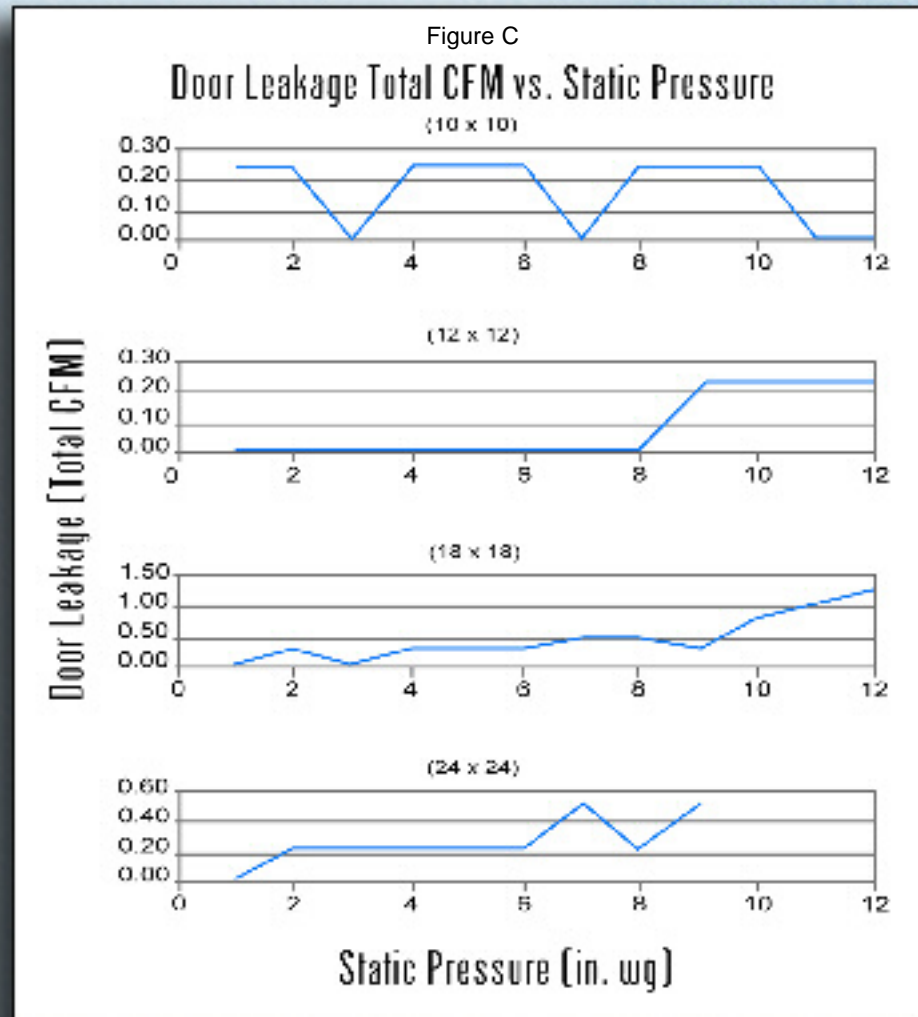


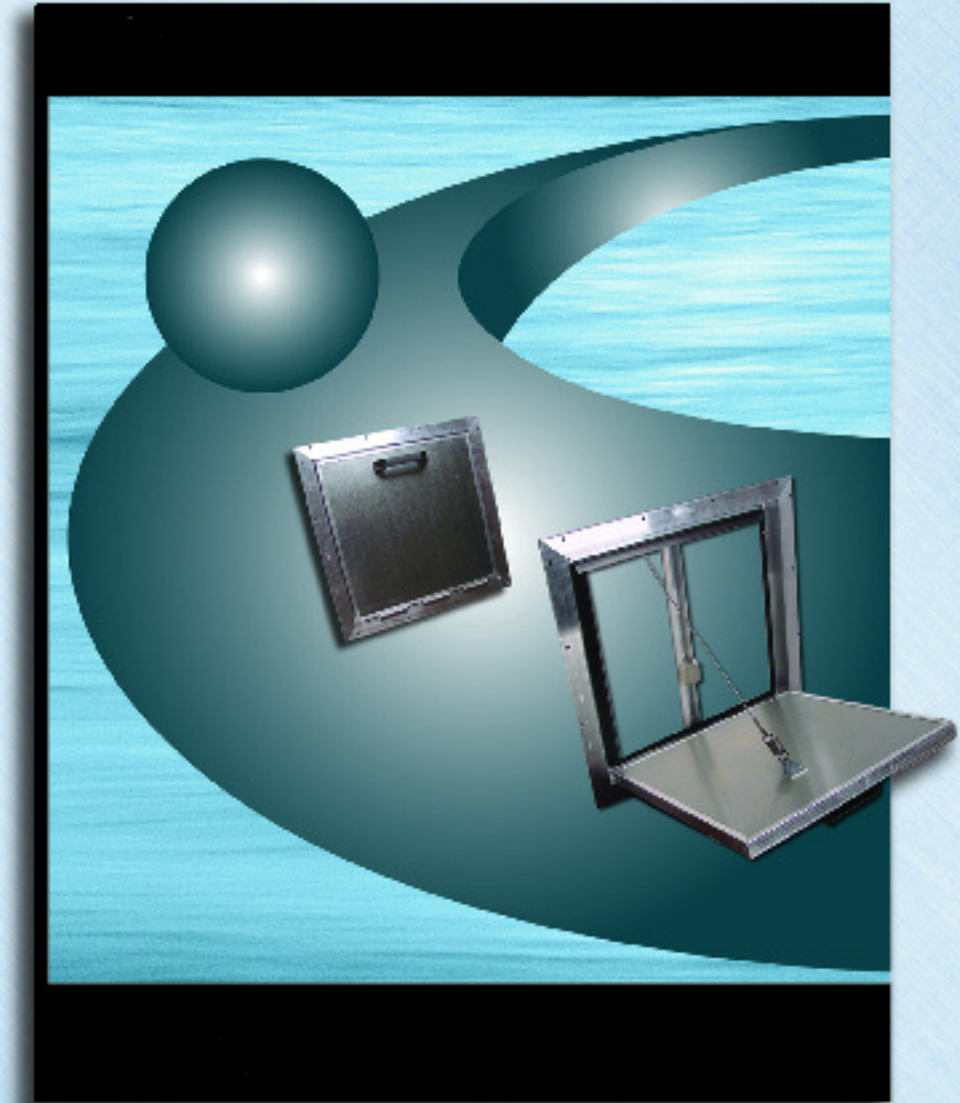
# Independent ..... Test Results

# High Performance ..... Pressure Relief Door



## NOTES

- Door must be installed vertically and level, with hinges down, for proper operation.
- Desired static pressure settings should be given at the time of order.
- Consult AJ. MFG. for other applications.



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# PRESSURE RELIEF DOORS

# Positive and Negative Pressure Relief Door Specifications

Positive and Negative Pressure

Innovative Non-Mechanical Latch System

Excellent Sealing

Insulated to R6.5

Easy to Install

Patent Pending

## APPLICATION

- The Positive and Negative Pressure Relief Doors are designed to open automatically 1" w.g. above normal operating system pressure
- The function of the pressure relief door is to prevent ductwork from imploding or exploding in the event dampers close while the fan is still operating.
- Opening outward or inward at a specified pressure setting, the doors permit rapid neutralization of the pressure differential between the inside and outside of the HVAC system.

## CONSTRUCTION

### FRAME

- 0.62" thick aluminum extrusion, Z/T shape.

### DOOR

- .050" thick aluminum extruded perimeter with 24 to 16 gage skin and polyurethane foam filled sealed core (NFPA 90A compliant).

### TRIM FLANGE

- 1" (25mm) around entire perimeter.

### SEAL

- Co-extruded leaf gasket made of PVC.

### RANGE OF SETTINGS

- Factory adjusted pressure settings range from 1" w.g. to 12" w.g. Door is specifically set 1" above normal operating system pressure unless otherwise specified.

### CABLE ASSEMBLY WITH SPRING

- Cable assembly limits door opening to 80° preventing door and duct damage.

### LATCH

- Adjustable latch assembly is factory set at desired relief pressure. Pressure must be given at time of order to properly place latch. Latch is field adjustable.

### SERVICE TEMPERATURE

- -40°F (-40°C) Minimum to 120°F (49°C) Maximum

## DOOR SIZES

### PZ-10

- 10" X 10" (254 X 254\*)
- 12" X 12" (305 X 305\*)
- 18" X 18" (457 X 457\*)
- 24" X 24" (610 X 610\*)

### VT-10

- 10" X 10" (254 X 254\*)
- 12" X 12" (305 X 305\*)
- 18" X 18" (457 X 457\*)
- 24" X 24" (610 X 610\*)

\*metric measurement

## SELECTION

1. Locate the fan curve for the system (fig. A).
2. Determine the maximum pressure the ductwork is designed to handle. Locate where the maximum pressure of the ductwork intersects the fan curve (fig. A). Note: Fan curve should be supplied with manufacturer documentation.
3. The figure from step 2 gives the volume of air that should be relieved.
4. Refer to the Relief Airflow vs. Static Pressure chart (fig. B).
5. Select an appropriate door size (standard 18" X 18"). Determine the volume of air the door will relieve at the maximum design pressure.
6. Divide step 2 by step 5 to determine the number of doors required.
7. Select the point ranging from 1" w.g. to 12" w.g. The set point is usually 1" above normal operating pressure.

