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Chemical Gas 'Dual Flow' Pressure Relief Dampers

2 Hour Fire Rated to BS EN 1634—1 2008

POSITIVE FUNCTION

The Dual Flow Pressure Relief Damper Fire Integrity Section is fitted with balanced weighted blades, hinged on stainless steel rods and bronze bearings. The precision engineering and blade overlap provides a positive shutter to the wall opening and offers minimum leakage

INTRINSIC SOUND ABSORPTION

All Dual Flow Dampers are fitted with a Self Closing Door or 'Cat Flap' held in place with a magnetic catch - this provides an intrinsic sound barrier and a positive air, dust and noise seal

THERMAL BARRIER

The integral 'Cat Flap' will provide a natural thermal barrier between the two areas, ideal when fitted in external walls, this will help to prevent condensation forming on the Fire Integrity Section blades. Additional insulation can be fitted to increase the thermal and sound absorption characteristics

QUALITY FINISH

All products are manufactured from Zintec Steel and polyester powder coated to RAL 9010 - Special colours are available on request

Hydrofluorocarbons - HFC-125 - HFC-23 (FE-13) - HFC - 227ea (FM 200) HFC - 236fa
 Perfluoroketone - FK-5-1-12 (NOVEC 1230, NITIN 1230, Sapphire)



External View— the Top section is the Under Pressure Blades - Bottom section is the Over Pressure Cat Flap. The Weather Louvre is not shown for clarity.

SYNTHETIC Gaseous Extinguishing systems such as NOVEC 1230 and FM 200 require UNDER pressure relief and OVER pressure relief - The PUMA range of DUAL FLOW Pressure Relief Dampers or Vents are designed specifically for that purpose

The range of NINE individual models has been designed with the closest ratio of Free Vent Area available with a proven and tested product. The blade design, construction and assembly have been formulated from an Exova Warrington Test Report and tested to BS EN 1634 - 1 2008 - Rated at 2 Hours. All PRD's have Classification to BSEN 13501 E W - 120

The UNDER pressure FREE VENT AREA (FVA) is generally higher than the OVER pressure by approximately 30 %
 PUMA DUAL FLOW Pressure Relief Dampers incorporate this formula across the range, providing Free Vent Areas between 0.021 m² and 0.381 m²

A full table of the entire range is shown on the reverse page



Internal Room View of Under Pressure Cat Flap & Over Pressure Fire Blades. Telescopic Duct & Full Size Weather Louvre



External Model Showing Half Size Weather Louvre (HSWL)



External Model Showing Full Size Weather Louvre (HSWL)

Each Model is available in an 'Internal or 'External Wall Design'

The Internal Model is suitable for walls up to 130 mm deep and is supplied with a Decorative Surround (DS) to line the wall opening. The External Model is suitable for walls up to 340 mm with a standard Telescopic Duct (TD) and is supplied with a Half Size Weather Louvre (HSWL), this allows the Over Pressure Relief Flap to open fully. Walls deeper than 340mm require a TD - 590 & a Full Size Weather Louvre



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TECHNICAL SUPPORT

PUMA can offer a wealth of experience in sales, application and technical support. Using the latest CAD design software we can provide detailed drawings in dxf or pdf formats

- SERVICES AVAILABLE
- Technical Support
- Installation and Setup
- Maintenance
- Application Support
- Fitting Instructions
- 6 Year Warranty *

BESPOKE SOLUTIONS

Puma Products operate a continuous design and improvement policy and reserve the right to change designs and specifications without notice

CONTACT DETAILS

For more information on any of our products or services please visit us on the Web at:

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Puma™ Products - innovation - design - quality



Puma Products Limited™ has supported the specific requirements of the Data Hall - Server Room - Electronic Data Processing Environment for over 28 years. Located in the South of England, we at Puma are widely recognized as experts in the field of air movement. Our knowledge and expertise have developed many products - such as Fresh Air Supply and Fire Extinguishant Gas Extract Systems, incorporating Fire/Smoke Dampers. The innovative Hot Water Condensate Pumps © continue to lead the market in 'Humidifier Flush Down' disposal.

In 1999 we developed the first Fire Rated Pressure Relief Dampers to relieve the 'Pulse' pressure spike on the release of high pressure Inert Gas Systems - The advent of Synthetic Gas, sealed rooms and integrity testing created the need for the **DUAL FLOW DAMPER**

Nine Vent Sizes Available in Internal and External Wall Versions

Model Number	Free Vent Area in m ²		Hole Cut-out in mm		Approx Weight kg
	Over Pressure	Under Pressure	Width	Height	
DF PRD 150/375	0.021	0.031	220	490	15
DF PRD 300/375	0.041	0.062	370	490	25
DF PRD 450/375	0.062	0.093	520	490	35
DF PRD 450/600	0.093	0.154	520	715	40
DF PRD 600/600	0.124	0.206	670	715	50
DF PRD 750/600	0.154	0.257	820	715	60
DF PRD 675/750	0.185	0.278	745	865	65
DF PRD 825/750	0.227	0.340	895	865	75
DF PRD 975/750	0.254	0.381	1045	865	85

* Refer to Operating and Maintenance Instructions



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