



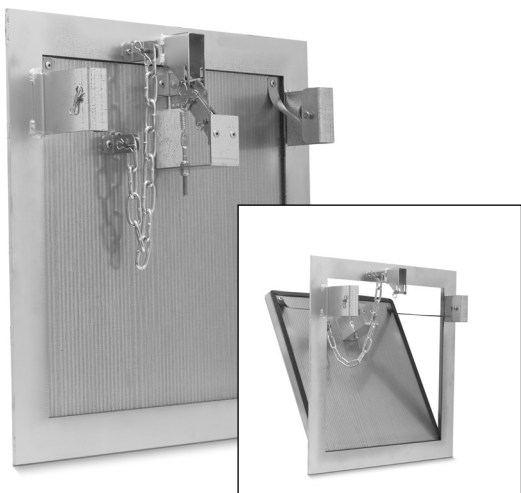
PRESSURE RELIEF ACCESS DOORS

For Positive and Negative Pressures

KEES positive- and negative-pressure relief access doors prevent damage to ductwork under excessive pressure. The doors feature an adjustable latch that is factory preset for the desired release pressure. The closure springs automatically return the door to its closed position when the pressure is relieved and the system is shut down. These doors must be installed vertically with the hinge at the bottom of the door.



MODEL B0
(DESIGNED TO OPEN OUTWARD)

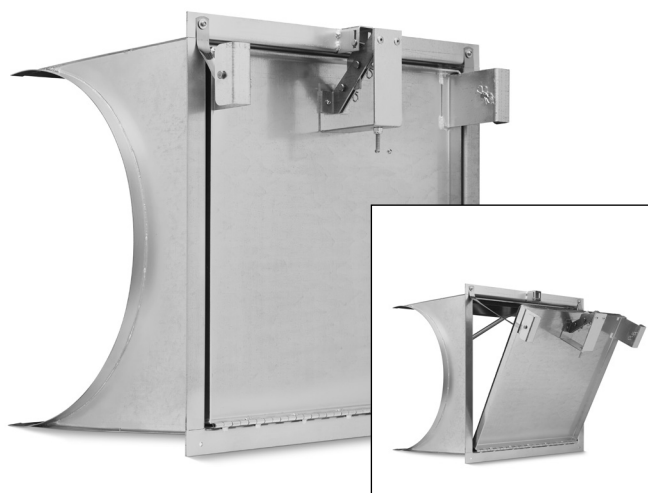


MODEL B1
(DESIGNED TO OPEN INWARD)

STANDARD SIZES

WIDTH X HEIGHT
10 X 10
12 X 12
24 X 10
24 X 12
18 X 18
24 X 24

Other sizes available upon request.

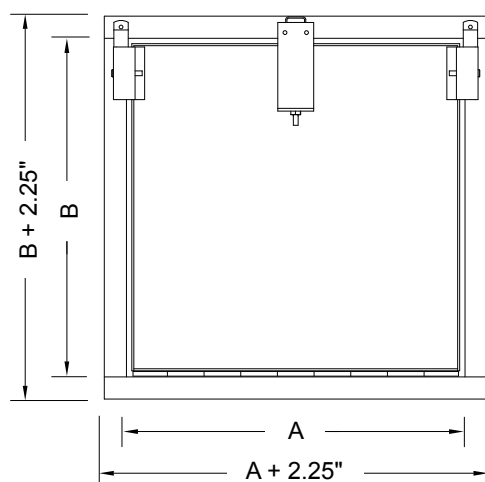


MODEL B0-R
(SHOWN WITH HORIZONTAL DUCT)

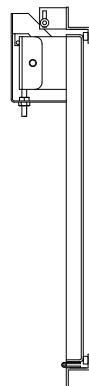


POSITIVE PRESSURE RELIEF ACCESS DOORS

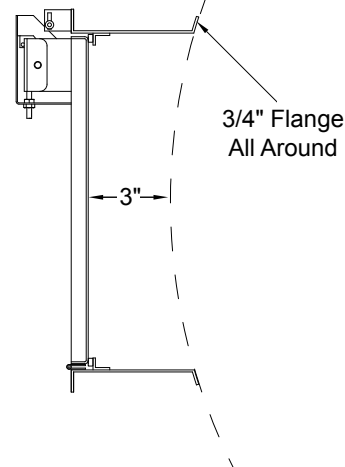
Models BO and BO-R Opens Out From Duct Under Excessive Positive Pressure



RECTANGULAR
DUCT (BO)



ROUND DUCT
(BO-R)



** Horizontal duct shown

QTY	SIZE A X B	DUCT OPENING	RELIEF PRESSURE (in w.g.)*	FOR ROUND DUCT (-R)	
				DIAMETER	ORIENTATION**
	10 X 10	10.25 X 10.25			
	12 X 12	12.25 X 12.25			
	24 X 10	24.25 X 10.25			
	24 X 12	24.25 X 12.25			
	18 X 18	18.25 X 18.25			
	24 X 24	24.25 X 24.25			

SPECIFICATIONS

12-gauge door frame
12-gauge door panel
Foam gasket
Adjustable latch
Piano hinge
Coiled return springs
Mill finish

Note: Hinge mounted
on "A" side

OPTIONS

MATERIAL

- ☐ Galvanized Steel (Std.)
- ☐ 304 SS
- ☐ 316 SS

INSULATION

- ☐ None (Std.)
- ☐ 1" Thick
- ☐ 2" Thick

VIEW PORT

- ☐ Lexan

* Factory set (can be
fine-tuned in the field)

** For BO-R model, specify
if orientation is for a
vertical or horizontal duct

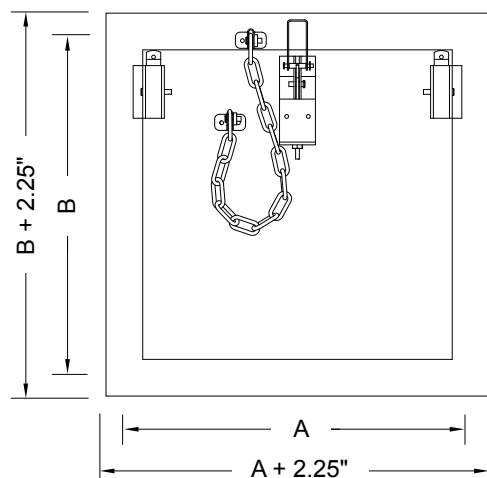
To maintain our policy of continuous product development, we reserve the right to change prices, specifications, ratings, and dimensions without notice or obligation.

Project/Location		KEES INCORPORATED 400 South Industrial Drive Elkhart Lake, WI 53020 Ph: 920.876.3391 F: 920.876.3065 www.kees.com	
Engineer/Architect			
Contractor			
Representative			
		Date	

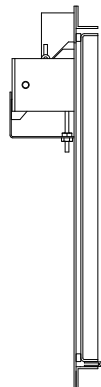


NEGATIVE PRESSURE RELIEF DOOR

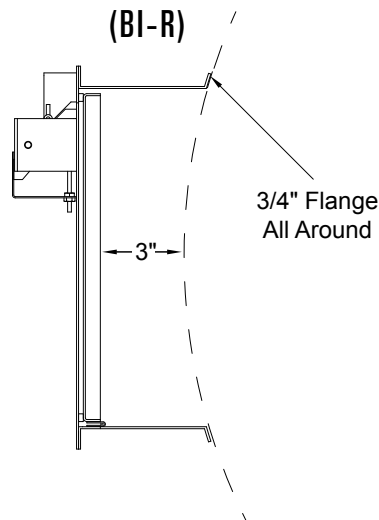
Models BI and BI-R Opens Into Duct Under Excessive Negative Pressure



RECTANGULAR
DUCT (BI)



ROUND DUCT
(BI-R)



** Horizontal duct shown

QTY	SIZE A X B	DUCT OPENING	RELIEF PRESSURE (in w.g.)*	FOR ROUND DUCT (-R)	
				DIAMETER	ORIENTATION**
	10 X 10	10.25 X 10.25			
	12 X 12	12.25 X 12.25			
	24 X 10	24.25 X 10.25			
	24 X 12	24.25 X 12.25			
	18 X 18	18.25 X 18.25			
	24 X 24	24.25 X 24.25			

SPECIFICATIONS

12-gauge door frame
12-gauge door panel
Foam gasket
Adjustable latch
Piano hinge
Coiled return springs
Mill finish

Note: Hinge mounted
on "A" side

OPTIONS

MATERIAL

- ☐ Galvanized Steel (Std.)
- ☐ 304 SS
- ☐ 316 SS

INSULATION

- ☐ None (Std.)
- ☐ 1" Thick
- ☐ 2" Thick

VIEW PORT

- ☐ Lexan

* Factory set (can be
fine-tuned in the field)

** For BI-R model, specify
if orientation is for a
vertical or horizontal duct

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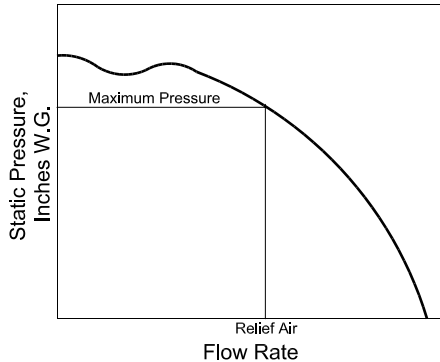
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PRESSURE RELIEF DOOR PERFORMANCE / SELECTION

Model BO Positive Pressure Duct
Model BI Negative Pressure Duct

FIG. A
Fan Curve



SELECTION

1. Referencing the system fan curve, determine the maximum duct pressure allowed and read the system volume at this pressure (FIG. A). This quantity (CFM) of air is the relief air required at this pressure. Alternately, if fan data is not available, use approximately 75% of the total duct airflow volume.
2. For the relief air quantity found in step 1 and referring to FIG. B, determine the relief air capacity of each door size at the maximum allowable duct pressure.
3. Select the appropriate quantity and size of doors that cumulatively total or exceed the relief air required.
4. When ordering or specifying KEES Model BI or BO doors, indicate the static pressure set point between 3" to 10". Reduce the relief pressure setting by approximately 20% for safety. The setpoint should be chosen near the maximum ductwork design pressure and at least 1" above the system's normal operating pressure. Pressure settings are factory set, but may be field adjusted.

LEAKAGE RATES

FIG. C shows the amount of door air leakage vs. duct static pressure.

FIG. B
Relief Airflow vs. Static Pressure

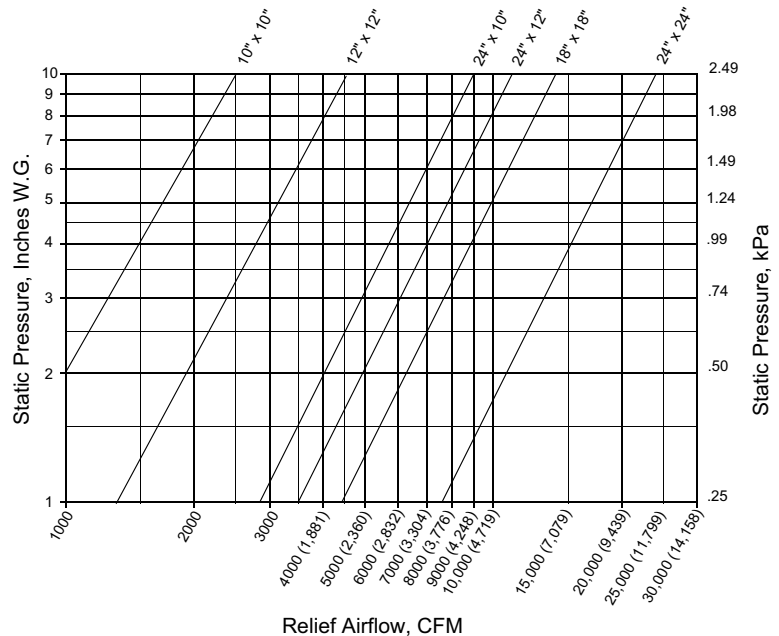


FIG. C
Door Leakage Rate vs. Static Pressure

