Pressure relief

General

This datasheet covers the following articles

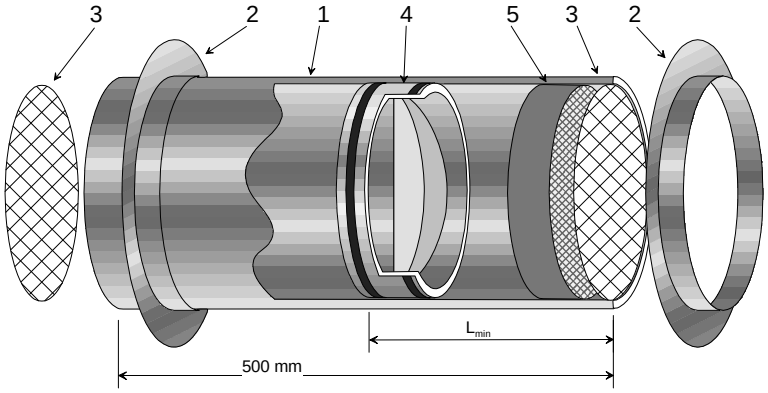
302720	Pressure relief A040	ø80 mm
302721	Pressure relief A065	ø100 mm
302722	Pressure relief A095	ø125 mm
302723	Pressure relief A150	ø160 mm
302724	Pressure relief A250	ø200 mm
302725	Pressure relief A385	ø250 mm
302726	Pressure relief A615	ø315 mm
302728	Pressure relief A1000	ø400 mm

For installation in walls to the fire protected enclosure to allow the excess air to exit the room, when INERGEN is released in the area.

The relief incorporates a closing mechanism that provides a seal against the entry of flames and smoke. This is achieved by the use of a special intumescent material that swells at high temperatures.

The material has been tested by Warrington Fire Research and can withstand fire for more than 60 minutes.

To be installed with the intumescent material towards the unprotected enclosure, flush with the wall and the butterfly valve axis in vertical position.



The components

1. Duct
2. Wall plate
3. Mesh
4. Butterfly valve
5. Intumescent honeycomb

Specifications

Duct material: Zinc plated steel
Valve material: Aluminium
Intumescent material: 63mm Dufalite Fireblack
Opening pressure app 20Pa

Item no.	Area [cm^2]	Ø [mm]	L_{min} [mm]	Designation
302720	40	80	90	Pressure relief A040
302721	65	100	95	Pressure relief A065
302722	95	125	105	Pressure relief A095
302723	150	160	125	Pressure relief A150
302724	250	200	165	Pressure relief A250
302725	385	250	210	Pressure relief A385
302726	615	315	245	Pressure relief A615
302728	1000	400	290	Pressure relief A1000

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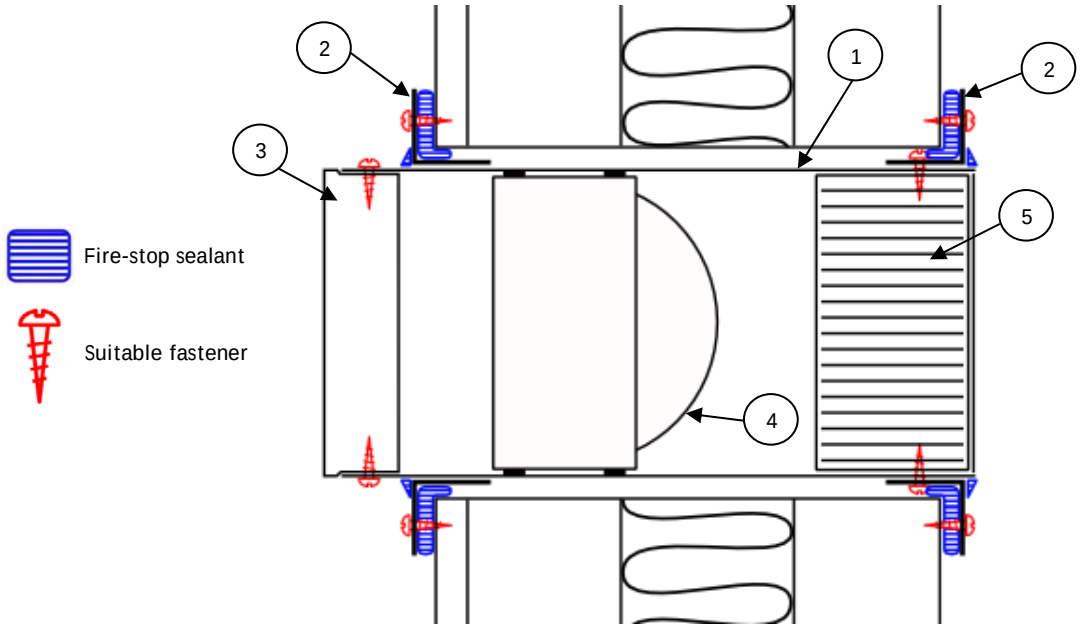
Installation

The recommended installation method is described here:
In all circumstances, follow national building codes for fire safety.

1. The pressure relief ducts are supplied in a length of 0.5m. Cut the duct (1) down to the appropriate length (see minimum length in table above). Cut the side of pipe that does NOT contain the intumescent honeycomb, making sure not to cut shorter than the butterfly valve (4)!
2. Cut a hole of the correct diameter in the enclosure wall (duct diameter –see table above- + 10mm).
3. If both wall plates (2) will face inwards (as on drawing below), fasten the one on the honeycomb (5) side (outer wall plate) first using 3 self tapping screws.
4. Apply fire-stop sealant (for instance Hilti CP 601S) on the wall plate and fasten to the wall using the appropriate equipment depending on the wall structure.
   MAKE SURE the sticker on the duct is facing up.
5. Apply fire-stop sealant to the inner wall plate, place it around the duct and fasten it to the wall as for step 4.
6. Place the metal grille (3) in the duct and fasten it with self tapping screws
7. Apply fire-stop sealant where the wall plates and the duct join on both sides of the wal.



CAUTION: Be careful not to place screws in the butterfly valve. Cut the duct longer if required and check that the valve can open freely.

NOTE: the purpose of the fire-stop sealant is to prevent air leaks. Therefore any gaps between the wall, wall plates and the duct have to be filled with sealant.

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