



OPERATING & MAINTENANCE INSTRUCTIONS

DUPLEX MS PRESSURE RELIEF DAMPER

DESCRIPTION

The Puma range of Duplex Mild Steel Pressure Relief Dampers, (DUPLEX MS PRD), are designed to relieve the high pressure spike, or pulse from a gaseous fire extinguishing system discharge, whilst maintaining the fire integrity of room.

All walls constructed to the relevant building standards & regulations, qualifying up to a 2 hour rating, can be fitted with a Puma Duplex MS PRD to maintain the fire integrity of that wall. The PRD must be installed in accordance with the relevant construction standards with regard to fire resistance, structural strength, and wall integrity.

The PRD's are manufactured to a very high standard. The frame and blades are manufactured from 18 or 16 SWG mild steel. Bronze bearings house the stainless steel shafts. The PRD's are finished in polyester powder coat paint to RAL 9010 (white). Special colours are available on request. There are nine standard sizes, please refer to sales literature.

The Duplex MS PRD assembly consists of two basic components: a Fire Integrity Section with Weighted Flaps (FIS), combined with a Cat Flap, (CF), or self-closing door.

Optional Components:

3. Weather Louvre – IMPORTANT NOTE – reduction in Free Vent Area (FVA) by 45%.

OPERATION

The weighted fire blades will begin to open at a pressure of approximately 50 Pa, and be fully open at up to 1000 Pa. Flow/pressure tables are available on request.

The CF or self-closing door will open at a pressure of between 100 and 350 Pa, dependant on customer requirement.

INSTALLATION – Typical A60 or H60 Fire Rated Bulkhead

To establish the wall cut out size, please refer to the certified drawing provided. The wall thickness must be sufficient to house the full depth of the assembly. The PRD can be installed from the outside of the building by denoting and External Flange (EF), this arrangement would require an Egg Crate Grille (ECG) on the inside wall for aesthetic purposes. If the PRD is installed from the inside of the room, a denotation of Internal Flange (IF) is required. The external wall may require a Decorative Surround (DS) to finish the cut-out neatly. A Weather Louvre (WL) may be fitted, but the Free Vent Area (FVA) is significantly reduced.

The flanges of Duplex ST PRD range are all 50mm with 10mm Ø fixing holes located around the perimeter of the unit, refer to certified drawing for hole centres.

**NOTE: Ensure operation of cat flap is not obstructed as stated on outer warning label.
(See certified drawing for flap clearance dimension)**

MAINTENANCE

The Puma Duplex MS PRD has only mechanical moving parts and requires very low maintenance.

A regular check every 6 months on free movement of flaps on inner wall section is recommended to ensure full working operation of damper.

WARRANTY

6 Years from date of purchase, subject to certain conditions which are available on request.



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