



VAV dampers with Belimo actuator type VAV-S-MP

Controls

- Controller type Belimo LMV-D3-MP of 5Nm (size 100 up to 500) and Belimo NMV-D3-MP of 10Nm (size 630) are pressure regulated actuators for pressure independent controls. Settings can be done by using the Assistant App* (smartphone) with NFC connection (Near Field Communication) or by using the service tool ZTH (PC-tool).
- Operating range 0-10V or 2-10V (Standard set on 0-10V)
- Units of airflow: l/s or m³/h
- Minimum adjustable air volume set at air velocity at +/- 2m/s and maximum adjustable airvolume set at air velocity of 12m/s
- Differential pressure range Δp @ V_{nom} 38 - 500 Pa
- Running time over the full actuator range : 100s
- Power consumption 5 Nm: 2W, 3.5VA / 10 Nm: 3W , 5VA
- Supply voltage 24V AC/DC
- * Assistant App available in App Store & Google Play Store
- * For iPhone an ZIP-BT-NFC converter is needed!

Options

- Insulated version **VAV-CSB-I** available upon request
- Other communication types (ModBus, KNX) and other brands of servomotors available on request

Selection table			
Type VAV	ØD [mm]	Q _{min} [m ³ /h]	Q _{max} [m ³ /h]
VAV-S 100 MP	100	37	343
VAV-S 125 MP	125	54	540
VAV-S 160 MP	160	90	900
VAV-S 200 MP	200	145	1459
VAV-S 250 MP	250	217	2215
VAV-S 315 MP	315	380	3680
VAV-S 355 MP	355	482	4275
VAV-S 400 MP	400	615	6047

Variable Volume valves (VAV)

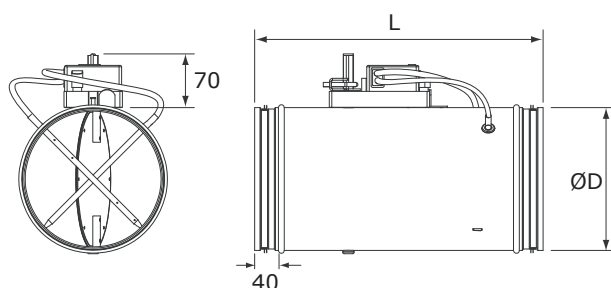
Radiated sound data								
VAV-S MP		ΔL_w						
Size		100	125	160	200	250	315	400
f[Hz]	63	31	30	30	29	25	22	20
	125	30	29	29	28	24	22	19
	250	27	25	24	23	20	19	18
	500	21	21	21	22	18	17	17
	1000	19	18	19	21	16	15	15
	2000	11	12	16	18	14	13	12
	4000	11	12	14	16	12	11	10
	8000	9	10	12	13	11	10	10
VAV-S ISO MP		ΔL_w						
Size		100	125	160	200	250	315	400
f[Hz]	63	33	32	32	31	27	24	22
	125	28	29	32	31	27	25	23
	250	26	24	24	26	23	23	22
	500	26	27	28	33	29	29	29
	1000	34	33	34	39	35	34	35
	2000	33	33	38	44	42	41	39
	4000	37	37	40	43	36	35	33
	8000	31	32	34	35	31	29	29

$$L_{w2} = L_w - \Delta L_w$$

L_{w2} = Case radiated noise in dB

L_w = Sound power given for the frequencies f[Hz] from 63 up to 8000 Hz

ΔL_w = Correction values for case radiated noise in dB



	Dimensions	
	ØD [mm]	L [mm]
VAV-S 100 MP	98	400
VAV-S 125 MP	123	400
VAV-S 160 MP	158	400
VAV-S 200 MP	198	400
VAV-S 250 MP	248	500
VAV-S 315 MP	313	600
VAV-S 355 MP	353	600
VAV-S 400 MP	398	600