

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. All valves are constructed from steel spinings protected by a polyester powder gloss white finish. Flanges are fitted with sealing gaskets and all units are supplied as standard with plated steel mounting subframes.

Product Description

- VA** Supply valve with spindle locknut
- VB** Exhaust valves with spindle locknut
- VC** Exhaust valve with tamper proof screw locking of inner core

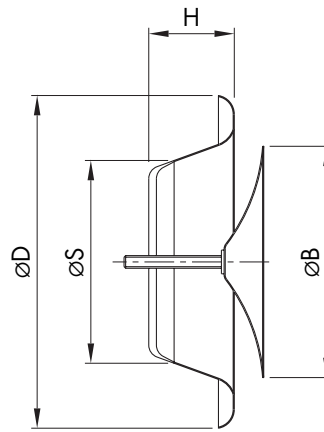
Installation

All units are supplied with a steel mounting subframe which should be fixed to the prepared opening.

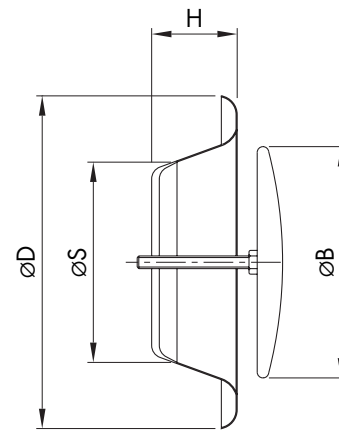
- Cut aperture to suit subframe size shown in table below
- Screw subframe into aperture
- Offer valve body into subframe and rotate into bayonet fixing

Finishes

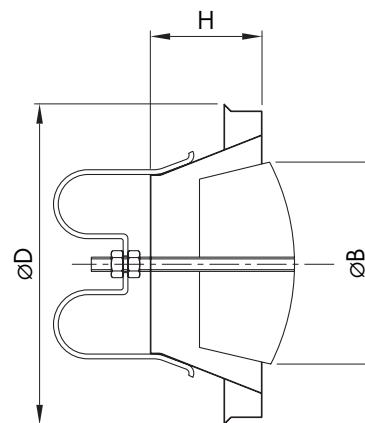
Standard - polyester powder gloss white
Other colours are available on request



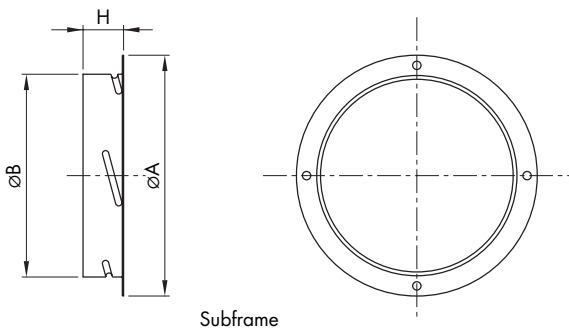
Supply Valve - **VA**



Exhaust Valve - **VB**



Exhaust Valve - **VC**

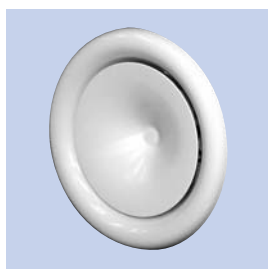


	Subframe			
	ø100	ø125	ø160	ø200
B	100	125	160	200
A	130	155	190	236
H	28	29	31	33

Order Example

Type VA / Size 125

	VA				VB				VC			
	ø100	ø125	ø160	ø200	ø100	ø125	ø160	ø200	ø100	ø125	ø160	ø200
øD	137	161	212	249	137	161	212	248	135	165	197	240
S	74	97	127	156	74	97	127	156	—	—	—	—
B	94	110	145	194	75	100	130	157	87	103	130	155
H	47	49	80	75	47	49	60	64	50	47	47	47



Selection Criteria

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

Ps is the static pressure loss (Pa).

dBA is the 'A' weighted sound pressure level based on 8dB room absorption.

Selection Example VA/200

Air Volume 80 l/s

Throw 2.0 m

Pressure Drop 27 Pa

Noise Level NR25

Performance Table

VA		Air Volume										
		m ³ /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 (m)	0.8	1.2	1.9	2.2							
	Ps	7	19	42	70							
	Lw	-	20	25	45							
125 Dia	Throw (m)		1.4	2.0	2.4	2.8	3.2					
	Ps		7	18	27	45	65					
	Lw		-	20	26	32	37					
160 Dia	Throw (m)			0.8	1.1	1.5	1.7	2.1	2.6			
	Ps			8	18	30	40	75	120			
	Lw			-	23	28	32	42	47			
200 Dia	Throw (m)				1.1	1.4	1.6	2.0	2.3	2.7	3.0	
	Ps				8	13	17	27	42	55	72	
	Lw				-	-	-	25	32	37	43	

VB		Air Volume										
		m ³ /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	Ps	9	38	88	145							
	Lw	-	20	32	40							
125 Dia	Ps	8	30	70	130	170						
	Lw	-	-	24	32	37						
160 Dia	Ps		15	35	55	95	130					
	Lw		-	20	24	30	35					
200 Dia	Ps				7	13	19	32	55	70	90	
	Lw				-	-	-	27	33	37	41	

VC		Air Volume										
		m ³ /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	Ps	22	75	150								
	Lw	-	24	33								
125 Dia	Ps	8	32	55	95	130	180					
	Lw	-	21	25	29	34	40					
160 Dia	Ps	6	20	42	75	120	160					
	Lw	-	-	20	26	33	37					
200 Dia	Ps			9	16	24	34	55	85	110	150	
	Lw			20	22	24	27	32	37	43	47	