

IG-541(N2/Ar/C02) - IG-55 (N2/Ar) - IG-01(Ar) - IG100 (N2)

POSITIVE FUNCTION

The Inert 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 minimum leakage

INTRINSIC SOUND ABSORPTION

All Pressure Relief Dampers are available with an external Self Closing Door or 'Cat Flap', held in place with a magnetic catch. This provides weather proofing when used on external walls, an intrinsic sound barrier and a positive air, dust & noise seal

THERMAL BARRIER

The Self Closing Door or '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 Inner Fire 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 - White - Special colours are available on request



Weatherproof Cat Flap (CF)

OPERATION

The balanced profiled blades of the Fire Integrity Section (FIS) will commence opening at approximately 60 Pa. The blade opening is progressive and is deemed to be fully open when the blades are open to angle of 62 degrees.

All PRD's are set with balanced weights to provide the maximum Free Vent Area (FVA) at the given operating pressure. Standard pressures are 100 Pa, 250 Pa, 500 Pa, 750 Pa and 1000 Pa.

The Cat Flap section (CF) is fitted with a weather seal and magnetic catch. The Cat Flap will remain shut until the pressure exceeds 90 Pa and does not affect the PRD Free Vent Area. Higher opening pressures are available with magnets with a greater flux capacity.



Telescopic Duct (TD)



2013

Inert Gaseous Extinguishing systems such as IG-541, IG-55, IG-01 and IG-100 require OVER pressure relief

The PUMA range of Fire Rated Pressure Relief Dampers is designed specifically for this purpose. Reference Standards - BS ISO 14520 and BS EN 15004 - Article DG 513 BRE Global.

The range of TWELVE individual models has been designed with the maximum available Free Vent Area 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 13501-2- EW -120, copies available on request.



Anti Intrusion Security Bar

INSTALLATION

For wall depths of up to 130mm only the Fire Integrity Section (FIS) and Cat Flap (CF) are required to fit the 'Stud Wall' or 'Fire Panel'. For Wall depths between 120mm and 180mm a Wall Sleeve (WS) would be required. For Wall depths of 175mm to 340mm a Telescopic Duct (TD) would be required. Special depth Telescopic Ducts can be available on request.

Anti Intrusion Security Bars (AISB) are available for high security sites. These high quality products are manufactured to SEAP Class 3 guidelines. Weather Louvre's (WL) are available as an alternative to Weatherproof Cat Flaps but restrict the wall opening by up to 55%. Adjust your Free Vent Area if selected.



Distributed by:
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Puma™ Products - innovation - design - quality



**PRD Fire Integrity Section (FIS)
Telescopic Duct (TD) and Cat Flap (CF)
Typical Order Code -
PRD 300 FIS-0-TD-CF**

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 (PRD's) to relieve the Over Pressure spike on the release of high pressure Inert Gas Systems - The range has increased to 12 standard sizes . We can offer special sizes in matrix form, paired side by side or one above the other using various blade widths. Stainless Steel 316L versions are available for Offshore and Coastal Environments. See 'DUPLEX ST' leaflet.

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 Advice
- 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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Twelve Vent Sizes Available

Model Number	Free Vent Area in m ²	Hole Cut-out for FIS Only	Weight kg	Hole Cut-out for FIS & CF or CF Only	Weight kg	Hole Cut-out for FIS, TD/ WS & CF	Weight kg	Weather Louvre Free Vent Area in m ²
		Width x Height		Width x Height		Width x Height		
PRD 150	0.021	205 x 205	4.35	215 x 215	6.9	225 x 225	12	0.02
PRD 225	0.042	280 x 280	6.0	290 x 290	10.0	300 x 300	16	0.04
PRD 300	0.079	355 x 355	7.4	365 x 365	12.4	375 x 375	20	0.072
PRD 375	0.124	430 x 430	8.75	440 x 440	14.25	450 x 450	23	0.104
PRD 450	0.178	505 x 505	12.0	515 x 515	17.25	525 x 525	28	0.143
PRD 525	0.252	580 x 580	16.35	590 x 590	26.1	600 x 600	31.2	0.188
PRD 600	0.317	655 x 655	20.6	665 x 665	32.45	675 x 675	45	0.24
PRD 675	0.417	730 x 730	25.0	740 x 740	40.0	750 x 750	52	0.297
PRD 750	0.515	805 x 805	31.85	815 x 815	47.85	825 x 825	64	0.36
PRD 825	0.623	880 x 880	34.5	890 x 890	52.5	900 x 900	72	0.43
PRD 900	0.741	955 x 955	37.0	965 x 965	57.5	975 x 975	76	0.51
PRD 975	0.870	1030 x 1030	39.5	1040 x 1040	62.5	1050 x 1050	81.5	0.59

* Refer to Operating and Maintenance Instructions



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