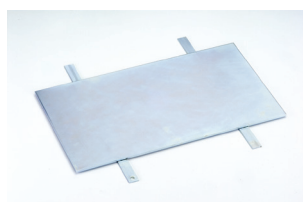
To assemble a 115V system for a sigle leaf gate you need:

Q.ty	Description	Part No.
1	750 CBAC Pump Motor Assembly with enclosure	107725.5
1	750 100° Drive Unit	-3300
1	455D with 14 x 16 in. fiberglass enclosure	455D115F.5
1	Foundation plate	737607
1	Flex hose connector kit	390421.5
1	Flexible hydraulic hose	390422

To assemble a 115V system for a dual leaf gate you need:

Q.ty	Description	Part No.
2	750 CBAC Pump Motor Assembly with enclosure	107725.5
2	750 100° Drive Unit	-3303
1	455D with 14 x 16 in. fiberglass enclosure	455D115F.5
2	Foundation plate	737607
2	Flex hose connector kit	390421.5
2	Flexible hydraulic hose	390422

COMPONENTS



Foundation plate

Part No.	737607
Price	\$64



Flex hose connector kit

Part No.	390421.5
Price	\$79



Flexible hydraulic hose

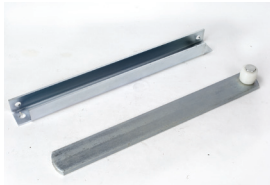
Length 33 ft (10m)	390422
Price	\$143
Length 328 ft (100 m)	390439
Price	\$1,312



Hydraulic pump enclosure

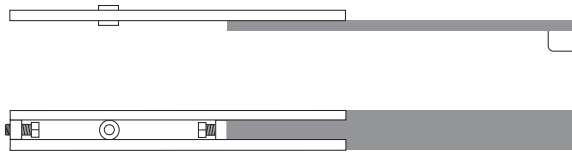
Part No.	720309
Price	\$102

ACCESSORIES



U-channel style extension arm

Part No.	738704
Shipping Wt.	9 lb (4.1 Kg)
Price	\$116



Extension arm

Part No.	2141
Shipping Wt.	9 lb (4.1 Kg)
Price	\$116

Extension arm with positive stops

Part No.	2142
Shipping Wt.	9 lb (4.1 Kg)
Price	\$246

Description	Shipping Wt	Voltage	Part Number	Price
Photobeam Photocells Pair	1 lb (0.45 Kg)		785163	\$244
Photo beam mounting post single (with foundation plate)	5 lb (2.2 Kg)		401028/737630.5	\$123
Photo beam mounting post double (with foundation plate)	9 lb (4.1 Kg)		401035/737630.5	\$198
Plug in Loop Detector DSP11			2665	\$139
Plug in Loop Detector DSP10			2667	\$152
Shadow Detector Kit with DSP11		115V	26651.5	\$209
		230V	26652.5	\$209
Shadow Detector Kit with DSP10		115V	26671.5	\$220
		230V	26672.5	\$220
Maglock Relay Kit			2352	\$49
Transmitter Rolling Code 433MHz			787453	\$23
Receiver Rolling Code 433Mhz			787741	\$42
Transmitter 418 MHz Dip Switch Single Channel			1tm418ds	\$45
Transmitter 418 MHz Dip Switch Dual Channel			787317	\$53
Receiver 418 MHz Dip Switch			1rp418ds	\$79
Tuned Antenna Kit			412003	\$88

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455D

115VAC / 230VAC Control Board for Swing Gate Operators



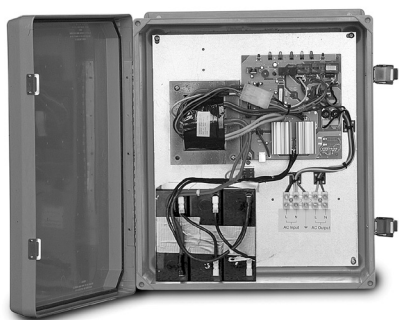
- Operates a single leaf or bi-parting gate
- Programmable opening and closing slow down
- 8 different function logics
- Built in closing timer
- Fail safe function for photocells
- Opening and closing delays selectable for overlapping gates
- Electrical thrust force adjustable

TECHNICAL SPECIFICATIONS

Input voltage	115 VAC (+10% -6%) or 230 VAC (+6% -10%)
Input power	10 W
Motor max. load	800 W
Accessory max. load	500 mA
Electric lock max load	15 VA
Operating Temperature	-4°F ÷ 131°F (-20°C ÷ +55°C)
Dimensions overall (L x D x H)	17.5 x 15.5 x 6.2" (445x393x157mm)
Weight (without batteries)	15.5 Lbs (7 kg)
Protection class	NEMA type 3, 3R, 4, 4X, 12 and 13
Number of operating logics	8
Protection Fuses	2

Description	Shipping Wt	Voltage	Part Number	Price
455D Control Board Replacement		115V	790919	\$730
		230V	790926	\$730
455D with 14 x 16 in. fiberglass enclosure	25 lb (11.3 Kg)	115V	455D115F.5	\$1,224
		230V	455D220F.5	\$1,224
455D with 20 x 16 in. metal enclosure	35 lb (15.8 Kg)	115V	455D115A.5	\$1,465
		230V	455D220A.5	\$1,465
Fiberglass enclosure 14 x 16 in. prewired	25 lb (11.3 Kg)	115V	-3300	\$580
		230V	-3303	\$580
Fiberglass enclosure 10 x 12 in. with backplate	10 lb (4.5 Kg)		2359	\$252

Battery Back-up



- Fail safe operation
- AC surge and lightning protection built-in
- LEDs indicate line / battery mode, low battery, replace battery status

TECHNICAL SPECIFICATIONS

Nominal Input Voltage	120 VAC	230 VAC
Low Voltage transfer to Battery	99 VAC	159 VAC
Output Volt Amp Capacity	1050 VA	800 VA
Output Watt Capacity	705	475
Output Voltage regulation (Battery Mode)	+ / - 5%	
Frequency Compatibility	60 Hz	50 / 60 Hz
Battery Recharge rate	Less than 4 hours from 10% to 90%	
DC system voltage	18 V	12 V
Operating Temperature	32°F ÷ 104°F (0°C ÷ +40°C)	

Description	Shipping Wt	Voltage	Part Number	Price
Battery Backup Single Gate (controls one full system)	45 lb (16.8 Kg)	115V	3520	\$1,806
		230V	3521	\$1,806
Battery Backup Dual Gate (controls two separate full systems)	45 lb (16.8 Kg)	115V	3522	\$2,048
		230V	3523	\$2,048
Battery Backup replacement board		115V	3233	\$1,200
		230V	3234	\$781
12V Replacement battery for 230V version	6 lb (2.7 Kg)		3540	\$66
18V Replacement battery pack for 115V version	10 lb (4.5 Kg)		3533	\$203

Operating Mode: FAIL SAFE

The battery backup operates so that during a power outage the gates is opened and left open until the power comes back. The operators will guarantee full access to the property during a power outage.

Type of installation

Leaf max. weight	Residential	Condominium	Industrial
900 lb	C720 740		
1,400 lb	746	746	
1,800 lb	C721	C721	
4,000 lb		844	844

The FAAC logo is rendered in a white, bold, sans-serif typeface. The letters 'F' and 'A' are connected, as are 'A' and 'C'. A thin white horizontal line is positioned directly beneath the logo.

FAAC

Automated systems for
slide gates

Low voltage slide gate operators

for residential slide gates with max weight of:

C720 900 lb (408 Kg)

C721 1800 lb (816 Kg)



- Residential use (C720), commercial use (C721).
- New mobile-axis reduction gear.
- Exceptionally high mechanical efficiency >80%.
- Control unit with anti-crushing device and electronic encoder with reverse function upon detection of obstacle.
- Magnetic limit switches.
- Master-Slave function for controlling 2 opposing leafs



TECHNICAL SPECIFICATIONS

	C720	C721
Input voltage	115 VAC (+10% -6%)	230 VAC (+6% -10%)
Motor power supply	24 Vdc	
Power	220 W	290 W
Current	7 A	12 A
Electric motor speed	3200 r.p.m.	3.600 r.p.m.
Thrust on gate	72 lbf (320 N)	119 lbf (530 N)
Leaf max weight	900 lb (408 Kg)	1800 lb (816 Kg)
Limit-switches	Magnetic	
Pinion	Z28 module 4	
Gate speed	59 ft/min (18 m/min)	
Use frequency	continuous	
Operating ambient temperature	-4°F ÷ 131°F (-20°C ÷ +55°C)	
Operator weight	17.6 lb (8 kg)	
Dimensions (L x D x H)	11.8 x 7 x 11 in (300x180x280mm)	
Protection class	IP 44	

C720 - C721

Model	Shipping Wt (approx)	Part No	Price
C720	22 lb (10 Kg)	109322	\$964
C721	22 lb (10 Kg)	109321	\$1,540

The package includes: the electro-mechanical operator with control unit E 721, pinion for rack, release key, foundation plate, magnetic limit switches.

ACCESSORIES



Galvanised rack plus fittings.
4 sections of 3.3 ft (1m) each

Part no.	490122
Price	\$240
Shipping Wt	24 lb (11 Kg)



Nylon rack with steel reinforcement plus fittings.
4 sections of 3.3 ft (1m) each

Part no.	4901204
Price	\$180
Shipping Wt	11 lb (5 Kg)



Battery kit XBAT 24

Part no.	390923
Price	\$246
Shipping Wt	3.3 lb (1,5 Kg)

Description	Shipping Wt (approx)	Part Number	Price
E721 Control Board (replacement only)		63002485	\$495
Photobeam Photocells Pair		785163	\$244
Transmitter Rolling Code 433MHz		787453	\$23
Receiver Rolling Code 433Mhz		787741	\$42
Transmitter 418 MHz Dip Switch Single Channel		1tm418ds	\$45
Transmitter 418 MHz Dip Switch Dual Channel		787317	\$53
Receiver 418 MHz Dip Switchj		1rp418ds	\$79

Slide gate operator

for slide gates with max weight of up to 1,400 lb (635) kg

- Quick and easy installation thanks to the built-in, prewired control unit.
- Maximum anti-crushing safety with a twin-disk oil-bath clutch and electronic board with encoder for reverse on obstacle
- Non reversing operator, no electric locks needed
- Key protected manual release device.
- Inductive or magnetic limit switch (according to model).
- Adjustable mounting bracket for flexible positioning.
- Simplified programming via display and pushbuttons



TECHNICAL SPECIFICATIONS

	Z16	Z20
Input voltage	230 Vac (+6% -10%)	
Power	300 W	
Current	1.5 A	
Electric motor	0.3 KW (0.4 hp)	
Capacitor	12.5 uF	
Traction and thrust force	140 lbf (625 N)	112 lbf (500 N)
Motor rotation speed	1700 r.p.m.	
Reduction ratio	1:30	
Gate max weight	1400 lb (635 Kg)	900 lb (408 Kg)
Gate speed	38 ft/min (11.6 m/min)	47 ft/min (14.3 m/min)
Gate max length	131 ft (40 m)	164 ft (50 m)
Use frequency	70%	
Thermal protection on motor winding	120 °C	
Clutch	Twin-disk in oil-bath	
Operating ambient temperature	-4°F ÷ 131°F (-20°C ÷ +55°C)	
Operator weight	31 lb (14 Kg)	
Dimensions (L x D x H)	10.8 x 7.5 x 13.2 in (275x191x336 mm)	
Protection class	IP 44	

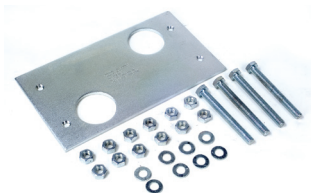
746 ER

Model	Shipping Wt (approx)	Part no.	Price
746 ER Z20 Pinion	44 lb (20 Kg)	109773	\$1,719
746 ER Chain	50 lb (22.7 Kg)	109775.5	\$1,719

The packages **746 ER Z20 pinion**, designed for on-rack applications include: the operator with Z20 pinion and control board 780D, limit switch magnets, manual release key. NOTE: rack is not included.

The package **746 ER Chain**, designed for chain applications, includes: the operator with idle transmissions, Z20 sprocket and control board 780D, limit plates, chain mounting hardware with nickel plated master links, manual release key. NOTE: chain is not included.

ACCESSORIES



Foundation plate with side and height adjustments

Part no.	737816
Price	\$75
Shipping Wt	6 lb (2.7 Kg)



Galvanised rack plus fittings. 4 sections of 3.3 ft (1m) each

Part no.	490122
Price	\$240
Shipping Wt	24 lb (11 Kg)



Nickel plated chain 10 ft length with master links

Part no.	2000
Price	\$70
Shipping Wt	5 lb (2.2 Kg)



Stainless steel chain 10 ft length with master links

Part no.	2002
Price	\$210
Shipping Wt	5 lb (2.2 Kg)



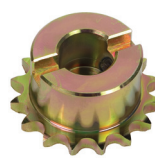
Pinion Z16 for rack

Part no.	719130
Price	\$57



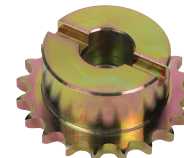
Pinion Z20 for rack

Part no.	719167
Price	\$57



Pinion Z16 for chain

Part no.	719137
Price	\$88



Pinion Z20 for chain

Part no.	719135
Price	\$96

Description	Shipping Wt (approx)	Part Number	Price
780 D Control Board (replacement only)	1 lb (.45 Kg)	7909212	\$654
Adapter kit replacement with 780D board and accessories	3 lb (1.4 Kg)	490114	\$673
Mounting pedestal 18 in. galvanized	18 lb (8.2 Kg)	2411	\$256
Photobeam Photocells Pair		785163	\$244
Transmitter Rolling Code 433MHz		787453	\$23
Receiver Rolling Code 433Mhz		787741	\$42
Transmitter 418 MHz Dip Switch Single Channel		1tm418ds	\$45
Transmitter 418 MHz Dip Switch Dual Channel		787317	\$53
Receiver 418 MHz Dip Switchj		1rp418ds	\$79

Slide gate operator

for slide gates with max weight of up to 4000 lb (1814 kg)

- Ideal for commercial and industrial applications
- Maximum anti-crushing safety with a twin-disk oil-bath clutch and electronic board with encoder for reverse on obstacle
- Non reversing operator, no electric locks needed
- Key protected manual release device.
- Inductive or magnetic limit switch (according to model).
- Adjustable mounting bracket for flexible positioning.
- Simplified programming via display and pushbuttons
- UL325 / UL 991 listed



TECHNICAL SPECIFICATIONS

	Z16	Z20
Input voltage	115 VAC (+10% -6%)	
Power	650 W	
Current	7 A	
Electric motor	0.65 KW (0.87 hp)	
Capacitor	70 uF	
Traction and thrust force	247 lbf (1100 N)	198 lbf (880 N)
Motor rotation speed	1700 r.p.m.	
Reduction ratio	1:30	
Gate max weight	4000 lb (1814 Kg)	2200 lb (998 Kg)
Gate speed	38 ft/min (11.6 m/min)	47 ft/min (14.3 m/min)
Gate max length	131 ft (40 m)	164 ft (50 m)
Use frequency	70%	
Thermal protection on motor winding	120 °C	
Clutch	Twin-disk in oil-bath	
Operating ambient temperature	-4°F ÷ 131°F (-20°C ÷ +55°C)	
Operator weight	32 lb (14.5 Kg)	
Dimensions (L x D x H)	10.8 x 7.5 x 15.3 in (275x191x336 mm)	
Protection class	IP 44	

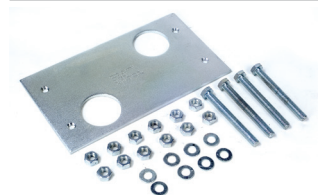
844 ER

Model	Shipping Wt (approx)	Part no.	Price
844 ER Z16 Pinion	44 lb (20 Kg)	1098371	\$2,350
844 ER Chain	50 lb (22.7 Kg)	1098951.5	\$2,350

The packages 844 ER Z16 pinion, designed for on-rack applications include: the operator with Z16 pinion and control board 780D, limit switch magnets, manual release key. NOTE: rack is not included.

The package 844 ER Chain, designed for chain applications, includes: the operator with idle transmissions, Z16 sprocket and control board 780D, limit plates, chain mounting hardware with nickel plated master links, manual release key. NOTE: chain is not included.

ACCESSORIES



Foundation plate with side and height adjustments

Part no.	737816
Price	\$75
Shipping Wt	6 lb (2.7 Kg)



Galvanised rack plus fittings. 4 sections of 3.3 ft (1m) each

Part no.	490122
Price	\$240
Shipping Wt	24 lb (11 Kg)



Nickel plated chain 10 ft length with master links

Part no.	2000
Price	\$70
Shipping Wt	5 lb (2.2 Kg)



Stainless steel chain 10 ft length with master links

Part no.	2002
Price	\$210
Shipping Wt	5 lb (2.2 Kg)



Pinion Z16 for rack

Part no.	719130
Price	\$57



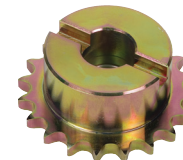
Pinion Z20 for rack

Part no.	719167
Price	\$57



Pinion Z16 for chain

Part no.	719137
Price	\$88



Pinion Z20 for chain

Part no.	719135
Price	\$96

Description	Shipping Wt (approx)	Part Number	Price
780 D Control Board (replacement only)	1 lb (.45 Kg)	79092112	\$654
Mounting pedestal 18 in. galvanized	18 lb (8.2 Kg)	2411	\$256
Photobeam Photocells Pair		785163	\$244
Transmitter Rolling Code 433MHz		787453	\$23
Receiver Rolling Code 433MHz		787741	\$42
Transmitter 418 MHz Dip Switch Single Channel		1tm418ds	\$45
Transmitter 418 MHz Dip Switch Dual Channel		787317	\$53
Receiver 418 MHz Dip Switchj		1rp418ds	\$79
Audio alarm enclosure		5000	\$120

Low voltage slide gate operator

for residential slide gates with max weight of 900 lb (408 Kg)

- Quick and easy installation thanks to the built-in, prewired control unit.
- Non reversing operator, no electric locks needed.
- Key protected manual release device
- Simplified "on display" programming.
- Magnetic limit switch.
- Integrated encoder for reverse on obstacle and accurate management of partial opening and slow down.



TECHNICAL SPECIFICATIONS

Input voltage	115 VAC (+10% -6%)
Motor Voltage	24 Vdc
Power	70 W
Current	3 A
Traction and thrust force	90 lbf (400 N)
Pinion type	Z16
Leaf max. weight	900 lb (408 Kg)
Gate max speed	39 ft/min (12 m/min)
Gate max length	49 ft (15 m)
Use frequency	continuous
Operating ambient temperature	-4°F ÷ 131°F (-20°C ÷ +55°C)
Operator weight	18.7 lb (8.5 Kg)
Dimensions (L x D x H)	11.6 x 8.8 x 12.8 in (295x225x325)
Protection class	IP 44

740

Model	Shipping Wt (approx)	Part No	Price
740	30 lb (13.6 Kg)	10978021	\$1,217

The package includes: a 740 operator with electronic equipment 724D, pinion, two unlock keys, foundation plate 12 x 7 in, magnetic limit switches.

ACCESSORIES



Galvanised rack plus fittings.
4 sections of 3.3 ft (1m) each

Part no.	490122
Price	\$240
Shipping Wt	24 lb (11 Kg)



Nylon rack with steel reinforcement plus fittings.
4 sections of 3.3 ft (1m) each

Part no.	4901204
Price	\$180
Shipping Wt	11 lb (5 Kg)

Description	Shipping Wt (approx)	Part Number	Price
724D Control Board (replacement only)	1 lb (.45 Kg)	790939	\$695
Battery Backup Kit (includes 2 batteries, wiring, bracket)	2 lb (.9 Kg)	390901	\$155
1.2 Ah battery replacement	1 lb (.45 Kg)	3633	\$68
Photobeam Photocells Pair		785163	\$244
Transmitter Rolling Code 433MHz		787453	\$23
Receiver Rolling Code 433Mhz		787741	\$42
Transmitter 418 MHz Dip Switch Single Channel		1tm418ds	\$45
Transmitter 418 MHz Dip Switch Dual Channel		787317	\$53
Receiver 418 MHz Dip Switch		1rp418ds	\$79

The FAAC logo is rendered in a white, bold, sans-serif typeface. The letters 'F' and 'A' are connected, as are 'A' and 'C'. A thin white horizontal line is positioned directly beneath the logo.

FAAC

Pad Mount Series

Low voltage slide gate operator

for residential and commercial slide gates with max weight of 1000 lb (454 Kg)

- 24 VDC direct drive motor
- Heavy duty gearbox
- Easy to set limits
- Built in battery backup
- Soft Start Soft Stop smooth operation
- Plug in loop detectors
- 2 AC power accessory plugs
- Built in buttons control for easy setup
- Different power fail options
- Adjustable chain idlers for front, rear and post mount slide gates
- UL325 Listed



TECHNICAL SPECIFICATIONS

Input voltage	120 VAC (+5% -5%)
Power	500 W
Current	5 A
Motor voltage	24 VDC
Motor power	0.67 hp (0.5 KW)
Leaf max weight	1000 lb (454 Kg)
Leaf max length	40 ft (12 m)
AC accessory outlets	2 GFCI protected
AC accessory current	4 A
Gate speed	12 in/sec
Gearbox	15:1 fail safe
Use frequency	75 cycles/h
Operating ambient temperature	-4°F ÷ 131°F (-20°C ÷ +55°C)
Operator weight	125 lb (57 Kg)
Dimensions (H x W x D)	22 x 18 x 15 in (559x457x381mm)
Chain height - front mount	11 in (278 mm) from base
Chain type	# 41

FSL 700

Model	Shipping Wt (approx)	Part No	Price
FSL 700	125 lb (57 Kg)	FSL700	\$2,340

The package includes: the electro-mechanical operator with control unit, 25 ft of chain with 2 master links, 2 chain bolts, 2 chain brackets, batteries.

ACCESSORIES



**Wireless Master-Slave set
(2 modules)**

Part no.	WMS100
Price	\$354



Plug-in loop detector

Part no.	PLD1500
Price	\$177



Digital lock

Part no.	DL1000
Price	\$385
Shipping Wt	6 lb (2.7 Kg)



Gooseneck mounting post

Part no.	GNS100
Price	\$135
Shipping Wt	11 lb (5 Kg)



Fire Box

Part no.	FLB100
Price	\$94
Shipping Wt	5 lb (2.3 Kg)

Description	Shipping Wt (approx)	Part Number	Price
Control Board (replacement only)		GC3101	\$518
Photobeam Photocells Pair		785163	\$244
Transmitter Rolling Code 433MHz		787453	\$23
External Receiver Rolling Code 433Mhz		787747	\$57

Low voltage swing gate operator

for residential and commercial swing gates with max weight 800 lb (363 Kg) and max length of 18 ft (5.5 m)

- 24 VDC direct drive motor
- Heavy duty gearbox
- Easy to set limits
- Built in battery backup
- Soft Start Soft Stop smooth operation
- Plug in loop detectors
- 2 AC power accessory plugs
- Built in buttons control for easy setup
- Different power fail options
- Wireless master slave option
- UL325 Listed



TECHNICAL SPECIFICATIONS

Input voltage	120 VAC (+5% -5%)
Power	500 W
Current	5 A
Motor voltage	24 VDC
Motor power	0.67 hp (0.5 KW)
Leaf max weight	800 lb (363 Kg)
Leaf max length	18 ft (5.5 m)
AC accessory outlets	2 GFCI protected
AC accessory current	4 A
Gate speed	90 ° in approx 14 Seconds
Gearbox	900:1 fail secure
Use frequency	75 cycles/h
Operating ambient temperature	-4°F ÷ 131°F (-20°C ÷ +55°C)
Operator weight	150 lb (68 Kg)
Dimensions (L x D x H)	18 x 18.5 x 23.5 in (457x470x597mm)
Arm attachment height	17 in (432 mm) from base

FSW 900

Model	Shipping Wt (approx)	Part No	Price
FSW 900	150 lb (68 Kg)	FSW900	\$2,694

The package includes: the electro-mechanical operator with control unit, articulated arm, batteries.

ACCESSORIES



**Wireless Master-Slave set
(2 modules)**

Part no.	WMS100
Price	\$354



Plug-in loop detector

Part no.	PLD1500
Price	\$177



Digital lock

Part no.	DL1000
Price	\$385
Shipping Wt	6 lb (2.7 Kg)



Gooseneck mounting post

Part no.	GNS100
Price	\$135
Shipping Wt	11 lb (5 Kg)



Fire Box

Part no.	FLB100
Price	\$94
Shipping Wt	5 lb (2.3 Kg)

Description	Shipping Wt (approx)	Part Number	Price
Control Board (replacement only)		GC3101	\$518
Photobeam Photocells Pair		785163	\$244
Transmitter Rolling Code 433MHz		787453	\$23
External Receiver Rolling Code 433Mhz		787747	\$57

Type of installation

Residential	615		
Condominium	615	620 Rapid	
Industrial			640
Parking		620 Rapid	
Use frequency	50%	Continuous duty	Continuous duty
Beam max. length	13 ft	13 ft	23 ft
Opening time (s)	6	from 2 to 3	from 4 to 8

The FAAC logo is rendered in a white, bold, sans-serif typeface. The letters 'F' and 'A' are connected, as are 'A' and 'C'. A thin white horizontal line is positioned directly beneath the logo.

FAAC

Automatic
barriers

Automatic barrier

for beams up to 13 ft (4 m)

- Ideal for light to moderate traffic applications
- Hydraulic operator with opening and closing locks
- Adjustable hydraulic pressure
- External triangular key operated manual release
- Built in limit-switches
- Quiet operation



TECHNICAL SPECIFICATIONS 615 BPR

Input voltage	115 VAC (+10% -6%) - 230 Vac (+6% -10%)
Power	220 W
Current	2A (115V) - 1 A (230V)
Motor rotation speed	1400 r.p.m.
Pump flow rate	1,5 l/min
Opening time	6 s
Max beam length	13 ft (4 m)
Thermal protection on motor winding	248 °F (120 °C)
Operating ambient temperature	-4°F ÷ 131°F (-20°C ÷ +55°C)
Weight	75 lb (34 kg)
Barrier body treatment	100 micron epoxy zinc-plating anti-corrosion treatment
Paint	Polyester RAL 2004
Protection class	IP 44
Max. consecutive cycles at 68°F (20°)	220
Use frequency	50%
Dimensions (L x D x H)	10.6 x 5.5 x 40 in (270x140x1015 mm)
Thrust capacitor	8 µF 400 V

615 BPR CONTROL BOARD TECHNICAL SPECIFICATIONS

Motor max. load	800 W
Accessories max. current	250 mA
Operating ambient temperature	-4°F ÷ 131°F (-20°C ÷ +55°C)
Protection fuses	F1 = 6,3 A - 250 V - F2 = self-resetting
Function logics	6
Work time (time-out)	Self-learning (0-10 min with steps of 2.5 sec) - Default=10 min
Pause time	Self-learning (0-5 min with steps of 1.5 sec) - Default=30 sec
Terminal board inputs	Open - Close - Stop - Closing safety devices - Limit switches - Power supply
Terminal board outputs	Motor - Flashing lamp - Courtesy light and accessories power supply

615 BPR

Model	Shipping Wt (approx)	Part No.	Price
615 standard 115 VAC	79 lb (36 kg)	1049062	\$2,027
615 standard 230 VAC	79 lb (36 kg)	104906	\$2,027

The packages 615 include: barrier body, hydraulic transmission system complete with hydraulic control unit and double-acting piston, installation accessories, a triangular release key.

NOTE: Make sure to order the beamkit when ordering the operator

Beam Kits

	Actual Length	Spring	Shipping Wt (approx)	Part No.	Price
6 feet	71.5 in (1815 mm)	5.5	10 lb (4.5 Kg)	428087/615.5	\$309
8 feet	91.1 in (2315 mm)	6.0	12 lb (5.4 Kg)	428088/615.5	\$394
10 feet	110.8 in (2815 mm)	6.0	15 lb (6.8 Kg)	428089/615.5	\$440
13 feet	150.2 in (3815 mm)	7.0	19.5 lb (8.8 Kg)	428090/615.5	\$505

Balancing springs

Ø	Part No.	Price
5,5	721008	\$63
6,0	721005	\$65
7,0	721006	\$89

Note:

The Beam Kits include:

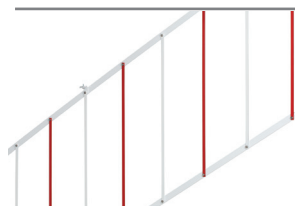
- Alluminium Beam
- Spring
- Beam Bracket



Standard rectangular beams

Length	71.5 in (1815mm)
Part No.	428087
Price	\$210
Length	91.1 in (2315mm)
Part No.	428088
Price	\$288
Length	110.8 in (2815mm)
Part No.	428089
Price	\$328
Length	150.2 in (3815mm)
Part No.	428090
Price	\$394

ACCESSORIES



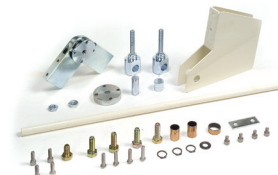
Skirted Beam Kits

Length	6.5 ft (2m)
Part No.	4282431
Price	\$516
Length	10 ft (3m)
Part No.	4282441
Price	\$740



Foundation plate

Part No.	490073
Price	\$64



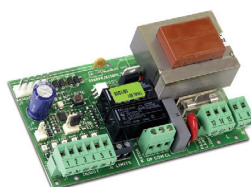
Articulated Beam kit max. ceiling height 10 ft (3 m)

Part No.	428137
Price	\$840



Beam Bracket

Part No.	428342
Price	\$117



615 BPR control board

Part No. 115V	20228125
Part No. 220V	790281
Price	\$680



Anti-vandalism valve

Part No.	401066
Price	\$435

Automatic barrier for beams up to 13 ft (4 m)

- The ideal solution for heavy traffic applications
- Hydraulic operator with opening and closing locks
- Electronic slow down and adjustable hydraulic pressure
- Programmable outputs to signal the status of the barrier
- Automatic, semi-automatic, parking logics
- External manual release with triangular key.
- Built-in detector, two independent channels.
- Continuous duty operation
- Automatic fan cooling
- Quiet operation
- UL325 listed



TECHNICAL SPECIFICATIONS 620 RAPID

Input voltage	115 VAC (+10% -6%) - 230 Vac (+6% -10%)
Power	220W
Current	2A (115V) - 1 A (230V)
Motor rotation speed	1400 - 2800 r.p.m.
Pump flow rate	1.5 - 2 l/min
Opening time	From 2 s to 3 s depending on beam length
Max Beam length	13.1 ft (4 m)
Thermal protection on motor winding	248 °F (120 °C)
Electronic deceleration	Adjustable with cams
Operating ambient temperature	-4°F ÷ 131°F (-20°C ÷ +55°C)
Use frequency	Continuous
Weight	161 lb (73 kg)
Barrier body treatment	100 micron epoxy zinc-plating anti-corrosion treatment
Paint	Polyester RAL 2004 (orange vers.)
Protection class	IP 44
Cooling	Forced air
Dimensions (L x D x H)	13.8 x 6.7 x 42.5 in (350x170x1080mm)
Thrust capacitor	8 µF 400 V

624BLD CONTROL BOARD TECHNICAL SPECIFICATIONS

Motor max. load	300 W
Accessories power supply	24 Vdc
Accessories max. current	500 mA
Operating ambient temperature	-4°F ÷ 131°F (-20°C ÷ +55°C)
Protection fuses	F1=F 5A-250 V F2=T 0,8A-250V
Function logics	11
Work time	Programmable (0 to 4 min)
Pause time	Programmable (0 to 4 min)
Motor thrust	Programmable on 50 levels
Terminal board inputs	Loop 1, Loop 2, Open, Close, Closing safety devices, Stop, Emergency, 230 Vac power supply+Earth
Connector inputs	Opening and closing limit switches, motor capacitor, beam release sensor
Terminal board outputs	Flashing lamp, fan, motor, 24 Vdc power supply, fail-safe, status output, 24 Vdc indicator light

620 RAPID

Model	Shipping Wt (approx)	Part No.	Price
620 rapid 115V	165 lb (75 kg)	See following table	\$4,040
620 rapid 230V	165 lb (75 kg)	See following table	\$4,040

The packages 620 rapid include: Barrier body, hydraulic drive transmission system, balancing spring, control unit, installation accessories, a triangular release key. **NOTE:** Make sure to order the beamkit when ordering the operator

PART NUMBERS TABLE FOR 620 RAPID BARRIER

Voltage	Pump Size	Beam	Spring No.	Orientation	Orange Cabinet Part No.	White Cabinet Part No.
230V	2 LT/min	6 feet	7210855	Left	10463282	10463283
				Right	10465282	10465283
		8 feet	7210695	Left	10463382	10463383
				Right	10465382	10465383
	1.5 LT/min	10 feet	7210705	Left	10463482	10463483
				Right	10465482	10465483
		13 feet	7210885	Left	10463582	10463583
				Right	10465582	10465583
115V	1.5 LT/min	10 feet	7210705	Left	104634821	104634831
				Right	104654821	104654831
		13 feet	7210885	Left	104635821	104635831
				Right	104655821	104655831

Rectangular Beam Kits

	Actual Length	Shipping Wt (approx)	Part No.	Price
6 feet	71.5 in (1815 mm)	10 lb (4.5 Kg)	428087/620.5	\$309
8 feet	91.1 in (2315mm)	12 lb (5.4 Kg)	428088/620.5	\$394
10 feet	110.8 in (2815mm)	15 lb (6.8 Kg)	428089/620.5	\$440
13 feet	150.2 in (3815mm)	19.5 lb (8.8 Kg)	428090/620.5	\$505

Note:

The Beam Kits include:

- Rectangular Aluminium Beam
- Beam Bracket



Foundation plate

Part No.	490058
Price	\$247



Beam rackets

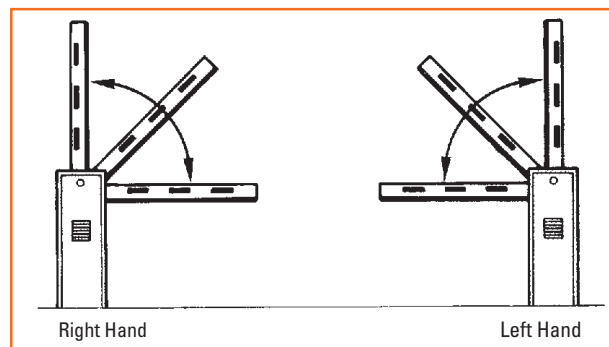
Rectangular beams

Part No.	428342
Price	\$117
Round beams	
Part No.	428152
Price	\$311

Note:

When replacing beams on 620 barriers older than 2005 (serial no. 1005xxxx and below) the beam bracket will also need to be replaced and the adapter p/n **390265** will be needed.

Part No.	390265
Price	\$30



You can determine right or left barrier version by looking at the barrier from the door side (see drawing above). The door usually faces the inside of the property.

620 Rapid

Rectangular Beams

		Actual Length	Part No.	Price
	6 feet	71.5 in (1815 mm)	428087	\$210
	8 feet	91.1 in (2315mm)	428088	\$288
	10 feet	110.8 in (2815mm)	428089	\$328
	13 feet	150.2 in (3815mm)	428090	\$394

Round Beams

		Actual Length	Spring	Part No.	Price
	8 feet	98.4 in (2500mm)	7210855	428078	\$394
	10 feet	118.1 in (3000mm)	7210695	428176	\$536
Note Order the barrier that uses the above springs along with the beam					

ACCESSORIES



Articulation beam kit
max. ceiling height 10 ft (3m)
(rectangular beams only)

Part No.	428137
Price	\$839

IMPORTANT: For proper balancing of the arm the spring and pump size must be correct. Call 1-800-221-8278 for ordering information.



Stainless steel breakaway bracket kit with sensor

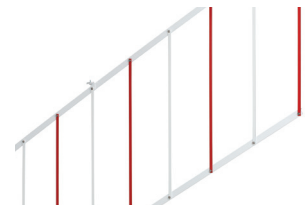
Part No.	428163.5
Price	\$958

IMPORTANT: only use round beam 428176 with this bracket



Replacement sensor for breakaway bracket

Part No.	390828
Price	\$149



Skirted Beam Kits

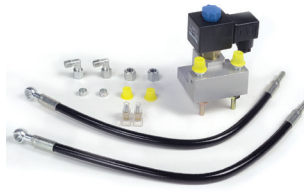
Length	6.5 ft (2m)
Part No.	428441
Price	\$516
Length	10 ft (3m)
Part No.	428446
Price	\$740

IMPORTANT: For proper balancing of the arm the spring and pump size must be correct. Call 1-800-221-8278 for ordering information.



Anti-vandalism valve (*)
It protects the hydraulic system if the beam is forced

Part No.	401066
Price	\$435



Anti-panic unit 230V (*)
For manual opening of the beam in the event of a power failure

Part No.	401051
Price	\$925

Notes

(*) The anti-panic unit and the anti-vandal valve cannot coexist on the same barrier.

S Style Round Beams (stickers not included)

		Actual Length	Spring	Part No.	Price
	8 feet	90.6 in (2300mm)	7210855	428045	\$294
	10 feet	130 in (3300mm)	7210705	428042	\$357
Note Order the barrier that uses the above springs along with the beam					



S STYLE ROUND BEAMS SPECIFIC ACCESSORIES



LED lights connection kit for S round beams

Part No.	390992
Price	\$54



LED Lights Kit 36 ft (11m) for S round beams

Part No.	390993
Price	\$240



Fastening bracket for S round beams

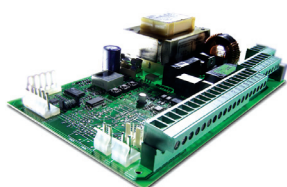
Part No.	428445
Price	\$315



Reflective strip kit

Part No.	490117
Price	\$24

PARTS



Control board 624 BLD

Part No. 115V	20227125
Part No. 220V	63000395
Price	\$819

Automatic barrier

for beams up to 23 ft (7 m)



- The ideal solution for heavy traffic applications
- Hydraulic operator with opening and closing locks
- Electronic slow down and adjustable hydraulic pressure
- Programmable outputs to signal the status of the barrier
- Automatic, semi-automatic, parking logics
- External manual release with triangular key.
- Built-in detector, two independent channels.
- Continuous duty operation
- Automatic fan cooling
- Quiet operation
- UL325 listed



TECHNICAL SPECIFICATIONS 640

Input voltage	115 VAC (+10% -6%) - 230 Vac (+6% -10%)
Power	220W
Current	2A (115V) - 1 A (230V)
Motor rotation speed	1400 - 2800 r.p.m.
Pump flow rate	1 - 1.5 - 2 l/min
Opening time	4 s (with 16 ft beam)
Max Beam length	23 ft (7 m)
Thermal protection on motor winding	248 °F (120 °C)
Electronic deceleration	Adjustable with cams
Operating ambient temperature	-4°F ÷ 131°F (-20°C ÷ +55°C)
Use frequency	Continuous
Weight	185 lb (84 kg)
Barrier body treatment	100 micron epoxy zinc-plating anti-corrosion treatment
Paint	Polyester RAL 2004 (orange vers.)
Protection class	IP 44
Cooling	Forced air
Dimensions (L x D x H)	15 x 7.9 x 42.5 in (380x200x1080mm)
Thrust capacitor	8 µF 400 V

624BLD CONTROL BOARD TECHNICAL SPECIFICATIONS

Motor max. load	300 W
Accessories power supply	24 Vdc
Accessories max. current	500 mA
Operating ambient temperature	-4°F ÷ 131°F (-20°C ÷ +55°C)
Protection fuses	F1=F 5A-250 V F2=T 0,8A-250V
Function logics	11
Work time	Programmable (0 to 4 min)
Pause time	Programmable (0 to 4 min)
Motor thrust	Programmable on 50 levels
Terminal board inputs	Loop 1, Loop 2, Open, Close, Closing safety devices, Stop, Emergency, 230 Vac power supply+Earth
Connector inputs	Opening and closing limit switches, motor capacitor, beam release sensor
Terminal board outputs	Flashing lamp, fan, motor, 24 Vdc power supply, fail-safe, status output, 24 Vdc indicator light

640

Model	Shipping Wt (approx)	Part No.	Price
640 115V	190 lb (86 Kg)	See following table	\$4,444
640 230V	190 lb (86 Kg)	See following table	\$4,444

The packages 640 include: barrier body, hydraulic drive transmission system complete with balancing spring, installation accessories, a triangular release key.
NOTE: Make sure to order the beamkit when ordering the operator.

PART NUMBERS TABLE FOR BARRIER 640

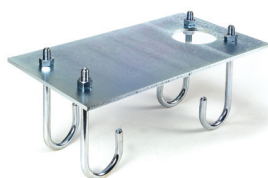
Voltage	Pump Size	Beam	Spring No.	Orientation	Orange Cabinet Part No.	White Cabinet Part No.
230V	2 LT/min	13 feet	7210735	Left	10468282	10468283
				Right	10466082	10466083
	1.5 LT/min	16 feet	7210745	Left	10468382	10468383
				Right	10466182	10466183
	1 LT/min	20 feet	7210755	Left	10468482	10468483
				Right	10466282	10466283
		23 feet	7210805	Left	10468582	10468583
				Right	10466382	10466383
115V	1.5 LT/min	13 feet	7210735	Left	104682821	104682831
				Right	104660821	104660831
		16 feet	7210745	Left	104683821	104683831
				Right	104661821	104661831
	1 LT/min	20 feet	7210755	Left	104684821	104684831
				Right	104662821	104662831
		23 feet	7210805	Left	104685821	104685831
				Right	104663821	104663831

Rectangular Beam Kits

	Actual Length	Shipping Wt (approx)	Part No.	Price
13 feet	157.5 in (4000mm)	22 lb (10 Kg)	428061.5	\$531
16 feet	196.8 in (5000mm)	28 lb (13 Kg)	428062.5	\$592
20 feet	236.2 in (6000mm)	34 lb (15 Kg)	428063.5	\$697
23 feet	275.6 in (7000mm)	40 lb (18 Kg)	428064.5	\$819

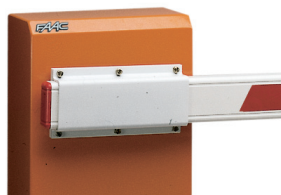
Note:

- The Beam Kits include:
- Rectangular Alluminium Beam
 - Beam Bracket



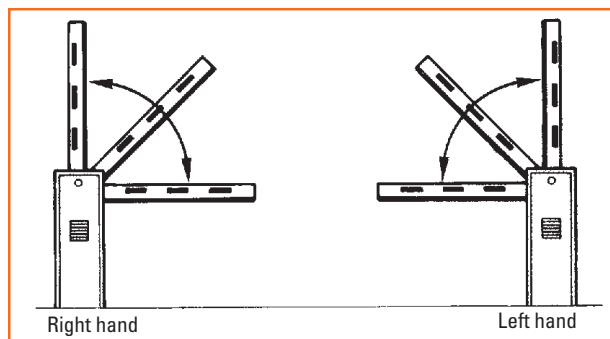
Foundation plate

Part No.	490059
Price	\$294



Beam bracket

Part No.	428154
Price	\$246



You can determine right or left barrier version by looking at the barrier from the door side (see drawing above). The door usually faces the inside of the property.

Rectangular Beams

		Actual Length	Part No.	Price
	13 feet	157.5 in (4000mm)	428061	\$410
	16 feet	196.8 in (5000mm)	428062	\$477
	20 feet	236.2 in (6000mm)	428063	\$567
	23 feet	275.6 in (7000mm)	428064	\$710

ACCESSORIES



Anti-vandalism valve (*)

It protects the hydraulic system if the beam is forced

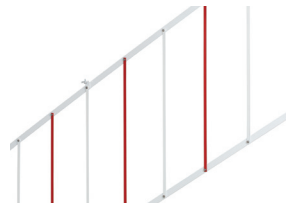
Part No.	401066
Price	\$435



Anti-panic unit 230V (*)

For manual opening of the beam in the event of a power failure

Part No.	401051
Price	\$925



Skirted Beam Kits

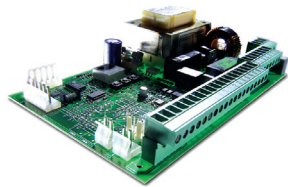
Length	6.5 ft (2m)
Part No.	428441
Price	\$516
Length	10 ft (3m)
Part No.	428446
Price	\$740

Notes

(*) The anti-panic unit and the anti-vandal valve cannot coexist on the same barrier.

IMPORTANT: For proper balancing of the arm the spring and pump size must be correct. Call 1-800-221-8278 for ordering information.

PARTS



Control board 624 BLD

Part No. 115V	20227125
Part No. 220V	63000395
Price	\$819

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FAAC

Bollards

FAAC Traffic bollards - J line

FAAC solutions to control vehicle transit in residential, commercial, industrial and urban areas with limited traffic, as well as for safety applications in perimeter protection.

FAAC solutions represent an elegant and functional alternative to fixed bollards, gates, barriers, chains and similar. The bollard defines pedestrian areas during peak times or permanently, it enables only authorized people (business owners, residents, hotel guests, garage customers, taxi, owners of parking spaces) to enter and/or exit from certain areas, it defines parking places, squares or sidewalks and protects sensitive areas, such as embassies, coastlines, military installations, etc.

Lines	Application	Type	Use	Certificates
J200 line	RESIDENTIAL AREAS	(HA) Automatic	To control vehicle access to residential areas	
		(SA) Semi-Automatic	To control access to areas occasionally open to traffic or difficult to wire	
		(F) Fixed	To complete installations together with other retractable models for access road	
J275 line	COMMERCIAL, INDUSTRIAL AREAS AND URBAN PASSAGES	(HA) Automatic	To control vehicle access to commercial and industrial areas as well as urban passages	
		(SA) Semi-Automatic	To control vehicle access to old town centers, areas difficult to wire or areas occasionally open to traffic	
		(F) Fixed	To complete installations together with other retractable models for access road	
J355 M30-P1 line	CERTIFIED PERIMETER SAFETY	(HA) Automatic	To delimit, protect and control vehicle access to sensitive areas (embassies, military areas, etc.) and sites with special safety requirements	
		(F) Fixed	To protect sensitive areas, fixed installations or together with other retractable models	

Retractable traffic bollard

automatic



- Guaranteed for high frequency use
- Supplied with the main accessories already included
- Extreme care in the selection of materials
- Simple maintenance (just one person is needed)
- Fast and silent movements
- NEW: Built-in hydraulic slow down for softer landing in opening

DIMENSIONS AND TECHNICAL SPECIFICATIONS

Drive	Hydraulic operator	
Cylinder stroke	23.6 in (600 mm)	31.5 in (800 mm)
Cylinder diameter	10.8 in (275 mm)	
Cylinder material, standard version	Fe 360 steel 0.28 in. thick (7mm)	
Standard cylinder surface treatment	Cataphoresis and polyester powder paint RAL 7021 metallic dark grey	
Cylinder material, stainless steel version	AISI 316 satin finished 0.24 in (6mm) thickness	
Cylinder head	Aluminium RAL 9006	
Rise time	Approx. 5 sec	Approx. 7 sec
Descent time (standard)	Approx. 2.8 sec	Approx. 3.5 sec
Descent time (rapid) (*)	Approx. 1 sec	Approx. 1.2 sec
Input voltage	230 VAC +6% - 10%; 50 / 60 Hz	
Power	220 W	
Protection class	IP 67	
Recommended use	Intensive (Traffic)	
Standard reflecting strip	Height 2.2 in (55 mm)	
Manual lowering operation	With hydraulic circuit mechanical release	
Impact resistance	38 KJoules/painted steel - 67 KJoules/stainless steel	
Crash resistance	128 KJoules/painted steel - 207 KJoules/stainless steel	
Total weight (Bollard + Pit)	247 + 121 lb (112+55kg)	287 + 143 lb (130k+ 65kg)
Operating ambient temperature	5°F ÷ 131°F (-15 °C / +55 °C)	
Operating ambient temperature with heater (optional)	-13°F ÷ 131°F (-25 °C / +55 °C)	
Foundation size	22 x 22 x 37 in (560x560x950 mm)	22 x 22 x 48 in (560x560x1.220 mm)
Connection cable	Standard 16+1 conductor cables, minimum section AWG 16 (not supplied)	
Maximum length	164 ft (50 m)	

**When operated by the safety switch*

STANDARD VERSIONS IN PAINTED STEEL

Models	Height	Shipping Wt (approx)	Part No	Price
J275 HA 600	600 mm	400 lb (181 Kg)	116006	\$8,677
J275 HA 800	800 mm	440 lb (200 Kg)	116007	\$9,212

The product features:

- cylinder in steel, thickness 0.28 in (7 mm) cataphoresis treatment and painted
- powder paint dark grey metallised RAL 7021
- flashing light ring with central LED
- acoustic buzzer (active during movement)
- emergency lowering in the event of power outage (can be excluded)

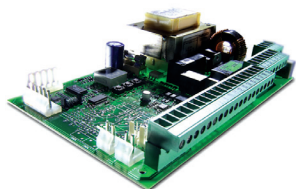
STANDARD VERSIONS IN SATIN FINISH STAINLESS STEEL AISI 316

Models	Height	Shipping Wt (approx)	Part No	Price
J275 HA 600	600 mm	400 lb (181 Kg)	116036	\$10,659
J275 HA 800	800 mm	440 lb (200 Kg)	116037	\$11,516

The product features:

- cylinder in stainless steel thickness 0.24 in (6 mm) satin-finished
- flashing light ring with central LED
- acoustic buzzer (active during movement)
- emergency lowering in the event of power outage (can be excluded)

CONTROL BOARD



JE275 bollard control board

controls up to 4 bollards type J275 HA

Part No	116300
Price	\$665

INSTALLATION ACCESSORIES



JP 275/600 pit for bollard H600
including counterframe

Part No	116100
Price	\$1,178



JP 275/800* pit extension
for bollard H800*

Part No	116101
Price	\$214

OPTIONAL ACCESSORIES



JH275 pit heater for (to extend
operation down to -25°C)

Part No	116200
Price	\$761



JC275 pit cover

Part No	116201
Price	\$321

(*) both parts are needed for the 800 mm version 116100 + 116101.

Retractable traffic bollard

semi-automatic



- Power supply and wiring not required
- Simple and safe movement, thanks to the special release key
- Supplied with the main accessories already included
- Low position lock guaranteed against accidental release
- Extremely simple maintenance

DIMENSIONS AND TECHNICAL SPECIFICATIONS

Drive	Gas actuator
Cylinder stroke	23.6 in (600 mm)
Cylinder diameter	10.8 in (275 mm)
Cylinder material, standard version	Fe 360 steel 0.28 (7mm) thickness
Standard cylinder surface treatment	Cataphoresis and polyester powder painted RAL 7021 metallic dark grey
Cylinder material, stainless steel version	AISI 316 satin finished 0.24 in (6mm) thickness
Cylinder head	Aluminium RAL 9006
Rising	Key release for automatic rising, with gas actuator
Lowering	Key release to lower, with pressure on the top of the cylinder
Standard reflecting strip	Height 2.2 in (55 mm)
Impact resistance	38 KJoules/painted steel - 67 KJoules/stainless steel
Crash resistance	128 KJoules/painted steel - 207 KJoules/stainless steel
Total weight (Bollard + Pit)	154 + 121 lb (70+55kg)
Foundation size	22 x 22 x 37 in (560x560x950 mm)

STANDARD VERSIONS IN PAINTED STEEL

Models	Height	Shipping Wt (approx)	Part No	Price
J275 SA 600	600 mm	280 lb (127 Kg)	116050	\$6,500

The product features:

- cylinder in steel, thickness 0.28 in (7 mm) cataphoresis treatment and painted
- powder paint dark grey metallised RAL 7021
- flashing lights ring with central LED*
- mechanical lock in the up position with special release key (2 keys included)

STANDARD VERSIONS IN SATIN FINISH STAINLESS STEEL AISI 316

Models	Height	Shipping Wt (approx)	Part No	Price
J275 SA 600	600 mm	280 lb (127 Kg)	116060	\$8,100

The product features:

- cylinder in stainless steel thickness 0.24 in (6 mm) satin-finished
- flashing lights ring with central LED*
- mechanical lock in the up position with special release key (2 keys included)

(*) The power supply (24 Vdc) and the cable (2 x AWG 16) for the flashing lamp are not supplied.

INSTALLATION ACCESSORIES



JP 275/600 pit for bollard H600

Part No	116100
Price	\$1,178

OPTIONAL ACCESSORIES



JC275 pit cover

Part No	116201
Price	\$321



Release key kit (5 pcs)

Part No	390084
Price	\$32

Fixed traffic bollard



- Power supply and wiring not required
- Simple installation and limited digging operations
- Aesthetically consistent with other retractable bollards in mixed installation
- Possibility to remove the bollard to temporarily open the pedestrian area to traffic

DIMENSIONS AND TECHNICAL SPECIFICATIONS

	J275 F 600	J275 F 800
Cylinder height	23.6 in (600 mm)	31.5 in (800 mm)
Cylinder diameter	10.8 in (275 mm)	
Cylinder material, standard version	Fe 360 steel 0.16 (4mm) thickness	
Standard cylinder surface treatment	Cathaphoresis and polyester powder painted RAL 7021 metallic dark grey	
Cylinder material, stainless steel version	AISI 316 satin finished 0.12 in (3mm) thickness	
Cylinder head	Aluminium RAL 9006	
Standard reflecting strip	Height 2.2 in (55 mm)	
Crash resistance	35 KJoules/Painted steel - 59 KJoules/stainless steel	
Total weight Bollard	75 lb (34 kg)	84 lb (38 kg)
Foudation size	18 x 18 x 1.2 in (450x450x30 mm)	

STANDARD VERSIONS IN PAINTED STEEL

Models	Height	Shipping Wt (approx)	Part No	Price
J275 F 600	23.6 in (600 mm)	80 lb (36 Kg)	116020	\$1,700
J275 F 800	31.5 in (800 mm)	89 lb (40 Kg)	116021	\$1,800

The product features:

- cylinder in stainless steel, thickness 0.16 in (4 mm) cataphoresis treatment and painted
- powder paint dark grey metallised RAL 7021
- flashing lights ring with central LED*

SPECIAL VERSIONS IN SATIN FINISH STAINLESS STEEL AISI 316

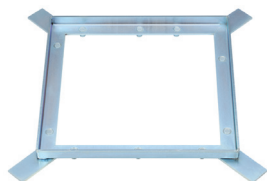
Models	Height	Shipping Wt (approx)	Part No	Price
J275 F 600	23.6 in (600 mm)	80 lb (36 Kg)	116040	\$2,600
J275 F 800	31.5 in (800 mm)	89 lb (40 Kg)	116041	\$2,850

The product features:

- cylinder in stainless steel thickness 0.12 in (3 mm) satin-finished
- flashing lights ring with central LED*

(*) The power supply (24 Vdc) and the cable (2 x AWG 16) for the LED lights are not supplied.

INSTALLATION ACCESSORIES



Fixed bollard mounting frame
JPF275

Part No	116120
Price	\$350

OPTIONAL ACCESSORIES



JC275 pit cover

Part No	116201
Price	\$321

J355 M30-P1 HA

Retractable security bollard

automatic



The AUTOMATIC bollard FAAC J355HA-M30-P1 is designed and tested for the protection of sensitive areas such as airports, embassies, consulates, banks, ports, etc.

The bollard FAAC J355HA-M30-P1 has been tested according to: "ASTM F 2656-07 - Standard Test Method for Vehicle Crash Testing of Perimeter Barriers", obtaining certification for the highest class of penetration possible. Classification M30-P1 indicates that the bollard FAAC J355 is able to stop a 15,000 lb (6,800 kg) truck travelling at 30 mile/h (50 km/h) with just 39 in (1 meter) of total penetration (P1).



- CERTIFIED according to Standard ASTM F 2656-07 M30
- Supplied with the main accessories already included
- Lock in the up position guaranteed even in the event of a power outage
- Extreme care in the selection of materials
- Also available in the EFO (Emergency Fast Operation) version for very fast rise time

DIMENSIONS AND TECHNICAL SPECIFICATIONS

Drive	Hydraulic operator
Cylinder stroke	39.4 in (1.000mm)
Cylinder diameter	14 in (355 mm)
Cylinder material	Steel S355JR EN10210 0.63 in (16mm) thickness
Cylinder surface treatment	Cataphoresis and polyester powder painted RAL 7021 metallic dark grey
Sleeve material, stainless steel version	AISI 316 satin finished
Cylinder head	Aluminium RAL 9006
Rise time	Standard version - approx. 6 sec / EFO version - approx. 1.5 sec
Descent time (standard)	Approx. 2 sec
Input voltage	230 Vac +6% - 10%; 50 / 60 Hz
Power	1,200W
Maximum force	1,124 lbf (5,000 N)
Junction box protection rating	IP 67
Recommended use	Security areas
Reflecting strip height	2.2 in (55 mm)
Impact resistance	150 Kjoules
Crash resistance	656 KJoules (according to the ASTM standards F2656-07 - M30)
Classe di carico	C25 (25t)
Total weight (Bollard + Pit)	1,080 + 550 lb (490+250 kg)
Operating ambient temperature	5°F ÷ 131°F (-15 °C / +55 °C)
Operating ambient temperature with heater (optional)	-13°F ÷ 131°F (-25 °C / +55 °C)
Connection cable	Standard 16+1 conductor cables, minimum AWG16 (not supplied)
Max. length	164 ft (50 m)

STANDARD VERSIONS IN PAINTED STEEL

Models	Height	Shipping Wt (approx)	Part No	Price
J355 HA M30-P1	39.4 in (1,000 mm)	1,200 lb (550 Kg)	116004	\$22,500
J355 HA M30-P1 EFO			116005	\$25,500
J355 HA PIT		440 lb (200 Kg)	116110	\$5,300

The product features:

- steel cylinder, thickness 0.63 in (16 mm) with cataphoresis treatment and painted
- powder paint dark grey metallised RAL 7021
- flashing lights ring with central LED
- hydraulic lock in the up position (in the event of a power outage)
- watertight galvanized steel pit sheet with built-in drainage connection
- emergency circuit for a fast rise time (EFO version only)

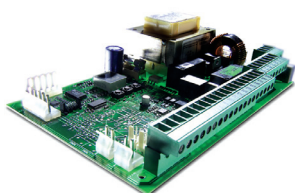
STANDARD VERSIONS IN SATIN FINISH STAINLESS STEEL AISI 316

Models	Height	Shipping Wt (approx)	Part No	Price
J355 HA M30-P1	39.4 in (1,000 mm)	1,200 lb (550 Kg)	116034	\$24,350
J355 HA M30-P1 EFO			116035	\$27,800
J355 HA PIT		440 lb (200 Kg)	116110	\$5,300

The product features:

- steel cylinder, thickness 0.63 in (16 mm) with cataphoresis treatment and «sleeve» in stainless steel satin-finished
- flashing lights ring with central LED
- hydraulic lock in the up position (in the event of a power outage)
- watertight galvanized steel pit sheet with built-in drainage connection
- emergency circuit for a fast rise time (EFO version only)

CONTROL BOARD



JE275 bollard control board
controls 1 J355 M30-P1 bollard

Part No	116300
Price	\$665

INSTALLATION ACCESSORIES



Pit heater for J355

Part No	116202
Price	\$950



J355 Manual release kit

Part No	116102
Price	\$142

J355 M30-P1 F

Fixed security bollard



FAAC J355F M30-P1 traffic bollard has successfully passed the ASTM F 2656-07 simulation testing. FAAC J355 traffic bollard is therefore suitable for the permanent protection of sensitive areas perimeters, alone or in combination with retractable (HA) models.



DIMENSIONS AND TECHNICAL SPECIFICATIONS

	J355 F	J355 F Stainless Steel
Height of cylinder from ground	39.4 in (1.000mm)	39.4 in (1.000mm)
Cylinder diameter	14 in (355 mm)	14 in (355 mm)
Type of cylinder material	Steel S355JR EN 10210 0.63 in (16mm) thick	Steel S355JR EN 10210 0.63 in (16mm) thick
Type of cylinder treatment	Cataphoresis and polyester powder paint, dark grey metallised RAL 7021	Satin finish
Type of head material	Aluminium RAL 9006	Aluminium RAL 9006
Reflecting strip height	2.2 in (55 mm)	2.2 in (55 mm)
Standard reflecting strip colour	White	White
Break-in resistance	656.000 J	656.000 J
Overall weight	1437 lb (652 Kg)	1444 lb (655 Kg)

STANDARD VERSIONS IN PAINTED STEEL

Models	Height	Shipping Wt (approx)	Part No	Price
J355 F M30-P1	39.4 in (1,000 mm)	1,200 lb (550 Kg)	116022	\$9,400

The product features:

- cylinder in stainless steel, thickness 0.63 in (16 mm) cataphoresis treatment and painted
- powder painted dark grey metallised RAL 7021
- flashing lights ring with central LED
- underground modular structure

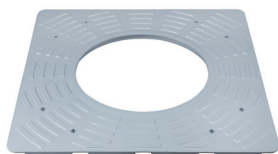
STANDARD VERSIONS IN SATIN FINISH STAINLESS STEEL AISI 316L

Models	Height	Shipping Wt (approx)	Part No	Price
J355 F M30-P1	39.4 in (1,000 mm)	1,200 lb (550 Kg)	116042	\$10,800

The product features:

- steel cylinder, 0.63 in (16 mm) thick, with cataphoresis treatment and «sleeve» in stainless steel satin-finished
- flashing lights ring with central LED
- underground modular structure

INSTALLATION ACCESSORIES



Pit for J355 F

Part No.	63000324
Price	\$950

Retractable bollard for traffic control in residential areas

automatic



- Easy to transport, store and install, thanks to the self-supporting structure - pit not required - and to its limited weight
- A streamlined product, configurable by selecting the desired installation accessories
- Simplified maintenance (just one person is needed)
- Fast and silent movement

DIMENSIONS AND TECHNICAL SPECIFICATIONS

Drive	Hydraulic operator
Cylinder stroke	23.6 in (600 mm)
Cylinder diameter	7.9 in (200 mm)
Cylinder material, standard version	Fe 360 steel 0.24 in (6mm) thickness
Standard cylinder surface treatment	Cataphoresis and polyester powder painted RAL 7021 metallic dark grey
Cylinder material, stainless steel version	AISI 316 satin finished 0.24 in (6mm) thickness
Cylinder head	Aluminium RAL 9006
Rise time	Approx. 5 sec
Descent time	Approx. 7 sec
Input voltage	230 Vac +6% - 10%; 50 / 60 Hz
Power	230 W
Protection class	IP 67
Recommended use	Use in residential applications
Reflecting strip height	1 in (25 mm)
Manual lowering operation	With hydraulic circuit mechanical release
Total weight	198 lb (90 kg)
Operating ambient temperature	5°F ÷ 131°F (-15 °C / +55 °C)
Operating ambient temperature with heater (optional)	-13°F ÷ 131°F (-25 °C / +55 °C)
Overall dimensions	16 x 20 x 32 in (400x500x800 mm)
Connection cable	Standard 16+1 conductor cables, minimum AWG 16 (not supplied)
Max. length	164 ft (50 m)

STANDARD VERSIONS IN PAINTED STEEL

Models	Height	Shipping Wt (approx)	Part No	price
J200 HA 600	23.6 in (600 mm)	205 lb (93 Kg)	116500	\$6,740

The product features:

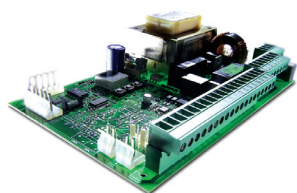
- steel cylinder, thickness 0.24 in (6 mm) cataphoresis treatment and painted
- powder paint dark grey metallised RAL 7021
- hydraulic lock in the up position (in the event of power a power outage) with special release key
- support structure to be cemented, cataphoresis treatment (pit not required)

STANDARD VERSIONS IN SATIN FINISH STAINLESS STEEL AISI 316

Models	Height	Shipping Wt (approx)	Part No	price
J200 HA 600	23.6 in (600 mm)	205 lb (93 Kg)	116505	\$8,320

The product features:

- cylinder in stainless steel thickness 0.24 in (6 mm) satin-finished
- hydraulic lock in the up position (in the event of power a power outage) with special release key
- supporting structure to be cemented, cataphoresis treatment (pit not required)

CONTROL BOARD**JE275 bollard control board**

controls up to 4 bollards, type J200 HA

Part No	116300
Price	\$665

OPTIONAL ACCESSORIES**Pit heater for J200HA**

Part No	116501
Price	\$761

**Release kit with pressure switch for J200HA**

Part No	116502
Price	\$690

**Acoustic buzzer for J200HA**

Part No	116503
Price	\$64

**LED lights kit for J200HA**

Part No	116504
Price	\$171

Retractable bollard for traffic control in residential areas

semi-automatic



1. Power supply and wiring not required
2. Simple and safe movement, with easy to use unlocking key
3. A streamlined product, configurable by selecting the desired installation accessories
4. Easy to transport, store and install, thanks to the limited weight of the product
5. Low position lock guaranteed against accidental release
6. Simplified maintenance (just one person is needed)

DIMENSIONS AND TECHNICAL SPECIFICATIONS

Model	J200SA H600	J200 SA H600 INOX
Type of operator	Single-acting gas actuator	Single-acting gas actuator
Height of cylinder from ground [mm]	23.6 in (600 mm)	23.6 in (600 mm)
Cylinder diameter [mm]	7.9 in (200 mm)	7.9 in (200 mm)
Cylinder material type	Steel S235JRG2 EN 10277 0.24 in (6mm) thick	Steel 316L satin finish 0.24 in (6mm) thick
Cylinder treatment type	Cataphoresis and polyester powder paint, dark grey metallised RAL 7021	Satin finish
Head material type	Aluminium RAL 9006	Aluminium RAL 9006
Release device	Key operated (supplied)	Key operated (supplied)
Reflecting strip height	1 in (25 mm)	1 in (25 mm)
Standard reflecting strip colour	Orange	Orange
Overall Weight	181 lb (82 kg)	181 lb (82 kg)
Dimensions WxDxH	16 x 20 x 32 in (400x500x800 mm)	16 x 20 x 32 in (400x500x800 mm)

STANDARD VERSIONS IN PAINTED STEEL

Models	Height	Shipping Wt (approx)	Part No	Price
J200 SA 600	23.6 in (600 mm)	205 lb (93 Kg)	116508	\$4,900

The product features:

- cylinder in stainless steel, thickness 5 mm cataphoresis treatment and painted
- powder painted dark grey metallised RAL 7021
- supporting structure to cement, cataphoresis treatment (pit not required)

STANDARD VERSIONS IN SATIN FINISH STAINLESS STEEL AISI 316L

Models	Height	Shipping Wt (approx)	Part No	Price
J200 SA 600	23.6 in (600 mm)	205 lb (93 Kg)	116509	\$6,700

The product features:

- cylinder in stainless steel thickness 5 mm satin-finished
- hydraulic lock in raised position (in the event of power failure) with special release key
- supporting structure to cement, cataphoresis treatment (pit not required)

OPTIONAL ACCESSORIES



LED lights kit for J200HA

Part No	116504
Price	\$171



Release key kit (5 units)

Part No	390084
Price	\$32

Fixed bollard for traffic control in residential areas



- Power supply and wiring not required
- Simple installation and limited digging operations
- Aesthetically consistent with other retractable bollards in mixed installations
- Easy to transport, store and install, thanks to the limited weight of the product

DIMENSIONS AND TECHNICAL SPECIFICATIONS

Cylinder height	23.6 in (600 mm)
Cylinder diameter	7.9 in (200 mm)
Cylinder material, standard version	Fe 360 steel 0.24 in (6mm) thickness
Standard cylinder surface treatment	Cataphoresis and polyester powder painted RAL 7021 metallic dark grey
Cylinder material, stainless steel version	AISI 316 satin finished 0.24 in (6mm) thickness
Cylinder head	Aluminium RAL 9006
Standard reflecting strip	Height 1 in (25 mm)

STANDARD VERSIONS IN PAINTED STEEL

Models	Height	Shipping Wt (approx)	Part No	price
J200 F 600	23.6 in (600 mm)		116506	\$1,985

The product features:

- steel cylinder, thickness 0.24 in (6 mm) cataphoresis treatment and painted
- powder paint dark grey metallised RAL 7021
- supporting structure to be cemented, cataphoresis treatment (pit not required)

STANDARD VERSIONS IN SATIN FINISH STAINLESS STEEL AISI 316

Models	Height	Shipping Wt (approx)	Part No	price
J200 F 600	23.6 in (600 mm)		116507	\$3,040

The product features:

- cylinder in stainless steel thickness 0.24 in (6 mm) satin-finished
- supporting structure to be cemented, cataphoresis treatment (pit not required)

OPTIONAL ACCESSORIES**LED lights kit for J200HA**

Part No	116504
Price	\$171

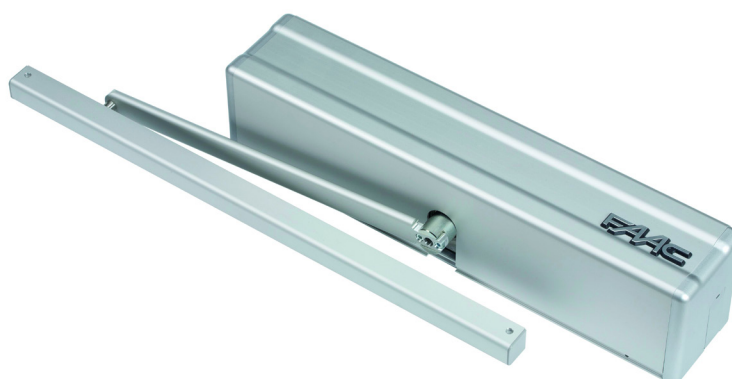
The FAAC logo is rendered in a white, bold, sans-serif typeface. The letters 'F' and 'A' are connected, as are the 'A' and 'C'. A thin white horizontal line is positioned directly beneath the logo.

FAAC

Pedestrian Door Operator

Automatic swing door operator

- Electro-mechanical automated system with 24 VDC motor and return spring
- Anodized aluminium housing
- Integrated microprocessor control unit with self-diagnosis and continuous verification of all the door functions
- Can be installed on the lintel or directly on the door, outward or inward opening
- Reverses on obstacle detection for safe operations
- Operating logic selector integrated
- Integrated function selector for the logics: AUTOMATIC-MANUAL-OPEN
- Self learning of opened, closed position and door weight
- Selectable closing thrust to guarantee door closure even in a strong wind
- Selectable "PUSH & GO" function
- Manual operation in case of power outage and closing with spring
- Extended functions using the optional KP-CONTROLLER



TECHNICAL SPECIFICATIONS

Input voltage	115 VAC (+10% -6%)
Power	100 W
Current	1 A
Motor voltage	24 VDC with encoder
Accessory power supply	24 VDC / 500 mA
Electrical lock power supply	24 VDC / 500 mA (NO / NC)
Opening angle	100 ° to 125 °
Opening speed	4 to 10 s (adjustable)
Closing speed	4 to 10 s (adjustable)
Use frequency	continuous
Operating ambient temperature	-4°F ÷ 131°F (-20°C ÷ +55°C)
Operator weight	22 lb (10 Kg)
Dimensions (L x D x H)	20.8 x 4.1 x 6.3 in (530x105x160mm)
Protection class	IP 23 (indoor use only)

Leaf length (in)	Max leaf weight (lb) Articulated arm	Max leaf weight (lb) Sliding arm
34	550	430
36	490	380
38	440	340
40	400	310
42	360	280
44	330	260

Leaf length (in)	Max leaf weight (lb) Articulated arm	Max leaf weight (lb) Sliding arm
46	300	240
48	275	215
50	255	200
52	240	185
54	220	170
56	205	160

950 BM

Model	Shipping Wt (approx)	Part No	Price
950 BM	26.5 lb (12 Kg)	1054481	\$1,655
Articulated (pushing) arm		390039	\$199
Sliding (pulling) arm		390040	\$199
Operator shaft extension 2 in (50mm)		390042	\$54
Operator shaft extension 3.15 in (80 mm)		390043	\$75

The 950 BM package includes: the electro-mechanical operator with control unit, function selector and aluminium housing

KP-CONTROLLER PROGRAMMING UNIT

- The KP-CONTROLLER is equipped with pushbuttons to access the programming and LEDs to display diagnostic
- Available programs: Manual, Automatic, Night, Open, One-Way, Partial Opening
- Door alarm diagnostic through a combination of flashing LEDs
- Reset function
- The operation can be disabled by a jumper or combination of keys
- Can receive the optional programming display



Model	Part No	Price
KP-CONTROLLER	790840	\$298

KP-CONTROLLER PROGRAMMING DISPLAY

Main Functions:

- An access password can be selected
- Timer function with backup battery (5 years lifetime)
- Weekly calendar management
- Up to 5 daily time slots
- Interlock with or without memory
- Emergency command (opening/closing)
- Diagnostic display (version, number of cycles, etc.)



Model	Part No	Price
KP-CONTROLLER DISPLAY	790829	\$141

Note:
The KP-Controller and Display are needed for Master-Slave (2 door leaves) programming

The FAAC logo is rendered in a white, bold, sans-serif typeface. The letters 'F' and 'A' are connected, as are the 'A' and 'C'. A thin white horizontal line is positioned directly beneath the logo.

FAAC

Accessories

Transmitters and Receivers

433 MHz RC

	Decoding	Description	Part No.	Price
	RC	XT4 433 RC Transmitter 4 channels	787453	\$23
		Rolling code: the code varies whenever the transmitter is used. An algorithm recognizes and confirms the signal. Dimensions: 2 x 2.5 x 0.5 in (50 x 64 x 13 mm)		

Plug in Receiver: can be plugged in directly to any FAAC electronic control board. Rolling code technology

	Decoding	Description	Part No.	Price
	RC	RP1 433_RC - receiver 1-channel	787741	\$42
		RP2 433_RC - receiver 2 channel	787742	\$79
		RP Interface Board (for non-FAAC products)	787725	\$64

External Receiver: Receiver and interface in a outdoor use enclosure. Relay output for connection to any type of controller. Rolling code technology

	Decoding	Description	Part No.	Price
	RC	XR2 433 2-channel external receiver 433 MHz	787747	\$57

	Description	Part No.	Price
	Antenna RP / XR2 receiver with bracket and coaxial cable - length 16 ft (5 m) - 433 MHz to increase the range of the RP receivers / XF / XR	412003	\$88

418 MHz Dip Switch

	Decoding	Description	Part No.	Price
	DS	Dip Switch Transmitter 1 channel	1TM418DS	\$45
		Dip Switch Transmitter 2 channels	787317	\$53

Plug in Receiver: can be plugged in directly to any FAAC electronic control board.

	Decoding	Description	Part No.	Price
	DS	Dip switch receiver 1 channel	1RP418DS	\$79

Photocells

FLUSH MOUNTED PHOTOCELLS

Model	Specifications	Part No.	Price
FOTOSWITCH	Installation: embedded or on column Current draw: 90 mA Protection class IP44 Directional photocell with alignment Obstacle detection time: 7 ms Rated range: 100 ft (30 m) Contacts type: N.O. / N.C. Contacts max capacity: 100 mA / 24 Vdc Operating ambient temperature -4°F ÷ 131°F (-20°C ÷ +55°C)	785152	\$299



WALL MOUNTED PHOTOCELL

Model	Specifications	Part No.	Price
PHOTOBEAM	Installation: on wall or on column Current draw: 50 mA Protection class IP54 Directional photocell with alignment Obstacle detection time: 20 ms Detection angle +/- 4° Rated range: 100 ft (30 m) Contacts type: N.O. / N.C. Contacts max capacity: 100 mA / 24 Vdc Operating ambient temperature: -4°F ÷ 131°F (-20°C ÷ +55°C)	785163	\$244



MOUNTING POSTS

	Part No.	Price
Standard post 22 in (575 mm) high, anodized aluminium, including foundation plate	401028/737630.5	\$123
Double post 44 in (1115 mm) high, anodized aluminium, including foundation plate. Holds photobeam and control switch.	401035/737630.5	\$198



Note: Photocells sets require 2 posts

Loops and Loop Detectors

SAW-CUT LOOPS

Saw Cut Loops with Twisted Pair Lead-in 18 AWG, XLP insulation

Size	Twisted Pair Lead-in	Shipping Wt.	Part No.	Price
2 ft x 6 ft (0.6 m x 1.8 m)	30 ft (9.1 m)	4 lb (1.8 kg)	2590	\$143
4 ft x 6 ft (1.2 m x 1.8 m)	30 ft (9.1 m)	4 lb (1.8 kg)	2591	\$183
	50 ft (15 m)	5 lb (2.3 kg)	2562	\$206
4 ft x 8 ft (1.2 m x 2.4 m)	30 ft (9.1 m)	4 lb (1.8 kg)	2567	\$203
	50 ft (15 m)	5 lb (2.3 kg)	2566	\$226
4 ft x 10 ft (1.2 m x 3.0 m)	30 ft (9.1 m)	4 lb (1.8 kg)	2592	\$222
6 ft x 12 ft (1.8 m x 3.7 m)	30 ft (9.1 m)	4 lb (1.8 kg)	2569	\$261

Loop Sealant for Saw Cut Loops 30 fl. oz. (0.9 L) caulking cartridge

Sealant Type	Shipping Wt.	Part No.	Price
Grey	3 lb (1.4 kg)	2166	\$96
Black	3 lb (1.4 kg)	2180	\$96

Linear Feet of Coverage for One Cartridge					Linear Meters of Coverage for One Cartridge				
Saw Cut Depth in Inches	Saw Cut Width in Inches				Saw Cut Depth in cm	Saw Cut Width in cm			
	.13	.2	.25	.5		0.3	0.5	0.6	1.3
1	36 ft	24 ft	18 ft	9 ft	2.5	11 m	7.3 m	5.5 m	2.7 m
1.5	24 ft	18 ft	12 ft	6 ft	3.8	7.3 m	5.5 m	3.7 m	1.8 m
2	18 ft	12 ft	9 ft	4.5 ft	5.1	5.5 m	3.7 m	2.7 m	1.4 m

Note: the thickness of the loop wire is .13 in. (0.32 cm). The wire's height ranges from .55 in. (1.4 cm) to .34 in. (0.86 cm).

PAVE-OVER LOOPS

0.5 in. (1.24 cm) Flexible Conduit Pave-Over Style Loops with Twisted Pair Lead-in

Size	Twisted Pair Lead-in	Shipping Weight	Part No.	Price
2 ft x 6 ft (0.6 m x 1.8 m)	30 ft (9.1 m)	4 lb (1.8 kg)	2593	\$200
	50 ft (15 m)	5 lb (2.3 kg)	2561	\$220
4 ft x 6 ft (1.2 m x 1.8 m)	30 ft (9.1 m)	4 lb (1.8 kg)	2594	\$220
	50 ft (15 m)	5 lb (2.3 kg)	2560	\$242
4 ft x 8 ft (1.2 m x 2.4 m)	30 ft (9.1 m)	4 lb (1.8 kg)	2595	\$232
	50 ft (15 m)	5 lb (2.3 kg)	2559	\$252
4 ft x 10 ft (1.2 m x 3.0 m)	30 ft (9.1 m)	4 lb (1.8 kg)	2596	\$246
	50 ft (15 m)	5 lb (2.3 kg)	2558	\$268
6 ft x 12 ft (1.8 m x 3.7 m)	30 ft (9.1 m)	4 lb (1.8 kg)	2597	\$282
	50 ft (15 m)	5 lb (2.3 kg)	2557	\$303

LOOP DETECTORS

Model	Specifications	Part No.	Price
FAAC FG1-U 	Power supply 10-30 V AC/DC max 1 W Relay outputs max 2A 230 VAC 11 pins circular connector Automatic adjustment of the operating frequency for best performance Self setting at power-up Loop fault signal Operating ambient temperature -35°F to +158°F (-37°C to +70°C)	2680	\$128
DSP-15 	Works on in-ground inductive loops from 20 to 2000 uH Easily changed to fail safe or fail secure mode in the field. Power interruptions of short duration are ignored. Protected from damage if plugged into a higher voltage. Separate Power/Fail and Detect LEDs.	2664	\$233
DSP-7LP 	Designed for low power applications Small profile, making it perfect for most installations Automatically compensates for loop and lead-in sizes Switchless, self adapting to most common installations Fail Safe Operation Wide low-voltage operation	2659	\$234
DSP-11 	Works on any in-ground inductive loop from 20 to 2000 uH Automatically compensates for loop and lead-in sizes Switchless, self-adapting to most common installations Small profile, perfect for many installations Fail safe operation Industry standard 11-pin connector in a small plastic case	2665	\$139
DSP-10 	Works on any in-ground inductive loop from 20 to 2000 uH Easily changed to fail safe or fail secure mode in the field. Advanced filtering technology for superior noise tolerance. Separate Power/Fail and Detect LEDs. Compact size with industry standard 11-pin connector	2667	\$152
PLD-1500 	7 segment LED for visual feedback Sensitivity and frequency meters 10 levels of sensitivity Built in diagnostics Autotuning Wide loop induction range: 20 to 2500 uH	PLD1500	\$177

Note: A rule of thumb for determining the height of a loop's inductive field is: the height of the inductive field is 2/3 the length of the loop's shortest side.

Safety Edges

PLUG AND PLAY SAFETY EDGE

XS 55



Easy assembly thanks to an innovative solution with quick insertion terminal and butyl resin sealant

Rubber profile height 55 mm
Alluminium support profile
Protection rating IP 65
Operating ambient temperature
-20°C to +55°C

The only conductive rubber edge Plug and Play on the market
Create your safety edge in just a few minutes, following 4 simple steps:



Does not require any type of glue or long waiting times

		Part No.	Price
	XS 55 Kit includes: 1 rubber profile 8.2 ft (2.5 m) 1 terminal with 8.2K resistor 1 terminal with cable 1 aluminium profile 8.2 ft (2.5 m)	105688	\$415
	CN 60 E Control unit	785200	\$205



XS 55 Sensing edge 82 ft (25m)

Part no.	428096
Price	\$1,950



Terminal with XSP R8.2 resistor

Part no.	428097
Price	\$45



Terminal with XSP C0.5 cable

Part no.	428098
Price	\$50

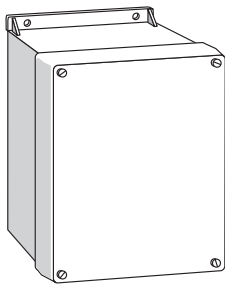
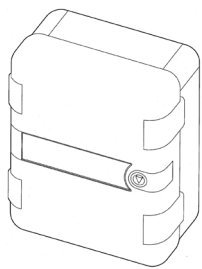


Aluminium profile 8.2 ft (2.5m)

Part no.	105687
Price	\$50

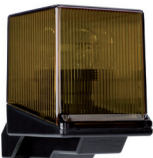
Enclosures

ENCLOSURES

Model		Description	Part No.	Price
	Model FRP (Fiber Reinforced Plastic)	Strong, high quality construction Rubberized gasket door seal Includes metal mounting plate with grounding lug Dimensions WxHxD: 10 x 12 x 5.5 in (254x305x14 mm) Weight: 6 lb (2.7 Kg) UL and CSA Listed	2359	\$252
	Model L (Latching)	Keyed latch on hinged door Rubberized gasket door seal Door can open to right or left Will accept DIN rail Molded standoffs for control panel mounting Three 1.13 in. (30 mm) pre-drilled holes (with plugs) in box bottom Dimensions WxHxD: 8.4 x 10.6 x 4.6 in (213x270x118 mm) Weight: 5 lb (2.3 Kg)	720118	\$75
	Model FG 14 x 16	Fiber Reinforced Enclosure Hinged lockable Strong, highest quality construction Rubberized gasket door seal Weather resistant Dimensions WxHxD: 14 x 16 x 6 in (355 x 406 x 152 mm) Weight: 8 lb (3.6 Kg) UL and CSA Listed	3312	\$394

Warning lights

FAAC LIGHT

	Specifications	Model	Part No.	Price
	Connects to high voltage control boards Light flashes while gate opens and closes Protection class IP 55 Dimensions 4 x 5.5 x 5 in (100x142x130 mm)	FAACLIGHT 230 VAC / 60W	410013	\$76
		FAACLIGHT 115 VAC / 60 W	410013.5	\$76
		Replacement Bulb 230 VAC	2128	\$19
		Replacement Bulb 115 VAC	2132	\$19

Entry Systems

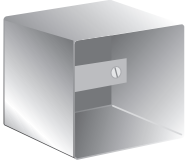
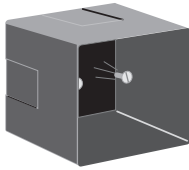
DIGITAL INPUT KEYPAD

	Model	Specifications	Part No.	Price
	DIGIKEY	Installation: embedded or on column Power supply 24 Vdc Anti-tampering electronic protection Indicator-light and buzzer confirming activation Reset push-button Protection class IP 55	404005	\$425

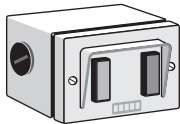
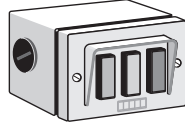
DS DECODER FOR DIGIKEY

Description	Part No.	Price
Decoding card ("relay" output) driving FAAC electronic control units and/or auxiliary commands Power supply 12 - 24 Vdc/12 - 24 Vac 12-bit binary code (4,096 combinations) Max distance of Metal Digikey/Decoder: 100 m Operating ambient temperature -20°C to +55°C	785502	\$133

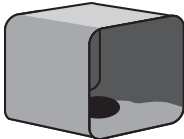
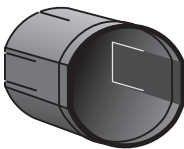
HOUSING

Model		Part No.	Price
	Metal Housing for Digikey Dimensions (HxWxD): 2.75 x 2.75 x 2.25 in (70x70x57 mm)	720037	\$44
	Plastic Housing for Digikey Dimensions (HxWxD): 2.75 x 2.75 x 2.25 in (70x70x57 mm)	720043	\$15

KEY-OPERATED PUSH-BUTTONS

Model	Specifications	Part No.	Price
T10 	Key returns when released N.O. and N.C. connections Switch rating 0.1 A / 24 V dc Protection class: IP 54 Requires separate housing, metal or plastic Operating ambient temperature: -20 °C to +55 °C	401010036	\$108
T10 E 	Brushed aluminium look N.O. and N.C. connections Switch rating 0,1 A / 24 Vdc Protection class IP 54 Operating ambient temperature -20°C to +55°C	401019036	\$112
	Two-Button Switch Actuate button is N.O. Stop Button is N.C. Switch rating 10 A / 250 VAC Dimensions: 4 in. wide x 2.87 in. high x 2.25 in. deep (102 x 73 x 57 mm)	2512	\$99
	Three-Button Switch Open button is N.O. Close button is N.O. Stop Button is N.C. Switch rating 10 A / 250 VAC Dimensions: 4 in. wide x 2.87 in. high x 2.25 in. deep (102 x 73 x 57 mm)	2510	\$133

HOUSING

Model		Part No.	Price
	Metal Housing T10 Key Switch Dimensions (HxWxD): 2.5 x 2.5 x 2.75 in (64x64x70 mm)	720089	\$44
	Plastic Housing T10 Key Switch Dimensions (HxWxD): 2.5 x 2.5 x 2.75 in (64x64x70 mm)	720086	\$15

Accessories

Entry Systems

ENTRY SYSTEMS

Model		Description	Part No.	Price
	Advantage DK Digital Keypad	Programmable four digit codes available: 1000 Programmable Personal Master Code Programmable Latch / Unlatch Code Programmable Sleep Code Three strikes – you're out External Event Input Two relays w/ variable output time: 1– 99 seconds LED indicators Audible tone Non-volatile memory Dimensions: 5.25 x 4.75 x 4.5 in (146x121x114 mm) Shipping Weight 5 lb (2.3 Kg)	2916	\$608
	Select Gate SG2C Telephone Entry	Works on the existing phone line. DSL filtering built-in. 100 PIN Codes, 9 Programmable Time Zones. 26 Bit Wiegand input Large Event Log Buffer (approx. 800). Calls 10 additional numbers. Call Forward capability. Long life white LED lighting. Local call waiting and transfer Programmable by keypad or touch tone phone. Latch the gate (entrance) open from the keypad or remotely with a phone Dimensions: 9.5 x 7 x 4.3 in (240x180x110 mm) Shipping Weight 8 lb (3.6 Kg)	3070	Call for Price

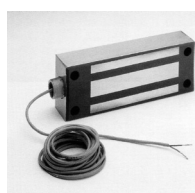
Miscellaneous

ELECTRIC LOCKS

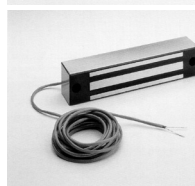


Description	Part No.	Price
12 Vac electric lock single cylinder with strike plate and 2 keys	712650/712651.5	\$229
12 Vac electric lock double cylinder with strike plate and 2 keys	712650/712652.5	\$255

ELECTROMAGNETIC LOCKS



Description	Part No.	Price
Securitron M62-GF 24 VDC, 1200 lb (540 Kg) holding force Dimensions: 8 x 1.75 x 2.9 in (203 mm x 44 mm x 74 cm) Weight 14 lb (6.4 Kg)	2353	\$860
Z bracket	2690	\$220



Securitron M32F-24 24 VDC, 600 lb (270 Kg) holding force Dimensions: 8 x 1.5 x 1.88 in (203 mm x 38 mm x 48 cm) Weight 12 lb (5.4 Kg)	2354	\$619
Z bracket	3150	\$211
12 VAC external relay (necessary with 455D control board)	2352	\$49

TIMER



Description	Part No.	Price
Frontier TM-619-2 Digital Electronic timer switch with daily and weekly programs 8 or 16 events per day, 7 day programming blocks Power supply 24V DC or AC - 3W Contact Rating: 16A resistive - 8A Inductive - 250V Timing Resolution: 1 minute Accuracy $\pm$ 1 second / day at 68°F (20°C)	FT12	\$350

SURGE PROTECTORS



Description	Voltage	Part No.	Price
Surge protection device for AC circuits Protector type: SPD Type 2 Protection modes: L-G, L-N, N-G Response time < 1ns Self restoring Dimensions: 2.9 x 2.8 x 1.7 in (74x72x43mm) Weight 0.5 lb (227g)	120V	2355	\$158
	240V	2356	\$162

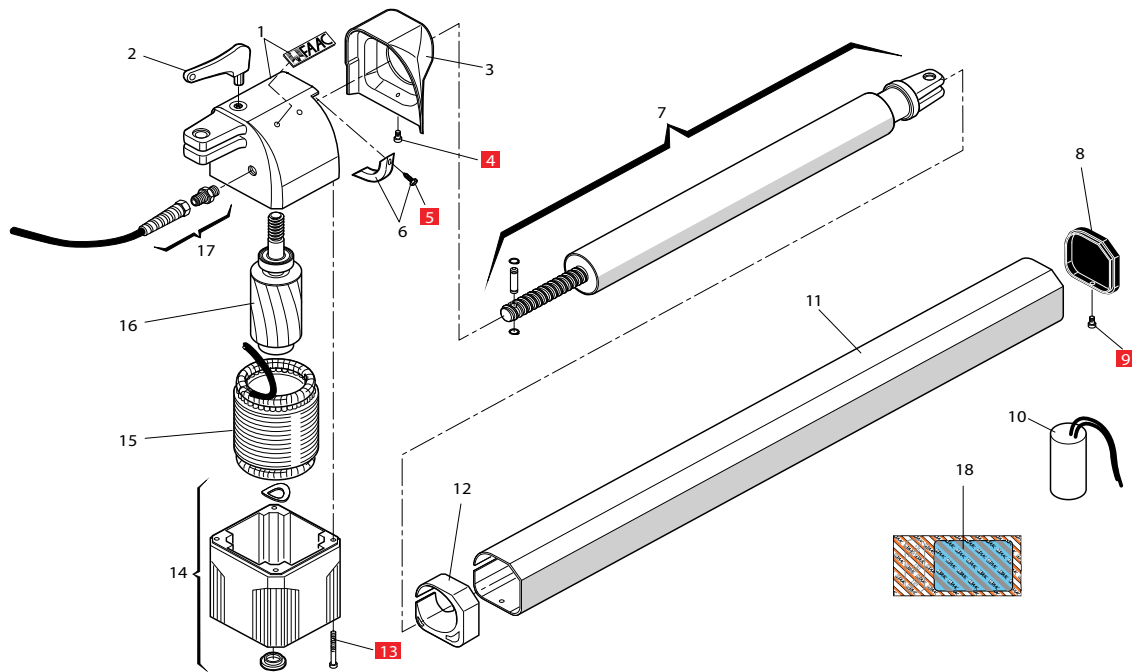


Surge protection device for up to 4 Low Voltage circuits Provides protection for power, LED and data lines Protection modes: Line-Ground (all) Connection method: #22-#16 AWG screw terminals Self restoring Dimensions: 1.6 x 3.0 x 1.6 in (41x76x41mm) Weight 4 oz (113g)		2357	\$204
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The logo for FAAC, consisting of the letters 'FAAC' in a bold, sans-serif font. The 'F' and 'A' are connected, and the 'C' has a distinctive shape.

FAAC

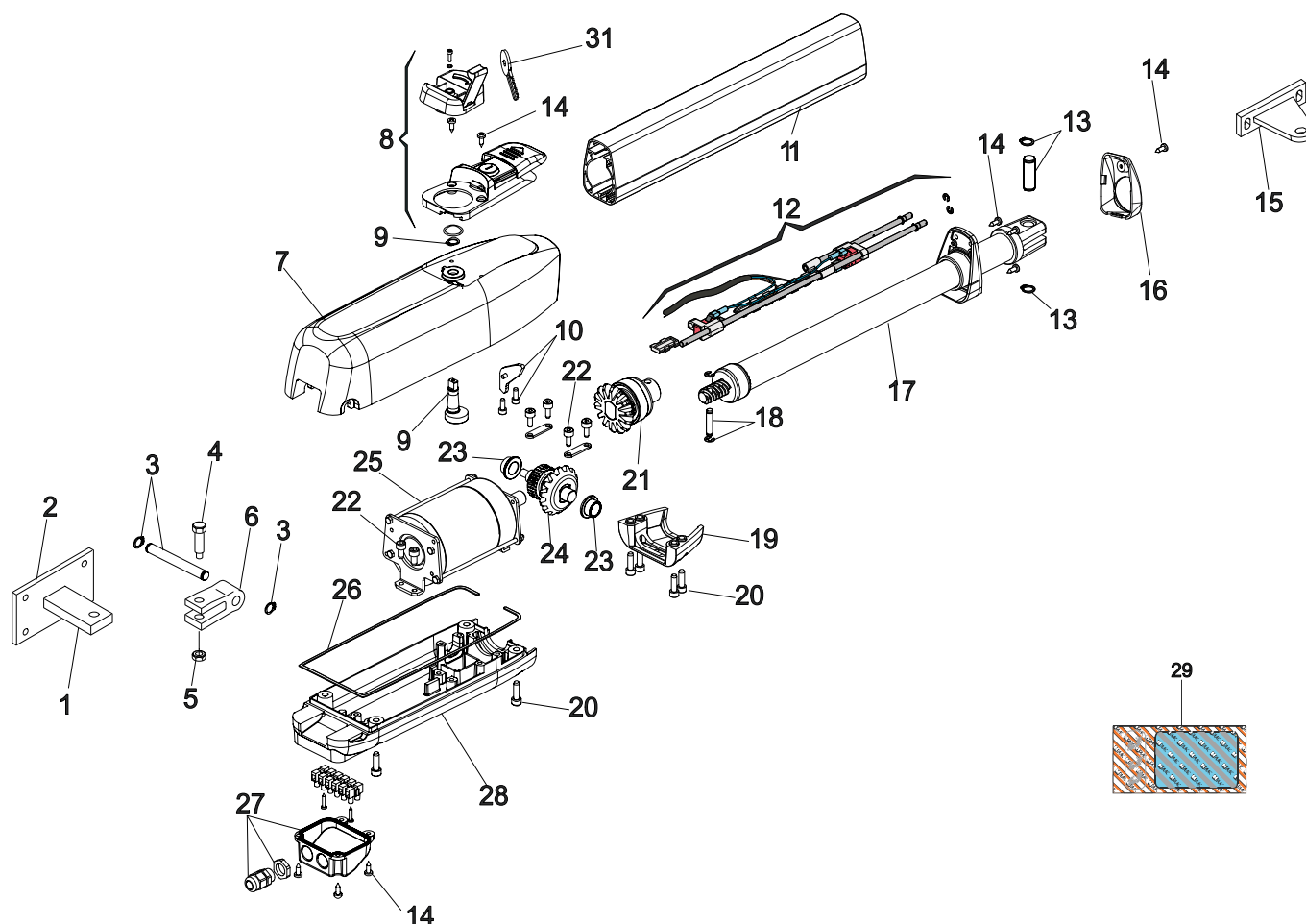
Exploded Views and Spare Parts



Part	Part Number	Description	List Price
01	799360	Motor Housing, SX Top Section	\$176
01	799359	Motor Housing, DX Top Section	\$176
02	713009	Manual Release Key, 412	\$9
03	7171345	Flange, Protective Cover, SX	\$18
03	7171335	Flange, Protective Cover, DX	\$18
04	n/a	Self Tapping Screw (3.5 x 13mm)	n/a
05	n/a	Self-Tapping Screw (5.5 x 15mm)	n/a
06	799358	Cylinder Collar	\$22
07	736060	Cylinder Assembly	\$196
08	727148	End Cap, Protective, SX	\$7
08	727147	End Cap, Protective, DX	\$7
09	n/a	Self-Tapping Screw (3.5 x 9.5mm)	n/a

Part	Part Number	Description	List Price
10	2705	Capacitor for 115V (25uf)	\$12
10	2707	Capacitor for 220V (8uf)	\$9
11	7272795	Protective Cover	\$82
12	722298	Protective Cover Support	\$20
13	n/a	Self Tapping Screw (5 x 18mm)	n/a
14	716074	Motor Housing, Bottom Section	\$53
15	746030	Stator (Motor) for 220V	\$114
15	746755	Stator (Motor) for 115V	\$132
16	746028	Rotor (Motor)	\$82
17	710919	Strain Relief	n/a
18	390009	Skin Pack (1 pack = 2 operators)	\$134
n/a	6020082	Plug for Manual Release	\$4

415



Part	Part Number	Description	List Price
01	72200165	Rear Mounting Bracket	\$36
02	72840065	Rear Mounting Plate	\$20
03	718366	Long Pin with C Clips	\$18
04	7182075	Short Pin	\$14
05	2036	Nut (8mm)	\$4
06	7228015	Rear Fork	\$39
07	716148	Rear Upper Body	\$71
08	428403	Manual Release Assembly	\$70
09	60202145	Manual Release Eccentric Cam	\$46
10	60202155	Manual Release Lever	\$18
11	716151	Protective Cover	\$80
12	490108	Limit Switch Assembly	\$109
13	718354	Front Pin With C Clips	\$7
14	n/a	Self Tapping Screw 4.2 x 13mm	n/a
15	728271	Front Mounting Bracket	\$44

Part	Part Number	Description	List Price
16	711027	Limit Switch Adjusters Cover	\$18
17	490104	Cylinder	\$129
18	718367	Screw Drive Pin And C Clips	\$3
19	499399	Lower Front Cover	\$24
20	n/a	Self Tapping Screw 6.3 X 19Mm	n/a
21	60202225	Gear (Piston)	\$75
22	n/a	Self Tapping Screw 4.8 x 13mm	n/a
23	60202165	Bushing	\$18
24	60202215	Gear (Motor)	\$96
25	60202205	24V Motor	\$394
26	709324	Gasket	\$18
27	60202175	Electric Cable Cover	\$32
28	716149	Rear Body Lower Half	\$73
29	490106	Skin Pack	\$12
31	7120885	Cylinder Lock	\$26

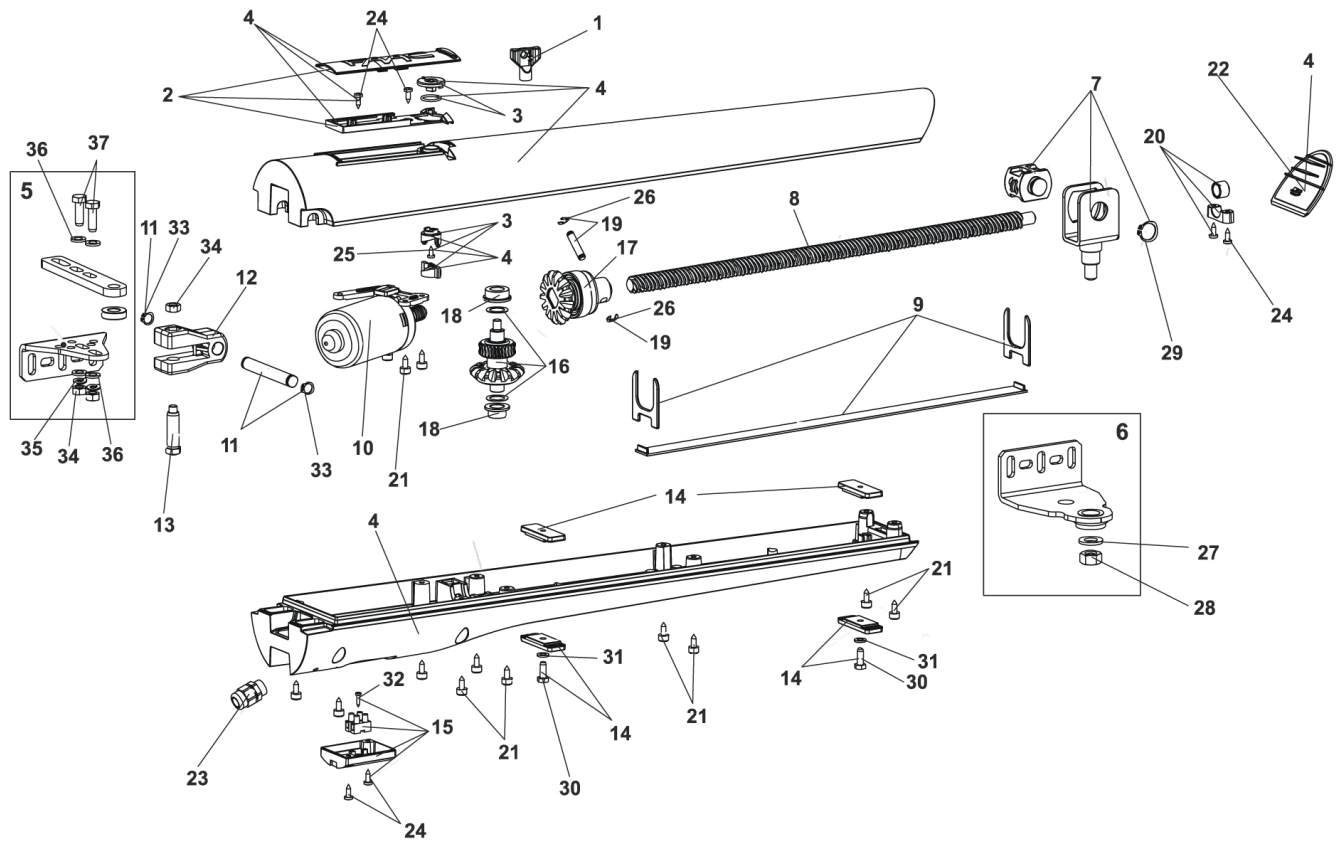
NOTE:

115 VAC Motor
25uF Capacitor

p/n 770890
p/n 2705

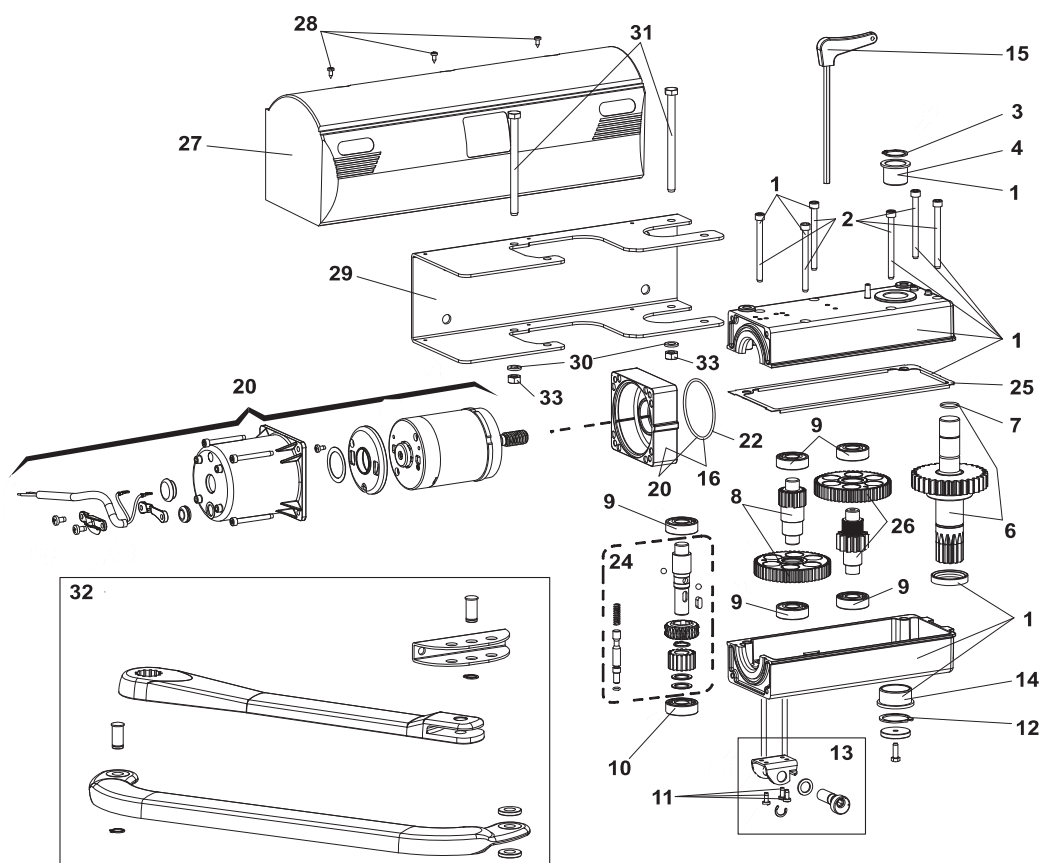
\$226
\$12

S418



Part	Part Number	Description	List Price
01	713002	Manual Release Key	\$5
02	63001555	Manual Release Cover	\$21
03	63001565	Manual Release Assembly	\$16
04	63001575	Operator Body	\$48
05 06	63002565	Bracket Kit (front and rear bracket come in the same kit)	\$73
07	63001595	Lead Nut	\$68
08	63001525	Screw	\$75
09	63001605	Screw Cover	\$16
10	63001615	Motor	\$179
11	718366	Long Pin	\$18
12	7228015	Rear Fork	\$39
13	7182075	Short Pin	\$14
14	63001625	Mechanical Stop	\$32
15	63001635	Harness Cover	\$18
16	60202215	Tensioning Set	\$96
17	60202225	Output Shaft	\$75
18	60202165	Bushing	\$18

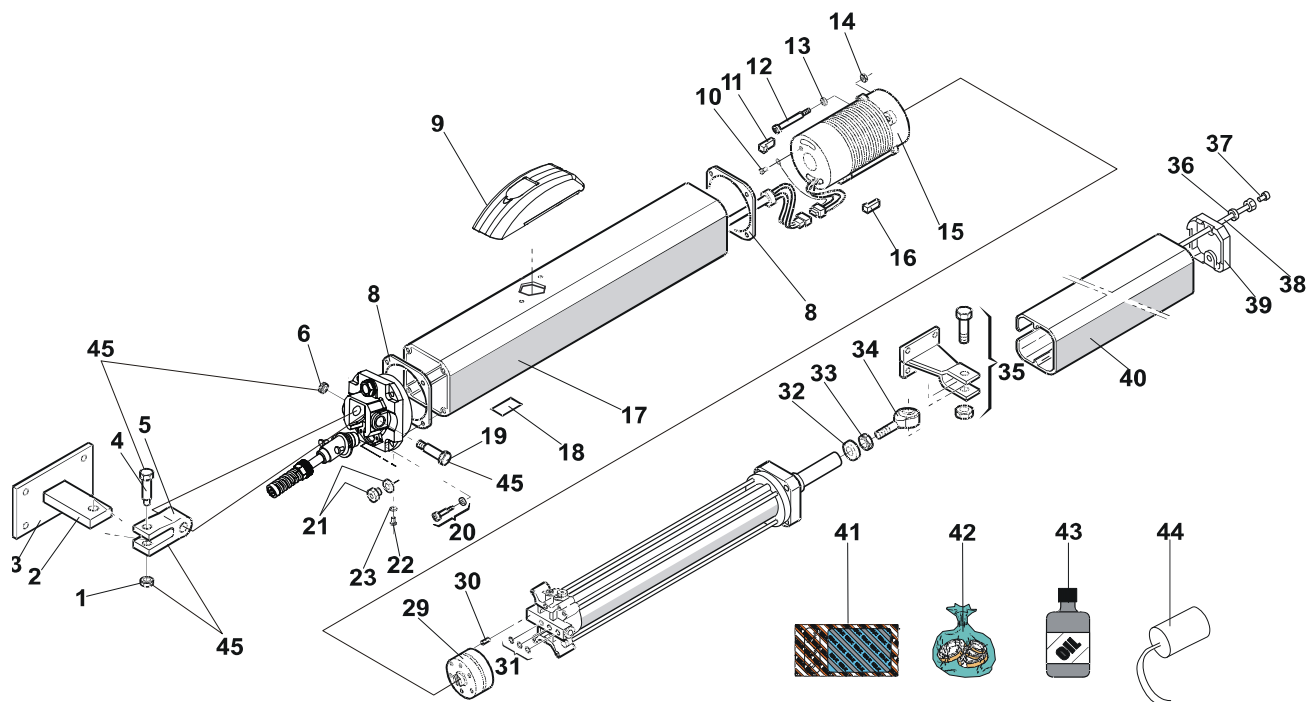
Part	Part Number	Description	List Price
19	718367	Pin With C Clip	\$3
20	60202355	Worm Gear Bushing	\$12
21	63001545	Screws $\varnothing 4.8 \times 13 \text{ mm}$	n/a
22	63001535	Front Cap	\$14
23	n/a	Cable Gland M16 x 1.5	n/a
24	701459	Self Tapping Screw 3.5x13 mm	n/a
25	701405	Self Tapping Screw 3.5x9.5 mm	n/a
26	704049	C Clip E 6	n/a
27	n/a	Washer 13 x 2.5 mm	n/a
28	702102	Nut ES 8	n/a
29	n/a	C Clip E 18	n/a
30	701110002	Screw 6 x 16 mm	n/a
31	703103	Lock Washer 6	n/a
32	701418	Self Tapping Screw 2.9 x 13mm	n/a
33	704002	C-clip E 10	n/a
34	702106	Nut ES. 8	n/a
35	703104	Lock Washer 8	n/a
36	n/a	Washer 8.4 x 1.6 mm	n/a
37	701122002	Screw 8 x 25 mm	n/a



Part	Part Number	Description	List Price
01	428283	Body Complete Unit	\$198
02	701089	Tcei 6X 70 5931 8.8 Z	n/a
03	704028	Seeder E 22 Uni 7435	n/a
04	708026	Bush	n/a
06	63000856	Final Reduction Gear Group	\$116
07	7090210015	O-Ring 17.17X1.78	n/a
08	63000856	Final Reduction Gear Group	\$116
09	7070222	6202 Bearing	n/a
10	707025	Bearing 6202 Zz	n/a
11	XVT18B10100Z	Self Tapping M4x10 Screw	n/a
12	704041	C-Clip E30 Uni 7435	n/a
13	63001855	Manual Release	\$25
14	708045	Bushing	n/a
15	713001	Manual Release Key	\$10
16	63001145	Motor Flange Kit	n/a

Part	Part Number	Description	List Price
20	63000596	Motor 24 Vdc	\$335
22	ZORA2606160	O-Ring 2.62X61.60	n/a
24	409553	Release Assy	\$97
25	63001455	Gasket Body	n/a
26	718002	Gear Reduction Unit	\$102
27	727292	Protective Cover	\$149
28	XVA050350951	Self Tapping Screw 3.5X9.5	n/a
29	722471	Mounting Frame	\$79
30	XR002080020Z	Washer	n/a
31	XVTOOF11100Z	Screw M8x110	n/a
32	738705	Articulated Arm	\$226
33	XDA01F10065Z	Nut M8	n/a

400 CBAC



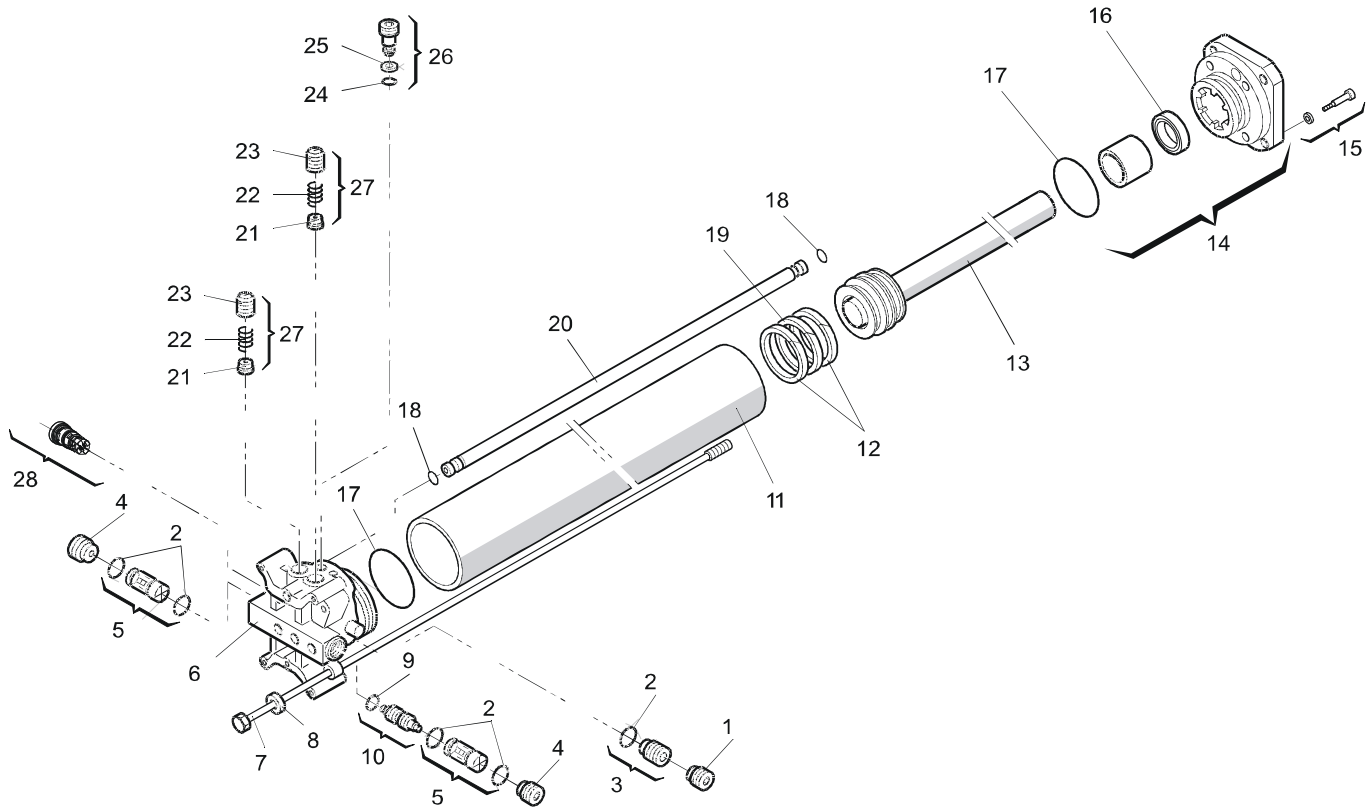
Part	Part Number	Description	List Price
01	2036	Galvanized Nut (8mm)	\$4
02	7220015	Rear Bracket	\$36
03	7284005	Rear Bracket Plate	\$20
04	7182075	Short Pin	\$14
05	7228015	Rear Fork	\$38
06	2037	Self-Locking Nut (8 mm)	\$4
07	70991015	Gasket (D80)	\$5
09	4185045.5	Locking Cap Kit	\$73
10	701803	Self Threading Screw (4mm)	n/a
11	7119475	Vibration Dampener	\$4
12	2365	Motor Bolt (4x50 mm)	\$4
13	2366	Lock Washer (4 mm)	\$4
14	2367	Hex Nut (4 mm)	\$4
15	77000425*	115V 1400 RPM Motor	\$194
16	7119485	Vibration Dampener	\$4
17	7161825	Operator Body 400	\$105
17a	7161835	Operator Body (EG)	\$122
18	7320065	Vent Screw Label	n/a
19	7182175	Long Pin	\$15
20	701829	T20 Torx (5 x 20mm)	n/a
21	7110015	Oil Plug	\$3
22	2275	Vent Screw (4x18 mm)	\$4
23	7094065	Gasket (copper)	\$3
29	3204425	1 Lt. Lobe Pump	\$183

Part	Part Number	Description	List Price
30	706152	Pump Pin (4x28mm)	n/a
31	7090010015	O-Ring	\$3
32	3060	Washer (Swivel)	\$3
33	2069	Swivel Jam Nut (10mm)	\$5
34	7073095	Swivel Joint square	\$80
35	7220355	Front Mounting Bracket	\$30
35a	7220365	Front Mounting Bracket (EG)	\$33
36	703401	Star Washer (5mm)	n/a
37	7119405	Protective Cover End Cap Plug	\$3
38	7019195	Tie-Rod (Protective Cover)	\$6
38a	7019225	Tie-Rod (Protective Cover EG)	\$7
39	4170015	Protective Cover End Cap	\$16
40	7272105	Protective Cover	\$61
40a	7272115	Protective Cover (EG)	\$73
41	3900985	Skin Pack: 400	\$157
41a	3900975	Skin Pack: 400 (EG)	\$157
42	2167.1	Seal Kit	\$85
43	714019 Qt.1	FAAC Oil: 1 qt.	\$24
43a	7140251 Qt.1	FAAC Arctic Oil: 1 qt.	\$68
44**	2707	Capacitor 8uF: 220V	\$9
45	7228015.1	Aluminum Fork Kit	\$68

NOTE:

* 220 VAC 8 uF Motor	p/n 7700205	\$194
* 220 VAC 16 uF Motor	p/n 77000415	\$194
** 16uF Capacitor for 220 VAC Motor	p/n 2706	\$9
** 25uF Capacitor for 115 VAC Motor	p/n 2705	\$19

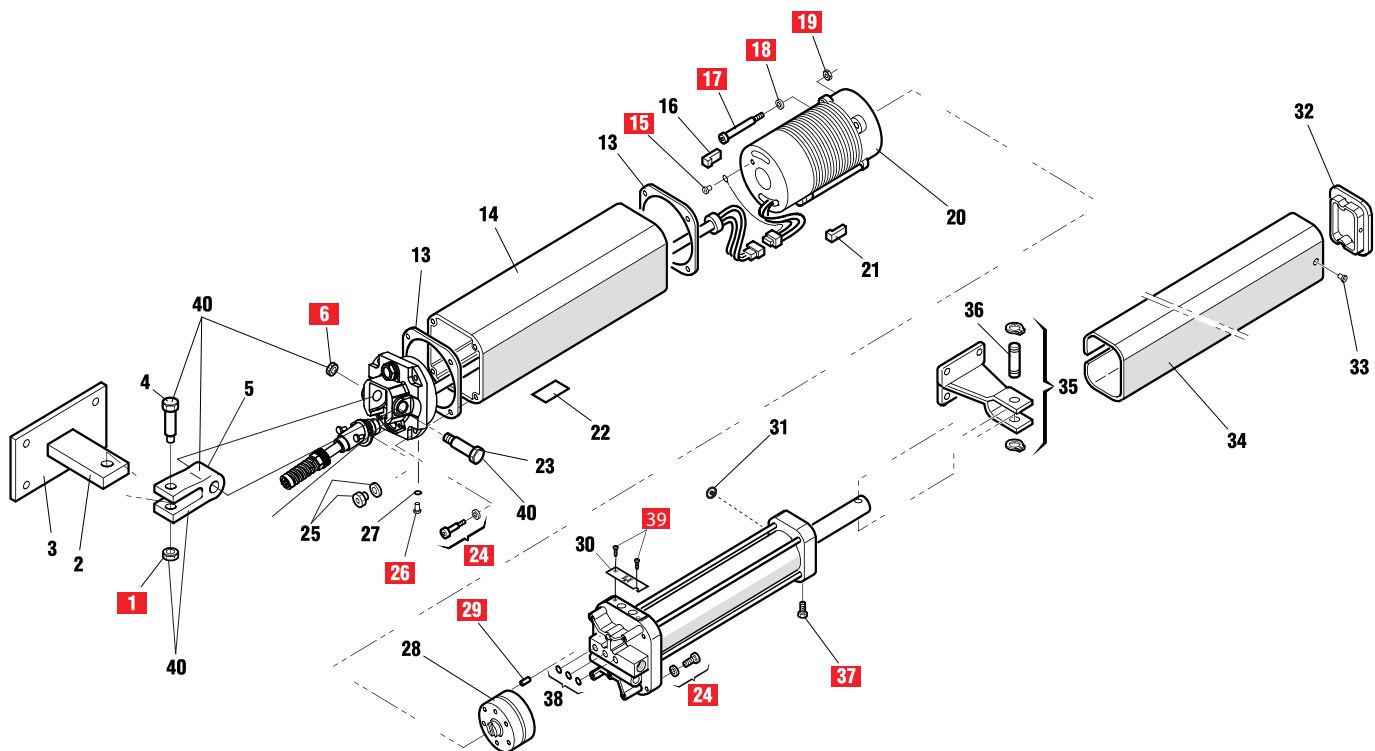
400 CBAC



Part	Part Number	Description	List Price
01	7049135	Valve Retainer	\$4
02	70900500	O-Ring (10.82 x 1.78mm)	n/a
03	4404065	Inlet Valve	\$6
04	7049005	Retainer (Brass)	\$5
05	4404085	Lock Valve (Bi-Metal)	\$9
06	4994655	Distribution flange (CBAC)	\$198
07	7230295	Tie-Rod (Cylinder)	\$7
07a	7230305	Tie-Rod (Cylinder) (EG)	\$9
08	703204	Star Washer (5 mm)	n/a
09	70903000	O-Ring (7.66 x 1.78mm)	n/a
10	4180285	Shuttle Piston	\$19
11	7366025	Cylinder	\$69
11a	7366015	Cylinder (Long/EG)	\$76
12	7091015	Piston Rod Seals	\$7
13	4350105	Piston Rod Assembly	\$101
13a	4350115	Piston Rod Assembly (EG)	\$115

Part	Part Number	Description	List Price
14	4994625	Front Flange	\$91
15	701829	Front Flange Bolt (M5 x 20 mm)	n/a
16	63000315	Seal Front Flange (Internal)	\$9
17	7090360025	O-Ring (Distribution flange)	\$4
18	7090815	O-Ring (Retract Tube	\$4
19	7049005	Guide Ring (Piston)	\$5
20	7361335	Retract Tube	\$28
21	7310315	By-Pass Cap Spacer (see #27)	n/a
22	7210025	By-Pass Cap Spring (see #27)	n/a
23	711021	By-Pass Cap (see #27)	n/a
24	7090280015	O-Ring (Manual Release)	\$3
25	7043055	Spacer (Manual Release)	n/a
26	4180195	Manual Release	\$19
27	4180415	By-Pass Cap Kit	\$15
28	4404095	Inlet Valve (Bi-Directional)	\$18

402 CBC



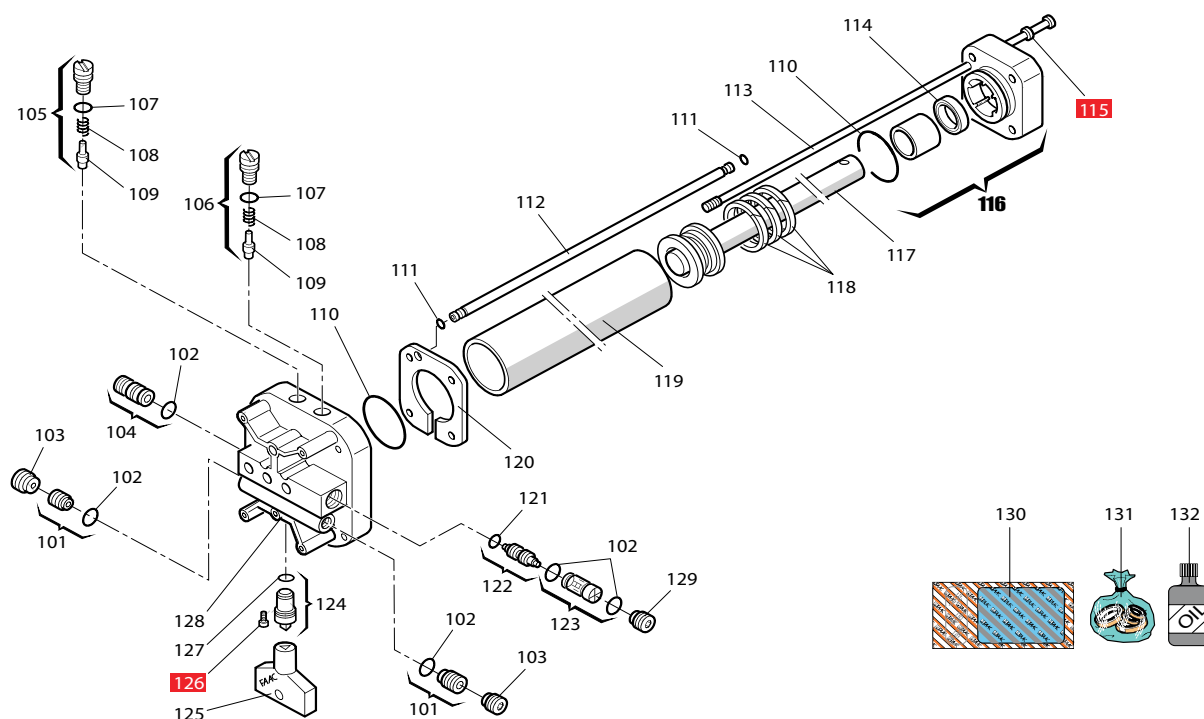
Part	Part Number	Description	List Price
01	2036	Galvanized Nut	\$4
02	7220015	Rear Bracket	\$36
03	7284005	Rear Bracket Plate	\$20
04	7182075	Short Pin	\$14
05	7228015	Rear Fork	\$39
06	2037	Self Locking Nut	\$4
13	70991015	Gasket (D80)	\$5
14	7450005	Operator Body	\$85
15	701431	Self Threading Screw	n/a
16	7119475	Vibration Dampener	\$4
17	2365	Motor Bolt (4x50mm)	\$4
18	2366	Lock Washer	\$4
19	2367	Hex Nut	\$4
20	77000425*	Motor 115V 1400rpm	\$194
21	7119485	Vibration Dampener	\$4
22	7320065	Vent Screw Label	n/a
23	7182175	Long Pin	\$15
24	701047	Socket Head Screw (5x20mm)	n/a

Part	Part Number	Description	List Price
25	7110015	Oil Plug	\$3
26	2274	Vent Screw	\$5
27	7094065	Copper Gasket	\$2
28	3204425	Cast Iron Pump 1 Lt	\$183
29	706122	Pump Pin	n/a
30	7203275	By-Pass Protection Cover	n/a
31	7260995	Spacers for Protective Cover	n/a
32	7271545	Protective Cover End Cap	\$5
33	7114025	Protective Cover Plug	\$2
34	7272085	Protective Cover	\$71
35	4304015	Front Mounting Bracket	\$20
36	7182355	Pin Front Bracket	\$5
37	701405	Black Plastic Screw	n/a
38	7090010015	O-Ring (4.48X1.78mm)	\$3
39	701497	Stainless Steel Screw 2.9x6.5mm	n/a
40	7228015.1	Aluminum Fork Kit	\$68

NOTE:

* 220 VAC 8 uF Motor	p/n 7700205	\$194
* 220 VAC 16 uF Motor	p/n 77000415	\$194
** 16uF Capacitor for 220 VAC Motor	p/n 2706	\$9
** 25uF Capacitor for 115 VAC Motor	p/n 2705	\$19

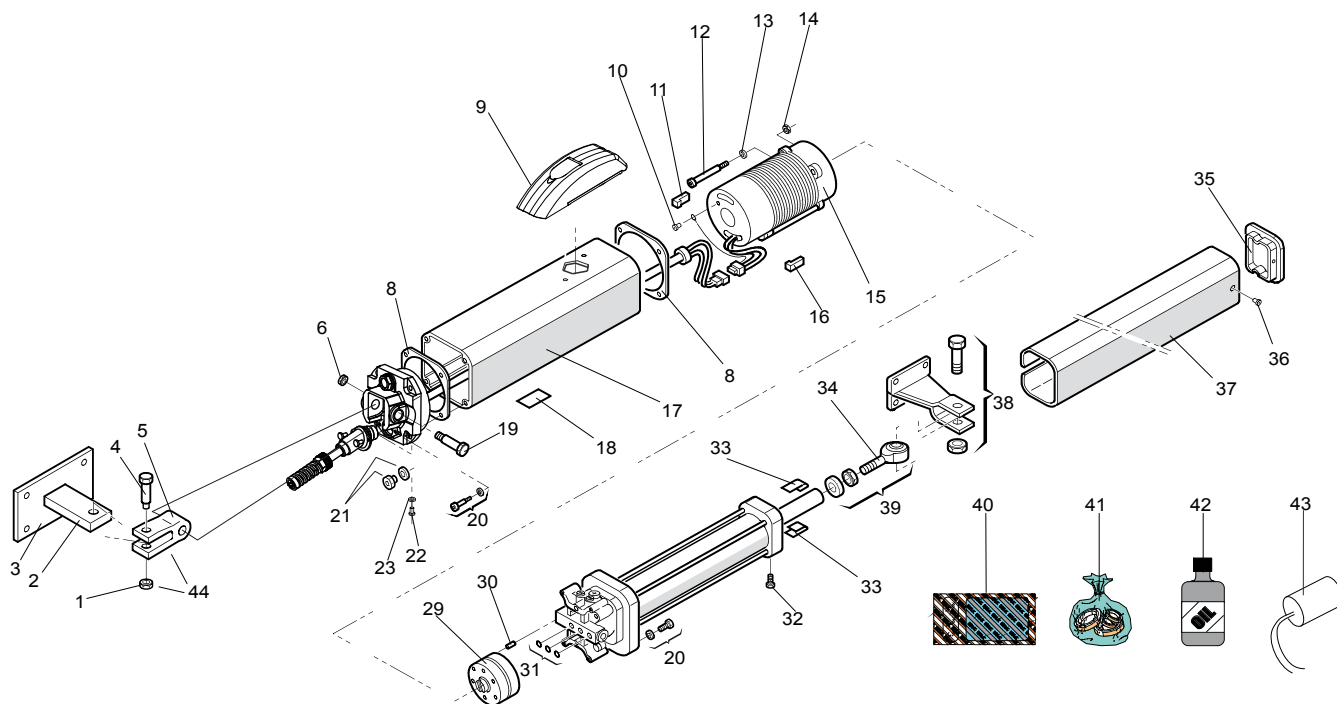
402 CBC



Part	Part Number	Description	List Price
101	4404065	Inlet Valve	\$6
102	7090050015	O-Ring (10.82x1.78mm)	n/a
103	7049135	Valve Retainer	\$5
104	4180205	Black Lock Valve	\$5
105	4180395	Brass By-Pass Valve	\$9
106	4180395	Brass By-Pass Valve	\$9
107	7090150015	O-Ring (9.25x1.78mm)	n/a
108	7210025	By-Pass Spring	n/a
109	7119335	By-Pass Cover	n/a
110	7090350025	O-Ring 34.60x2.62 (Front Flange)	\$4
111	7090635	O-Ring 5x1.5 (Retract Tube)	\$4
112	7361315	Retract Tube Alum.	\$33
113	7230225	Tie Rod Cylinder	\$6
114	63000655	Seal (Front Flange Internal)	n/a
115	703204	Star Washer	n/a

Part	Part Number	Description	List Price
116	4994165	Front Flange	\$70
117	4350065	Piston Assembly	\$106
118	7095035	Piston Rod Packing	\$20
119	7366065	Cylinder	\$77
120	7271555	Protective Cover Guide	\$4
121	7090300015	O-Ring (7.66x1.78mm)	n/a
122	4180285	Shuttle Piston	\$19
123	4404085	Lock Valve	\$9
124	4180355	Manual Release	\$19
125	713002	Manual Release Key	\$5
126	701039	Galvanized Screw 4x6mm	n/a
127	709069	O-Ring (7x1.5mm)	n/a
128	4994365	CBC Distribution flange	\$251
129	7049005	Brass Retainer	\$5
130	3906145	Skinpack 402	\$90
131	2168.1	Seal Kit For 402	\$117
132	714019 Qt.1	FAAC Oil: 1 qt.	\$24
132a	7140251 Qt.1	FAAC Arctic Oil: 1 qt.	\$68

422 CBAC



Part	Part Number	Description	List Price
01	2036	Nut 8mm	\$4
02	7220015	Rear bracket motor	\$36
03	7284005	Rear bracket Plate	\$20
04	7182075	Short pin	\$14
05	7228015	Rear fork	\$39
06	2037	Self Locking Nut	\$4
08	70991015	Gasket (D80)	\$5
09	4185045.5	Locking Cap Kit	\$73
10	701803	Self Threading Screw 4x10mm	n/a
11	7119475	Vibration Dampener	\$4
12	2365	Motor Bolt 4 x 50 mm	\$5
13	2366	Lock Washer	\$4
14	702003	Hex Nut (4 mm)	\$4
15	77000425	Motor 115V 1400 rpm	\$194
16	7119485	Vibration Dampener	\$4
17	7161815	Operator Body	\$69
18	7320065	Vent Screw Label	n/a
19	7182175	Long pin	\$15
20	701829	Screw Torx 5x20 mm	n/a

Part	Part Number	Description	List Price
21	7110015	Oil Cap	\$3
22	2275	Vent Screw 4 x 20 mm	\$5
23	7094065	Copper washer	\$3
29	3204425	Cast iron pump 1 lt	\$183
30	706152	Pump Pin	n/a
31	7090010015	O-Ring 4.48x178 mm	\$3
32	701405	Self Threading Screw 3.5 x 9.5	n/a
33	7260285	Cover Antivibration Spacer	n/a
34	7073035	Swivel Joint	n/a
35	7271545	Protective Cover End Cap	\$5
36	711402	Protective Cover Plug	\$3
37	7272125	Protective Cover	\$73
38	7220515	Front Mounting Bracket	\$20
39	4900605	Swivel Joint Kit	\$49
40	3900995	Skin Pack	\$133
41	2172.1	Seal Kit	\$122
42	714019 Qt.1	FAAC Oil: 1 qt.	\$24
42	7140251 Qt.1	FAAC Arctic Oil: 1 qt.	\$68
43	2705	Capacitor for 115VAC Motor	\$19
44	7228015.1	Aluminum Fork Kit	\$68

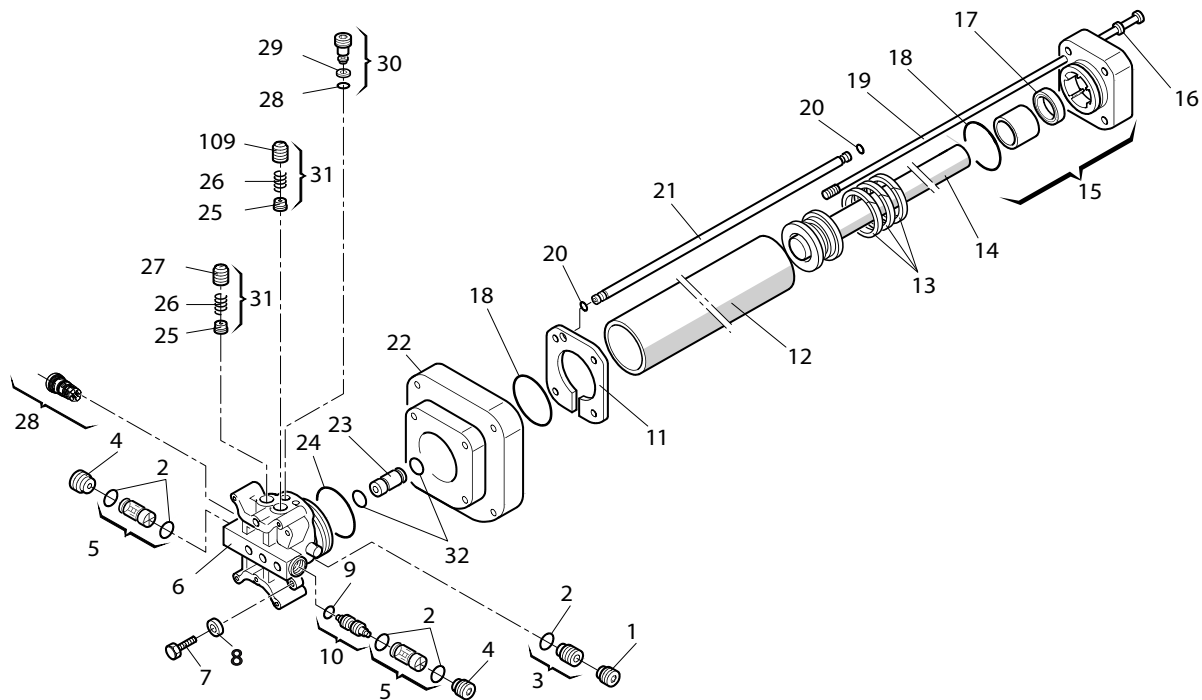
NOTE:

220 VAC 8 uF Motor
8uF Capacitor for 220 VAC Motor

p/n 7700205
p/n 2707

\$194
\$9

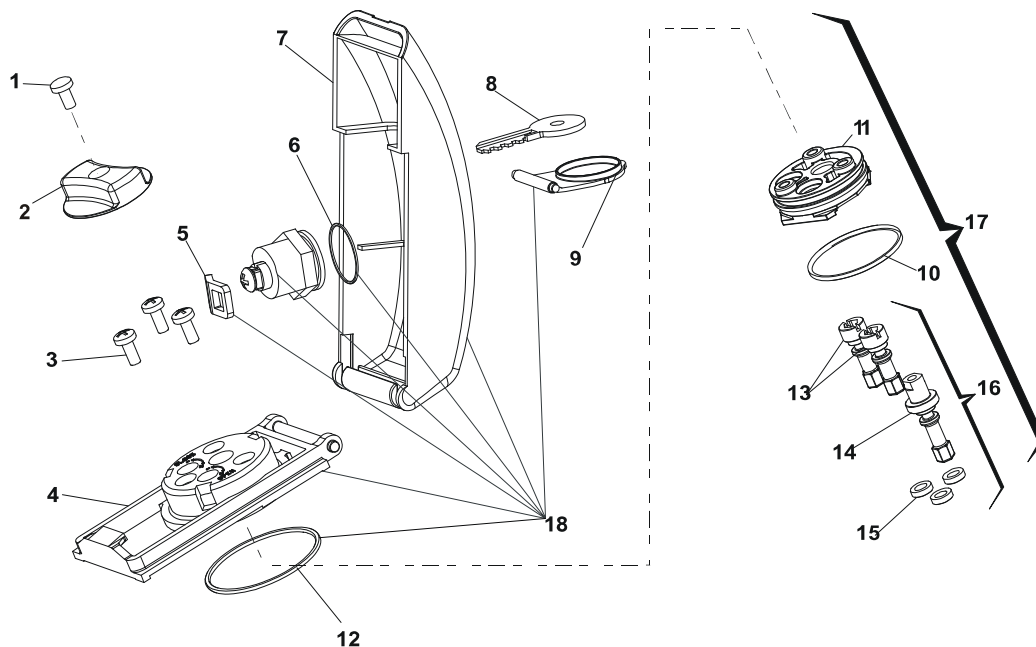
422 CBAC



Part	Part Number	Description	List Price
01	7049135	Valox valve retaining ring nut	\$4
02	7090050015	O-Ring 10.82 x 1.78mm	n/a
03	4404065	Inlet Valve	\$6
04	7049005	Brass Valve Retainer	\$5
05	4404085	Stop valve in zamack	\$9
06	4994655	Distribution flange CBAC	\$198
07	701020	Screw 5 x 40 mm	n/a
08	703007	Washer	n/a
09	7090300015	O-Ring 7.66 x 1.78mm	n/a
10	4180285	Shuttle Piston with OR	\$18
11	7271555	Protective Cover Guide	\$4
12	7366065	Cylinder	\$77
13	7095035	Piston Rod Packing	\$20
14	4350085	Piston assembly	\$99
15	4994165	Front flange	\$70
16	703204	Star Washer	n/a

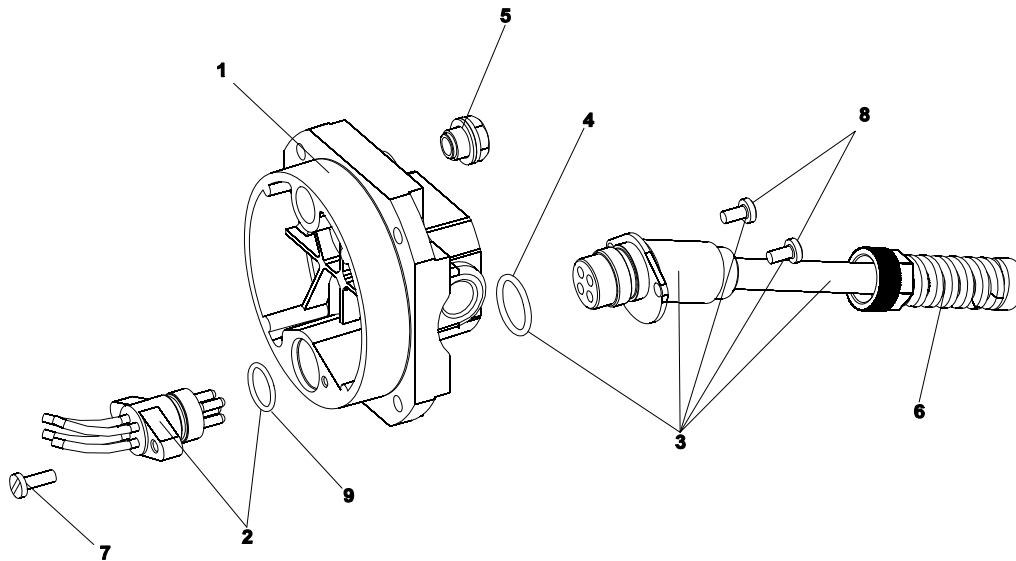
Part	Part Number	Description	List Price
17	63000655	Front Flange Seal (internal)	n/a
18	7090360025	O-ring 40.95 x 2.62	\$4
19	7230225	Tie Rod (Cylinder)	\$6
20	7090635	O-Ring 5 x 1.5 mm	\$4
21	7361315	Retract tube alum.	\$33
22	499449	Mid Flange	\$71
23	7361035	Retract Tube Small	\$15
24	7090360025	O-ring 40.95 x 2.62	\$4
25	7310315	By-pass Spacer	n/a
26	7210025	By-pass Spring	n/a
27	4180415	By-pass Cap	\$15
28	4404095	Inlet Valve (Bi-directional)	\$18
29	7043055	Ring Spacer	n/a
30	4180195	Manual Release	\$19
031	4180415	By-pass Assembly	\$5
032	7090280015	O-Ring 5.28 x 1.78 mm	n/a

400 - 422 Manual Release



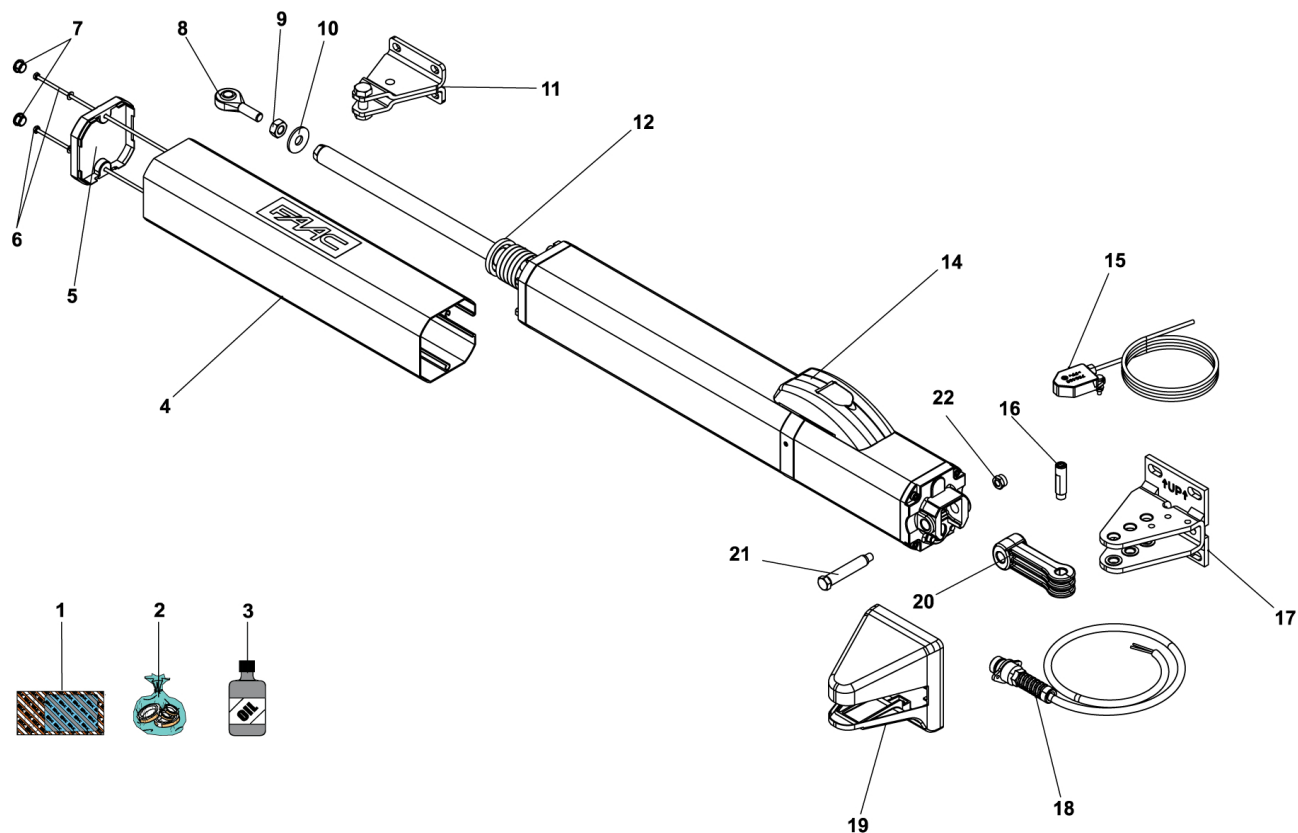
Part	Part Number	Description	List Price
01	2151	Knob Screw (ss) 4mm x 8mm	\$4
02	7290445	Manual Release Knob w/ screw	\$10
03	701526	Screw (ss) 4 x 10mm	n/a
04	720344	Locking Cap Base	n/a
05	729043	Lock	n/a
06	7090290015	O-Ring (Lock Cylinder)	\$3
07	7275285	Top Cover	n/a
08	7131005	Key (Viro)	\$5
09	7275275	Cover, Key	\$4
10	7090855	O-Ring Extension Receptacle	\$3
11	722795	Extension Receptacle	n/a
12	7090865	O-Ring (Base to Body)	\$3
13	718358	By-Pass Extensions	n/a
14	718359	Manual Release Extensions	n/a
15	7090845	O-Ring, Extensions	\$4
16	490327	Extensions with O-Rings	\$30
17	490326	Manual Release Kit	\$36
18	4185045	Locking Cap Complete	\$46

400 - 422 Rear flange



Part	Part Number	Description	List Price
01	7171485	Rear Flange	\$69
02	417010	Wiring Harness	\$22
03	4284065	Cable With Molded Connector	\$71
04	7090895	O-Ring 21x2 mm	n/a
05	7110015	Oil Plug	\$3
06	7109135	Cable Strain Relief	\$6
07	701479	Screw 3 x 12mm	n/a
08	701466	SCREW 3 x 8 mm	n/a
09	7090905	O-Ring 14 x 1.5 mm	\$2

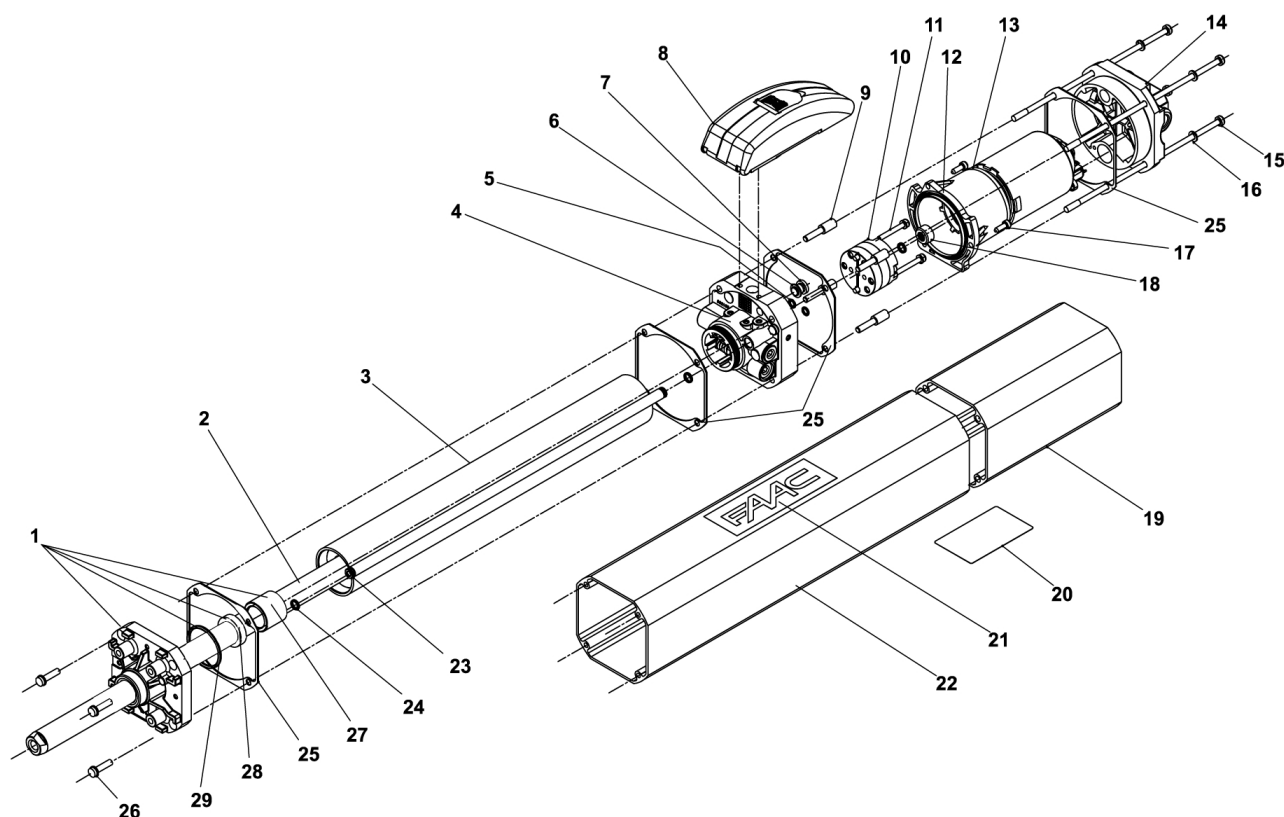
S450H CBAC



Part	Part Number	Description	List Price
01	63001885	Skinpack	\$117
02	2181.1	Seal kit	\$169
03	714019 Qt.1	FAAC Oil: 1 qt.	\$24
03	7140251 Qt.1	FAAC Arctic Oil: 1 qt.	\$68
04	63001895	Protective Cover	\$89
05	4170015	Protective Cover End Cap	\$16
06	63001905	Tie Rod Protective Cover	\$12
07	7119405	Protective Cover End Cap Plug	\$3
08	4900605	Swivel Joint Kit (includes 9,10)	\$49
09	702101	Hex. Nut M10	n/a
10	703027	Washer 10 mm	n/a
11	63001945	Front Bracket	\$39

Part	Part Number	Description	List Price
12	63001975	Positive Stop Spacers Kit	\$25
14	63001985	Manual Release Assy	\$79
15	63001875	Encoder	\$178
16	63001965	Short Pin	\$33
17	63001915	Rear Bracket	\$87
18	63001935	Molded Cable Kit	\$57
19	63001925	Bracket Plastic Cover	\$27
20	63001955	Rear Bracket Joint	\$11
21	7182175	Long Pin	\$11
22	2037	Lock Nut 8 mm	\$4

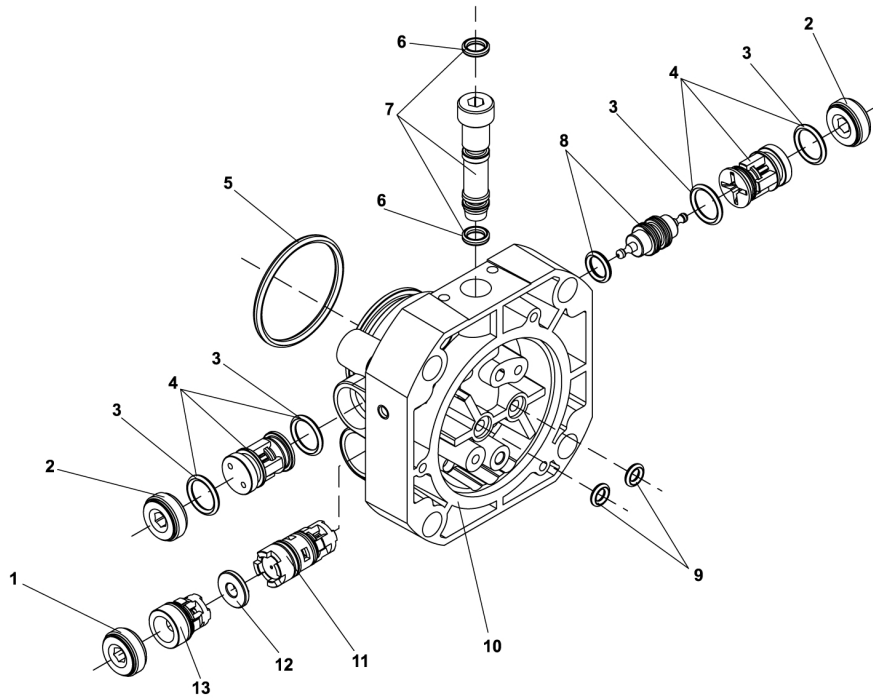
S450H CBAC



Part	Part Number	Description	List Price
01	63000716	Front Flange	\$70
02	63000656	Piston	\$103
03	63000646	Cylinder	\$68
04	63000676	Cbac Distribution flange	\$204
05	7090010015	O-Ring 48 X 1.78 Mm	\$3
06	63000756	Plug Gasket	n/a
07	63000766	Plug	n/a
08	63001985	Manual Realease Assy	\$79
09	63000746	Tank Screw	\$9
10	63000696	1.5 L/Min Pump	\$157
11	701996	Screw M4x30 Torx Ss	n/a
12	63000626	Motor Cover	\$35
13	63000636	Motor Assembly	\$132
14	63000806	Rear Flange	\$52
15	63000786	Tie Rod	\$10

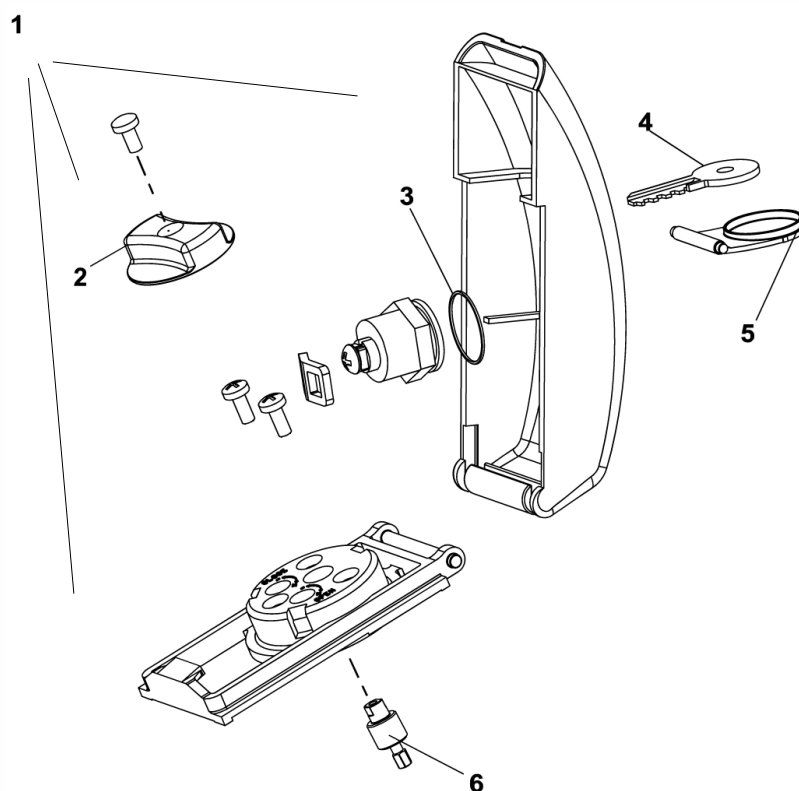
Part	Part Number	Description	List Price
16	703121	Lock Washer M5	n/a
17	701985	Screw M4x12 Torx T20 SS	n/a
18	63000706	Splined Joint	\$31
19	63000776	Motor Cover	\$68
20	903122	Label	n/a
21	63001865	Faac Sticker	n/a
22	63000736	Tank	\$73
23	63000726	Retract Tube	\$28
24	7090815	O-Ring Retract Tube	\$4
25	63000013	Gasket D80	\$4
26	701829	Screw Torx M5x20 with Lock W	n/a
27	708009	Bushing 20X28x24.5mm	n/a
28	63000315	Seal	\$9
29	7090350025	O-Ring 34.60x2.62mm	\$4

S450H Distribution flange



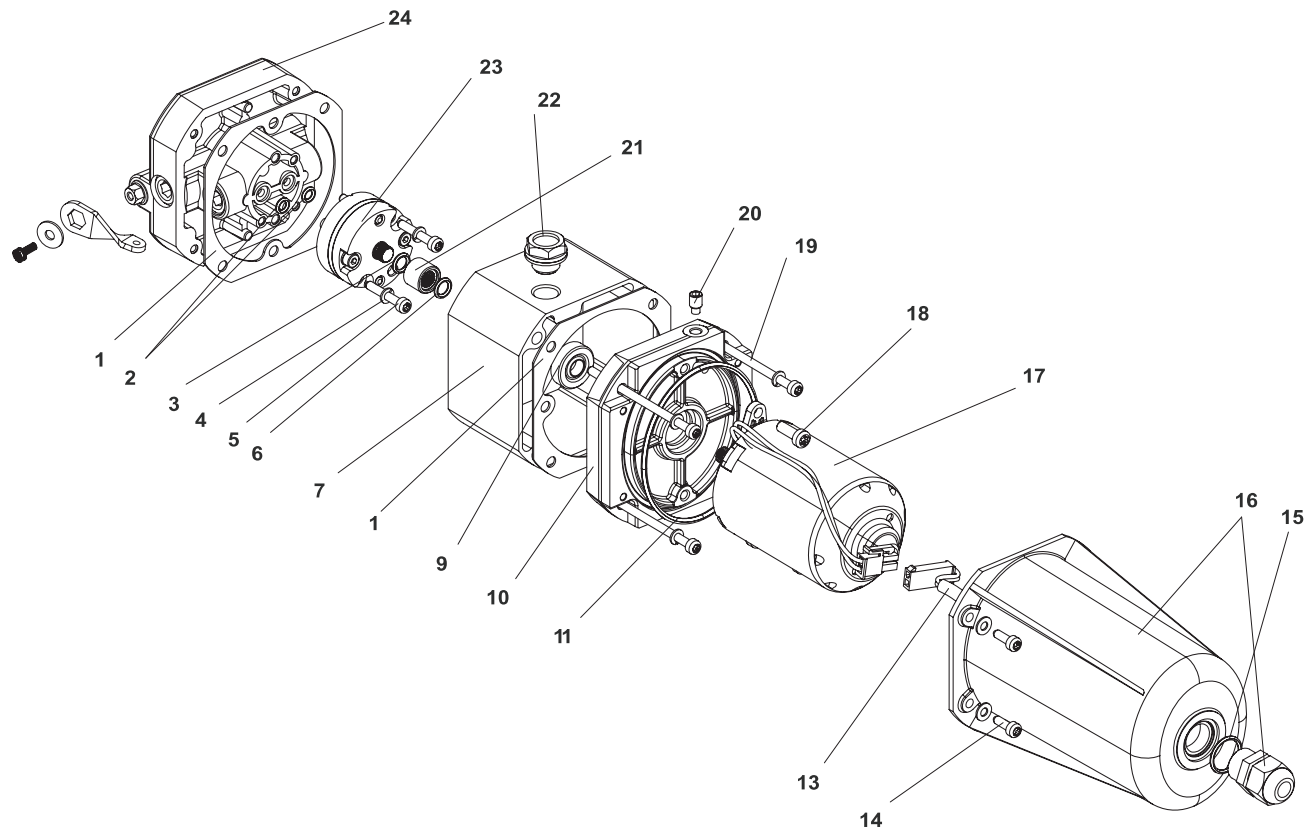
Part	Part Number	Description	List Price
01	63000816	Valve Retainer	\$8
02	63000816	Valve Retainer	\$8
03	7090050015	O-Ring 10.82X1.78 Mm	n/a
04	4404085	Lock Valve	\$9
05	7090350025	O-Ring 34.60X2.62 Mm	\$4
06	7090280015	O-Ring 5.28X1.78 Mm	\$3
07	63000826	Manual Release Valve	\$27
08	4180315	Shuttle Piston	\$19
09	7090010015	O-Ring 4.48X1.78 Mm	\$3
10	63000676	CBAC Distribution flange	\$204
11	4404095	Inlet Valve	\$18
12	63000836	Valve Spacer	\$3
13	4404065	Inlet Valve With Spring	\$6

S450H Manual Release



Part	Part Number	Description	List Price
01	63001985	Manual Release Assy	\$79
02	7290445	Release Knob	\$10
03	7090895	O-Ring 21 x 2 mm	n/a
04	7131005	Key Manual Release	\$5
05	7275275	Cover, Key	\$4
06	63000666	Release Pin	\$12
n/a	7090150015	O-Ring Release pin	\$3

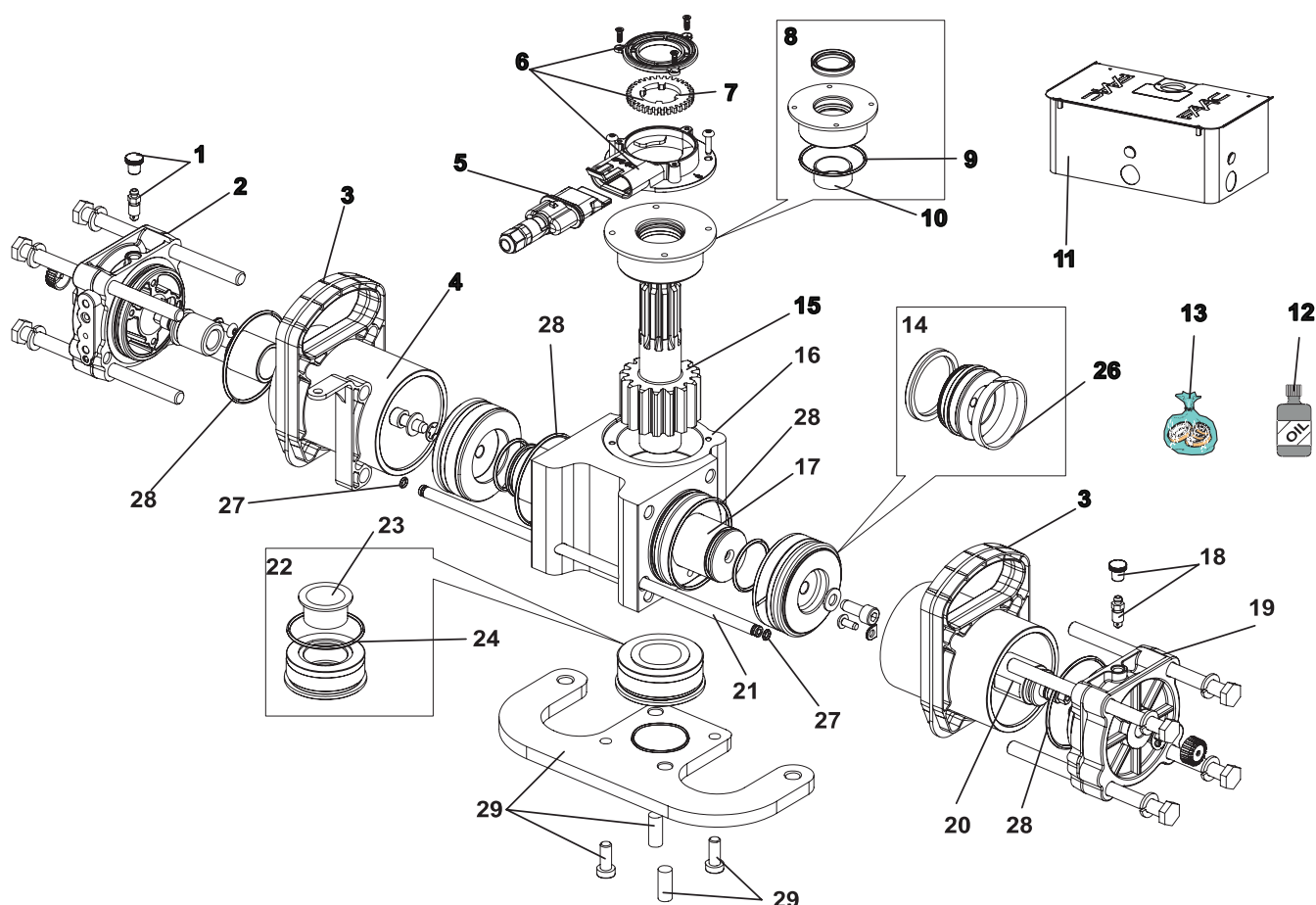
S800H Pump and Motor



Part	Part Number	Description	List Price
01	63000276	Tank Gasket	\$10
02	7090010015	O-Ring 4.48x1.78 mm	\$3
03	7090030015	O-Ring 6.75x1.78 mm	\$3
04	703101	Lock Washer	n/a
05	701632	Screw M4x25 mm	n/a
06	7090030015	O-Ring 6.75x1.78 mm	\$3
07	63000266	Hydraulic Unit Tank	\$56
09	63000306	Gasket	\$5
10	63000376	Motor and Flange	\$185
11	7090100025	O-Ring 72.69x2.62 mm	n/a
13	63001665	Motor Wire Harness	\$25

Part	Part Number	Description	List Price
14	701103	Screw M4x12 mm SS	n/a
15	7090190015	O-Ring 14x1.78 mm	n/a
16	63002635	Motor Cover	\$50
17	63000376	Motor and Flange	\$185
18	701072	Screw 5x14 mm	n/a
19	70195	Screw M4x75 mm SS	n/a
20	701245	Screw M6x8 mm	n/a
21	63000256	Splined Joint	\$14
22	7110015	Oil Cap	\$3
23	63000246	0.5 Lt/min Pump	\$193
24	63000226	CBAC Distribution flange	\$215

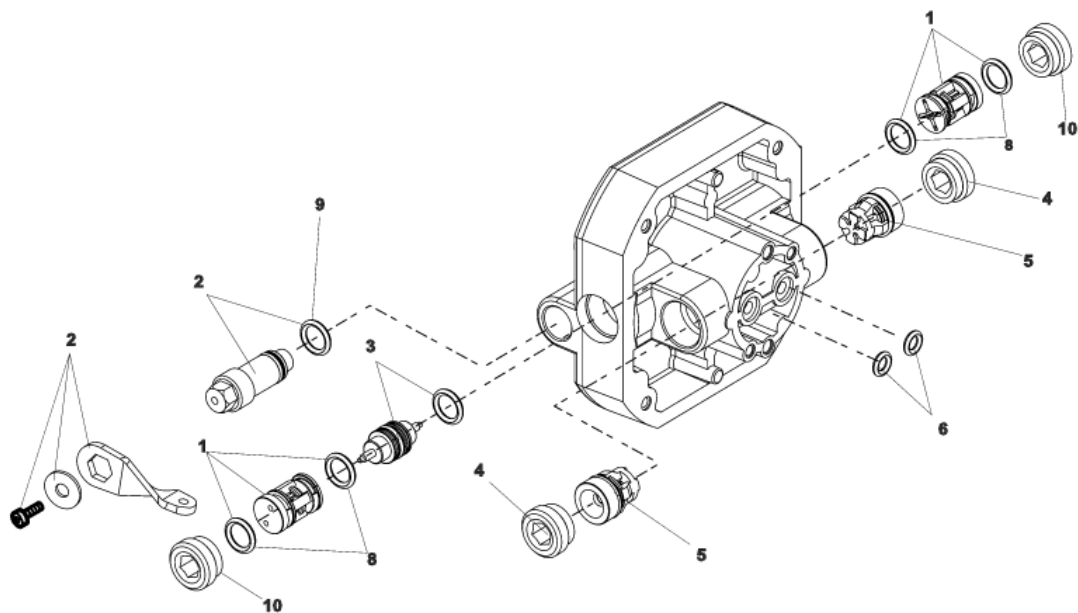
S800H Drive Unit



Part	Part Number	Description	List Price
01	63000016	Bleeding Valve	\$29
02	63000136	Flange Left	\$132
03	63002625	Handles	\$28
04	63000116	Cylinder 100 Degree	\$76
05	63000125	Encoder	\$109
06	63000005	Encoder Support Kit	\$74
07	63000115	Magnetic Discs	\$48
08	63000075	Upper Bushing Group	\$88
09	63000176	O-Ring 55.25x2.62 mm	\$3
10	63000186	IGUS Bushing	n/a
11	490112	Load Bearing Box Steel	\$562
12	714019 Qt.1	FAAC Oil: 1 qt.	\$24
12	7140251 Qt.1	FAAC Arctic Oil: 1 qt.	\$68
13	2182.1	Seal Kit	\$175
14	63000106	Piston	\$90

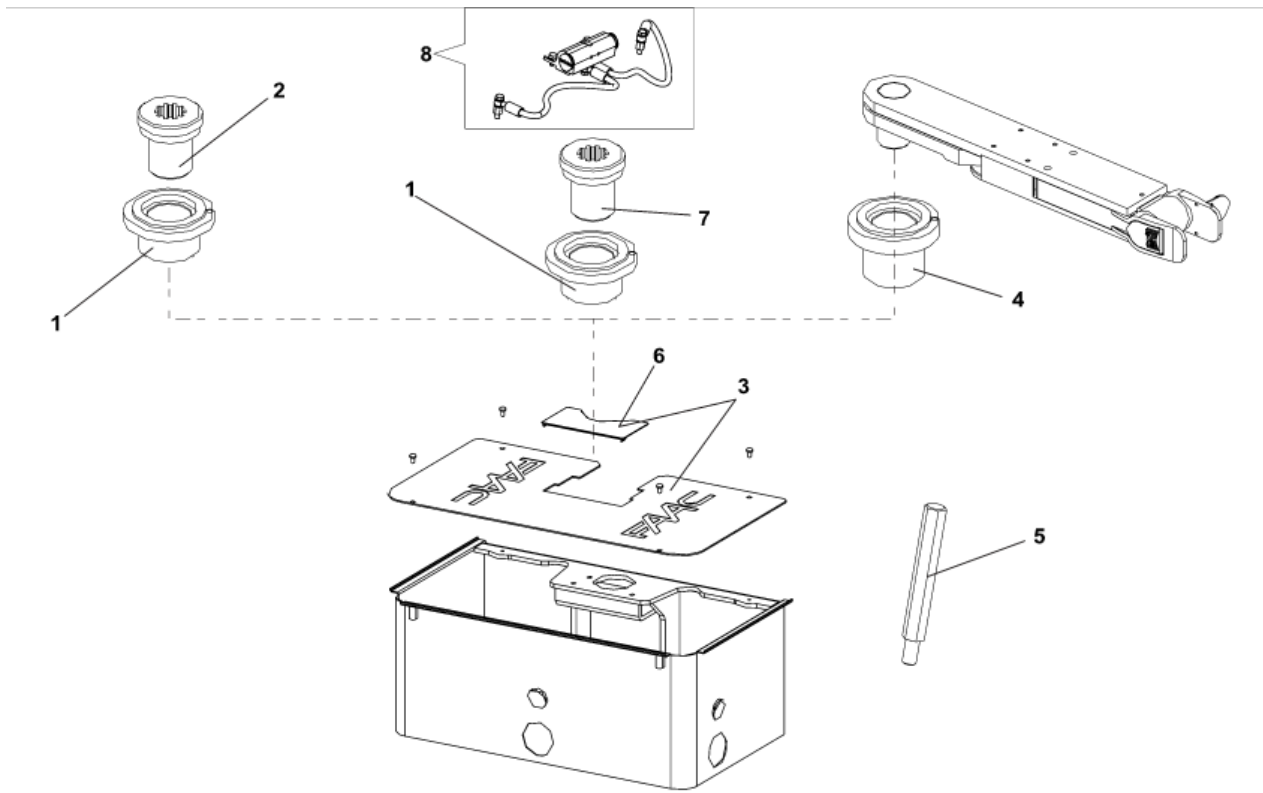
Part	Part Number	Description	List Price
15	63000056	Pinion	\$130
16	63000046	Body	\$267
17	63000086	Rack 100 Degree	\$137
18	63000016	Bleeding Valve	\$29
19	63000146	Flange Right	\$126
20	63000036	Positive Stop	\$58
21	63000156	Retract Tube 100 Degree	\$25
22	63000066	Lower Bushing Group	\$73
23	63000206	IGUS Bushing	n/a
24	63000196	O-Ring 50.47x2.62 mm	n/a
26	70992025	Gasket	\$18
27	7090635	O-Ring 5x1.5 mm	\$3
28	7090490025	O-Ring 64.77x2.62 mm	\$4
29	63002465	Foundation Plate	\$87

S800H Distribution flange



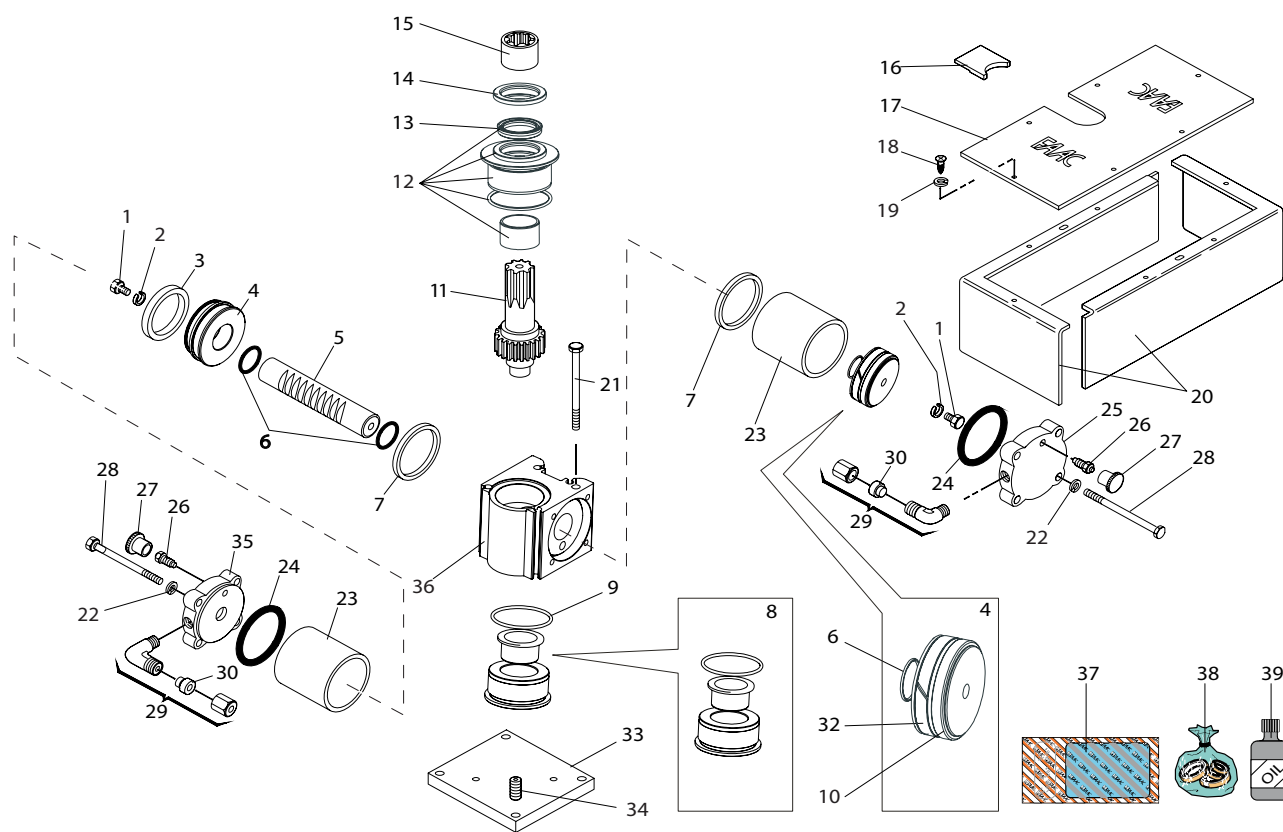
Part	Part Number	Description	List Price
01	4404085	Lock Valve Bi-Metal	\$9
02	63000336	Built-in Manual Release	\$38
03	4180315	Shuttle Piston	\$19
04	7049135	Valve Retaining Ring Nut	\$4
05	4404065	Inlet Valve	\$6
06	7090010015	O-Ring 4.48 X 1.78	\$3
08	7090050015	O-Ring 10.82 X 1.78	n/a
09	7090030015	O-Ring 6.75 X 1.78	\$3
10	7049005	Brass Valve Retaining Ring Nut	\$5

S800H Load Bearing Box



Part	Part Number	Description	List Price
01	63000015	Bushing Group Low Profile	\$155
02	63000045	Splined Joint Low Profile	\$137
03	63000075	Load Bearing Box Lid	\$104
04	63000025	Bushing Group For Mech. Release	\$158
05	63000065	Operator Mounting Bolt	\$53
06	63002455	Cover Plate	\$7
07	63002445	Splined Joint High Profile	\$160
08	390035	Hydraulic Manual Release	\$224

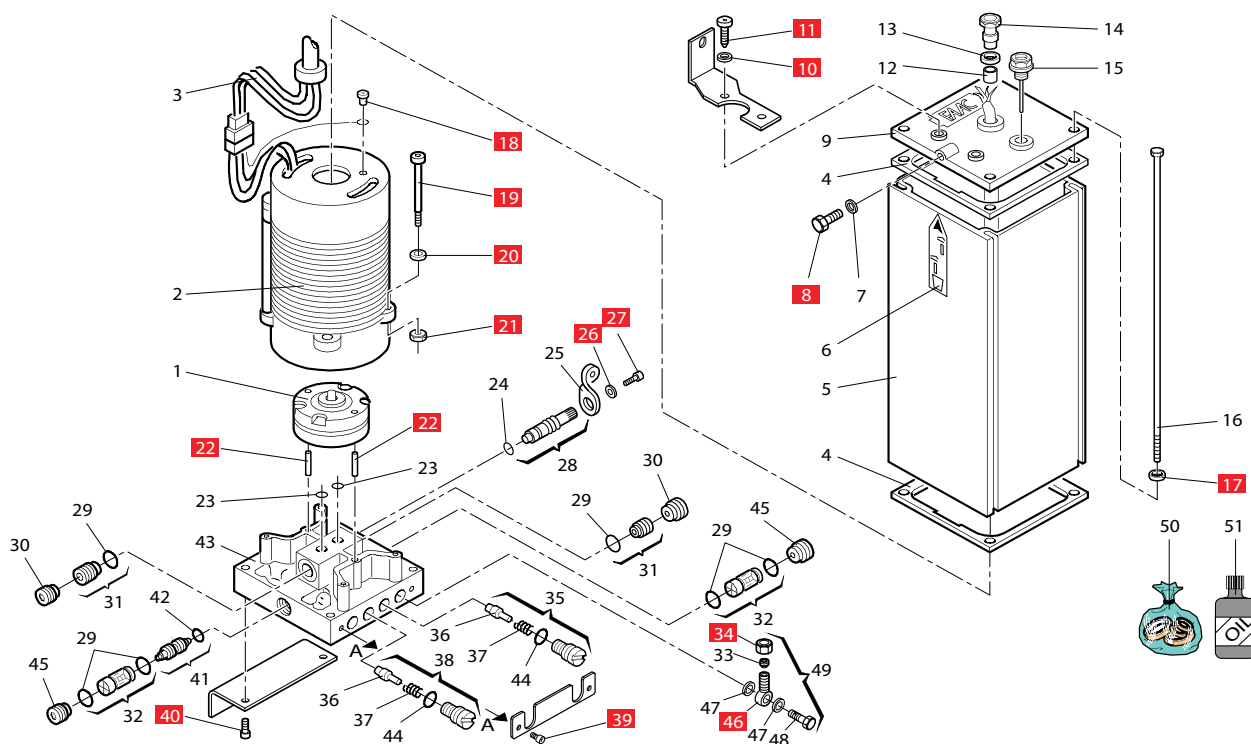
750 Drive Unit



Part	Part Number	Description	List Price
01	701384	Bolt M 10x25	n/a
02	7094375	Bonded Seal Washer	\$4
03	7092025	Piston Ring	\$12
04	7350155	Piston	\$44
05	7193055	100 Degrees Rack	\$112
06	7090240015	O-Ring 26.70 x 1.78 mm	\$4
07	7099195	Cylinder Gasket	\$5
08	3907495	Bushing Group Bottom	\$107
09	63000196	O-Ring 50.47 x 2.62 mm	n/a
10	7092025	Piston Seal	\$18
11	7192465	Pinion	\$139
12	3907485	Bushing Group Top	\$107
13	7095075	Gasket	\$20
14	7093225	Dust Cover	\$25
15	7309095	Splined Joint Collar	\$33
16	7280445	Cover Plate	\$4
17	7270415	Foundation Box Lid	\$71
18	701415	Self Tapping Screw 3.9 x 9.5 SS	n/a
19	703106	Lock Washer SS	n/a
20	7223205	Half Box	\$42

Part	Part Number	Description	List Price
21	7011085	Bolt 750 Drive Body 8 x 100 mm	\$9
22	703108	Lock Washer	n/a
23	7366245	Cylinder 750 Drive 100 Degree	\$76
24	7090170015	O-Ring 66.40 x 1.78 mm	\$4
25	7170285	Left Side Flange	\$45
26	7246025	Bleeding Valve	\$6
27	7110045	Cap For Bleeding Valve	\$3
28	7011345	Mounting Bolt 8 x 105 mm	\$7
29	390700	Elbow Kit	\$28
30	7102055	Ferrule Fitting	\$4
32	7049195	O-Ring	\$26
33	7287515	Leveling Plate	\$85
34	701217	Leveling Screw Stainless Steel	\$17
35	7170275	Right Side Flange	\$45
36	7161745	Body	\$210
37	39050915	Skin Pack Drive Unit	\$38
38	2171.1	Seal Kit Drive Unit	\$90
39	714019 Qt.1	FAAC Oil: 1 qt.	\$24

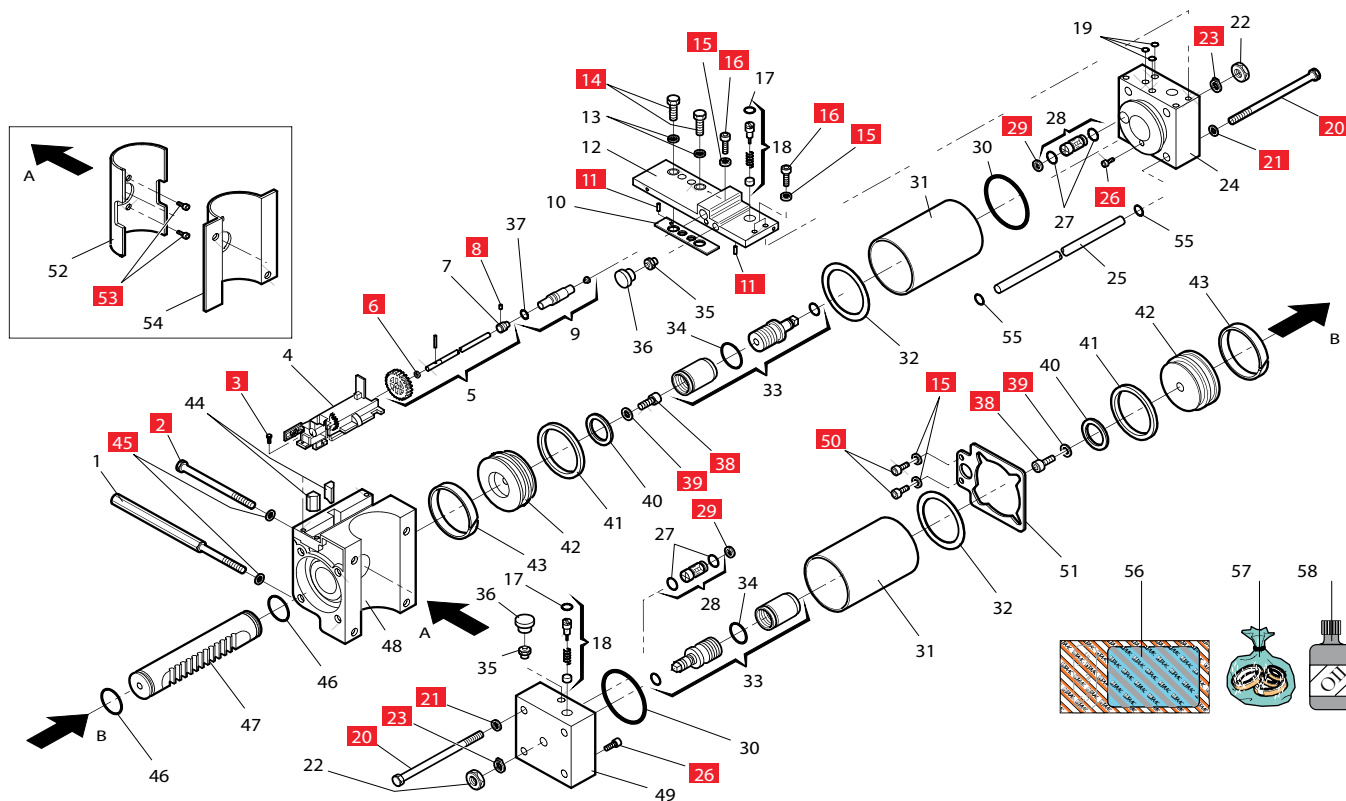
750 CBAC Pump



Part	Part Number	Description	List Price
01	3204385	Lobe Pump 0.75 Lt	\$183
02	77000425	115V 1400 rpm Motor	\$194
03	7514125	Motor Power Cable	\$57
04	7099315	Flange Gasket	\$6
05	7450115	Body (Pump Housing)	\$71
06	7320065	Vent Screw Label	n/a
07	7094065	Copper Washer 7x4x1 mm	\$3
08	2274	Screw 4x8 mm	\$5
09	7270535	Upper Flange Pump Unit	\$31
10	703103	Lock Washer	n/a
11	701755	Screw 6x10 mm	n/a
12	7109235	Strain Relief Kit	\$21
13			
14			
15	7112055	Filler Cap	\$5
16	7019145	Tie Rod	n/a
17	703204	Star Washer	n/a
18	2274	Screw 4x8 mm	\$5
19	2365	Motor Bolt 4x50 mm	\$5
20	2366	Lock Washer 4mm	\$4
21	2367	Nut 4 mm	\$4
22	706122	Pin Pump 4x28 mm	n/a
23	7090010015	O-Ring 4.48 x 1.78 mm	\$3
24	7090030015	O-Ringr 6.75 x 1.78 mm	\$3
25	7290155	Manual Release Lever	\$6

26	703013	Washer	n/a
27	701039	Allen Bolt 4x6 mm	n/a
28	4180225	Manual Release	\$21
29	7090050015	O-Ring 10.82 x 1.78 mm	n/a
30	7049135	Valve Retaining Ring Nut	\$4
31	4404065	Inlet Valve	\$6
32	4404085	Lock Valve	\$8
33	7102055	Ferrule Fitting	\$4
34	702901	Nut M12x1	n/a
35	4180395	Brass By-Pass Cap, Plug and Spring	\$9
36			
37			
38			
39	701497	Self Tapping Screw 2.9x6.5 SS	n/a
40	701028	Screw Sock.Hea. 5x8 mm	n/a
41	4180285	Shuttle Piston	\$19
42	7090440015	O-Ring 7.66x1.78 mm	\$3
43	499445	Distribution Flange	\$211
44	7090150015	O-Ring 9.25x1.78 mm	\$3
45	7049005	Brass Valve Retaing Ring	\$5
46	710920	Banjo Bolt	n/a
47	7039285	Washer	n/a
48	7110115	Fitting	n/a
49	390700	Banjo Bolt Kit	\$36
50	2170.1	Seal Kit Pump Unit	\$85
51	714019 Qt.1	FAAC Oil: 1 qt.	\$24

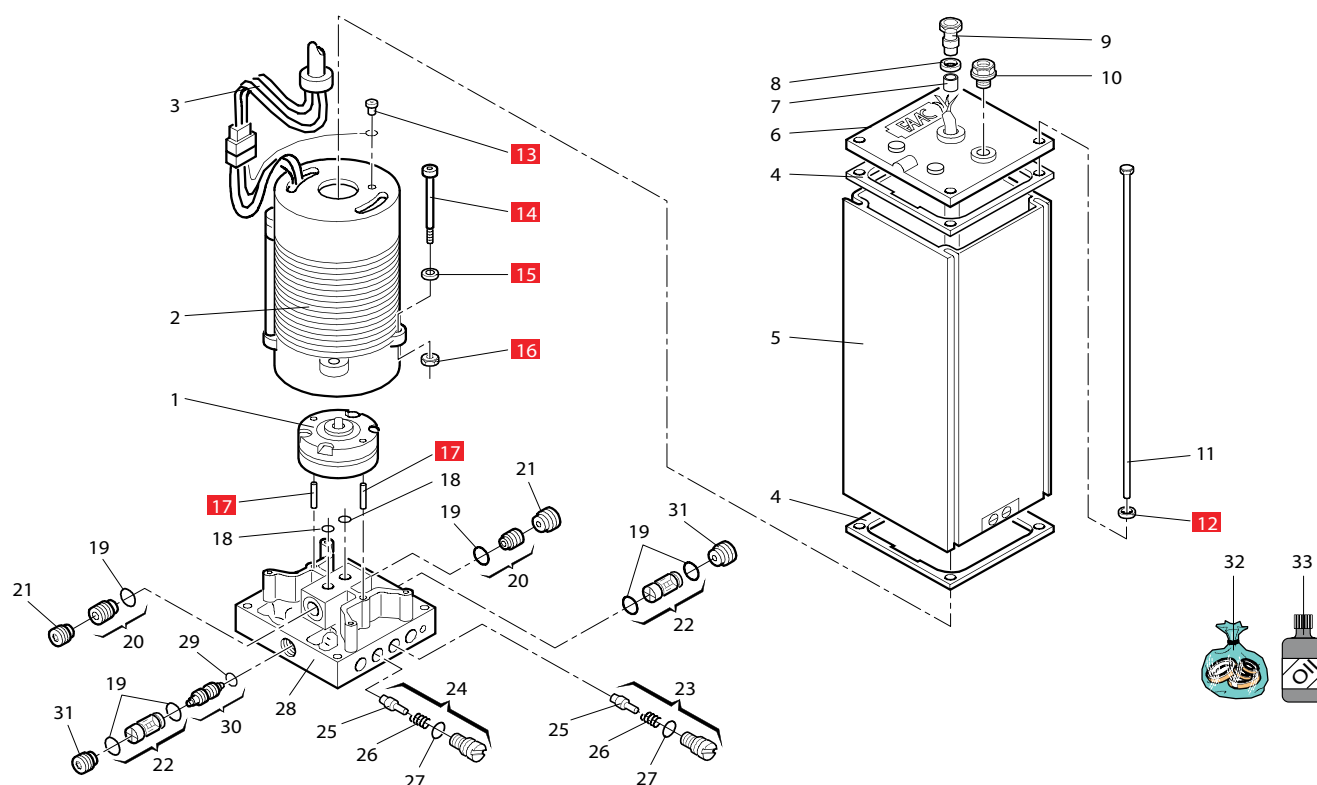
760 Drive Unit



Part	Part Number	Description	List Price
01	7019345	Mounting Bolt (Bottom)	\$20
02	7011345	Mounting Bolt (Top)	\$7
03	7014801	Stainless Steel Screw 4x12 mm	n/a
04	7201295	Manual Release Housing	\$15
05	4246385	Manual Release Rod	\$37
06	704026	Snap Ring	n/a
07	7182565	Manual Release Rod End	n/a
08	706915	Retaining Pin	n/a
09	4180295	Manual release	\$23
10	7099595	Gasket (Manifold)	\$23
11	n/a	Parallel Pin	n/a
12	499762	Manifold	\$168
13	7039285	Copper Washer	\$4
14	7110115	Banjo Bolt	\$10
15	703122	Lock Washer	n/a
16	7010881	Allen Head Bolt 6x20 mm	n/a
17	7090150015	O-Ring 9.25 x 1.78 mm	\$3
18	4180265	Brass By-Pass Cap (Brake)	\$23
19	7090010015	O-Ring 4.48 x 1.78 mm	\$3
20	7011355	Flange Bolt Stainless Steel 10x150	\$10
21	703123	Lock Washer	n/a
22	702502	Jack Counter Nut Brass Jam Nut	n/a
23	704027	Snap Ring	n/a
24	499760	Flange (Manifold Side)	\$456
25	7361365	Retract Tube	\$25
26	701367	Allen Head Screw 5 x 10 mm	n/a
27	7090050015	O-Ring 10.82 x 1.78 mm	n/a
28	4404085	Lock Valve	\$9
29	704104	Snap Ring	n/a
30	7090490025	O-Ring 64.77 x 2.62 mm	\$4

Part	Part Number	Description	List Price
31	7366135	Cylinder	\$110
32	7099585	Gasket (Cylinder)	\$6
33	7350275	Brake Group	\$43
34	7090160015	O-Ring 20.35 x 1.78 mm	n/a
35	7246025	Air Drain Valve	\$6
36	7110045	Cap	\$3
37	7090280015	O-Ring 5.28 x 1.78 mm	\$3
38	701087	Allen Head Bolt 8 x 20 mm	n/a
39	703002	Lock Washer	n/a
40	7094115	O-Ring Inner Piston	\$15
41	7092025	Piston Seal	\$18
42	7350275	Piston	\$43
43	7049195	Piston Seal (Inner)	\$26
44	7119485	Vibration Dampener	\$4
45	703114	Lock Washer SS	n/a
46	7090380025	O-Ring 29.82 x 2.62 mm	\$4
47	7193205	Rack	\$135
48	7160505	Ram Body	\$125
49	499761	Flange (Non-Manifold)	\$436
50	701822	Screw M5x12 Torx T20	n/a
51	7224215	Bracket (Pump to Drive)	\$7
52	7099575	Gasket (Drive to Box)	\$9
53	701484	Self Tapping Screw 4x6 mm	n/a
54	7276015	Rack Protecting Cover	n/a
55	7090665	O-Ring (Retracting Tube)	\$4
56	3905515	Skin Pack	\$96
57	2176.1	Seal Kit Drive Unit	\$194
58	714019 Qt.1	FAAC Oil: 1 qt.	\$24

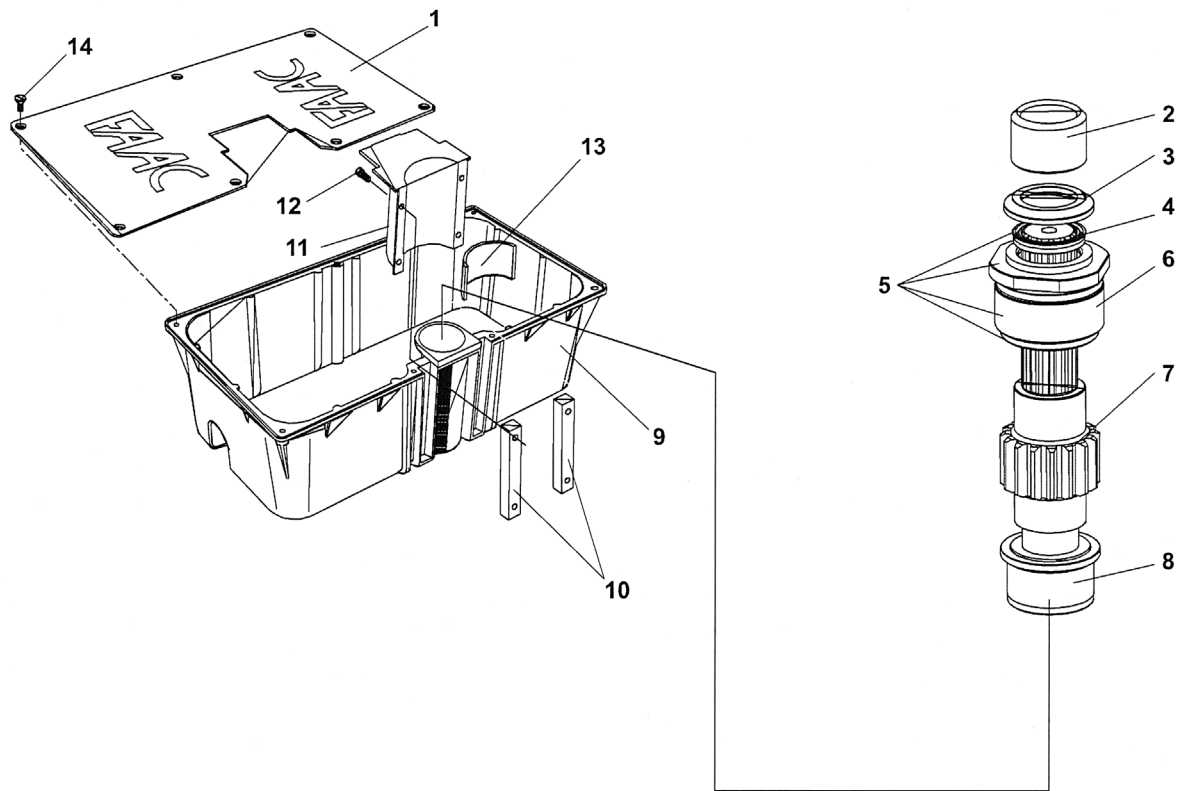
760 CBAC Pump



Part	Part Number	Description	List Price
01	3204435	Lobe Pump 0.75 lt.	\$183
02	77000425	115V 1400 rpm Motor	\$194
03	7514125	Electric Power Cord	\$57
04	7099315	Flange Gasket	\$6
05	7450115	Body (Pump Housing)	\$71
06	7276025	Flange (Upper)	\$28
07	7109235	Strain Relief Kit	\$21
08			
09			
10	7110015	Filler Cap	\$3
11	7230385	Tie Rod Pump (760)	\$10
12	703217	Star Washer Stainless Steel	n/a
13	2274	Vent Screw 4 x 8mm	\$5
14	2365	Motor Bolt 4 x 50mm	\$4
15	2366	Lock Washer (4mm)	\$4
16	2367	Hex Nut (4mm)	\$4
17	706152	Pump Pin (4mm x 28mm)	n/a
18	7090010015	O-Ring 4.48 x 1.78	\$3

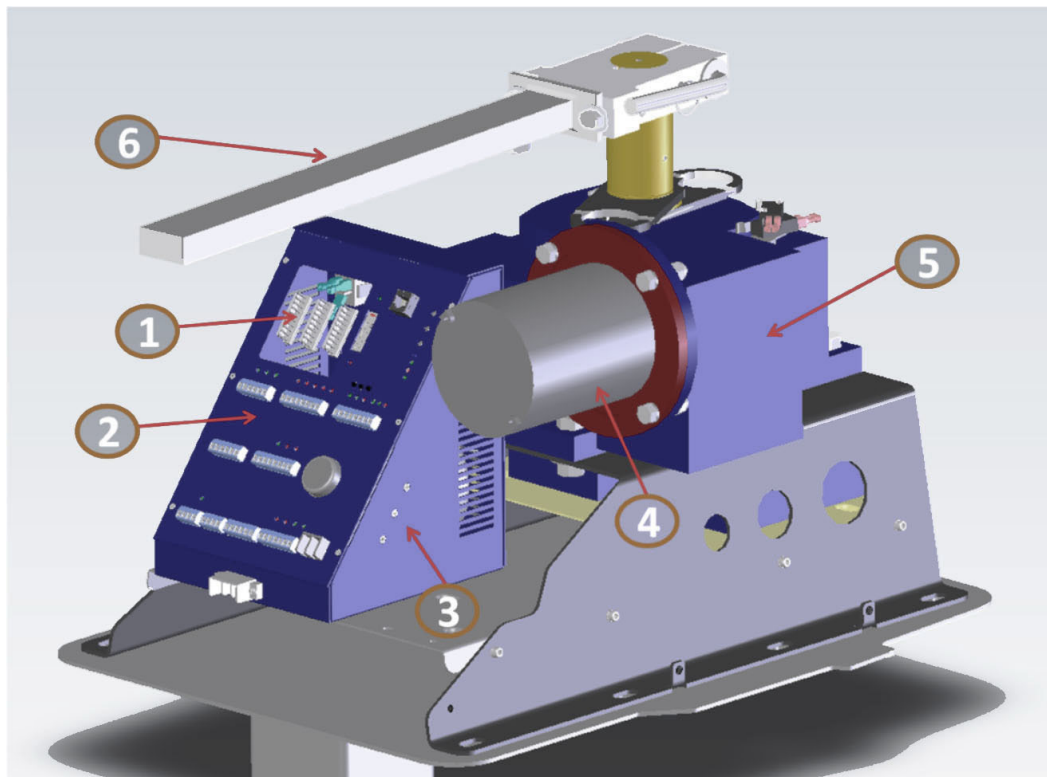
Part	Part Number	Description	List Price
19	7090050015	O-Ring 10.82 x 1.78	n/a
20	4404065	Inlet Valve	\$6
21	7049135	Valve Retainer	\$4
22	4404085	Lock Valve	\$9
23	4180395	Brass By-Pass Cap, Plug and Spring	\$9
24			
25			
26			
27	7090150015	O-Ring 9.25 x 1.78 mm	\$3
28	4994075	Distribution Flange	\$183
29	7090300015	O-Ring 7.66 x 1.78 mm	n/a
30	4180285	Shuttle Piston	\$19
31	7049005	Valve Retainer (Brass)	\$5
32	2170.1	Seal Kit	\$85
33	714019 Qt.1	FAAC Oil: 1 qt.	\$24

760 Load Bearing Box

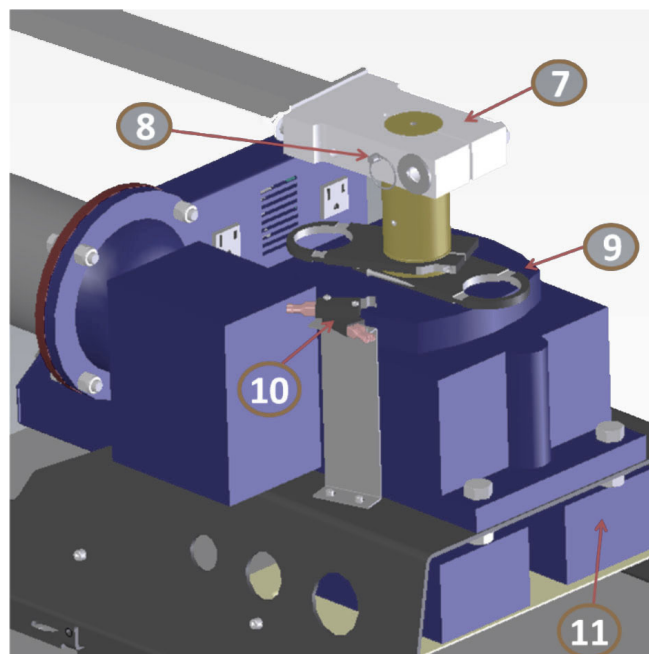


Part	Part Number	Description	List Price
01	7276005	Load Bearing Box Cover	\$135
02	7309095	Splined Collar	\$32
03	7093225	Dust Cover	\$25
04	7095075	Seal (Top)	\$20
05	3907535	Bushing Group upper 760	\$126
06	7090765	O-Ring Upper Bushing	\$7
07	7192475	RAM Pinion New Style '05	\$160
08	3907525	Bushing Group Lower 760	\$91
09	4900985	Load Bearing Box	\$539
10	7280885	Mounting Bar	\$44
11	722419	Protective Cover for Gear	n/a
12	701021	Screw 8x35	n/a
13	7099575	Gasket	\$9
14	701752	Screw Box Cover	n/a

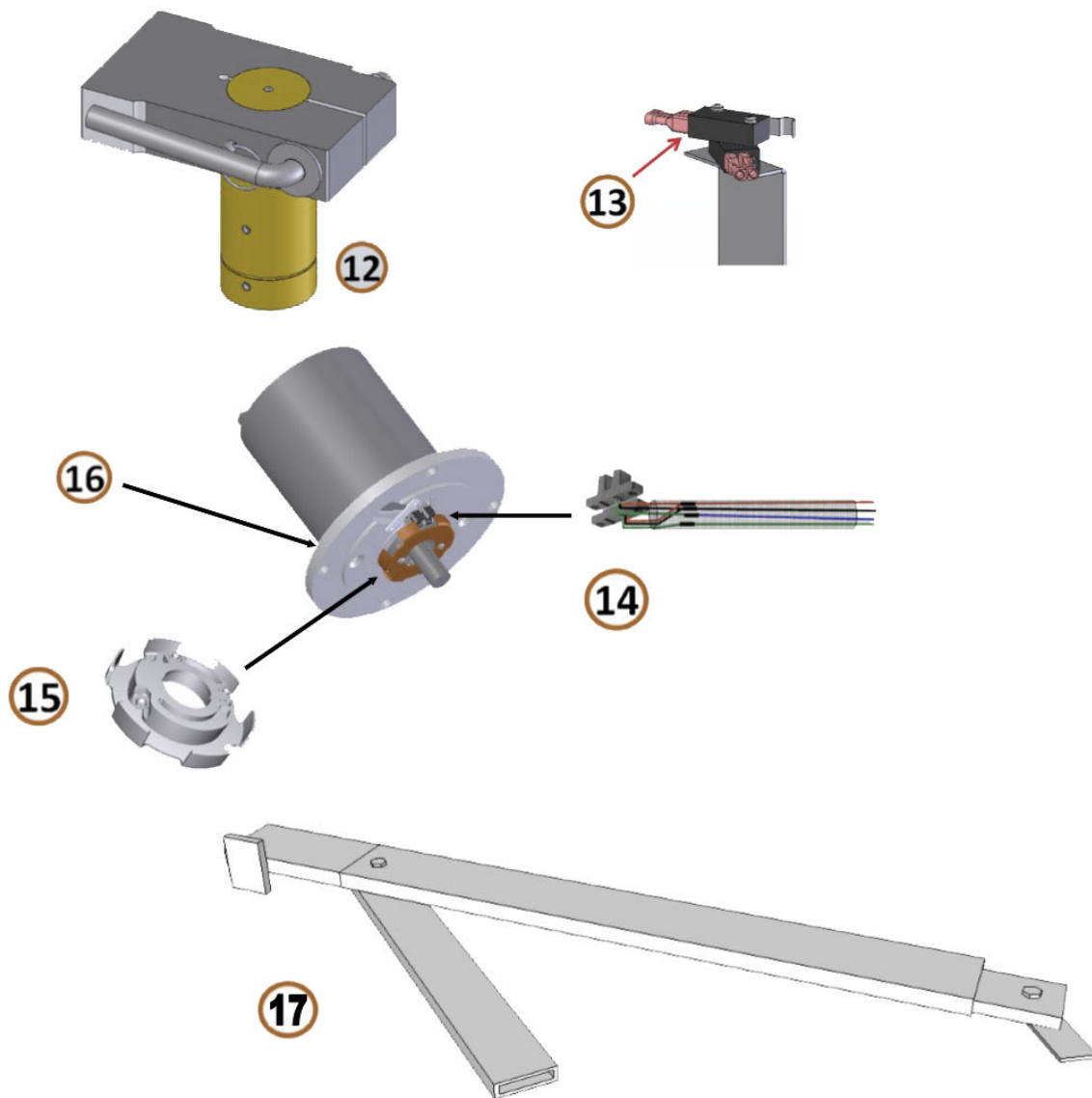
FSW 900



Part	Part Number	Description	List Price
01	GC3101	Controller PCB with Heat Sink	\$518
02	GC3100	Controller PCB, Heat Sink and Faceplate Assembly	\$589
03	GC3000	Controller Assembly (No PCB, Faceplate)	\$1,178
04	Motor-0500-24	Motor - 500W, 24DC	\$177
05	SW-0020	Gearbox 900:1	\$825
06	SW-004	Weld Arm Connector with 12" Bar	\$153
07	SW-003	Swing Arm Connector	\$130
08	SW-0011	Clutch Alignment Pin	\$12
09	SW-0010	Swing Limit Cam	\$11
10	SW-1000	Limit Assembly Kit	\$48
11	3540	Battery (single)	\$68

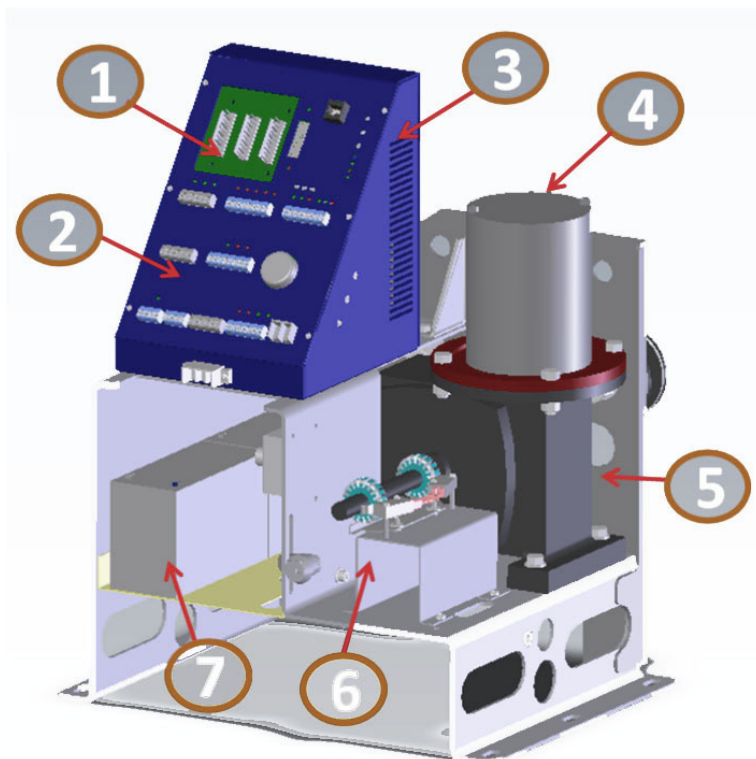


FSW 900

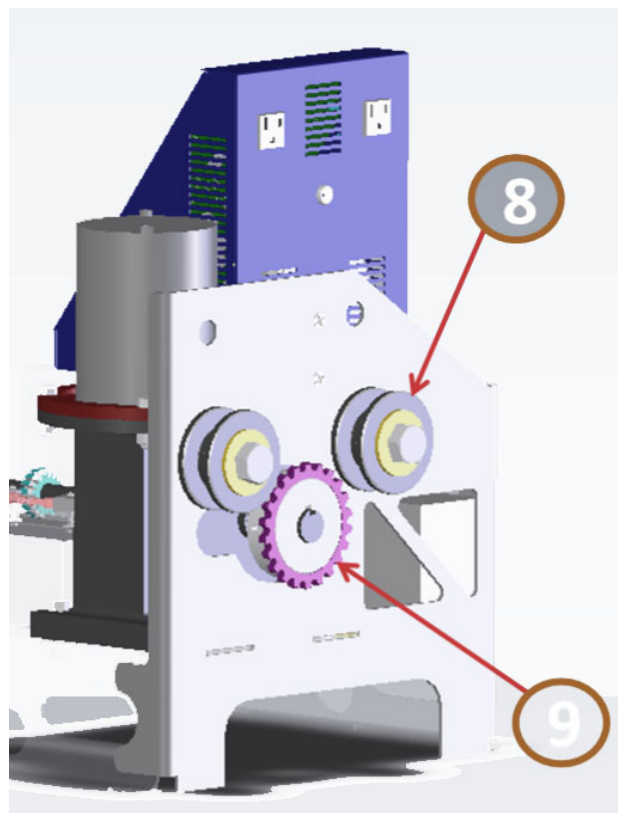


Part	Part Number	Description	List Price
12	SW-0001	Clutch Assembly Kit	\$169
13	Switch-0100	Limit Switch	\$9
14	Wire 1101SK	Sensors Wire Assembly with Screws	\$59
15	AAA0450	Sensor Cup Assembly	\$18
16	AAA-0402	Motor Adapter Plate	\$82
17	SW-0200	Swing Arm Assembly	\$137

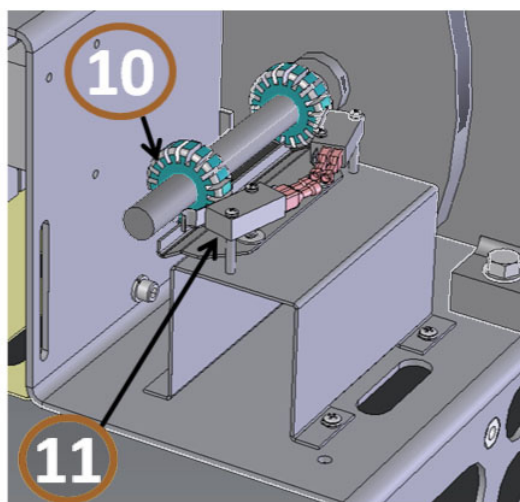
FSL 700



Part	Part Number	Description	List Price
01	GC3101	Controller PCB with Heat Sink	\$518
02	GC3100	Controller PCB, heat Sink and Faceplate Assembly	\$589
03	GC3000	Controller Assmbly (No PCB, Faceplate	\$1,178
04	Motor-0500-24	Motor - 500W, 24VDC	\$177
05	SL-0020	Gearbox 15:1	\$554
06	SL-1000	Limit Stand Assembly with Switches	\$62
07	3540	Battery (Single)	\$68
08	SL-1001	Chain Idler Assembly	\$36
09	SL-002	Chain Sprocket	\$41



FSL 700



Part	Part Number	Description	List Price
10	SL-0010	Limit Nut	\$4
11	Switch-0100	Limit Switch	\$9
12	AAA0450	Sensor Cup Assembly	\$18
13	Wire1101SK	Sensors Wire Assembly with Screws	\$59
14	AAA-0402	Motor Adapter Plate	\$82

Limited Warranty

To the original purchaser only: FAAC International, Inc., warrants for the time period indicated in each product's description (or product title page) from the date of invoice, the gate operator systems and other related systems and equipment manufactured by FAAC S.p.A. and distributed by FAAC International, Inc., to be free from defects in material and workmanship under normal use and service for which it was intended provided it has been properly installed and operated. FAAC International, Inc.'s obligations under this warranty shall be limited to the repair or exchange of any part or parts manufactured by FAAC S.p.A. and distributed by FAAC International, Inc. Defective products must be returned to FAAC International, Inc., freight prepaid by purchaser, within the warranty period. Items returned will be repaired or replaced, at FAAC International, Inc.'s option, upon an examination of the product by FAAC International, Inc., which discloses, to the satisfaction of FAAC International, Inc., that the item is defective. FAAC International, Inc. will return the warranted item freight prepaid. The products manufactured by FAAC S.p.A. and distributed by FAAC International, Inc., are not warranted to meet the specific requirements, if any, of safety codes of any particular state, municipality, or other jurisdiction, and neither FAAC S.p.A. nor FAAC International, Inc., assumes any risk or liability whatsoever resulting from the use thereof, whether used singly or in combination with other machines or apparatus.

Any products and parts not manufactured by FAAC S.p.A. and distributed by FAAC International, Inc., will carry only the warranty, if any, of the manufacturer. This warranty shall not apply to any products or parts thereof which have been repaired or altered, without FAAC International, Inc.'s written consent, outside of FAAC International, Inc.'s workshop or altered in any way so as, in the judgment of FAAC International, Inc., to affect adversely the stability or reliability of the product(s) or has been subject of misuse, negligence, or accident, or has not been operated in accordance with FAAC International, Inc.'s or FAAC S.p.A.'s instructions or has been operated under conditions more severe than, or otherwise exceeding, those set forth in the specifications for such product(s). Neither FAAC S.p.A. nor FAAC International, Inc., shall be liable for any loss or damage whatsoever resulting, directly or indirectly, from the use or loss of use of the product(s). Without limiting the foregoing, this exclusion from liability embraces a purchaser's expenses for downtime or for making up downtime, damages for which the purchaser may be liable to other persons, damage to property, and injury to or death of any persons. Neither FAAC S.p.A. nor FAAC International, Inc., assumes nor authorizes any person to assume for them any other liability in connection with the sale or use of the products of FAAC S.p.A. or FAAC International, Inc. The warranty hereinabove set forth shall not be deemed to cover maintenance parts, including, but not limited to hydraulic oil, filters, or the like. No agreement to replace or repair shall constitute an admission by FAAC S.p.A. or FAAC International, Inc., of any legal responsibility to effect such replacement to make such repair, or otherwise. This limited warranty extends only to wholesale customers who buy directly through FAAC International, Inc.'s normal distribution channels. FAAC International, Inc., does not warrant its products to end consumers. Consumers must inquire from their selling dealer as to the nature and extent of that dealer's warranty, if any.

This warranty is expressly in lieu of all other warranties expressed or implied including the warranties of merchantability and fitness for use. This warranty shall not apply to products or any part thereof which have been subject to accident, negligence, alteration, abuse, or misuse or if damage was due to improper installation or use of improper power source, or if damage was caused by fire, flood, lightning, electrical power surge, explosion, wind storm, hail, aircraft or vehicles, vandalism, riot or civil commotion, or acts of God.

Terms of Sale

Important Notice

Prices shown in this list are based on the availability of items when the price list was printed. Prices are subject to change without notice. A minimum billing charge of \$25.00 net plus shipping cost will be billed for all orders received. Whenever possible, we suggest that you combine orders for all parts to surpass the minimum cost. Product delivery time is subject to product availability. We are not responsible for any damages caused by a delay in shipping or product availability.

Pricing

All quoted prices for products are discounted according to the list price provided in our most current pricing manual. Discounts quoted do not apply to special order items. Contact the factory for Dealer/Distributor pricing on special orders.

Credit Terms

We are pleased to offer one of the most generous discount terms available in the industry.

Our credit terms are net 30 days. Credit terms apply only to open accounts in good standing and only to merchandise. Balances remaining unpaid after the 30th day are subject to a 1.75% per month finance charge. This is an annual cost to you of 21%. We compute the finance charge by applying the 1.75% rate to the amount of the invoice past due for every month it is past due. The balance of your account is determined by taking the balance you owed at the end of the previous billing cycle and subtracting all payments and credits received during the current billing cycle. Accounts past due forty-five (45) days will be placed on credit hold until the account is brought up-to-date. Accounts over sixty (60) days past due that have no payment arrangements will be considered delinquent and subject to collection remedies. The dealer/distributor will be responsible for all collection expenses. A current signed credit application must be provided before an account is opened, subject to credit approval.

Delivery

All prices are quoted F.O.B. our factory. The purchaser is obligated to submit claims for damages or shortages of freight directly to the freight carrier within 30 days when due to carrier neglect.

Material Returned for Credit or Repair

Goods may be returned for credit or exchange under certain conditions. You must contact the factory for instructions and an authorization number. Merchandise returned for credit must be current models, unused, and uninstalled - in new condition. Freight must be prepaid on all authorized returns to FAAC International, Inc. The repair or replacement of product and parts is subject to availability, and repair time is not guaranteed. We may have loaner operators available, and they are subject to rental charges. All damages to loaner operators are the responsibility of the Dealer/Distributor. Repaired or replaced parts carry a 90-day warranty. A 15% restocking charge will be applied to goods returned for credit. Goods returned for repair will be handled immediately when the following conditions exist:

1. Name and address of sender are enclosed with material.
2. The authorization number is clearly visible on the exterior of each package returned.
3. A brief description of the problem and the requested repair is included with the shipment.

We will not be responsible for poorly packaged equipment. Shipments of 70 lb or less should be shipped via United Parcel Service.



Headquarter & East Coast Operations
FAAC International Inc.
3160 Murrel Rd.
Rockledge, FL 32955
Tel. 800 221 8278
Tel. 904 448 8952
Fax 904 448 8958