

Carey Automatic Door, LLC

AIRLOCK & INTERLOCK DOOR SYSTEMS

100% ALL AIR, Explosion Proof Airlock & Interlock Door Systems

The airlock & interlock system consists of two pairs of swinging (“IN” or “OUT”) or sliding doors with a specific requirement to ensure that one pair of doors is disabled while the other set of doors is in motion. In addition, pneumatic exit devices can be incorporated into the swinging door system for automatic unlatching and safe exiting. The entire system is driven by pneumatic cylinders and valves without the use of electrical or electronic components. All moving components are manufactured from non-sparking materials. State of the art valves with condensed valve configuration. Time delay option (1 to 60 seconds) available on opening and closing cycle. Reopening feature during closing cycle. Virtually maintenance free. Easy installation.

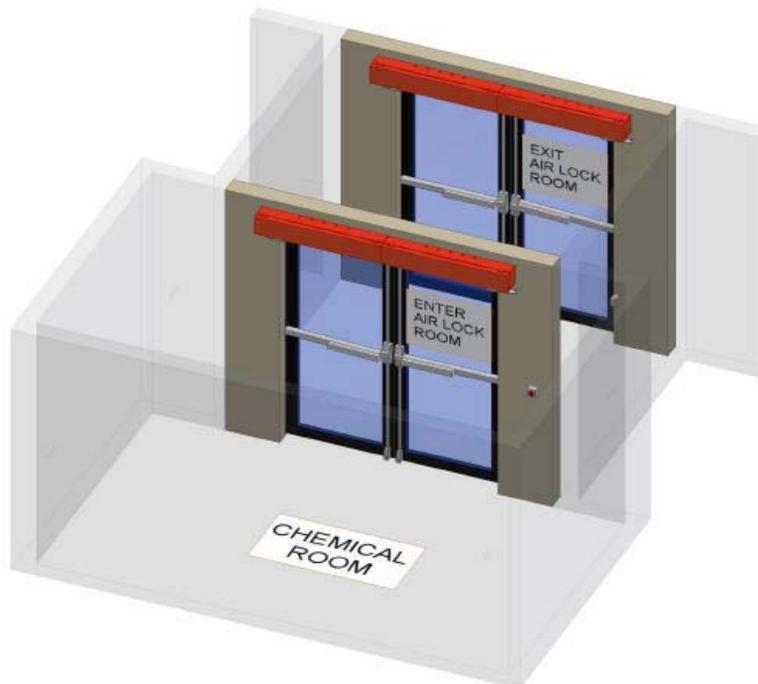
Description of a Swinging and Sliding Airlock & Interlock Door System

The OPERATOR is an air powered cylinder which is activated by pneumatic push plates or pull cords which in turn introduces air into the power cylinder through a series of valves.

When one of the (4) four push plates and/or pull cords is activated, the following occurs:

1. A signal is sent through a series of valves and sets the priority for either Doors “A” or “B” to be activated.
2. At that point, a signal is sent to the pneumatic cylinder of the vertical exit device corresponding to priority according to Step No. 1.
3. With this signal, the pneumatic exit device is retracted allowing the doors to be opened freely.
4. A built-in time delay temporarily delays the signal to the operator to ensure exit device is retracted.
5. Upon the completion of the opening cycle of the power cylinder, a pneumatic trip rod switch is actuated which allows air to be exhausted and the springs to close the door.
6. At the end of the cycle of the power cylinder, the pneumatic exit device is retracted to the closed position.
7. At any point in closing cycle, system can be reactivated to re-open door.
8. In the event of an emergency, the pneumatic exit devices can be used under manual conditions allowing safe exit.

Note: A detailed schematic is available upon request.



<h2 style="margin: 0;">Carey Automatic Door, LLC</h2> <h3 style="margin: 0;">OSX ALL AIR (EXPLOSION PROOF) OPERATOR PACKAGES</h3>

100% ALL AIR & EXPLOSION PROOF PACKAGES

100% ALL AIR door systems are pneumatically operated with no electronics. **Explosion Proof door systems** are pneumatically operated with no electronics as well as all moving components are manufactured from non-sparking materials.

100% ALL AIR & EXPLOSION PROOF OPERATORS:

Air Opening and Air Closing (no electricity involved) - 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, which are all adjustable for pressure and volume for required speed and power. All regulators and valves can be self-contained within a control box at the door location. The 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. The operator will instantaneously recycle the door to the full open position from any point in closing cycle. The operator will be activated by two pneumatic push plate or pull cord assemblies. The entire system is driven by pneumatic cylinders and valves without the use of electrical or electronic components.

All Operators available as ALL AIR. The following are excluded as Explosion Proof Packages: 17, 18, 19, 20, 21, 22, 23, 26, 27, 30, 31, 32, 37, 38, 39, 40, 55, 56 & 57.

FACTORS TO CONSIDER BEFORE ORDERING:

- HAND:** Swinging Doors - Specify Right Hand for clockwise, Left Hand for counterclockwise.
Sliding Doors - Specify Right Hand if door slides to the left to open, Left Hand if door slides to right.
- REVEAL:** Distance from back of operator case to inside surface of door in closed position.
Varies with door thickness and hanging. (See Detail Sheet MDS-255 on Page CP-19)
- SIDE CLEARANCE:** Distance **required** between jamb and side wall for door bracket.
- OPENING:** Determines size of operator required.

To order **ALL AIR (EXPLOSION PROOF)** equipment select the application required as shown on Pages CP-2 through CP-12A. Order by Part Number. Fire door packages include closing lever with weights.

The ALL AIR (EXPLOSION PROOF) Package Equipment List will differ from the appropriate Standard Package Equipment List as follows:

<u>PART NO.</u>	<u>DESCRIPTION</u>	
103305	OSX - 14" R.H. All Air Operator	Substituted for Regular Operator
103306	OSX - 14" L.H. All Air Operator	Substituted for Regular Operator
103307	OSX - 24" R.H. All Air Operator	Substituted for Regular Operator
103308	OSX - 24" L.H. All Air Operator	Substituted for Regular Operator
920100	ALL AIR Valve Package	1 included in Every Package except Fire Door
402839	Pull Cord - MA-10	2 included in Every Package OR
409693	Wall Mounted Palm Button Switches	2 included in Every Package
960130	All Air Time Delay (0-30 seconds)	1 included in Every Package
960175	All Air Time Delay (0-60 seconds)	Available on special order as an optional extra
311769	Valve Control Panel	Available on special order as an optional extra

AVAILABLE ACTIVATION OPTIONS:

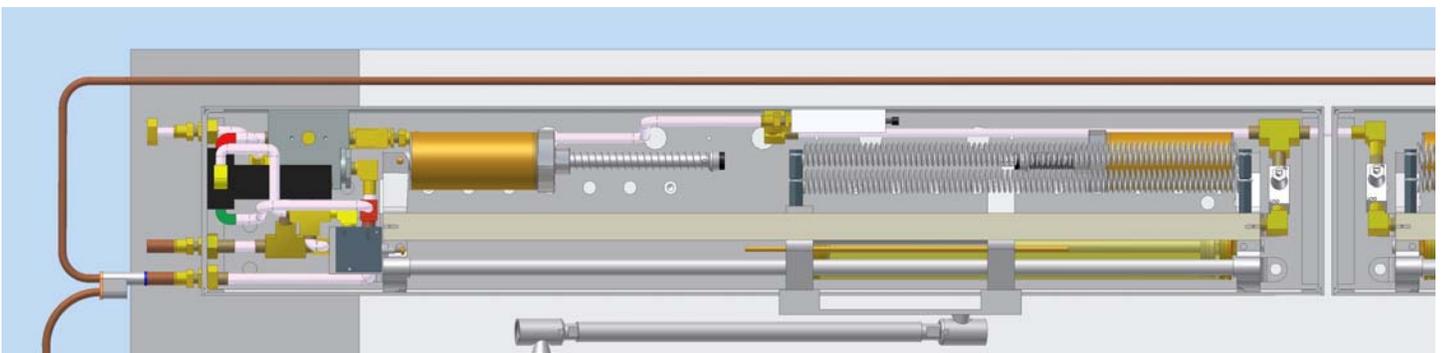
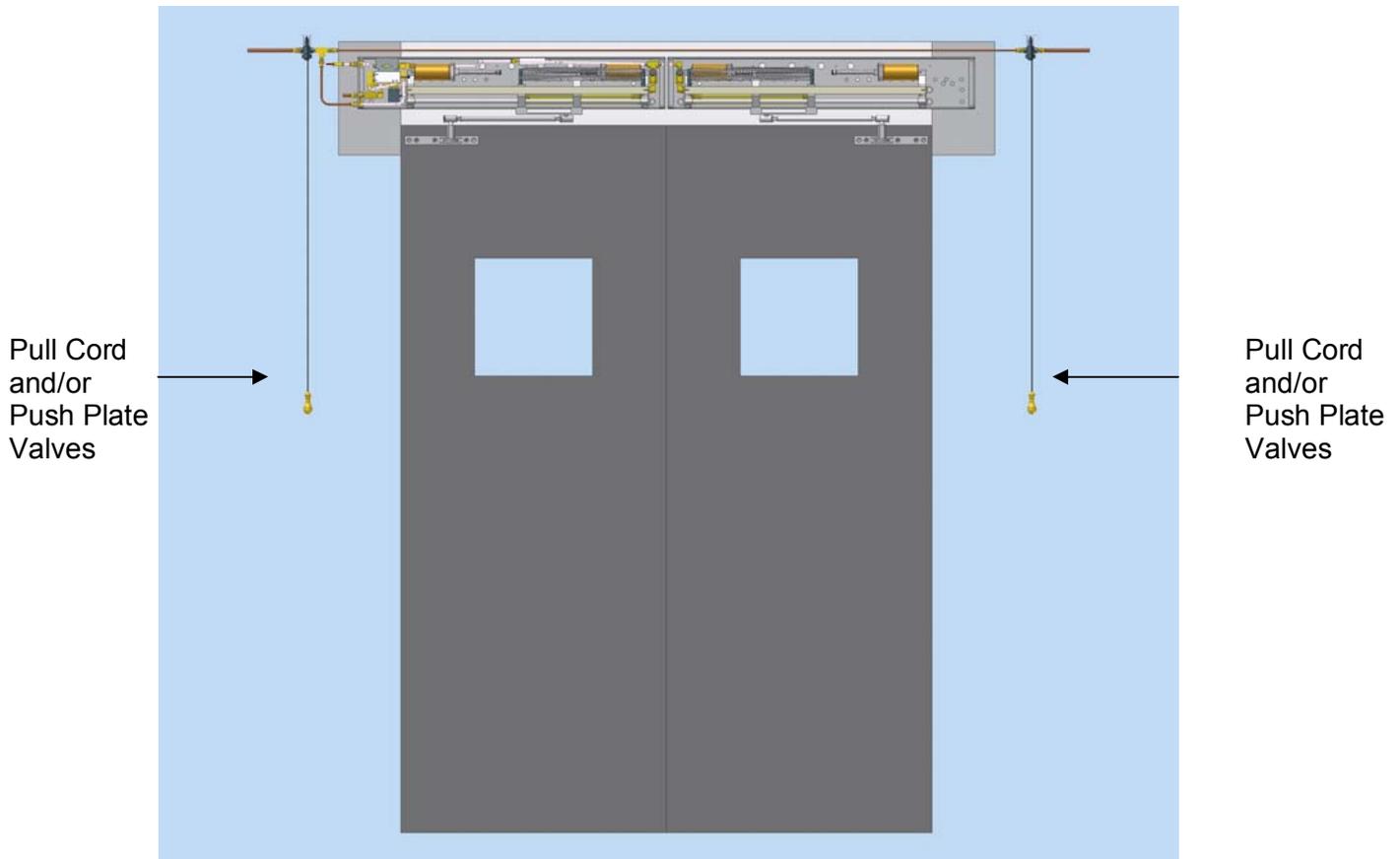
- Push to Open, Push to Close
- Push to Open, Hold Open with Time Delay (standard: 30 sec., optional: 60 sec.), Air Power Close

Customized Systems Available for Specialized Applications.

Carey Automatic Door, LLC, its employees and associates are not electrical engineers or building code experts. You should consult the proper experts before purchasing a system in a hazardous area.

Carey Automatic Door, LLC
OSX ALL AIR (EXPLOSION PROOF) OPERATOR PACKAGES

“IN” SWING OPERATORS
Doors Swing Under the Operator



All Regulators & Valves are Self-Contained with Operator Case!