

STANDARD CONSTRUCTION

FRAME:

18 Ga.(1.2mm) GALVANIZED STEEL INTERLOCKING HAT CHANNEL FRAME CONSTRUCTION.

BLADES:

EXTRUDED ALUMINUM DOUBLE SKIN AIRFOIL BLADE.

BEARINGS:

NYLON BEARINGS.

AXLES:

0.47" (12mm) SQUARE ZINC PLATED STEEL STUD

LINKAGE:

CONCEALED IN FRAME 10Ga (3mm) ZINC PLATED STEEL

FINISH:

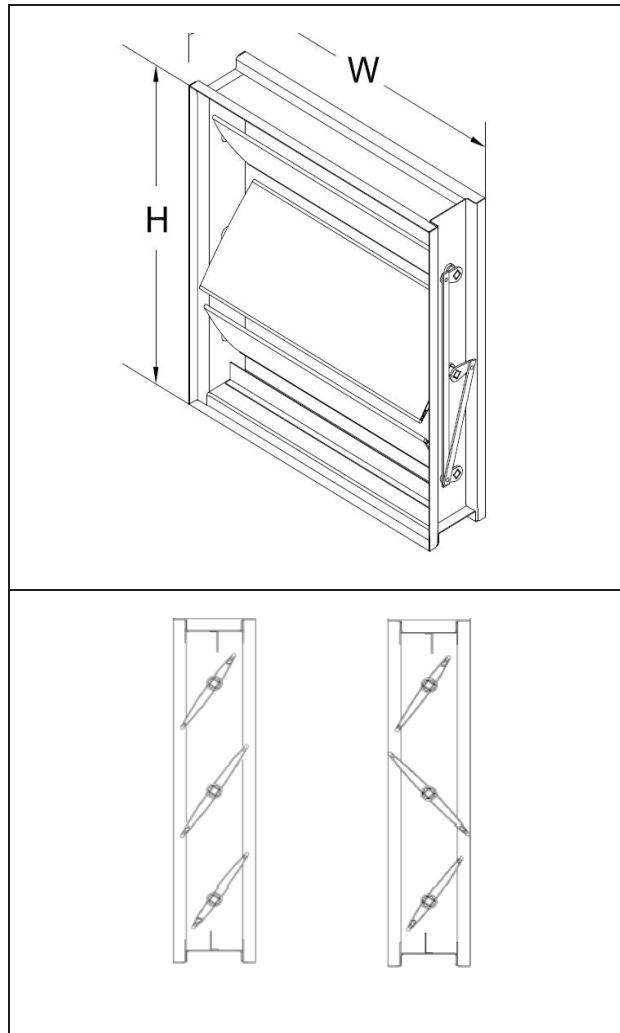
MILL GALVANIZED

STANDARD 2 1/2" EXTENDED SHAFT:

FIXED 12"(0.47mm) DIAMETER OR 12X12mm ZINC PLATED STEEL SHAFT EXTENDING 2 1/2" (63mm) BEYOND THE AIR CONTROL DAMPER FRAME.

MANUAL HAND-QUADRANT:

DIE CAST HAND-QUADRANT PLATED FOR SQUARE OR ROUND SHAFT INSTALLED ON ELEVATED BEARING BRACKET





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VOLUME CONTROL DAMPER

OPTIONS:

- RUBBER FOAM BLADE SEALS.
- SILICONE BLADE SEAL FOR HIGH TEMPERATURE
- STAINLESS STEEL JAMB SEALS.
- BRONZE.
- STAINLESS STEEL BLADE
- STAINLESS STEEL CONSTRUCTION
- STAINLESS STEEL AXLE
- STAINLESS STEEL LINKAGE
- ELECTRIC

SIZES :

SINGLE BLADE:

FLAT TYPE FRAME CONSTRUCTION FOR MAXIMUM AIR FLOW FOR (125mm) HEIGHT (Frame 20Ga). OMEGA TYPE FRAME 150*200MM.

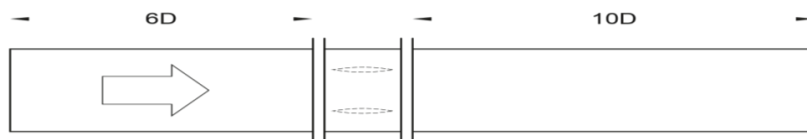
MULTI-BLADES (Opposed Action):

OMEGA TYPE FRAME 150*200MM HEIGHT & ABOVE

AIR PERFORMANCE

Pressure Drop

The tests for pressure prop of Volume Control Dampers were conducted as per ANSI / AMCA Standard 500-D, Figure 5.3 which simulate the actual site condition when installed in ventilation, supply and return air conditioning ductworks.



AMCA Test Figure 5.3

Pressure Drop at Face Area Velocity

300MM*300MM	
VELOCITY (M/S)	PRESSURE DROP (PA)
2.5	1.5
3.8	4.5
5.1	7.5
6.4	11.5
7.7	16.2

600MM*600MM	
VELOCITY (M/S)	PRESSURE DROP (PA)
10.2	20
9	14.9
7.6	11
5.1	5
2.5	1.5

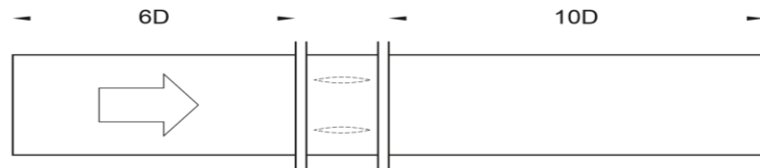
900MM*900MM	
VELOCITY (M/S)	PRESSURE DROP (PA)
13	27.39
10.2	17
7.6	8.7
5.1	4
2.5	1

300MM*1200MM	
VELOCITY (M/S)	PRESSURE DROP (PA)
40	472.8
36	394.7
30.7	283.6
20.4	124.5
10.4	24

1200MM*300	
VELOCITY (M/S)	PRESSURE DROP (PA)
39.2	487.3
36	411
30.7	287.8
20.4	122.51
10.4	30.13

Air Performance

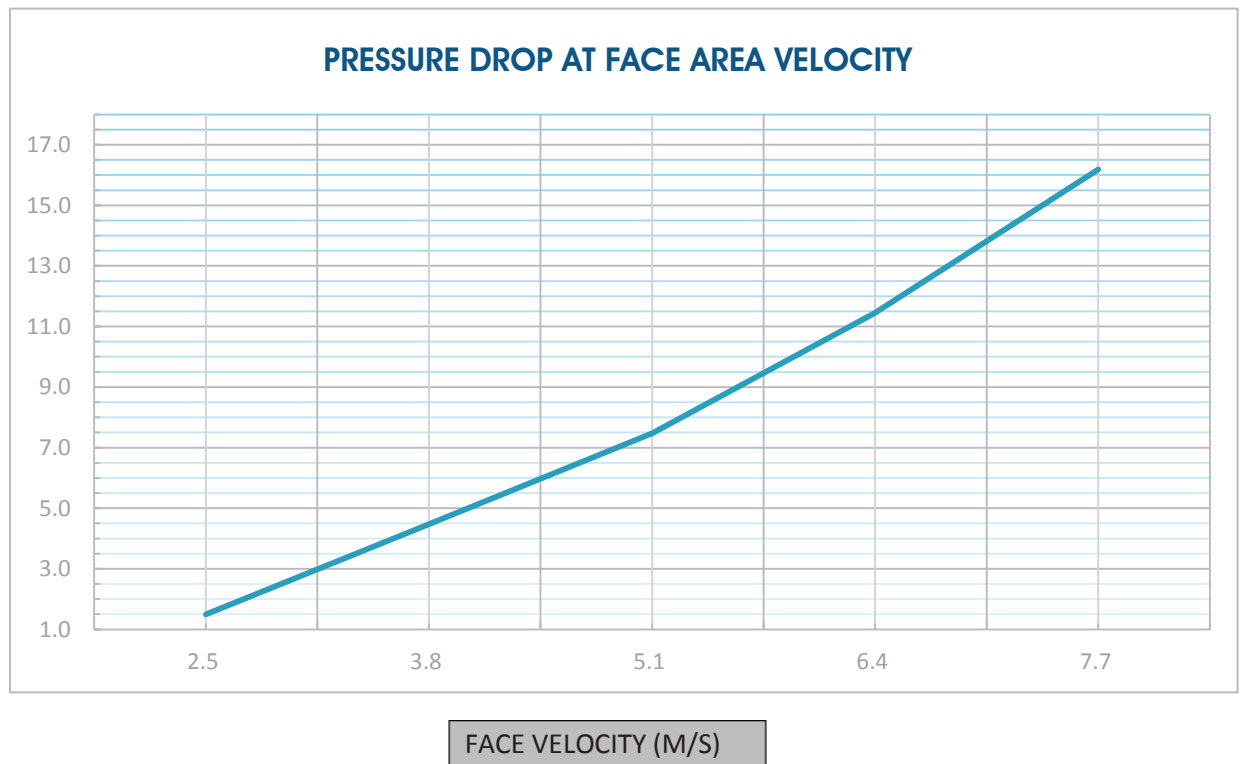
Pressure Drop



AMCA Test Figure 5.3

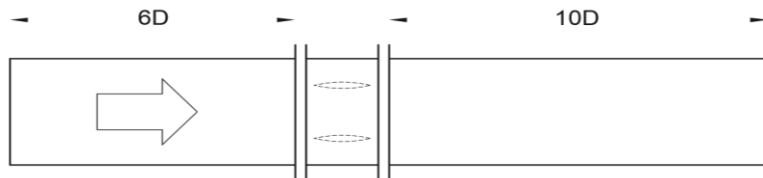
Pressure Drop at Face Area Velocity

DAMPER SIZE: 300MM*300MM - FULLY OPEN BLADES



Air Performance

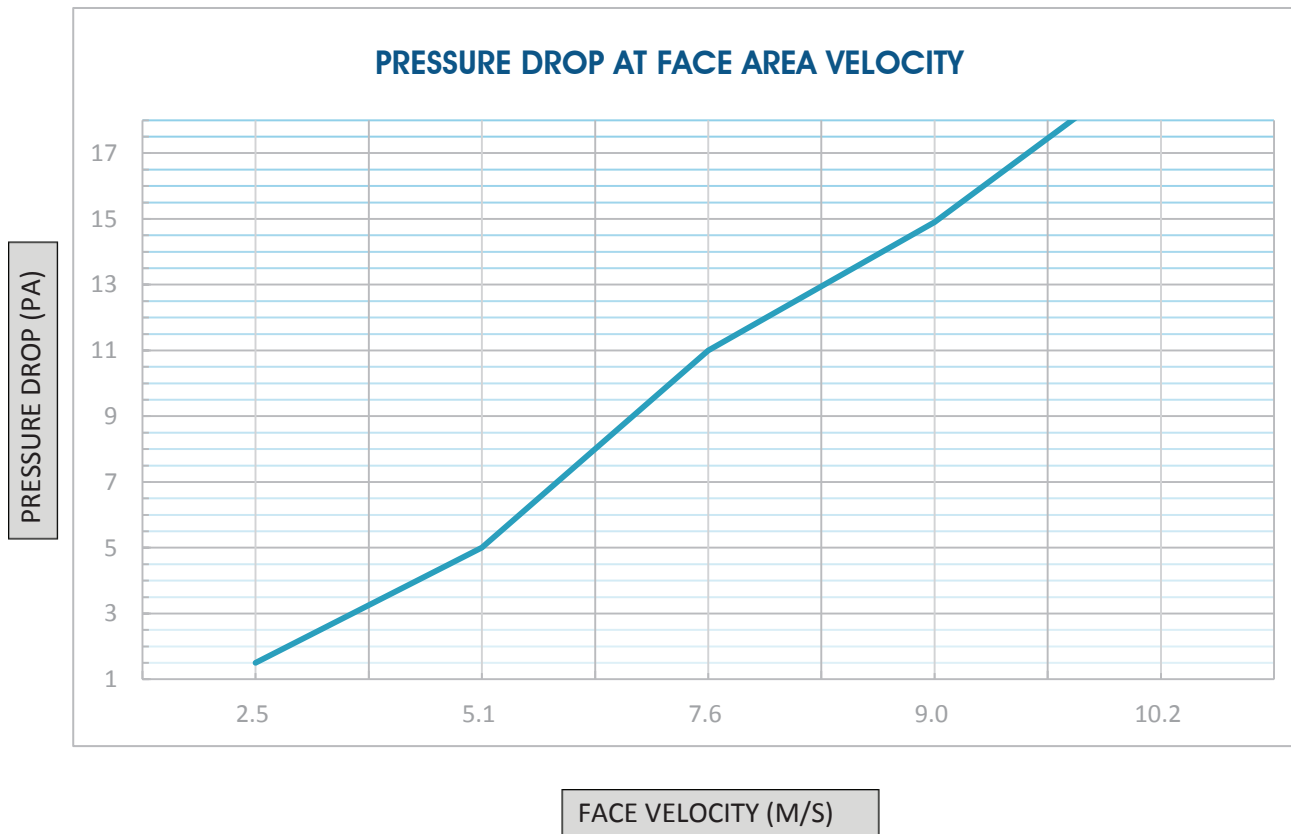
Pressure Drop



AMCA Test Figure 5.3

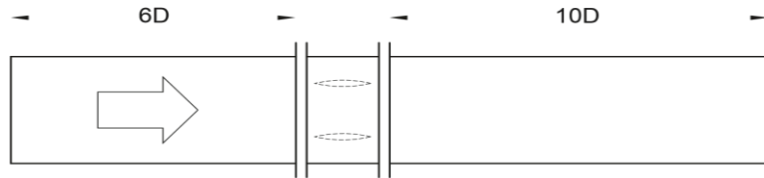
Pressure Drop at Face Area Velocity

DAMPER SIZE: 600MM*600MM - FULLY OPEN BLADES



Air Performance

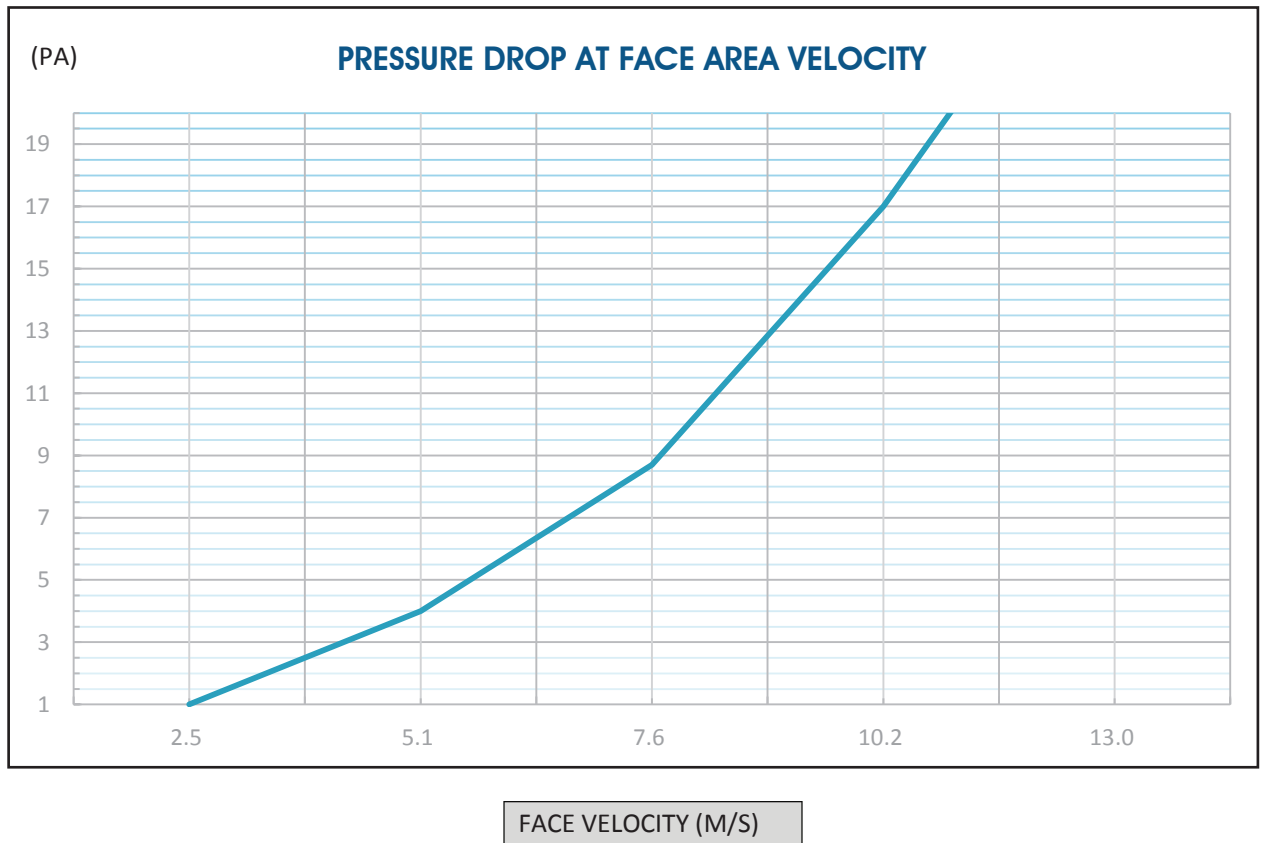
Pressure Drop



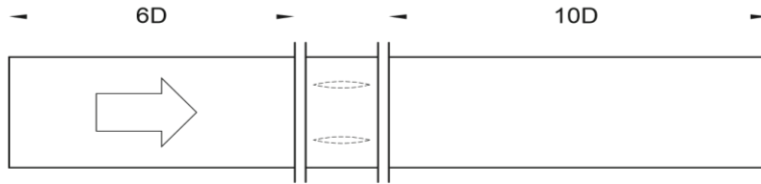
AMCA Test Figure 5.3

Pressure Drop at Face Area Velocity

DAMPER SIZE: 900MM*900MM - FULLY OPEN BLADES



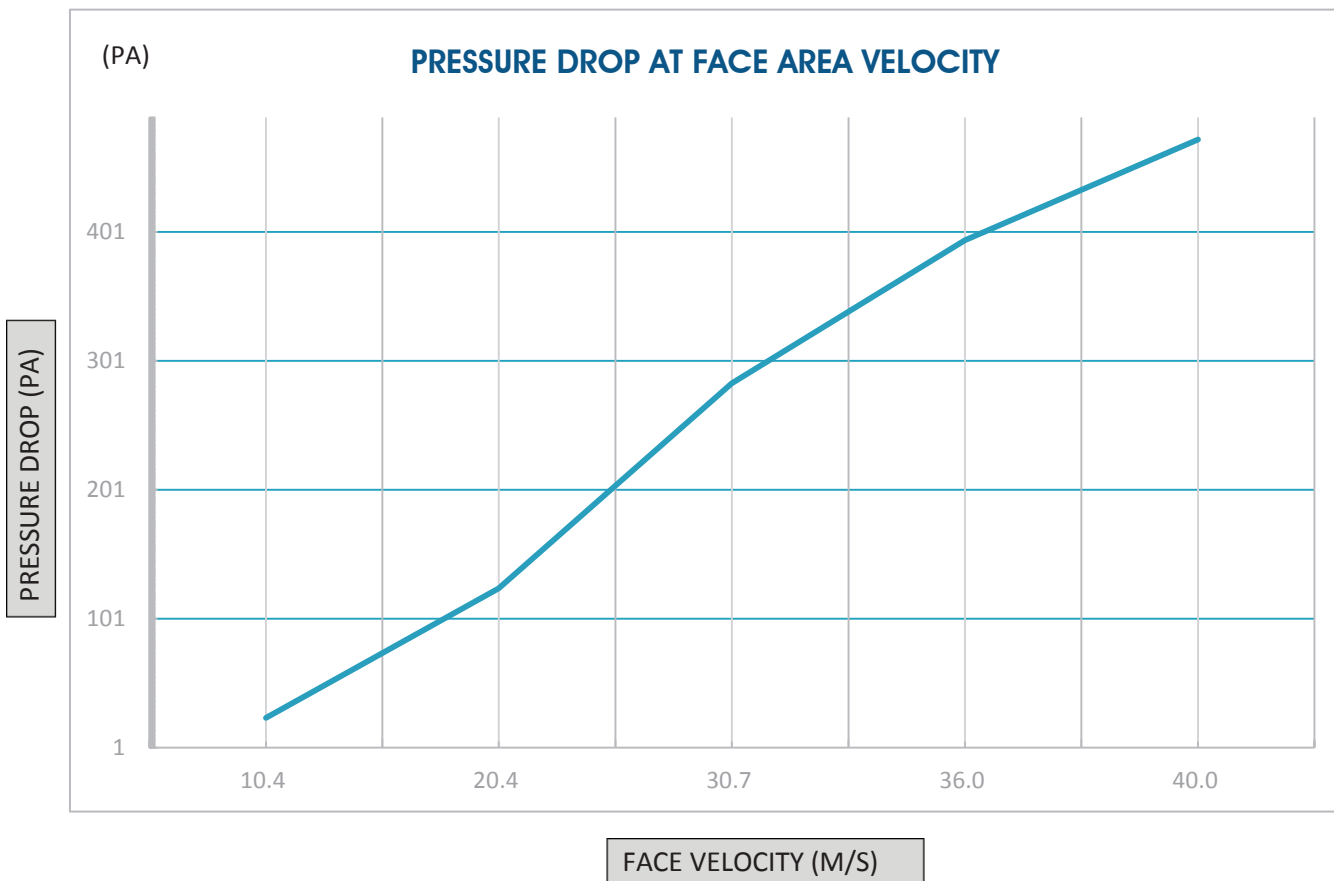
Pressure Drop



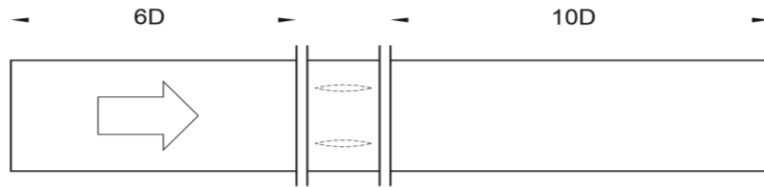
AMCA Test Figure 5.3

Pressure Drop at Face Area Velocity

DAMPER SIZE: 300MM * 1200MM - FULLY OPEN BLADES



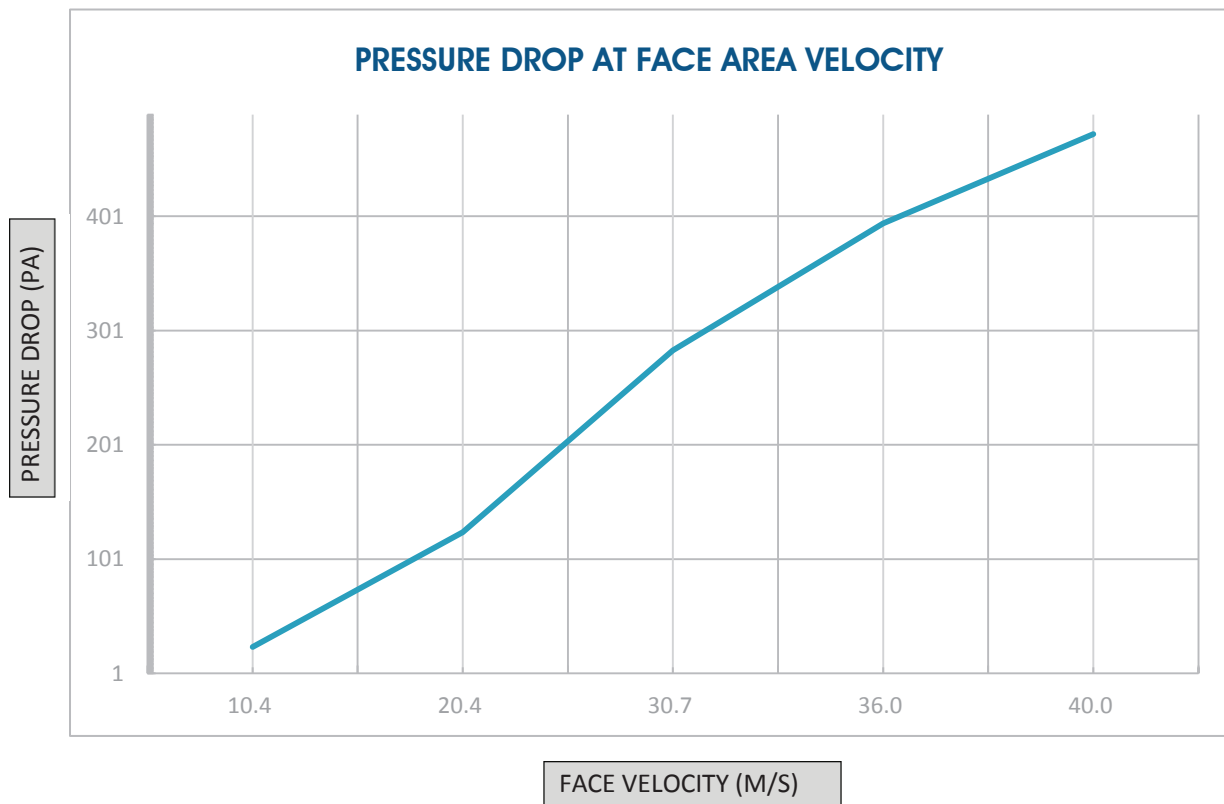
Pressure Drop



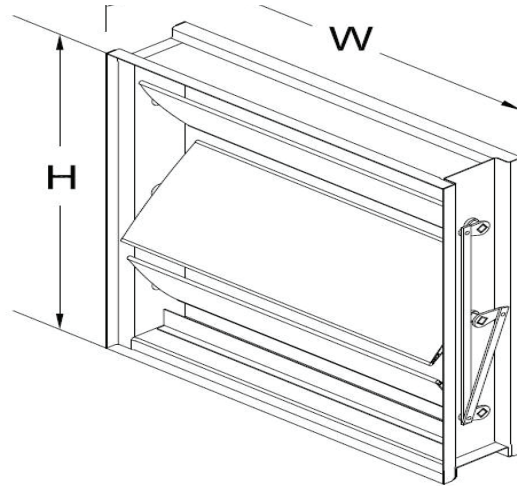
AMCA Test Figure 5.3

Pressure Drop at Face Area Velocity

DAMPER SIZE: 1200MM * 300MM - FULLY OPEN BLADES



MANUAL OPERATION FIXED BLANDE



HEIGHT (MM)	NUMBER OF BLADES
100	1
150	1
200	2
250	2
300	2
350	3
400	3
450	4
500	4
550	4
600	4
650	5
700	5
750	5
800	6
850	6
900	6
950	7
1000	7



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VOLUME CONTROL DAMPER

PRODUCT RANGE

Seals

Construction Variants	Description
	No seals.
	Blade's edge seals. Fitted to seal blades to blade's joint. Blade seal is silicone rubber with temperature resistance up to 175 °C, to minimize air leakage.
	Side seals. Fitted to close gap between frame and blades (jamb seal) to minimize air leakage.
	Combination of S1 & S2. Fitted to close gap between frame and blades and blade's edge seals to seal blades to blade's joints. Blade seals is silicone rubber with temperature resistance up to 175 °C for low air leakage characteristic.

Linkage

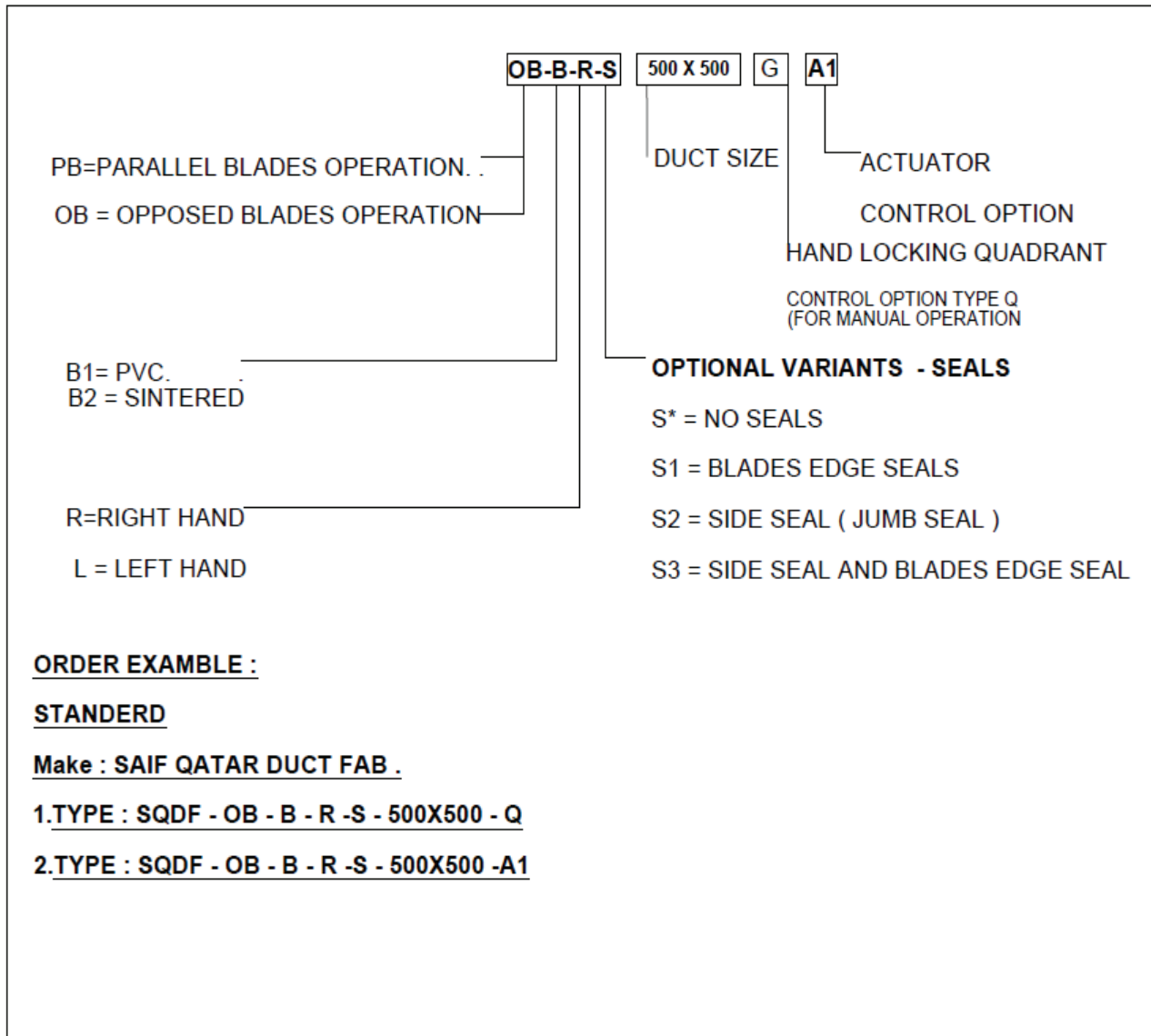
Construction Variants	Description
PB	Side linkage concealed in frame for parallel blade operation.
OB	Side linkage concealed in frame for opposed blade operation.

Bearings

Construction Variants	Description
B1	PVC Bearing
B2	Sintered bronze oilite

ORDER DETAILS

ORDER CODE:



ORDER EXAMBLE :

STANDERD

Make : SAIF QATAR DUCT FAB .

1.TYPE : SQDF - OB - B - R -S - 500X500 - Q

2.TYPE : SQDF - OB - B - R -S - 500X500 -A1





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VOLUME CONTROL DAMPER

STANDERD CONSTRUCTION

FRAME

24 gauge sizes up to 12 in galvanized steel roll formed and Welded double beaded for rigidity and spiral Duct connetion .

BLANDES

Single blade galvanized single "V" formed Stiffener or bolt & nut

Seals

Low – leakage cloced cell neoprene

Bearings

Nolon

Axles

8mm & 12mm square zinc plated steel stud

Finish

Mill galvanized

Standerd extended shaft

8mm & 12mm square and 3' long zinc plated steel Shaft extending 1" beyond the air control Damper frame

Sizes

Minimum : 4 di

Maximum : 24 di

Frame lenth :

150 mm long for sizes : up to 16 di

250 mm long for sizes : abone 16 di

