# *VTL Series*

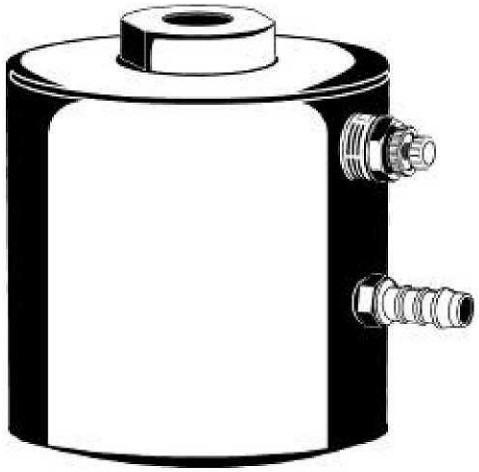
# OSCILLATORS

The VTL is one the newest innovations in vibration technology of the last 15 years. It looks like a typical piston but it has proven to be the most flexible linear force vibrator on the market today.

Customers can adjust frequency, amplitude and force independently, thus enabling the VTL to operate with all kinds of materials and with all kinds of loads.

## How It Works

A steel piston within a cast iron body is made to move in a reciprocating motion thus generating vibrations without striking cylinder walls. An external weight allows vibration force and frequency to be adjusted.



## Features

Unidirectional vibration.

Adjustable frequency and amplitude.

High reciprocating force.

Extremely quiet.

Wide range of frequencies and force adjustments.

## Benefits

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

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

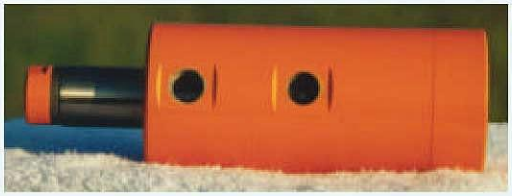
By adding external weights, amplitude can be varied.

Noise level never exceeds 75 dBA

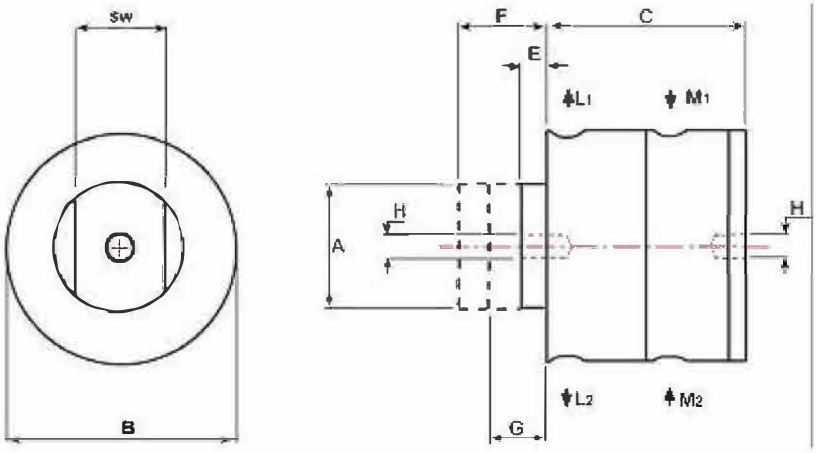
The “housing mode” produces very high amplitudes at much lower frequencies.

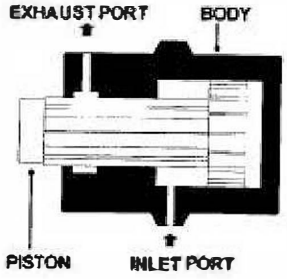
When air is turned off vibrator stops instantly.

In vibratory feeder applications precision of batch weighing can be considerably enhanced.

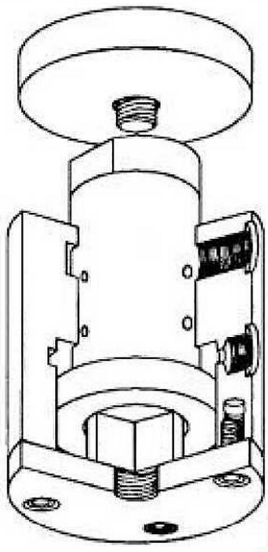


| PERFORMANCE | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODEL | | FREQUENCY | | | FORCE OUTPUT | | | DYNAMIC MOMENT | | | AIR CONSUMPTION | | | WEIGHT |
| | | 30 PSI | 60 PSI | 90 PSI | 30 PSI | 60 PSI | 90 PSI | 30 PSI | 60 PSI | 90 PSI | 30 PSI | 60 PSI | 90 PSI | |
| | | VPM | VPM | VPM | LBS | LBS | LBS | IN-LBS | IN-LBS | IN-LBS | CFM | CFM | CFM | LBS |
| VTL 15 | Piston | 1800 | 2300 | 2800 | 9 | 13 | 16 | 0.18 | 0.19 | 0.21 | 0.8 | 1.9 | 3.1 | 1.1 |
| VTL 16 | Piston | 1800 | 3500 | 2600 | 10 | 14 | 19 | 0.18 | 0.21 | 0.21 | 0.7 | 1.6 | 2.5 | 3.3 |
| | Housing | 600 | 750 | 900 | 11 | 18 | 25 | 2 | 2.4 | 2.8 | 0.3 | 0.9 | 1.5 | |
| VTL 25 | Piston | 1400 | 1850 | 2300 | 20 | 35 | 50 | 0.7 | 1.2 | 1.7 | 2.0 | 4.5 | 7 | 7 |
| | Housing | 700 | 800 | 900 | 25 | 50 | 80 | 5 | 8 | 12 | 1.5 | 2.6 | 4 | |
| VTL 40 | Piston | 1400 | 1700 | 2000 | 45 | 70 | 100 | 1.7 | 2.2 | 2.6 | 2.8 | 8 | 14 | 12 |
| | Housing | 700 | 900 | 1100 | 75 | 110 | 140 | 9 | 11 | 13. | 8.8 | 10 | 12 | |
| VTL 55 | Piston | 1600 | 2010 | 2500 | 100 | 170 | 250 | 2.7 | 3 | 3.3 | 5.0 | 15 | 25 | 17 |
| | Housing | 850 | 1100 | 1400 | 170 | 240 | 350 | 15 | 16 | 18 | 4.0 | 11 | 18 | |
| VTL 85 | Piston | 1600 | 2300 | 2700 | 160 | 210 | 250 | 3.5 | 3.9 | 4.2 | 11.0 | 22 | 32 | 37 |
| | Housing | 1000 | 1250 | 1500 | 260 | 400 | 520 | 18 | 19 | 23 | 25.0 | 26.0 | 35 | |




| DIMENSIONS (inches) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| MODEL | A | B | C | E | F | G | H | L | M | SW |
| VTL 15 | 0.59 | 1.97 | 4.50 | 0.35 | 1.69 | 0.59 | M10 | 1/8 | 1/8 | 0.51 |
| VTL 16 | 0.63 | 1.93 | 4.33 | 0.20 | 1.57 | 0.72 | M10 | 1/8 | 1/8 | 0.55 |
| VTL 25 | 0.98 | 2.52 | 5.43 | 0.35 | 2.13 | 1.08 | M16 | 1/4 | 1/4 | 0.87 |
| VTL 40 | 1.60 | 3.31 | 5.51 | 0.47 | 2.24 | 0.95 | M16 | 1/4 | 1/4 | 1.26 |
| VTL 55 | 2.17 | 4.33 | 4.92 | 0.67 | 2.17 | 0.78 | M20 | 3/8 | 3/8 | 1.81 |
| VTL 85 | 3.35 | 6.30 | 4.80 | 0.79 | 2.17 | 0.66 | M20 | 3/8 | 3/8 | - |



Different force outputs and amplitudes can be obtained by adding/subtracting external weight combinations.

The vibrator body itself can become a counterweight when the shaft is bolted to the surface or to the machine to be vibrated.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