



# Powerfull High Quality Hydraulic Concrete Vibrator





## About us,

Essa Group Machinery Company started the development and manufacture of innovative tools for durable concrete that can withstand harsh conditions.

Our vision identifies customer needs and works to achieve it, to provide the best tools for the toughest heavy-duty jobs.

With the development of the industry, it has succeeded in making robust, reinforced concrete tools with its innovative, durable straight and angled hydraulic vibrator design with patented in accordance with International and National Standards.

Our company; designs, installs, tests advanced technology products and supplies them to the market with the international quality management system ISO 9001, CE certified and continues to monitor and develop material compatibility and improving the mixture in concrete with placement movements through vibration.

As a result of long studies, our company team is excited to realize the hydraulically driven vibrator for the first time and continue to work in the development of new products.



# Hydraulic Vibrator Model SVS-2



## Overview

Essa Concrete Vibrator Technology provides the following benefits:

- Thanks to the unique orbital arrangement of the vibrator, it hardens the concrete up to 50% better and strengthens it faster.
- As concrete mix design develops to meet today's demanding business requirements, Essa Concrete Vibrator provides easier operation, produces smooth surfaces in solid concrete with greater durability properties in concrete.

\*\*\* Optional POLYURETHANE COATING of vibrator bodies prevents damage to rebars when structural steel reinforcements are used (steel reinforcement).



## Applications

- Slipform Concrete Pavers
- Multi Purpose Curb & Gutter Machines
- Concrete laboratory

## Features

Head Diameter	2-5/8" (66.67mm)
Centrifugal Force (10,000 VPM)	2,232 LBS (9,930N)
Amplitude	0.126" (3.20mm)
Diameter Of Influence @ 10,500 VPM	26.50"-30.50" (673.1mm-774.7mm)
Diameter Of Influence @ 8,000 VPM	20.25"-24.25" (514.3mm-615.9mm)
Maximum Flow	4GPM (15.14 l/min)
Normal Operating Pressure	800-1,300PSI (5.51-8.96MPa)
Back Pressure Maximum	150 PSI (1.03MPa)

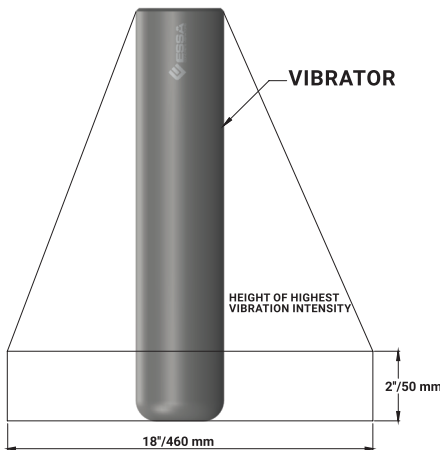
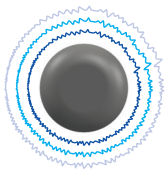
Rated For Pressure Up To 2500PSI (17.24MPa)

## Order Information

- Includes,
- Vibrator Head – Hydraulic Motor with 2500# rotor,
  - Hydraulic Hoses and Safety Hose

## Model No      Specs

SVS-153-150	2-1/4" with extended straight tube
SVS-153-130	2-1/4" with vertically adjustable mounting bracket
SVS-153-156	2-1/4" with extended straight tube and "shark fin" mounting bracket
SVA-153-170	2-1/4" with single isolator, 45° angle tube with prayer mounting bracket
SVS-153-156-CB	2-1/4" with extended straight tube and "shark fin" mounting bracket



EFFECTIVE ZONE WIDTH

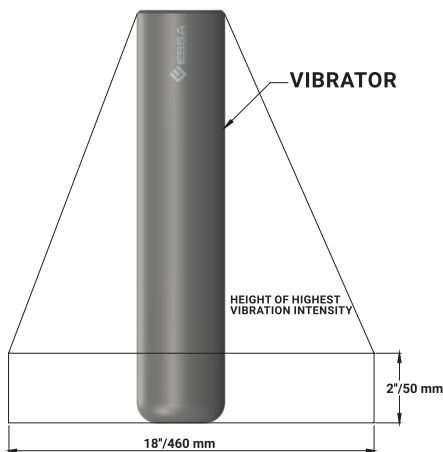
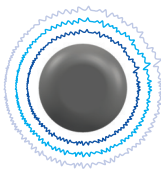
## Overview

Quadrata Head vibrator technology designed, manufactured and patented by ESSA Concrete Vibrators provides the following benefits:

- Finish the job faster, up to 27% more surface than a round head.
- Thanks to the unique orbital arrangement of the vibrator, it hardens the concrete up to 50% better and strengthens it faster.
- The Quadrata Head design offers longer head life than other designs because each quadrata head is custom made and hardened for added durability. Corners have more material so heads run cooler.

As concrete mix design develops to meet today's demanding business requirements, The Quadrata Head of the vibrator provides easier operation, produces smooth surfaces in solid concrete with greater durability properties in concrete.

\*\*\* Optional POLYURETHANE COATING of vibrator bodies prevents damage to rebars when structural steel reinforcements are used (steel reinforcement).



EFFECTIVE ZONE WIDTH

## Applications

- Slipform Concrete Pavers
- Multi Purpose Curb & Gutter Machines
- Concrete laboratory

## Features

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Normal Operating Pressure	800-1,300PSI (5.51-8.96MPa)
Back Pressure Maximum	150 PSI (1.03MPa)
Rated For Pressure Up To 2500PSI (17.24MPa)	

## Order Information

- Includes,
- Vibrator Head – Hydraulic Motor with 2500# rotor,
  - Hydraulic Hoses and Safety Hose

## Model No      Specs

SVS-153-150	2-1/4" with extended straight tube
SVS-153-130	2-1/4" with vertically adjustable mounting bracket
SVS-153-156	2-1/4" with extended straight tube and "shark fin" mounting bracket
SVA-153-170	2-1/4" with single isolator, 45° angle tube with praver mounting bracket
SVS-153-156-CB	2-1/4" with extended straight tube and "shark fin" mounting bracket

# Hydraulic Vibrator Model SVA



## Overview

SVA Series hydraulic internal paving vibrators are ideal for most slip-form applications.

In mainline paving applications, a block isolator delivers a higher shear spring rate, minimizes concrete build-up areas, and enhances the bonding surface between rubber and steel.

Features a powerful rotor for performance-based concrete mixes.

This translates to;

- Less end-of-day clean-up time
- Reduced transfer of vibration to the paver
- Less wear on the isolators

## Applications

- Slipform Concrete Pavers
- Multi Purpose Curb & Gutter Machines
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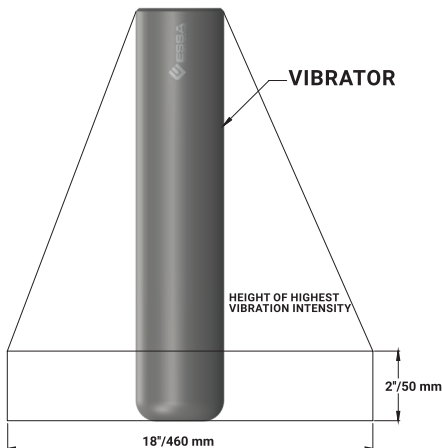
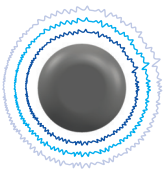
## Order Information

Includes,

- Vibrator Head – Hydraulic Motor with 2500# rotor,
- Hydraulic Hoses and Safety Hose

## Model No      Specs

SVS-153-150	2-1/4" with extended straight tube
SVS-153-130	2-1/4" with vertically adjustable mounting bracket
SVS-153-156	2-1/4" with extended straight tube and "shark fin" mounting bracket
SVA-153-170	2-1/4" with single isolator, 45° angle tube with prayer mounting bracket
SVS-153-156-CB	2-1/4" with extended straight tube and "shark fin" mounting bracket



EFFECTIVE ZONE WIDTH

## Dimensions

### Vibrator Head Dimensions



### Polyurethane Coated Vibrator Dimensions



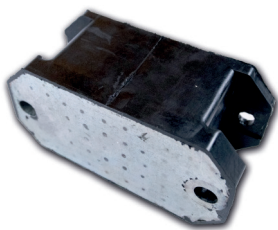
## Single Vibration Insulator

Hydraulic Vibrators for Concrete paving,

It is a durable design and reliable option for slipform concreting operations.

- Removes concrete accumulation between insulator components.
- Geared motor design maintains its speed for thousands of working hours.
- Less oil consumption and less heat is generated, requiring less cooling.
- Quadrata Head provides more efficient rigidity with reduced risk of vibrator paths at low speeds.
- Sturdy, with a good design, hits harder at lower speeds.
- It directs the vibration to the concrete mix, not to the concrete paver.
- It cleans the concrete faster.
- Includes a powerful rotor for performance-based concrete mixes.

## Accessories



Hydraulic Internal Vibrator Advantages Include:

Block Vibration Insulator

- Standard on all paving models
- Better shear spring rate
- Less area for concrete build up
- Greater rubber to steel bond area

Armor coated hydraulic hose

For greater wear resistance

Hydraulic motor (Designed and built by Essa Group)

- Double gear motor provides hydrostatic balance for longer motor life
- Case hardened steel drive shaft and gear set
- Designed to provide greater starting torque
- Easy access to seal without complete teardown

# Examples of some applications using High-Tech Essa Concrete Vibrators





# Powerfull High Quality Hydraulic Concrete Vibrator



Alıcı OSB Mah. 2001. Cad. No: 4/2 Sincan / ANKARA / TÜRKİYE  
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