

TECHNICAL SUBMITTAL SHEET

Submittal Ref No: M004

Project No: Olwen House, 8-20 Loman Street London

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[illegible]

Status A: Accepted

Status B: Accepted subject to comments/Amendments

Status C: Rejected/Resubmit



Supply and Exhaust Valves

VA / VAF / VB / VBF / VC

Introduction

A range of high quality valves for supply and exhaust applications for commercial and industrial projects. Series V valves are best applied to air distribution systems handling relatively low air flow rates within small circular ductwork. The valves provide high initial resistance with wide throttling capability which is necessary to offset the relatively high system resistances. VAF and VBF are passively protected for 60 minutes against the spread of fire.

Product Description

- VA** Supply valve with spindle locknut
- VB** Exhaust valves with spindle locknut
- VAF** Fire rated supply valve with spindle locknut
- VBF** Fire rated exhaust valves with spindle locknut
- VC** Exhaust valve with tamper proof screw locking of inner core

Installation

- All units are supplied with a steel mounting subframe which should be fixed to the prepared opening.
- Cut aperture to suit subframe size shown in table below
- Screw subframe into aperture
- Offer valve body into subframe and rotate into bayonet fixing
- Valves can be made tamper proof with the addition of a lock nut on either side of the rear bracket.

Finishes

Standard - polyester powder gloss white
VC - available as RAL 9010 Gloss

Selection Criteria

Throw is the radius of diffusion ($V_t = 0.2 \text{ m/s}$)
(Supply valve VA/F only).

P_s is the static pressure loss (Pa).

Noise level is based on diffuser sound power level less 8dB room absorption.

Selection Example

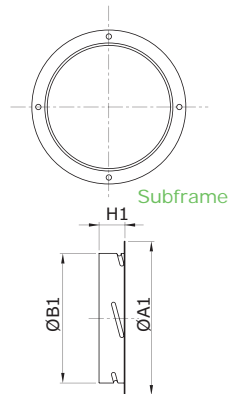
VA/200

Air Volume 80 l/s

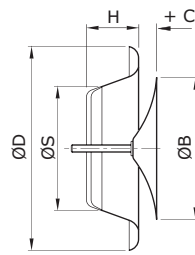
Throw 2.1 m

Pressure Drop 24 Pa

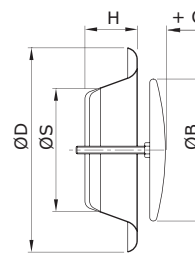
Noise Level <20 dBA



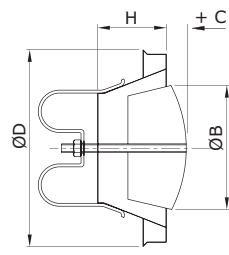
	Subframe				
	Ø 100	Ø 125	Ø 150	Ø 160	Ø 200
B1	100	125	150	160	200
A1	130	155	180	190	236
H1	28	29	31	31	33



Supply Valve VA/F



Exhaust Valve VB/F



Exhaust Valve VC
C - Core adjustment

Performance Tables for C = Max

VA/F	Air Volume										
	m³/h	36	72	108	144	180	216	288	360	432	504
	l/s	10	20	30	40	50	60	80	100	120	140
100 Dia	Throw	0.8	1.2	1.9							
	P _s (Pa)	7	26	60							
	L _w (dBA)		22	34							
125 Dia	Throw			2.0	2.4	2.8	3.1				
	P _s (Pa)			11	27	41	61				
	L _w (dBA)				25	31	37				
150 Dia	Throw			0.8	1.1	1.3	1.6				
	P _s (Pa)			9	16	25	37				
	L _w (dBA)					20	26				
160 Dia	Throw			0.7	1.1	1.3	1.6	2.1			
	P _s (Pa)			10	19	30	44	72			
	L _w (dBA)						28	37			
200 Dia	Throw					1.3	1.6	2.1	2.4	2.0	3.3
	P _s (Pa)					10	14	24	36	44	80
	L _w (dBA)								25	28	37

VC	Air Volume									
	m³/h	36	72	108	144	180	216	288		
	l/s	10	20	30	40	50	60	80		
100 Dia	P_s (Pa)	10	39	85						
	L_w (dBA)	20	25							
125 Dia	P_s (Pa)		16	34	62					
	L_w (dBA)			22	28					
150/160 Dia	P_s (Pa)		8	16	30	45	70			
	L_w (dBA)					22	28			
200 Dia	P_s (Pa)			12	20	32	50	80		
	L_w (dBA)						24	34		

VB/F	Air Volume										
	m³/h	36	72	108	144	180	216	288	360	432	504
	l/s	10	20	30	40	50	60	80	100	120	140
100 Dia	P _s (Pa)	4	21	50							
	L _w (dBA)	-	-	25							
125 Dia	P _s (Pa)		9	19	35						
	L _w (dBA)				20						
150/160 Dia	P _s (Pa)		6	12	22	32	47				
	L _w (dBA)					20	27				
200 Dia	P _s (Pa)					7	11	18	29	37	60
	L _w (dBA)								22	25	30

Ø 160mm not available in VAF or VBF

ORDER EXAMPLE

VA/125

Type _____

Size _____

	VA/F					VB/F					VC				
	Ø 100	Ø 125	Ø 150	Ø 160	Ø 200	Ø 100	Ø 125	Ø 150	Ø 160	Ø 200	Ø 100	Ø 125	Ø 150	Ø 160	Ø 200
Ø D	137	161	202	212	249	137	161	202	212	248	135	160	187	189	240
S	74	97	117	127	156	74	97	117	127	156					
B	94	110	135	145	194	75	100	120	130	157	87	103	120	130	175
H	47	49	50	54	63	47	49	50	54	63	50	47	47	47	47