

## PVD PRESSURE VENTS

### DESCRIPTION

When clean agent fire suppression systems are discharged, the agent entering the enclosure creates a negative pressure, and then turns positive after system discharge, which displaces the air from the room. Suitable means of pressure relief/venting shall always be used in order to avoid structural damage to the building and equipment.

The PVD Pressure Vents have been designed to provide two way pressure relief venting. The pressure vent blades start to open at above 70 Pa in either direction (negative or positive) and fully open at 100 Pa. The special design provides 90% free vent area from 100 Pa room pressure. This means that fewer vents are required, reducing the number of holes that must be cut in enclosure walls, which minimizes installation costs.

### FEATURES & BENEFITS

#### 4-Hour Fire Rated

PVD Pressure Vents have a 4-hour fire rating to BS476 and are certified to EW120, E120 EN1364-1 & 2 and have been verified by an independent third party in actual discharge tests.

#### 90% Free Vent Area

The 90% free vent area has been verified by an independent third party in actual discharge tests.

#### Large Flange Sizes

PVD Pressure Vents have large flange sizes:

- 2 3/8" (60mm) on the PVD 150, 300 & 500 vents
- 3 7/8" (100mm) on the PVD 700 & 1000 Vents

This helps improve the installation and stability of our vents.

#### Welded Construction

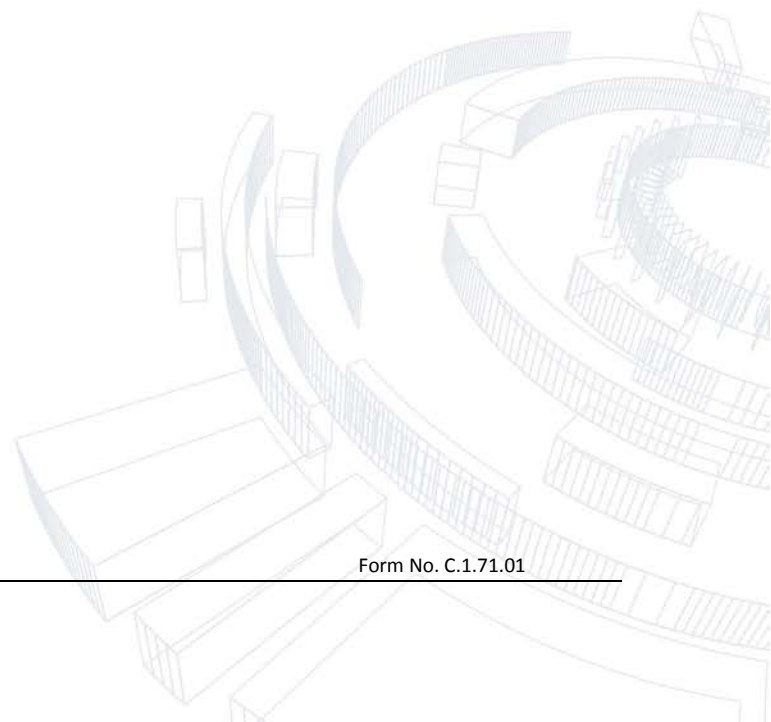
All our vents have a solid welded construction which eliminates flexing and blade sticking.

#### Aesthetically Pleasing Design

PVD Pressure Vents have no rivets and are powder coated with a white finish.

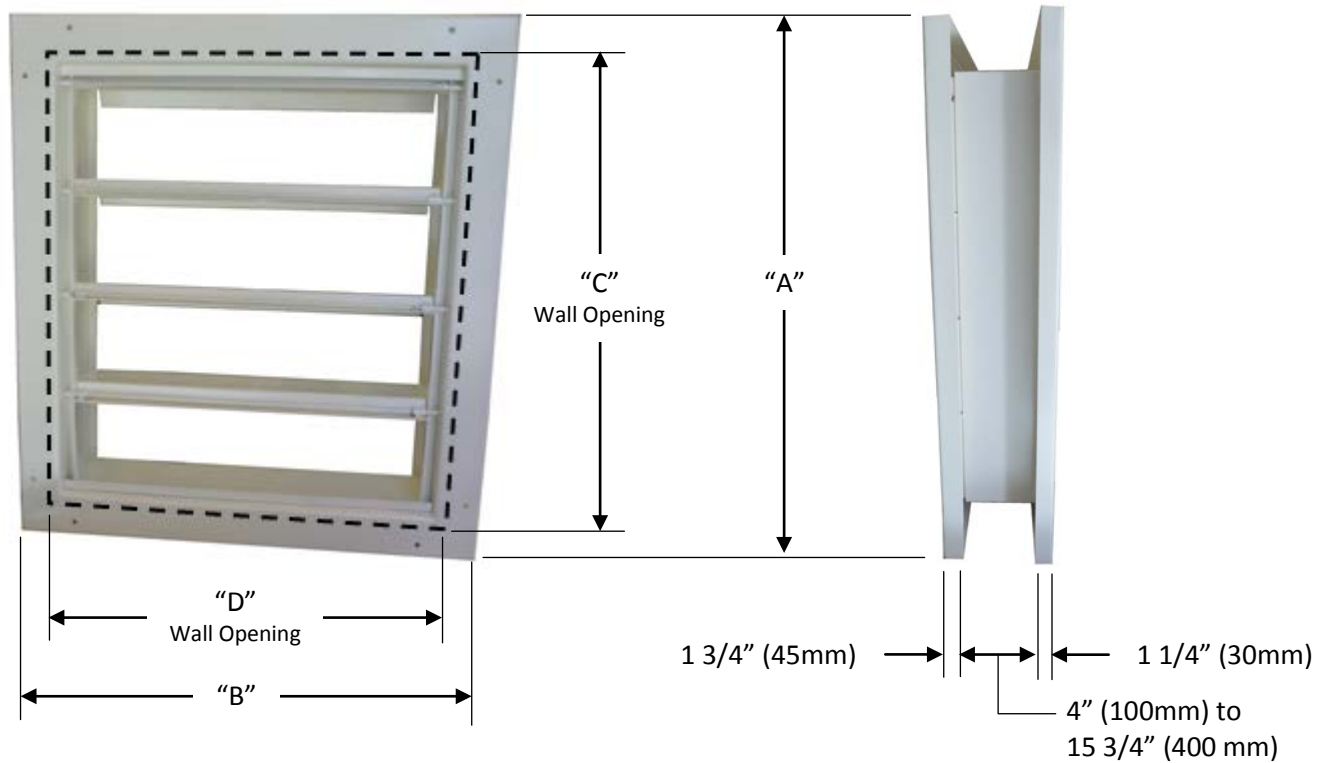
#### Manufactured in Britain

PVD Pressure Vents are designed and manufactured in the UK.



**SPECIFICATIONS**

Vent Size (mm)	PVD 150	PVD 300	PVD 500	PVD 700	PVD 1000
<b>Fike Part Number</b>	02-14717-150	02-14717-300	02-14717-500	02-14717-700	02-14717-1000
<b>"A"</b>	11" (280mm)	16 1/2" (420mm)	27 1/2" (700mm)	33" (840mm)	44 3/4" (1135mm)
<b>"B"</b>	17" (430mm)	17" (430mm)	24 3/4" (630mm)	33 1/2" (850mm)	45" (1140mm)
<b>"C"</b> <b>Height Wall Opening</b>	7 1/2" (190mm)	13 1/2" (345mm)	24 1/4" (615mm)	29 1/4" (745mm)	41 1/4" (1045mm)
<b>"D"</b> <b>Width Wall Opening</b>	13 1/2" (340mm)	13 1/2" (345mm)	21 1/2" (545mm)	29 1/4" (745mm)	41 1/2" (1050mm)
<b>Unit Weight</b>	17.6 lbs. (8kg)	26.5 lbs. (12kg)	44.0 lbs. (20 kg)	66.1 lbs. (30kg)	99.2 lbs. (45kg)
<b>FVA @ 100Pa</b>	69.8 in <sup>2</sup> (450cm <sup>2</sup> )	131.8 in <sup>2</sup> (850cm <sup>2</sup> )	418.5 in <sup>2</sup> (2700cm <sup>2</sup> )	713 in <sup>2</sup> (4600cm <sup>2</sup> )	1426 in <sup>2</sup> (9200cm <sup>2</sup> )
<b>Unit Finish</b>	White (RAL9016)				
<b>Fire Rating</b>	4 Hours to BS476-20 and certified to E120 / EW120 to EN13501				
<b>Items included with Pressure Vent</b>					
<b>1</b>	Center Wall Sleeve (not shown)				
<b>2</b>	Caution Label (Qty. 2)				
<b>3</b>	Mounting Hardware (Qty. 1 Bag)				
<b>4</b>	Installation Instructions				



## INSTALLATION

1. Cut the correct sized opening in the enclosure being protected in accordance with current building codes/regulations. The opening sizes are detailed on page 2. It is best to wait for the pressure vent to arrive before cutting any opening in walls. This is to prevent the opening from being cut the incorrect size.

NOTE: Pressure vent should be located as high as possible on a wall.

2. Insert the outer wall sleeve into the opening and mark mounting holes for drilling.
3. Drill 1/4" (7mm) holes in the wall structure and insert the dry wall anchors provided. Then insert outer wall sleeve and using the mounting hardware supplied, screw the flange to the wall. Do not over tighten the screws as this may distort the flange.
4. Use fire rated sealant (not provided) to seal around the outer flange and the wall.
5. From inside the enclosure, slide the pressure vent (directional flow label up) into the opening so that the body of the pressure vent fits within the outer wall sleeves and mark mounting holes for drilling.
6. Drill 1/4" (7mm) holes in the wall structure and insert the dry wall anchors provided. Then using the mounting hardware supplied screw the flange to the wall. Do not over tighten the screws as this may distort the flange.
7. Then run some fire rated sealant (not provided) around the edge of the PRV flange and wall joint to seal the pressure vent to the wall.
8. Finally make sure that the pressure vent blades fully open and close freely by pushing each blade open and letting it close fully.

If Center Wall Sleeve is required:

1. Same as Step 1 above
2. Insert center wall sleeve into the opening and then fit the outer wall sleeve and mark mounting holes for drilling.
3. Drill 1/4" (7mm) holes in the wall structure and insert the dry wall anchors provided. Then insert outer wall sleeve and using the mounting hardware supplied screw the flange to the wall. Do not over tighten the screws as this may distort the flange..
4. Use fire rated sealant (not provided) to seal around the outer flange and the wall and between the center wall sleeve and outer wall sleeve.
5. From inside the enclosure, slide the pressure vent (directional flow label up) into the opening so that the body of the pressure vent fits into the center wall sleeves and mark mounting holes for drilling.
6. Drill 1/4" (7mm) holes in the wall structure and insert the dry wall anchors provided. Then using the mounting hardware supplied screw the flange to the wall. Do not over tighten the screws as this may distort the flange.
7. Then run some fire rated sealant (not provided) around the edge of the PRV flange and wall joint to seal the pressure vent to the wall.
8. Finally make sure that the pressure vent blades fully open and close freely by pushing each blade open and letting it close fully.

