

Mounting and Operating Instructions Pneumatic Piston Vibrator of Series VP

We would like to congratulate you for having bought the Webac piston vibrator of the series VP.

General Information

The Webac piston vibrator is a vibrator frequently used in the following industrial sectors:

- ❖ Conveyor technology, dosing, weighing, and screening technology, packing industry, chemistry, pharmacology, food and animal feed industry, steel works and foundries, mechanical engineering, air-conditioning and dust technologies and many more.

The pneumatic piston vibrators of the series VP produce linear oscillations with different frequencies and oscillation widths depending on the air pressure and on mass. The vibrators allow to be used indoors as well as outdoors. However, they are not suitable to be operated with any kind of liquid substances. The vibrators are completely recyclable.

Admissible ambient temperature range:

- ❖ From 0 to a maximum of 70° C (in explosive zones to a maximum of 40° C)

Admissible operating media:

- ❖ Clean, dry, and oil-free compressed air

Admissible operating pressure range:

- ❖ From a minimum of 2.0 bar (30 psi) up to a maximum of 6.0 bar (90 psi)

Installation and first operation

Prior to the installation, check the vibrator for visual damages possibly caused by transport, storage, etc. The WEBAC piston vibrator allows to be installed in any position. The fixing area must be rigid in order to avoid that the generated oscillations cause any breaks or cracks due to excessive stress. Therefore, provide for the appropriate reinforcement plates or profiles in accordance with the constructional design.

The installation surface must be clean and suitably levelled in order to grant for a perfect contact of the fastening flange and to prevent the fixings from breaking and the bolts from loosening. Having met these preconditions, install the piston vibrators by using flat safety discs and spring lock washers, bolts and nuts with the corresponding diameter and with a minimum property class of 8.8.

The fastening torque must not exceed, or fall below the following values:

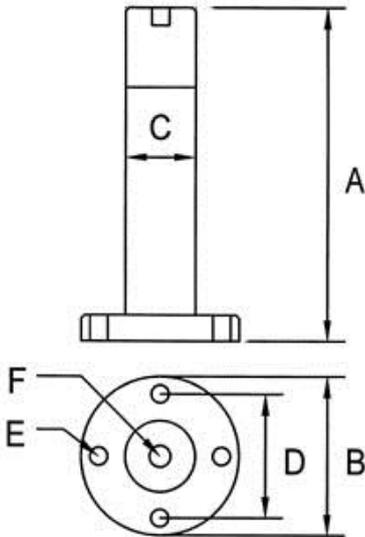
VP 1	M 5	6 Nm
VP 2	M 5	6 Nm
VP 2 – S	M 5	6 Nm (<i>with two threaded holes in the flange</i>)
VP 3	M 5	6 Nm
VP 4	M 6	10 Nm
VP 6	M 6	10 Nm
VP 8	M 6	10 Nm
VP 12	M 6	10 Nm
VP 14	M 6	10 Nm
VP 16	M 6	10 Nm

Caution!

Missing bolts can cause the unit to break off and fall down!

The dimensions of the pneumatic piston vibrators of series VP are shown in the following list:

The piston vibrator VP 2 S disposes of a special flange (please observe the enclosed dimension sheet).



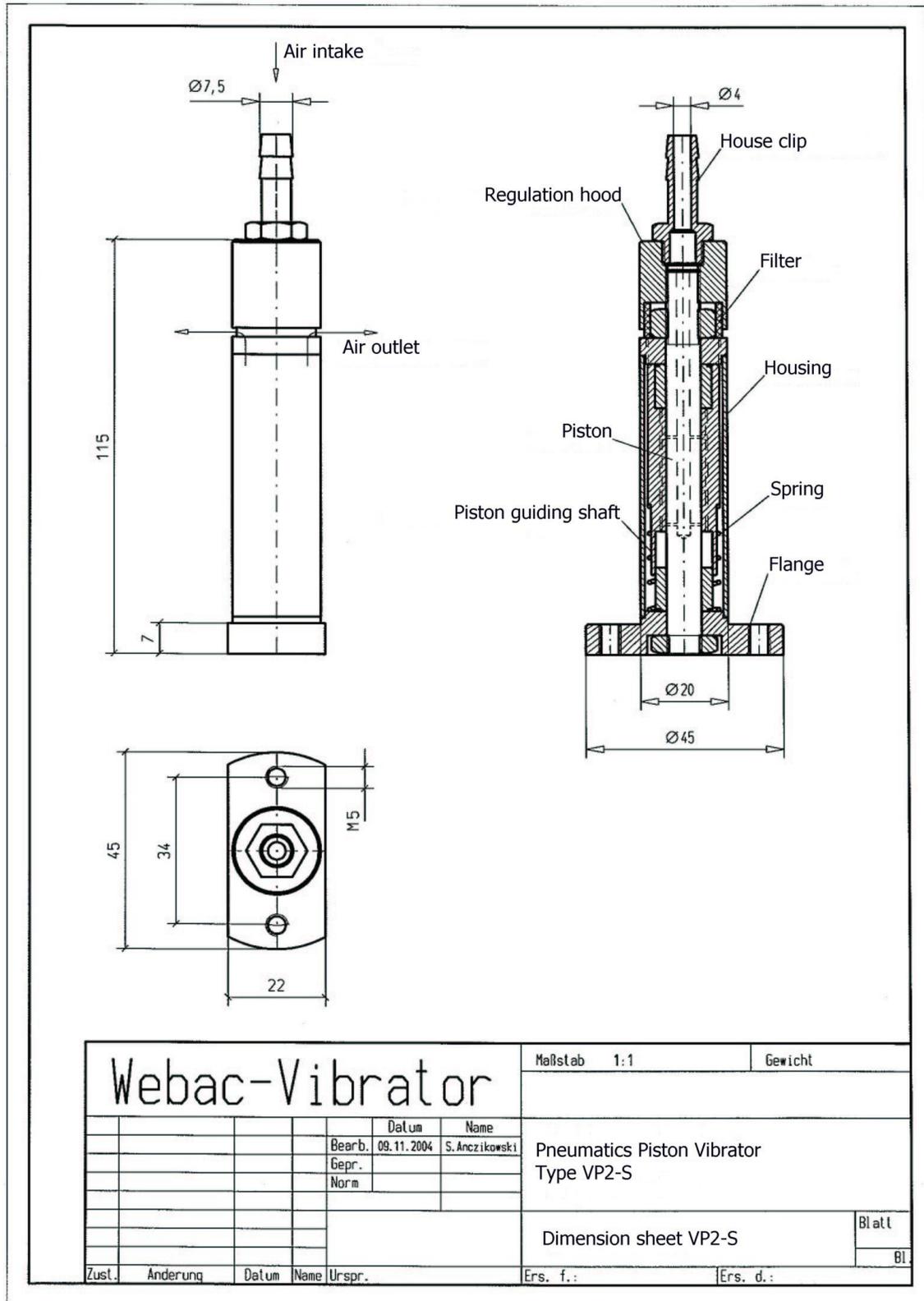
Typ	A mm	B mm	C mm	D mm	E mm	F	G mm
VP 1	95						
VP 2	115	45	20	34	5,5	1/8"	7
VP 3	135						
VP 4	125						
VP 6	155	60	30	48	6,5	1/8"	8
VP 8	185						
VP 12	130						
VP 14	170	80	45	65	6,5	1/4"	10
VP 16	210						

**Values measured in idle running with 6 bar.
 Subject to technical modifications!
 Special series on demand.**

The technical data like frequency, centrifugal force, and required air supply are shown in the following list:

Type	Frequency 1/min	Centrifugal force N	Required air supply L/min
VP 1	7'600	65	11
VP 2	5'550	150	12
VP 3	4'100	210	11
VP 4	6'600	490	33
VP 6	4'700	650	35
VP 8	3'800	730	32
VP 12	6'200	1'475	61
VP 14	3'200	1'540	64
VP 16	2'500	1'680	58

The noise level of the vibrator amounts to **45 to 60 dBA**.



Operation and maintenance of the piston vibrator:

- After one hour of first operation, check the seat of the vibrator is friction-locked and fixed.
- Execute visual inspections of the vibrator in weekly intervals.
- With this, take special care that the air can flow through the filter.
- In case the filter is clogged by impurities, replace the filter immediately.
- Exchanging the filter is easily done by turning off the hose clip and the regulation hood.
- Remove the old filter and insert a new filter.
- Take care that no humidity or oil is allowed to enter the vibrator through the air intake. We recommend to place an air filter in front of the vibrator air intake.
- Check the tight seat of the supply hose.
- Make sure the air supply hose is not damaged or buckled.
- Check the tight seat of the vibrator.

You can find the denomination of the individual parts on the enclosed dimension sheet of the piston vibrator VP 2 S. The denominations of the mentioned parts are identical with all models.

In case the vibrator is defective, we recommend to replace the complete vibrator and to send the defective unit to the company Webac Vibrator GmbH for repairing and general overhaul purposes.

This recommendation is based on the fact that the parts of the vibrator are fine mechanical parts requiring high mounting precision and, partly, special tooling.