OLI SPA
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EN

PENDULUM VIBRATOR

DESCRIPTION

The VHM-E and VHM-P are designed and constructed in accordance with the following applicable standards:
- 2006/95/EC
- 2006/42/EC

Section 1 – GENERAL REGULATIONS

The Manual, which is an integral part of the equipment concerned, must be preserved throughout the life of the equipment to its demolition in a known easily accessible place, available for consultation whenever required by the operators and site manager. In case the machine changes property, the manuals have to be provided to the new owner. Before carrying out any operations on the electrical vibrator, the personnel in charge with these operations must have read very carefully this Manual. If the Manual is lost, damaged or becomes illegible, a new copy has to be downloaded from the OLI® website. Check for the last update available. This Manual supplies warnings and indications that regards the safety standards for work accident prevention. The operators must follow the safety standards imposed by the regulations in force. Possible modifications of the safety standards that may occur shall be transposed and implemented. The latest version of the present Manual is available on the www.olivibra.com website.
On receiving the product please check that:
- the packing is not damaged to such an extent as to have damaged the product.
- there is no external damage to the product.
- the electrical supply corresponds to the order specifications; non-compliances and/or external damage, if any, must be reported immediately in detail to the forwarding agent and the manufacturer and/or dealer.

Section 1.1 – IDENTIFICATION

The electrical data and identification codes of the product (version and serial no.) are marked on the plate applied to the switch box. They have to be indicated at each spare parts request or at each request for assistance.

DECLARATION

Declare that VHM-E and VHM-P series:

conform with the following directive listed on the following declaration.

DECLARATION OF INCORPORATION

According to the Machine Directive 2006/42/EC the family of external vibrators over mentioned are identified as "PARTLY COMPLETED MACHINERY"

"B" Type:

»These products are manufactured according to 2006/42/EC AND SUBSEQUENT AMENDMENTS

»These products must not be put into service until the final machinery into which it is to be incorporated has been declared in conformity with the provisions of this Directive, where appropriate.

According to Annex II B of Directive 2006/42/EC machines, the following essential requirements of safety and health protection are applied and respected:

1.1.1. - 1.1.2. - 1.1.3. - 1.1.5. - 1.2.3. - 1.2.4. - 1.2.4.1. - 1.3.1. - 1.3.2. - 1.3.3. - 1.3.4. - 1.3.7. - 1.3.8. - 1.4.1. - 1.5.1. - 1.5.2. - 1.5.4. - 1.5.8. - 1.5.9. - 1.6.1. - 1.6.4. - 1.7.1. - 1.7.2. - 1.7.3. - 1.7.4. - 1.7.4.1. - 1.7.4.2. - 1.7.4.3. - 2.2.1. - 2.2.1.1.

Technical documentation is compiled in accordance with part B of Annex VII.
OLI SpA undertakes to transmit by mail or e-mail, in response to a reasoned request by the national authorities, relevant information on the products mentioned on the present declaration, except for intellectual properties of the producer.
The technical documentation is kept at OLI SpA, Via Canalazzo, 35 – 41036 Medolla (MO) Italy

Medolla 13/01/2014

General Manager
Giorgio Gavioli

TECHNICAL DATA

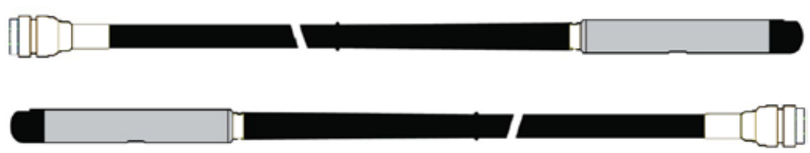
MODEL	CF	SPEED	ACTION DIAMETER	NOISE	VIBRATION	COMPACTION POWER	DIMENSIONAL SPECIFICATION		
							HEAD DIAM.	HEAD LENGTH	HEAD WEIGHT
	(N)	RPM	CM	dB A	m/s^2	m^3/h	mm	mm	Kg
VHM-E 25	900	12000	25	77	1,16	15	25	322	0,86
VHM-E 30	2700	12000	30	77	1,28	18	30	305	1,13
VHM-E 38	4100	12000	38	77	1,41	20	38	324	2,06
VHM-E 48	5500	12000	48	80	1,53	30	48	361	3,53
VHM-E 58	6600	12000	58	80	2,11	38	58	361	5,11

MODEL	SPEED	ACTION DIAMETER	NOISE	VIBRATION	COMPACTION POWER	DIMENSIONAL SPECIFICATION		
						HEAD DIAM.	HEAD LENGTH	TOTAL WEIGHT
	RPM	CM	dB A	m/s^2	m^3/h	mm	mm	Kg
VHM-P 25	15600	25	77	2,32	13	25	389	10
VHM-P 35	13200	35	73	1,64	18	35	370	15
VHM-P 45	12000	45	70	3,5	28	45	458	21
VHM-P 50	12000	50	75	3,7	30	50	451	24
VHM-P 60	12000	60	77	2,8	35	60	406	25
VHM-P 70	12000	70	80	3,1	40	70	452	28

FEATURES

VHM-E - FLEXIBLE SHAFT ECCENTRIC VIBRATOR	
APPLICATION	Concrete compaction
ADVANTAGES	Easy to use and resitant flexible shaft eccentric vibrator used for concrete compaction
DUTY CYCLE	Continuous S1
INPUT	230V 50/60Hz 1ph or 115V 50/60Hz 1ph
POWER	2300W
UNLOAD SPEED	17,500 rpm
LOAD SPEED	12,000 rpm
INSULATION CLASS	Double insulation
PROTECTION CLASS	IP44
WORKING TEMPERATURE	-20°C to + 40°C
FINISHING	Orange Ral 2009
TRANSMISSION	Available from 1 to 5m for all the diameters
	Standard transmission for diam. 25 and 30.
	Reinforced transmission for diam. 38-48 and 58
HEAD	Easy to replace
CONNECTION TYPE	Screw or Spring type

VHM-P - FLEXIBLE SHAFT PENDULUM VIBRATOR	
APPLICATION	Concrete compaction
DESCRIPTION	High power flexible shaft pendulum vibrator used for concrete compaction
WORKING TEMPERATURE	-20°C to + 40°C
TRANSMISSION	6m
	Reinforced on head and coupling side
CONNECTION TYPE	Universal or Pin type



TROUBLESHOOTING CHART

Problem	Cause	Handle method
The driving motor running well, but the flexible shaft does not rotate or runs slowly.	• The rotated direction of the motor is opposite to the arrow. • The anti-reverse device is failure. • The shaft adaptor between the flexible shaft and the rolling body is not connected well. • The steel wire of the flexible shaft is twisted off. • The bearing is damaged or there is oil stain between the rolling body and the raceway. • The hose is too long. • The coupler is unconnected.	• Exchange any twophase wire in the plug. • Replace the antireverse device. • Connect again. • Replace the flexible shaft. • Replace the bearing and clean the oil stain. • Cut the excess hose according to the extension of the flexible shaft plug. • Change the coupler.
The vibrator head is difficult to vibrate.	• The voltages between the driving motor and the power source are not the same. • The housing of the vibrator body is worn through or poorly sealed and leaks into the cement slurry. • The vibrator head is difficult to vibrate. • There is oil stain between the rolling body and the raceway. • There is too much friction between the lining spring of the hose and the steel wire of the flexible shaft.	• Adjust the power source voltage. • Replace the vibrator head, or replace the sealing parts of the housing. • Shake the vibrator body or hit lightly the vibrator body against the ground. • Clear up the oil stains and if necessary replace the oil seals. • Replace the driving motor with a larger power one.
Broken hose	• The bending radius is too small. • Use wrong or use for too long.	• Cut off a little hose and reconnect or replace with a new hose.
Start the motor, and the hose is more shaken.	• The flexible shaft is too long. • The flexible shaft is damaged, and the hose is crushed.	• Cut off the excess flexible shaft according to the extension of the flexible shaft plug. • Replace a suitable flexible shaft and hose.
Screaming, noise	• There is debris in the vibrator head. • Bearing damaged.	• Remove debris. • Replace the bearing.