

# FAL - VTL

# OSCILLATOR



## Features and Benefits

Vibrator stops instantly when air is turned off. The dribble feed is reduced dramatically when FAL is used in feeders applications.

For moving or feeding certain kinds of materials, sometimes low frequency and high amplitude are required. FAL and VTL have been designed to meet these needs.

By adjusting air flow the ideal product frequency can be reached.

Noise level never exceeds 75 dBA

The "housing mode" produces very high amplitudes at much lower frequencies.



## Possible Applications

This compact and robust linear vibrator is available in 9 popular sizes and is suitable for use in a wide range of applications.

**Feeders:** Natural Frequency Feeders  
Particularly good for feeding light materials where large amplitudes are required. Precision of batch weighing can be considerably enhanced.

**Tables:** For packing industry, foundries for core making.

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

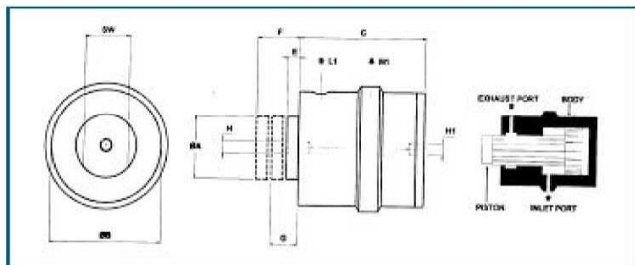
**Hoppers:** Certain applications where larger materials bridge. Not suitable for sticky or ratholing materials.

## PERFORMANCE DATA

MODEL	HOUSING MATERIAL	FREQUENCY			FORCE OUTPUT			AIR CONSUMPTION		
		30 PSI	60 PSI	90 PSI	30 PSI	60 PSI	90 PSI	30 PSI	60 PSI	90 PSI
		vpm	vpm	vpm	lbs	lbs	lbs	cfm	cfm	cfm
FAL 8	Aluminum	2000	2800	3400	3	7	9	0.06	0.2	0.3
FAL 18	Aluminum	1400	1800	2200	13	25	55	0.5	1	2.3
FAL 25	Aluminum	1100	1600	2000	25	50	110	1	2	5
FAL 35	Aluminum	1200	1650	2000	45	90	200	2.8	6	15
VTL 15	Nylon	1800	2300	2800	9	13	16	0.8	1.9	1.1
VTL 16	Cast Iron	1900	2300	2600	10	14	19	0.7	1.6	2.5
VTL 25	Cast Iron	1600	1800	2300	20	35	50	2.0	4.5	7
VTL 40	Cast Iron	1400	1700	2000	45	70	100	3	8	14
VTL 55	Cast Iron	1600	2100	2500	100	170	250	5	15	25
VTL 85	Cast Iron	1800	2200	2600	160	210	250	11	22	32

## How It Works

A steel piston within an aluminum (or cast iron) body is made to move in a reciprocating motion thus generating vibrations without striking cylinder walls. The option of externally applied weights allows vibration force, amplitude and frequency to be adjusted.



## DIMENSIONS

MODEL	A	Width	C	E	F	G	H MOUNTING	L (BSP) OUTLET	M (BSP) INLET	Weight (lbs)
FAL 8	3.58"	1.22	1.33"	0.20	1.25	0.85	M6	1/8"	M-5	0.9
FAL 18	4.61"	1.89"	1.65"	0.32"	1.61"	1.26"	M 10	1/8"	1/8"	1.6
FAL 25	5.51"	2.36"	2"	0.32"	1.89"	1.50"	M 16	1/4"	1/4"	3.3
FAL 35	5.51"	3.07"	2.56"	0.55"	2.00"	1.61"	M 16	1/4"	1/4"	5.7
VTL 15	0.59	1.97	4.50	0.35	1.69	0.59	M10	1/8"	1/8"	1
VTL 16	0.63	1.93	4.33	0.20	1.57	0.72	M10	1/8"	1/8"	3
VTL 25	0.98	2.52	5.43	0.35	2.13	1.08	M16	1/4"	1/4"	7
VTL 40	1.60	3.31	5.51	0.47	2.24	0.95	M16	1/4"	1/4"	12
VTL 55	2.17	4.33	4.92	0.67	2.17	0.78	M20	3/8"	3/8"	17
VTL 85	3.35	6.30	4.80	0.79	2.17	0.66	M20	3/8"	3/8"	37