

RESIDENTIAL
CONDOMINIUM
INDUSTRIAL

400

Hydraulic Swing Gate Operator

maximum leaf width

12-20 ft

maximum leaf weight

900-2000 lb



- 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
- Key protected manual release
- Compliant with UL325 for Class I,II,III, and IV applications



TECHNICAL SPECIFICATIONS

Model	400 CBC	400 CBAC	400 SB	400 SBS	400 CBACR	400 CBAC EG	400 SB EG
Input voltage	115 VAC (+10% -6%) or 230 VAC (+6% -10%)						
Power	220 W						
Current	2A (115V) - 1 A (230V)						
Motor	Asynchronous single phase						
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)	40.5 x 4.4 x 3.3 in (1,031x113x85 mm)					50.6 x 4.4 x 3.3 in (1,285x113x85 mm)	
Hydraulic Locking							
(1) = Closing	(1)	(2)	None	None	(2)	(2)	None
(2) = Opening and Closing							
Minimum Leaf Length	6ft (1.8m)	6ft (1.8m)	6ft (1.8m)	7.5ft (2.3m)	6ft (1.8m)	6ft (1.8m)	6ft (1.8m)
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	1 l/m	1 l/m	1 l/m	0.75 l/m	1.5 l/m	1.5 l/m	1.5 l/m
90° opening time	approx. 18 sec	approx. 18 sec	approx. 18 sec	approx. 24 sec	approx. 12 sec	approx. 18 sec	approx. 18 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

NOTE

- 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

RESIDENTIAL

S418

Electromechanical swing gate operator

maximum leaf width

10-16 ft

maximum leaf weight

720 lb



- Sleek design
- Built-in opening and closing mechanical stops
- Effective stroke of 13.8 in. (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
- Compliant with UL325 for Class I,II,III and IV applications



TECHNICAL SPECIFICATIONS

Input Voltage	24 Vdc
Max Power	35 W
Maximum thrust	404 lbf (180 daN)
Rod stroke	13.8 in (350 mm)
Rod stroke without mechanical stops	15.3 in (390 mm)
Minimum time to open 90°	10 sec
Operating ambient temperature	-4°F - 131°F (-20°C - +55°C)
Max leaf opening angle	110°
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

Gate Length	Max Gate Weight
10 ft (3.0 m)	up to 720 lb (326 kg)
12 ft (3.7 m)	up to 500 lb (227 kg)
14 ft (4.3 m)	up to 370 lb (168 kg)
16 ft (4.9 m)	up to 280 lb (127 kg)

NOTE

- 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

Electromechanical swing gate operator

maximum leaf width

15 ft

maximum leaf weight

700 lb



- "In-axis" thrust operator.
- Built in Limit switches.
- Die-cast aluminum 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
- Compliant with UL325 for Class I,II,III and IV applications



TECHNICAL SPECIFICATIONS

Input Voltage	24 Vdc
Power	70 W
Thrust	630 lbf (280 daN)
Effective stroke	15.75 in (400 mm)
Minimum time to open 90°	16 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

NOTE

- 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

Hydraulic Swing Gate Operator

maximum leaf width

12-14 ft

maximum leaf weight

1000 lb



- Hybrid technology
- Integrated encoder to control operator position
- Useful stroke 12.2 in (311 mm)
- New “multi-position” bracket for non-welded applications
- Built-in opening and closing mechanical stops
- Maximum safety thanks to the E024U control board reverse on contact feature
- Built in battery backup to ensure operation in case of power outage
- Compliant with UL325 for Class I,II,III and IV applications

TECHNICAL SPECIFICATIONS

Model	S450H CBAC	S450H SB
Input voltage		24 Vdc
Power		60 W
Max Thrust		1124 lbf (500 daN)
Rod stroke		12.2 in (311 mm)
Minimum time to open 90°		12 sec
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

NOTE

- 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).

Hydraulic Swing Gate Operator

maximum leaf width

10

maximum leaf weight

900 lb



- Entry level hydraulic operator for residential application
- Compact design, ideal for tight space installations
- Hydraulic lock of the gate in closed positions
- Quiet operation
- Self lubricating for long life
- UL 325 Compliant

TECHNICAL SPECIFICATIONS

Input voltage	115 VAC (+10% -6%) or 230 VAC (+6% -10%)
Power	220 W
Current	2A (115V) - 1 A (230V)
Motor	Asynchronous single phase
Rod stroke	9.8 in (250 mm)
90° opening time	approx. 12 sec
Pump flow rate	1 l/min
Thrust force	1124 lbf (500 daN)
Leaf minimum width	5ft (1.5 m)
Leaf maximum width	10ft (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)

NOTE

- 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

Hydraulic Swing Gate Operator

maximum leaf width

10 ft

maximum leaf weight

900 lb



- 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
- Compliant with UL325 for Class I,II,III, and IV applications

TECHNICAL SPECIFICATIONS

Input voltage	115 VAC (+10% -6%) or 230 VAC (+6% -10%)
Power	220 W
Current	2A (115V) - 1 A (230V)
Motor	Asynchronous single phase
Rod stroke	9.8 in (250 mm)
90° opening time	approx. 12 sec
Pump flow rate	1 l/min
Thrust force	1124 lbf (500 daN)
Leaf minimum width	5ft (1.5 m)
Leaf maximum width	10ft (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	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)

NOTE

- 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

770

In-ground electromechanical operator

maximum leaf width

11 ft

maximum leaf weight

1100 lb



- Invisible operator
- Access the operator without removing the leaf
- Protection class IP 67
- Non reversible design
- 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
- Compliant with UL325 for Class I,II,III and IV application

TECHNICAL SPECIFICATIONS

Input Voltage	24 Vdc
Power	70 W
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	11 ft (3.5 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

NOTE

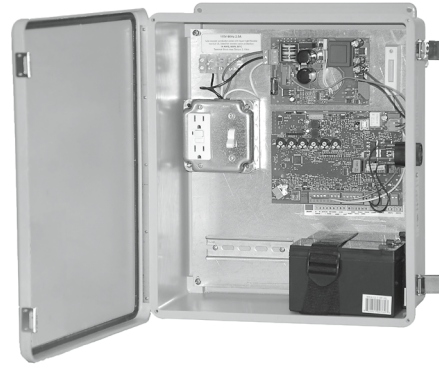
- Mounting dimensions, wind factor and gate design will affect performance specification
- Use frequency is measured at an ambient temperature of 72 °F (20 °C) . Temperature variation will affect it.
- An electric or magnetic lock is recommended for any gate longer than 12 ft (3.6 m).

E024U

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 switches
- 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

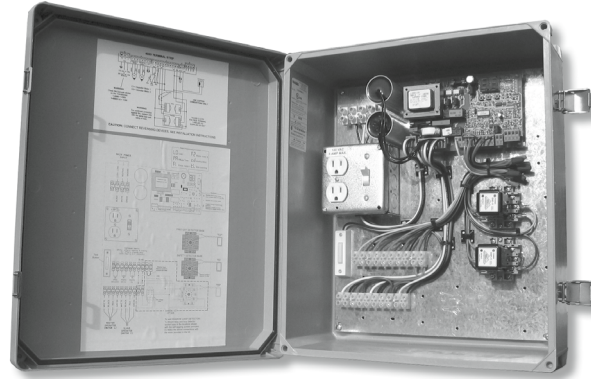


TECHNICAL SPECIFICATIONS

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

455D

115VAC / 230VAC Control Board for Swing Gate Operators



- Operates a single leaf or bi-parting gate
- Programmable opening and closing slow down
- Eight 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 (pre new UL version 7)		115V	790919	\$944
		230V	790926	\$944
455D Control Board Replacement (post new UL version 7)		115V	790944	\$924
		230V	790945	\$924
455D with 14 x 16 in. fiberglass enclosure	25 lb (11.3 Kg)	115V	455D115F.5	\$1,548
		230V	455D220F.5	\$1,548
455D with 20 x 16 in. metal enclosure	35 lb (15.8 Kg)	115V	455D115A.5	\$1,833
		230V	455D220A.5	\$1,833
Fiberglass enclosure 14 x 16 in. prewired (without 455D board)	25 lb (11.3 Kg)	115V	3300	\$727
		230V	3303	\$727
Fiberglass enclosure 10 x 12 in. with backplate	10 lb (4.5 Kg)		2359	\$318

844 ER

Slide gate operator

max weight

4000 lb



Intertek



- 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.
- Magnetic limit switch.
- Adjustable mounting bracket for flexible positioning.
- Simplified programming via display and pushbuttons
- Compliant with UL325 for Class I,II,III and IV applications

TECHNICAL SPECIFICATIONS

Model	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	0.63 ft/second (0.19 m/second)	0.78 ft/second (0.24 m/second)
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	

B614

Automatic barrier 24V

maximum lane
opening width

12 ft

opening time


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- Maximum anti-crushing safety with motor and integrated encoder
- Speed adjustment and smooth operation
- Integrated control unit allows for easy maintenance and intuitive programming



Intertek

TECHNICAL SPECIFICATIONS

Power supply voltage	115 Vac \pm 10% ~ 50/60 Hz
Electric motor	24V  brushed
Max. power	165 W
Max. torque	300 Nm
Material	Steel
Surface treatment	Pre-hot dip galvanized, 20 μ m thick + polyester powder coated
Encoder	Incremental integrated in the motor
Deceleration type	Electronic + mechanical
Operating ambient temperature	-4°F - 131°F (-20°C - +55°C)
Weight	88 lb (40 Kg)
Barrier body treatment	100 micron epoxy zinc-plating anti-corrosion treatment + paint
Protection class	IP55 (Electronic control unit) - IP44
Type of barrier arm	Rectangular with rubber edge and optional lights

E614 CONTROL BOARD TECHNICAL SPECIFICATIONS

Max motor load	150 W
Accessories power supply	24 Vdc
Max accessories load	500 mA
Programming	LED display and buttons
Operating logic	EP - A - AP - B - BC - C - P
Operating ambient temperature	- 4°F - 131°F (-20°C - +55°C)
Protection fuses	1 (2.5A) + self-resetting fuses
Work time	Programmable (from 0 to 9.5 min)
Pause time	Programmable (from 0 to 9.5 min)
Motor power	Programmable on 50 levels
Barrier arm speed	Programmable on 10 levels
Terminal board inputs	Loop 1, Loop 2, Open, Close, Stop, Emergency, Power Supply, Battery XBAT
Connector inputs	Encoder, Bar release sensor, Integrated flashing light, USB (for updating firmware)
Terminal board outputs	Flashing lamp 24V, Motor, Accessories power supply 24 VDC, 4 programmable outputs (one with relay)

CONDOMINIUM
RESIDENTIAL
INDUSTRIAL

maximum lane
opening width

6.5-26.2 ft

opening time

1.5-6 s



B680H

Automatic barrier



- Hybrid technology: Hydraulic + Brushless motor
- Over 2,000,000 continuous use cycles without special maintenance
- Optional battery back-up
- Advantage of modular items: only one barrier model and two springs for sectional barrier arms measuring 7.5 to 27.2 ft, right or left version and for different speeds
- Removable covers available in 4 colors or stainless steel
- Opening speed (programmable): from 1.5 seconds for 7.5 ft barrier arms up to 6 seconds for 27.2 ft barrier arms.
- Easy-to-program and technologically advanced control unit: Integrated encoder (with reverse in the event of obstacle), two integrated Loop Detectors, and Master/Slave logic
- Optional: integrated flashing LED traffic light with anti-vandalism system and LED lights for barrier arm
- Compatible with 620 and 640 foundation plate

TECHNICAL SPECIFICATIONS

Power supply voltage	Switching: 100 to 240 Vac 50 (60) Hz
Electric motor	Brushless 36 Vdc
Absorbed power	240 W
Absorbed current	1.1 A (at 230 V)
Motor rotation speed	1,000 to 6,000 r.p.m.
Pump flow rate	3,2 l/min (max)
Electronic deceleration	Absolute magnetic encoder
Operating ambient temperature	-4°F - 131°F (-20°C - +55°C)
Weight	187 lb (143 lb body + 44 lb cover)
Type of oil	FAAC HP OIL
Barrier body treatment	100 micron epoxy zinc-plating anti-corrosion treatment + paint
Protection class	IP56 (TÜV certified)
Type of barrier arm	Round with safety edge and optional lights

E 680 CONTROL BOARD TECHNICAL SPECIFICATIONS

Max motor load	240 W
Accessories power supply	24 Vdc
Max accessories load	800 mA
Operating ambient temperature	- 4°F - 131°F (-20°C - +55°C)
Protection fuses	4 self-resetting
Pause time	Programmable (from 0 to 4.1 min)
Motor power	Programmable on 50 levels
Motor speed	Programmable on 50 levels
Terminal board inputs	Loop 1, Loop 2, Open, Close, Safety during closing, Stop, Emergency, Power Supply, 36VDC, Battery XBAT, BUS 2-Easy
Connector inputs	Encoder, Bar release sensor, Integrated flashing light, USB (for updating firmware)
Terminal board outputs	Flashing lamp 24V, Brushless motor, Accessories power supply 24 VDC, 4 programmable outputs (one with relay)