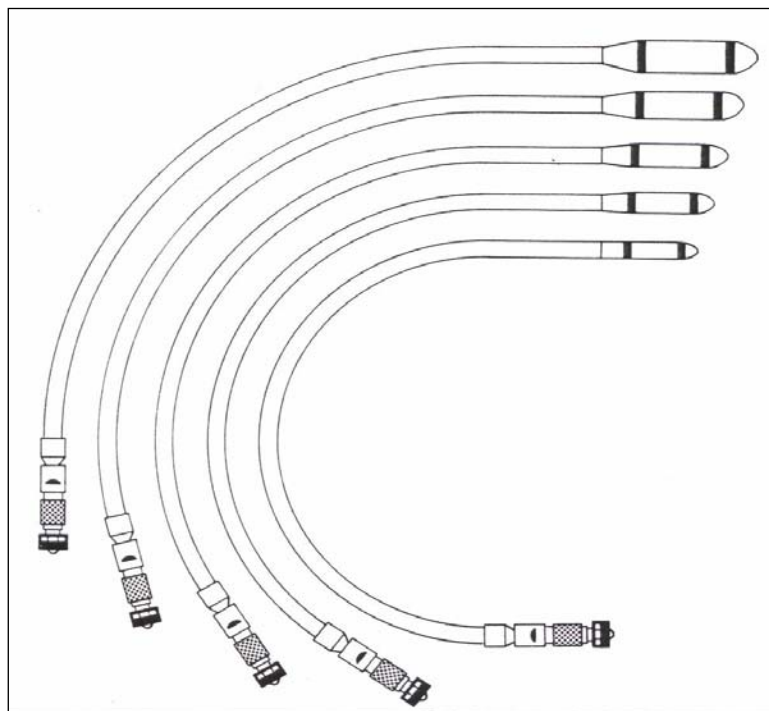


## OPERATION MANUAL

### PNEUMATIC POKERS TYPE PTL



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# GENERAL SAFETY – ASPECTS

All Lievers equipment have been tested in accordance with the strict international safety standards. This section contains general advice and apply to several machines mentioned in this paragraph.

- Ensure that you are qualified (familiar with the contents of this manual), to operate and carry out light maintenance-work to the machine when you are operating the machine for the first time.
- Wear safety shoes with extra protection (steel caps and anti-slip soles)
- Wear a safety helmet, safety glasses, working gloves with anti vibraton (GELFOM) damping which do not conduct electricity and protective clothing.
- Ensure, that all symbols on the machine, can always be clearly read.
- Do not leave any tools or parts lying around on the work floor, as this can cause accidents.
- Watch where you are going, the ground can be slippery.
- Take care that you do not injure yourself on objects, such as scaffolding and reinforcement materials, which can be found directly or indirectly in the working area.
- Be careful when lifting and carrying the Pokervibrator. Do not bend forwards when picking up the apparatus, but bend your knees. Ensure that the working area is within your reach, sothat you do not have to bend forward.
- When cleaning the machine, ensure that no water or cleaning detergents get into the motor-housing.
- When the machine is not being used for longer periods of time, then it must be stored in a dry and clean area.
- Do not only pay attention to your own safety, but also to that of your colleagues.

**Regular maintenance of the machine promotes safe operation.**

## **The following safety aspects apply specifically to the PTL pneumatic poker vibrators:**

- Before connecting the poker to the main airsupply clean the airhose in order to remove liquid and dust from the inside of the airhose.
- Make sure that the operationhose and couplings are not damaged..
- See to it that the filter in the connector is clean..
- Never disamble the poker or rubber operating hose while they are still under pressure. First disconnect the airsupply from the compressor. Then wait until the pokervibrator stops operating.
- Make sure that the supplied airpressure meets the advised airpressure for the pneumatic poker you are going to use. Check whether the airsupply of the compressor meets with the airconsumption of the pneumatic poker vibrator (s)


## Warning:

With this machine the admissible assessment soundlevel of 90 dBa may be exceeded. We advice the operator to wear good EAR PROTECTORS.

## Warning:

This machine is vibrating, we advice the operator to wear good WORKING GLOVES WITH ANTI-VIBRATION PROTECTION. ( GELFOM )

## Explanation of the used safety symbols

<ol style="list-style-type: none"><li>1 Watch out</li><li>2 Goggles, safetyhelmet and ear protectors obliget</li><li>3 Working-gloves and clothing obliget</li><li>4 Savety shoes with extra protection obliget</li><li>5 Before working with the machine reed the instructionmanual carefully</li></ol> <p><b>When this safetyaspects are not clear for you, please contact:</b> <b>Lievers Holland B.V.</b> <b>Tel.: +31 (0) 297 23 1900</b> <b>Fax.:+31 (0) 297 23 1909</b></p>	<p style="text-align: center;"><b>Safety symbols</b></p> <div style="text-align: center;"><p>The image shows a collection of safety symbols. At the top left is the 'LIEVERS HOLLAND' logo. To its right is a warning triangle with an exclamation mark, labeled '1'. Below the logo are three circular icons: a pair of gloves labeled '3', an open book labeled '1', and a pair of goggles labeled '2'. Below these are two more icons: a safety shoe labeled '4' and a large 'CE' mark. At the bottom is a telephone icon followed by the number '+31 (0) 297 - 23 19 00'.</p></div>
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## INTRODUCTION

This manual has been written to help you operate and service the Pokervibrator safely. This manual is intended for dealers and operators of the Lievers PTL Pokervibrator.

### WHAT IS A POKERVIBRATOR ?

A Pokervibrator is an apparatus with a vibrating poker, which compacts fresh concrete. The concrete pokervibrator type PTL consists of a pneumatic motor, built in a tempered steel housing with 2 mtr. of rubber operation hose, (in- and outlet hose) and aircock with a quick action coupling  $\frac{3}{4}$ ".

### OPERATION

The PTL poker is connected, by means of a coupling, to a compressor which supplies an airpressure of **6 Atm**. By opening the aircock the airmotor is switch on and drives an excentriccal weight along the inside of the steel motorhousing. The evoked vibrations will compact the freshly poured concrete.

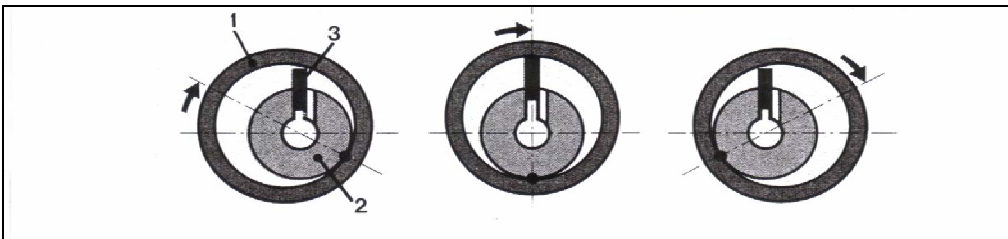
## Technical Data

Poker diam mm	Vibrations per min.	Amplitude mm	Air consumption l/min	Weight Kg	Soundlevel dBA *	Acceleration value ** m/s <sup>2</sup>	Hose length m
26	21.000	0,5	400	0.7	85	0,19	2
36	19.000	0.6	500	1.5	89	1,02	2
47	18.000	0.6	700	2.8	96	2,39	2
56	18.000	0.8	1000	4.5	95	2,87	2
67	17.500	0.9	1000	7.9	94	1,28	2
77	16.000	1.2	1300	8.9	98	4,90	2
87	15.900	1.8	1600	9.7	94	1,95	1.5
108	15.000	1.9	1900	17.7	96	2,91	1.5
155	12.000	2.6	2700	28.0	92	12,29	0.8

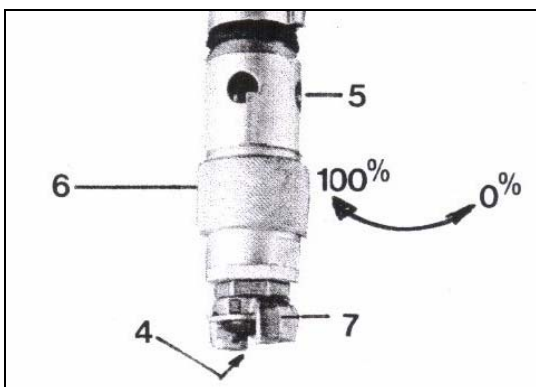
\* = The required sound specifications per appendix 1, paragraph 1.7.4. of the EC machine regulations measured at 1 mtr. distance according ISO 3744 sound level and EN ISO 11204 sound pressure level.

\*\* = The weighted effective value of acceleration, determined according EN ISO 5349, measured in open air with the machine running at nominal rpm.

## Vibrating system of the PTL pneumatic poker vibrator



1) Rotor, 2) Housing, 3) Lamel,



4) Air hose coupling 3/4", 5) Air discharge holes, 6) Air cock on/off

# Operation instructions

**CAUTION!:** Make sure that the airpressure supply is compatible to the Lievers PTL poker vibrator. ( Working Pressure: 6 Atm.)

- The Lievers PTL pokervibrator is supplied without oil. With the first startup pour 3 cc. Non detergent oil of viscosity of 20 to 30 SAE, or sachet special oil into the quick release coupling on the handle.
- During startup it is recommended to tap the pokerhead lightly in order to start the turbine.

**TIP:** before connecting the Lievers PTL poker please clean the airpressure hose from dirt and water. After the pokervibrator has been connected to the airpressure you can start the poker by turning the aircock on the handle.

## Maintenance

- After every working day or after 4 hours of contineous duty you need to add approx. 120 cc. oil in the handle. Use the special oil as mentioned above.
- For lubrication never use hydrocarbons or diesel and gasoline fuel.
- Please see to it that the filter in the quick action coupling stays clean.
- To store the poker hang the machine vertically with the handle down in order to let water drip out of the system.

**TIP:** When ordering spares please submit the following data:

- Type of the machine
  - Year of production
  - Ordernumber and discription of the part
  - The wanted quantity
  - Address source and way of transportation
- 

**TIP:** When you have questions please contact the supplier:

**Lievers BV Holland / Service department**  
**Tel** : + 31 297 231900  
**Telefax** : + 31 297 231909