

1500

Balancing & Volume Control Damper

Advanced Air (UK) Ltd

Burrell Way
Thetford
Norfolk
IP24 3QU

1500 Balancing & Volume Control Damper

The 1500 Balancing Damper has been designed primarily to balance airflow in a fire or smoke rated ductwork system.

The 1500 Balancing Damper is based on our industry-proven 1000 series of dampers – the frame and blade construction are identical as is the linkage mechanism. 1500 has a unique frame which is deeper and the corners are fully welded – there are also enclosures which encase the linkage and bearings, which permits a fire rated coating to be applied without it affecting the operation of the damper. If installed in a fire-rated ductwork system which does not require coverage with such products, then the damper can be left unprotected.

The corners allow connection to most flanging systems and the damper is available semi-sealed and fully sealed. It can also be supplied with manual or motorised options.

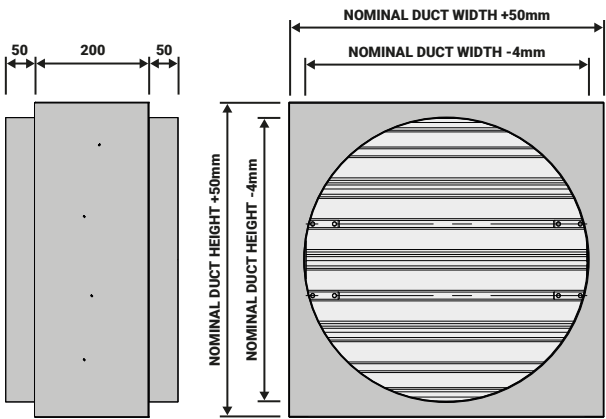
Features and Benefits

- Galvanised steel construction, with stainless steel options.
- Opposed or parallel blades.
- Semi-sealed or fully sealed options.
- Flanged, spigotted, sleeved or wall mounting.
- Hand-locking quadrant.

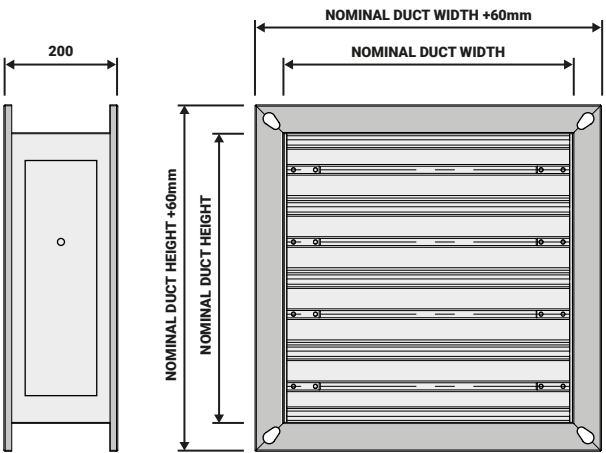


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1500 Dimensions – Circular Spigot



1500 Dimensions – Flange



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Construction

BLADES

Opposed blades – standard.

Parallel blades – optional.

Width – various.

1.6 mm galvanised mild steel – standard.

1.6 mm grade 430 stainless steel – optional.

FRAME

Flange width – 30 mm – standard.
25 or 35mm – optional.

Flange depth – 200mm – standard
180 or 195mm – optional

1.6 mm galvanised mild steel – standard.

1.6 mm grade 430 stainless steel – optional.

CORNERS

Corner plates button-locked for strength and rigidity.

LINKAGE

Fully enclosed, fixed for 90 degree operation, zinc-electroplated mild steel.

SIDE JAMBS

Cambered grade 302 stainless steel.

Duct Sizes

100 x 100mm to 1,200 x 1,800mm.

Damper arrangements greater than the maximum single section size are available and are made of multiple dampers. Please contact Advanced Air sales for multiple sections.

BLADE SEALS

PVC suitable for use up to 80 °C.

Silicon suitable for use up to 175 °C.

BEARINGS

Ø12.7mm oil-filled sintered bronze suitable for use up to 200 °C – standard.

Stainless steel up to 400 °C – optional.

Stainless steel up to 600 °C – optional.

AXLES

Zinc-electroplated mild steel.

SEALS

Semi sealed, fitted with stainless steel side jamb seals – standard.

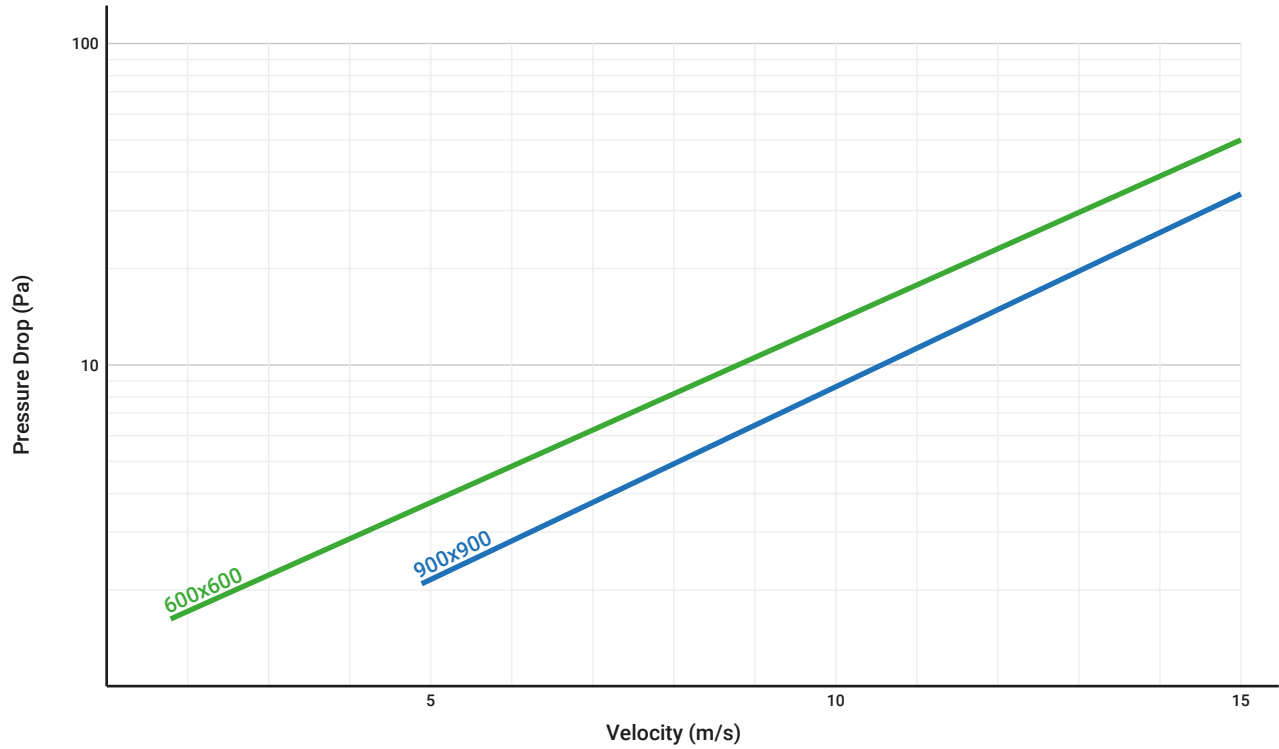
Fully sealed, fitted with blade and side seals (silicone seal only available on parallel blades dampers) – optional.

OPERATING ENVIRONMENT

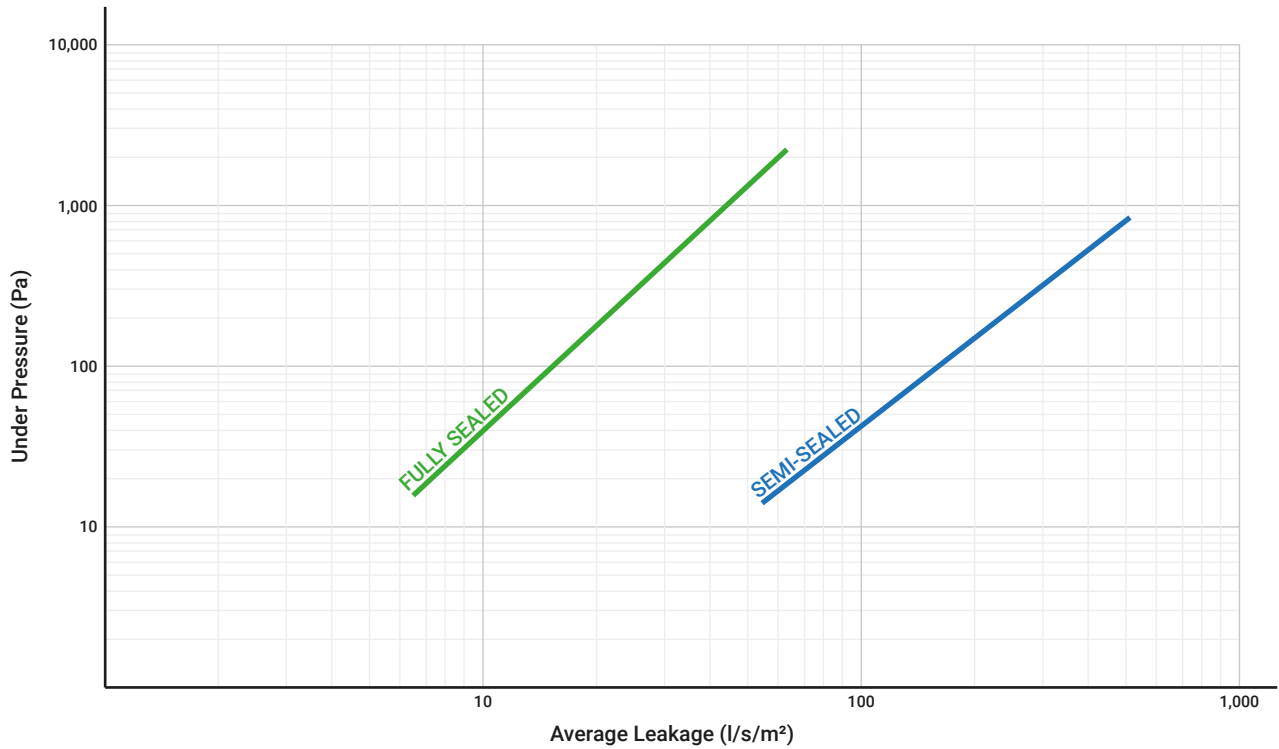
These units are not suitable for installation with a corrosive or hostile environment or an area of high humidity.

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1500 VCD – Pressure Drop, Fully Open (Standard Unit)



1500 VCD – Average Blade Leakage



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1500 Balancing Damper Weights (kg) – Spigoted

	Width (mm)							
	100	200	300	400	500	600	700	
Height (mm)	150	6	7	9	10	12	15	18
	300	7	9	10	13	16	20	22
	450	9	10	12	16	21	24	30
	600	10	13	15	21	25	30	35
	750	12	15	18	24	30	35	40
	900	15	18	21	27	33	39	45
	1,050	16	21	24	31	37	45	50
	1,200	20	22	27	35	42	49	57
	1,350	21	25	30	37	46	54	63
	1,500	22	30	33	42	50	60	69
	1,650	25	30	35	45	54	64	75
	1,800	27	33	37	48	60	70	80