



# DECA VIBRATOR

Division of DECA Products, Inc.

## PNEUMATIC LINEAR VIBRATORS WITH EXTERNAL PISTON

*Model DOV-AL Series*



*Vibration Technology*

# DOV-AL SERIES Vibration Technology

## Description

DOV-AL Series Pneumatic Linear Vibrators with External Piston are similar to the Standard DOV design but have anodised aluminum housings which can be operated on greatly reduced lubrication and in some cases can be lubrication free. Linear vibrating force is delivered by a noiseless air cushioned piston. Frequency and amplitude can be regulated independently. Using additional masses the vibrator is able to work at low frequencies and to generate large amplitudes. DOV-AL linear oscillating vibrators combine the advantages of low frequency rotary vibrators (large amplitudes) with those of magnetic vibrators (adjustable amplitudes). Additionally, they have the advantage of being able to select the most suitable frequency to obtain optimum results.

## Application

These compact robust range of linear vibrators, available in 4 popular sizes, are suitable for use in a wide number of applications, to assist in the flow and control of many materials. The following being some of the more common:

**Feeders:** Natural Frequency Feeders. Particularly good for feeding light materials where large amplitudes are required.

**Tables:** For packing industry, foundries for core making, up to loads of 1000 Kgs/2200 Lbs.

**Screens:** Very effective on small screens for materials of low specific gravity, granular materials and powder.

**Hoppers:** Certain applications where larger materials bridge. Not suitable for sticky or ratholing materials.

## Accessories

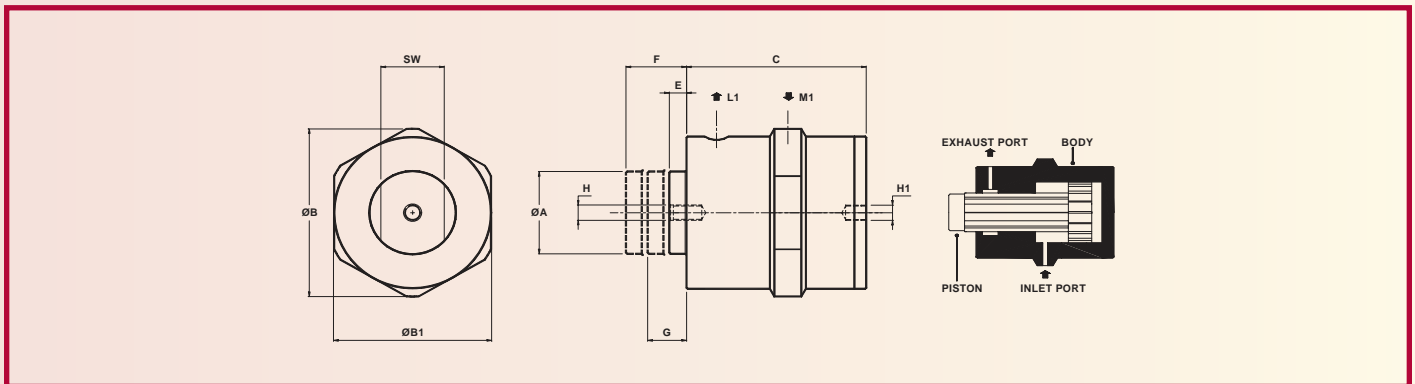
Silencers and suitable air inlet fittings are supplied with these vibrators. Please allow us to quote you for other fittings and control equipment.

## General Maintenance

The DOV-AL model vibrators have a long life with no undue piston or cylinder wear when minimal lubrication is used. The air line filter and lubricator, if used, must be inspected and cleaned at regular intervals. Dirt or contaminated oil will slow down or stop the vibrator.

## OVERALL DIMENSION

Model	A		B		B1		C		E		F		G		H	H1	L1	M1	SW		WEIGHT					
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in					mm	in	Housing		Piston		Total	
																					Kg	lb	Kg	lb	Kg	lb
DOV-AL-8	8	0.31	25	0.98	20	0.79	91	3.58	5	0.20	32	1.26	24	0.94	M5	M6	M5	M5	7	0.28	0.051	0.11	0.036	0.08	0.1	0.22
DOV-AL-18	18	0.71	53	2.09	48	1.89	117	4.61	8	0.31	41	1.61	32	1.26	M10	M10	1/8"	1/8"	14	0.55	0.45	0.99	0.245	0.54	0.73	1.61
DOV-AL-25	25	0.98	69	2.72	60	2.36	140	5.51	8	0.31	48	1.89	38	1.50	M16	M16	1/4"	1/4"	22	0.87	0.78	1.72	0.56	1.23	1.41	3.11
DOV-AL-40	35	1.38	88	3.46	78	3.07	140	5.51	14	0.55	51	2.01	41	1.61	M16	M16	1/4"	1/4"	27	1.06	1.13	2.49	1.41	3.11	2.56	5.64



## TECHNICAL DATA

Model	2 BAR - 30 PSI								4 BAR - 60 PSI								6 BAR - 90 PSI								
	Vibration		Force		Working moment		Air consump.		Vibration		Force		Working moment		Air consump.		Vibration		Force		Working moment		Air consump.		
	V/min	Kg	lb	Kg*cm	in*lb	L/min	Cfm	V/min	Kg	lb	Kg*cm	in*lb	L/min	Cfm	V/min	Kg	lb	Kg*cm	in*lb	L/min	Cfm	V/min	Kg	lb	
DOV-AL-8	2050	1.2	2.70	0.05	0.043	8	0.3	2900	3.0	6.70	0.06	0.052	18	0.6	3400	4.31	9.50	0.06	0.052	30	1.1				
DOV-AL-18	1420	6.1	13.50	0.45	0.389	20	0.7	1900	14.3	31.50	0.54	0.467	40	1.4	2250	20.96	46.20	0.54	0.467	60	2.1				
DOV-AL-25	1130	12.2	27.0	1.14	0.986	40	1.4	1550	27.1	59.70	1.37	1.185	110	3.9	2020	54.16	119.40	1.26	1.090	155	5.4				
DOV-AL-40	1240	21.0	46.2	2.00	1.730	75	2.6	1550	34.75	76.60	2.20	1.903	220	7.7	2010	66.91	147.50	3	2.595	350	12.3				



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