Pneumatic SHOWER TUBE OSCILLATORS

For Paper Machinery

>mcpolarteknik





Easy to adjust



All external parts in contact with ambient made of stainless steel

HYDROPNEUMATIC SHOWER TUBE OSCILLATOR FOR CORROSIVE ENVIRONMENTS



OPERATION AND FEATURES

The SHO - 125 shower tube oscillator is a hydropneumatic actuator equipped with integrated control valves.

Only one compressed air supply line is needed to run the basic version. The unit starts to oscillate always when air supply is switched on.

Installation is fast and easy by flexible trunnion and piston rod mountings.

As optional features, SHO can be equipped with a sensor to get an alarm if stopped and to enable synchronization of oscillation speed to speed of wire.

Speed adjustment is either manual or remote controlled by standard pressure regulator or I/P -transducer.

The unit is oil stabilized to give smooth operation even at low speed.

When switced off the oscillator stops piston rod retracted inside to prevent impurities from stucking on it during shutdowns.

An exceptional feature of the SHO shower tube oscillators is fast return stroke mode which improves washing result.

Control cabinets to operate from one to five oscillators are also available

TECHNICAL DATA

Speed Range:

0,2 - 5 mm/s (fast return 15 mm/s) 0,05 - 3,5 mm/s as option

Stroke Length:

150 or 300 mm as standard, other stroke lengths available

Operating Medium:

Filtered (20 micron) and regulated compressed air. No lubrication needed.

Temperature Range:

+ 5 °C . . . + 100 °C

Pressure Range:

3 ... 10 bar

Thrust Force: 6800 N / 6 bar

Materials:

All parts in contact with ambient made of stainless steel AISI316 except piston rod scraper made of stainless steel AISI304.

Seals: Viton and PTFE

Air Consumption:

1 - 25 Ndm³ / min (6 bar)

75 Ndm³ / min during fast return stroke

ORDER INSTRUCTIONS

Oscillator Type

SHO shower tube oscillator without SHO-125-stroke-20180

position feedback

SHO shower tube oscillator equipped SHO-L-125-stroke-20002

with linear sensor

Sensors and Accessories

Magnetic sensor for SHO-125, IP 69...... 502970

Circuit board for linear sensor, IP 67 RCL-41-0XXX, replace XXX with stroke length in millimeters

SHO-L-125

Mountings

Trunnion mounting 502968

Clevis mounting 300335

Spherical bearing 1120 HAST

Custom Made mountings available

Spare Parts

Seal kit SHO-125/32

Pimatic SHO shower oscillators are designed to reach maintenance free life time of 5 years in normal conditions.

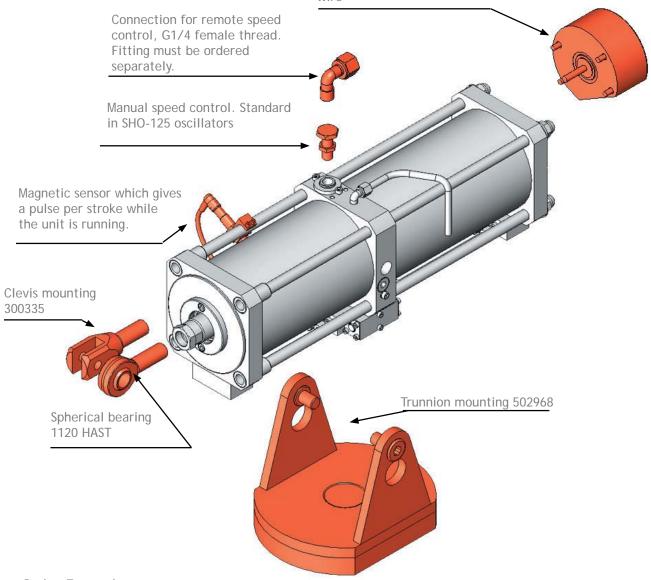
Yet, if any maintenance is needed, please contact our sales department for maintenance instructions.

OPTIONS

SHO hydropneumatic shower tube oscillators can be equipped with a variation of mountings and sensors to monitor the operation of the unit.

Even SHO-125-stroke-20180 models can be equipped with remote speed control. For SHO-L-125-stroke-20002 the circuit board for the linear sensor must be ordered separately.

Linear sensor is included in SHO-L-125 type oscillator. With this sensor the oscillating speed can be syncronized to the speed of a wire

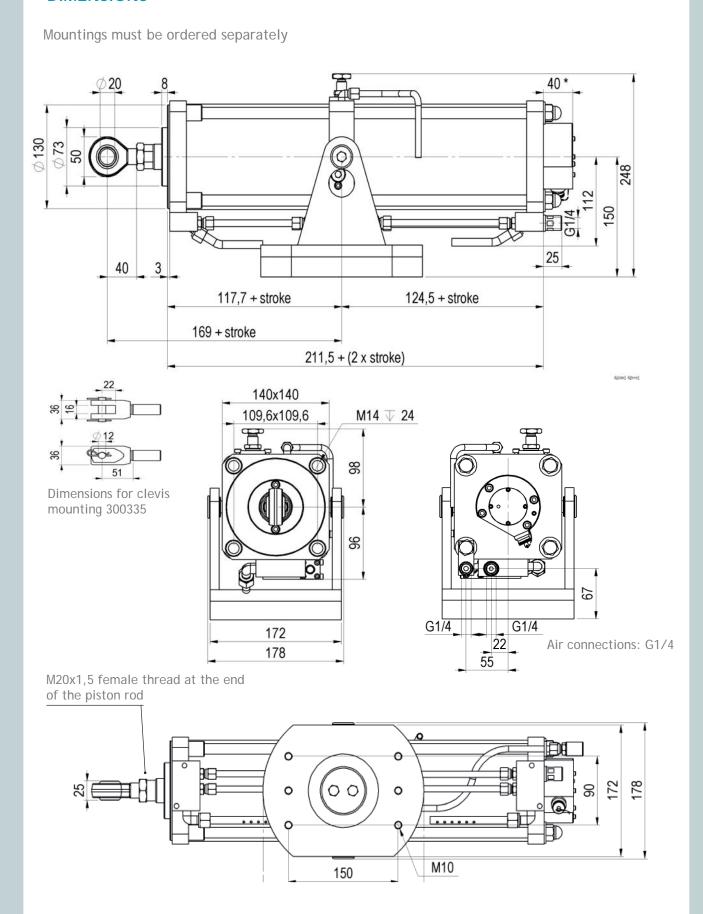


Order Example:

Shower tube oscillator with linear sensor, a circuit board for the sensor, stroke length 150 mm, a trunnion mounting and a clevis mounting:

Oscillator SHO-L-125-150 Trunnion mounting 502968 Clevis mounting 300335 Circuit board RCL-41-0150

DIMENSIONS



CONTROL CABINETS FOR SHOWER TUBE OSCILLATORS

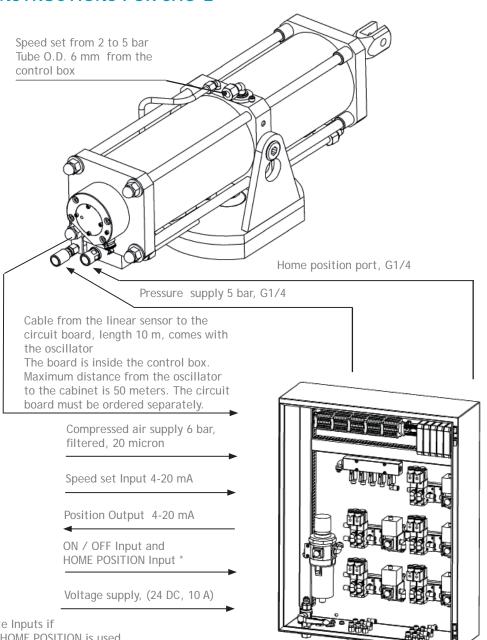
PMC Polarteknik supplies also control cabinets for shower oscillators.

The cabinets include all pneumatic components needed to run a shower oscillator, i.e. a shut off-valve, a filter and a pressure regulator for the main air supply line, the solenoid valves

and if required, an I/P transducer or a pressure regulator for remote speed control. By one cabinet one to five oscillators can be operated. Electric wires are connected to a terminal block.

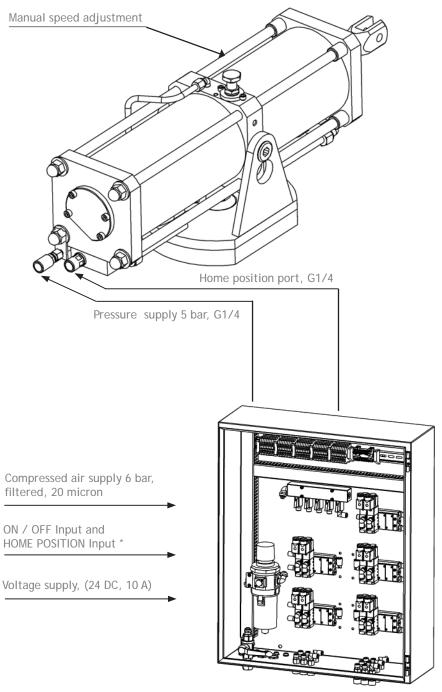
For further details please contact our sales department.

WIRING INSTRUCTIONS FOR SHO-L



^{*} Two separate Inputs if stopping at HOME POSITION is used

WIRING INSTRUCTIONS FOR SHO



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