

**100% PNEUMATIC (ALL AIR), EXPLOSION PROOF OSX
AUTOMATIC DOOR OPERATOR & INTERLOCK DOOR SYSTEM
QUOTE FORM**

(Formerly known as Stanley MAGIC-DOOR Pneumatic Door Operator)

Carey Automatic Door, LLC manufactures door operator systems which can be customized for hazardous swinging and sliding door applications (see attached). The entire system is driven by pneumatic cylinders and valves without the use of electrical or electronic components. Moving components are manufactured from non-sparking materials. Pneumatic exit devices compatible. Proven track record in environments with volatile chemicals. See attached description and customers served.

***Considered the Most Intrinsically Safe, Reliable, Durable and Cost Effective
Automatic Door Operator in the Industry since 1970!***

Please use one form per set of doors:

1. Is this a new installation or retrofit to an existing door? _____
2. Single door or pair of doors? _____
 - a. Width, height & thickness of doors _____
 - b. Weight and type of doors _____
 - c. Fire door application _____
 - d. Are doors in place? _____
3. If **Swing** Door (Operators can be mounted inside or outside of hazardous room):
 - a. Right Hand (clockwise swinging doors) _____
Left Hand (counterclockwise swinging doors) _____
 - b. %N/PULL+(doors swinging under operator) _____
%OUT/PUSH+(doors swinging away from operator) _____
 - c. *Side Clearance _____
Distance required between jamb and side wall for door bracket.
 - d. *Height Clearance: top of door to ceiling or obstruction _____
 - e. *Reveal Distance _____
Distance from back of operator case to inside surface of door in closed position. Varies with door thickness and hanging.
 - f. Hinge hung, swing clear, center pivot or offset pivot hinges? _____

***Critical dimension.**

g. Are pneumatic exit devices required? _____
Carey to integrate into ALL AIR equipment. Pneumatic exit devices provide remote latch bolt retraction in hazardous areas where electrically operated devices would not be permitted. The air cylinder used in the device has a special actuating linkage that allows a mechanical override.

4. If **Slide Door** (*strongly recommend utilizing Carey track & hangers as they are specifically manufactured for hazardous areas; all moving components non-sparking*):

a. Specify RH or LH Operators: _____
RH operators if door opens toward the left when facing operators.
LH operators if door opens toward the right when facing operators.

b. Height clearance: top of door to ceiling or obstruction _____

c. Pneumatic safety/reversing edge (strongly recommended): _____

d. Masonry opening width if **Track** is required: _____

e. 4+lap present on each side of door: _____

f. Side clearance for track: _____

g. Wall thickness to mount track: _____

h. Door gauge: _____

5. **Activation Options** for ALL AIR Operators: _____

a. Standard Activation: Push palm button or pull cord to open, hold open with 0-30 second time delay, automatic close: Spring Close (Single Acting), Power Close (Double Acting) depending on weight of door or Counterweight Close (Sliding Fire Door)

b. Optional Activation: Push palm button or pull cord to open, stays open, push to close

6. **Manual Controls** (shall be either or a combination of the following): _____

a. ALL AIR Palm Button Activation . where surface mounted palm buttons are required.

b. ALL AIR Pull Cord Activation . for use in overhead applications and where wheeled traffic exists.

7. **Interlock Door Systems** for swinging and sliding door applications: provides for opening of one set of doors and latching of the other set to prevent simultaneous opening of both sets of doors.

a. Distance between doors _____

b. Length and width of airlock room _____

8. Access to central air supply or air compressor? _____

To be furnished and installed by the General Contractor, Plumbing Contractor and/or Automatic Door Installer. Must be capable of delivering the necessary C.F.M. free air as required by type and number of Carey pneumatic operators. Consult Carey representative for capacity recommendations.

9. Is air conditioning present in the area of compressor to Operators? _____
Follow air line from compressor to operators to ensure all areas are air conditioned. If air conditioning present in one area (operator area) and not present in area of compressor (mechanical room) a refrigerated air dryer **MUST** be installed as close to the operators as permissible. Automatic bleed off valves and air storage tanks can be added to the system.
10. Solvents in area/NEMA Classification? _____
If Class 1, Division 1 or 2 Classification, Carey Automatic Door, LLC strongly recommends entire floor be 100% Pneumatic (ALL AIR), Explosion Proof as there is a remote chance that mixing of the air and gas could occur. Therefore, **ALL** equipment should be ALL AIR, Explosion Proof.
11. Special considerations? _____
12. Timeframe for project? _____
13. Drawings or schematics available & attached? _____
14. Architectural specifications available & attached? _____
15. If not certified door installer, referral needed for installation? _____
16. If existing area, please forward pictures _____
17. How referred to Carey Automatic Door, LLC? _____

Name

Date

Company

Job Name & Door No.

Address

Phone Number

Email

100% Pneumatic (ALL AIR), Explosion Proof Automatic Door Operators & Interlock Door Systems are ideal for: Pharmaceutical, Chemical, Manufacturing, Industrial, Ammunition & Ordinance Facilities, Oil Refineries, Industrial Bakeries, Coal Preparation Plants, etc.

Please feel free to contact us at (203) 267-4278 if you should have any questions. Thank you for the opportunity to quote this job.

Virtually Maintenance Free for 20 – 30+ years!

100% Woman Owned Small Business

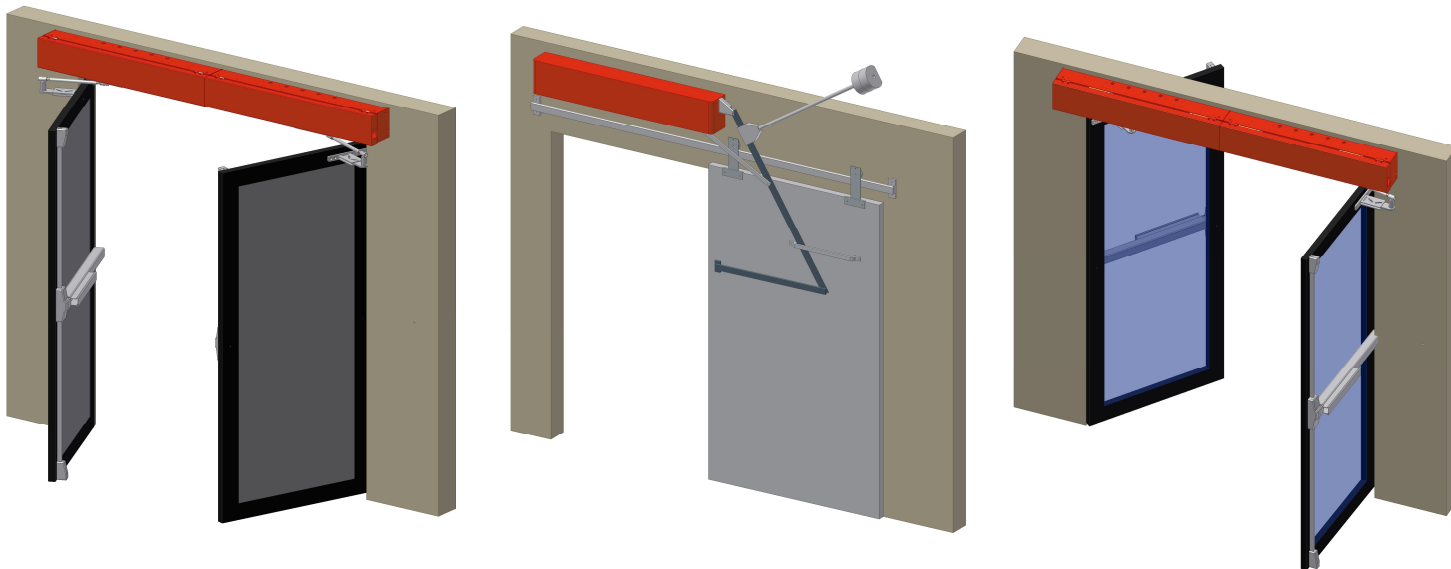
Carey Automatic Door, LLC

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100% Pneumatic (ALL AIR), Explosion Proof OSX Door Operator Description

AIR OPENING and AIR CLOSING (No Electricity Involved)

Non-Sparking Moving Components



- Entire system driven by pneumatic cylinders and valves.
- Pneumatically controlled from central air supply or separate compressor.
- Opening and closing action will be individually controlled by separate built-in pressure regulators and opening and closing valves. Adjustable for pressure and volume for required speed and power.
- All regulators and valves are self contained within Operator case.
- Operator will be capable of operating doors against wind velocities (and equivalent stack pressures) up to 40 miles per hour.
- Built-in two stage checking cylinders for both opening and closing limits.
- Operator will instantaneously recycle the door to the full open position from any point in the closing cycle.
- Operator to be activated by two pneumatic palm button or pneumatic pull cords.

Opening and closing valves (pneumatically activated) mounted in Operator to control opening speed. Closing speed may be by:

- Springs mounted in Operator (single acting)
- Pneumatically activated closing valve mounted in Operator (double acting)
- Counterweights (sliding fire doors)

Interlock Door Systems:

Provide for opening of one set of doors and latching of the other set pneumatically to prevent simultaneous opening of both sets of doors (can be multiple doors).

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100% Pneumatic (ALL AIR), Explosion Proof OSX Door Operator Operation

Standard Activation:

Push palm button or pull cord, power open, 0-30 second hold open time delay, automatic spring close (single acting), automatic air power close (double acting), counterweights (sliding fire doors) depending on weight of door.

The Operator is an air powered cylinder. When one of the palm buttons or pull cords is activated, a signal is sent through a series of valves to activate and open the door. Upon completion of the opening cycle of the power cylinder, a pneumatic trip rod switch is actuated which then sends a signal to the time delay that holds the door open. Once the time delay has reached its completion, a signal is sent to the main valve. The valve shifts and air is exhausted which then allows the springs, air power or counterweights to close the door. Checking cylinders are provided to smooth out the final opening and closing door motions. At any point during the closing cycle, system can be reactivated to re-open the door.

Optional Activation:

Push palm button or pull cord to open, door stays open, push palm button or pull cord to close door.

When one of the palm buttons or pull cords is activated, a signal is sent through a series of valves to activate and open the door. Upon completion of the opening cycle of the power cylinder, the system remains open until one of the palm buttons or pull cords is activated to close the door. Checking cylinders are provided to smooth out the final opening and closing door motions. At any point during the closing cycle, system can be reactivated to re-open the door.

Pneumatic Fire Exit Device for Swinging Doors:

A signal is sent to the air cylinder of the pneumatic exit device. With this signal, the latch within the exit device is retracted allowing the door to be opened freely. A built-in time delay temporarily delays the signal to the operator to ensure the exit device is retracted. At any point in the closing cycle, the system can be reactivated to re-open the door by activating one of the palm buttons or pull cords.

Pneumatic Safety Edge for Sliding Doors:

A sensing edge attaches to the leading edge of the door. When the sensing edge is compressed, air is pushed into the pneumatic amplifier which then sends a signal to the Operator to reverse the door motion.

Fire Door Application for Swinging Doors:

When the temperature reaches 165° F., the fuse in the fusible nozzle melts and allows air to exhaust out of the power cylinder and springs close the swinging door. When the door reaches the closed position, the door latches automatically through the pneumatic fire exit device hardware. Door can be opened manually for emergency egress only by operating the fire exit device hardware crossbar. System will automatically reset by reactivation of the air compressor system.

Fire Door Application for Sliding Doors:

When the temperature reaches 165° F., the fuse in the fusible nozzle melts and allows air to exhaust out of the power cylinder. The counterweight assembly closes the sliding door. System will automatically reset by reactivation of the air compressor system.

What Happens in the Event of a Power Failure:

A residual air reservoir in the compressor will allow automatic use of the door until the air supply is exhausted. Door can be opened manually for emergency egress only by operating the fire exit device hardware crossbar (swinging doors). System will automatically reset by reactivation of the air compressor system. As an option, an air reservoir tank can be added to the system to store additional air.

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100% Pneumatic (ALL AIR), Explosion Proof OSX Door Operator Applications

Single Swinging Doors:

0-1S Pneumatic Operator Packages. For use with single swinging doors in industrial applications. One operator designed to swing a single hinge hung door either IN or OUT. Maximum door opening width is 72+

Double Swinging Doors:

0-4S Pneumatic Operator Packages. For use with pairs of swinging doors that require complete speed control for varying conditions in industrial applications. Two operators coupled to operate a pair of doors swinging IN or OUT. Maximum door opening width is 144+

Swinging Fire Door Packages. An automatic fire door package is available and will interface with the single acting 14+stroke operator.

Single Sliding Doors:

0-7 Pneumatic Operator Packages. For use with single sliding doors in industrial applications. Available for labeled fire door applications. For doors that slide either Left or Right of the opening. Maximum door opening width is 96+

07-D Pneumatic Operator Packages. For use with heavy single sliding doors in industrial applications. Available for labeled fire door applications. For doors that slide either Left or Right of the opening. Maximum door opening width is 144+

Bi-Part Sliding Doors:

0-9 Pneumatic Operator Packages. For use with pairs of sliding doors in industrial applications. Available for labeled fire door applications. Maximum door opening width is 192+

09-D Pneumatic Operator Packages. For use with pairs of heavy sliding doors in industrial applications. Not available for labeled fire door applications. Maximum door opening width is 288+

Carey Automatic Door, LLC

www.careydoor.com

**100% Pneumatic (ALL AIR), Explosion Proof OSX Door Operator
Customers Served**

3M Company
Abbott Pharmaceuticals
Amgen, Inc.
Anagram International
Aspen Aerogels
AstraZeneca Pharmaceuticals
Boehringer Ingelheim Corporation
BOEING
BP Exploration, Inc.
Bristol-Myers Squibb
Corpus Christi Army Depot
Covidien
Crane Army Ammunition Activity
Cytec Industries
Dow Corning Corporation
DuPont, Inc.
Eastman Chemical Company
Estee Lauder
Genzyme Biosurgery
Goodrich Fuel & Utility Systems
Grain Processing
Hospira Pharmaceuticals
Indiana Michigan Power Company
IST Industrial Summit Technology
Lockheed Martin Corporation
Los Alamos National Laboratory
Mallinckrodt Pharmaceuticals
Markem CIJ Manufacturing
McAlester Army Ammunition Plant
Merck & Co., Pharmaceuticals
MerCruiser
Novartis Consumer Health
Ortho Clinical Diagnostics (Johnson & Johnson)
Palisades Nuclear Power Plant
Patheon Pharmaceuticals
Philip Morris Company
PPG Aerospace
Raytheon Missile Systems
Regeneron Pharmaceuticals
Sandia National Laboratories
Sigma-Aldrich Corporation
Solvay
The Dow Chemical Company
United Nations Headquarters
Woodward Governor Company
Wyeth Ayerst Laboratories
Xerox Corporation