

Compact Pneumatic Doctor Blade Oscillator

Efficiency through unique properties

One product for all applications – for both wet and dry end

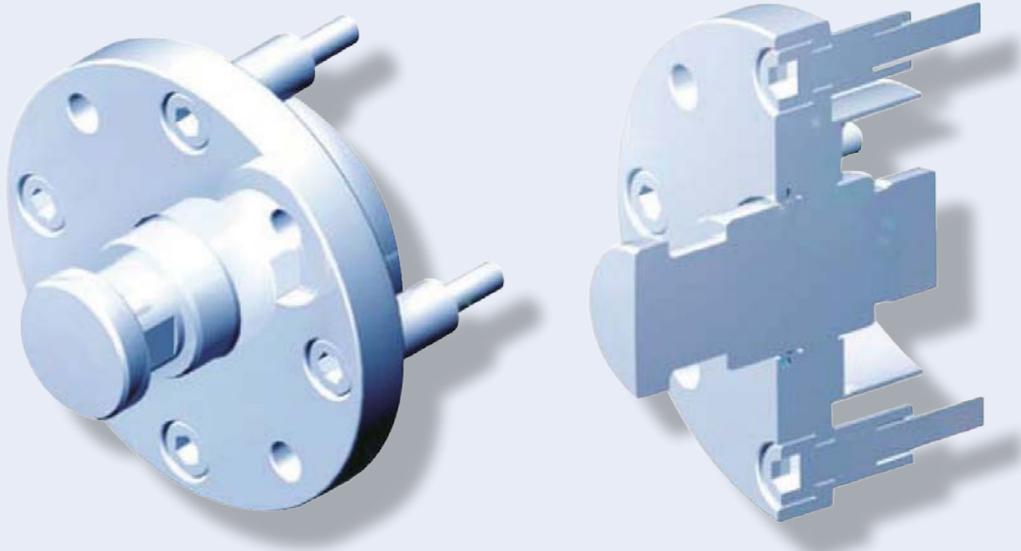
All external parts **made of AISI 316**

Effective air cushioning system eliminates vibration and dwell of the doctor blade

Minimum length **only 105 mm**

Maintenance free lifetime **over 5 years**

Flexible mounting – fits directly to a bearing house or mounting with flanges and adapters – custom made assembly parts also available



Compact pneumatic Doctor Blade Oscillator for dry and wet end applications



11 kN



22 kN

Operation

The OSC series is a compact and light-weight generation of pneumatic oscillators based on our experience of more than 10.000 installations all over the world.

The compact Oscar takes only one compressed air supply line and oscillating starts as soon as air supply is switched on. Thanks to the genius patented control system operation is smooth. Once the speed is set the oscillator runs at a constant speed

over the complete stroke length in both directions.

The control circuit is integrated to the unit and there is no need for either electric wires or external control components, just a simple shut-off valve.

Installation is extremely quick and easy with our mounting flanges and adapters without external racks.

Features

- Maintenance-free lifetime expectancy over 5 years
- Smaller than any other doctor blade oscillator – minimum length only 105 mm – weight only 8 kg
- Effective air cushioning system eliminates vibration and dwell of the doctor blade
- Adjustable speed and stroke length
- All parts in contact with ambient made of stainless steel AISI316
- No lubrication needed - PTFE / Viton seals
- Flexible, easy and fast mounting with flange and adapters – fits directly to doctor without external mounting racks

Technical specifications

- **Operating medium:**
Compressed air, filtered (20 micron) and regulated, no lubrication needed
- **Pressure range:**
2 ... 10 bar
- **Temperature range:**
+ 5 ... 150 °C
- **Speed range:**
Recommended number of strokes / min: 3 ... 5 (back and forth)
Maximum:
OSC-160-16-502118: 25 strokes / minute
OSC-2x160-16-502134: 12 strokes / minute
- **Stroke length:**
16 mm, adjustable from 10 to 16 in steps of 2 mm

Thrust Force kN / 6 bar	Order number ⁽¹⁾	Weight kg ⁽²⁾	Air consumption Ndm ³ / back and forth stroke / 6 bar
11	OSC-160-16-502118	8	4,2
22	OSC-2x160-16-502134	11	8,4

⁽¹⁾ Order numbers for oscillators with mounting flanges assembled, see pages 6 and 7

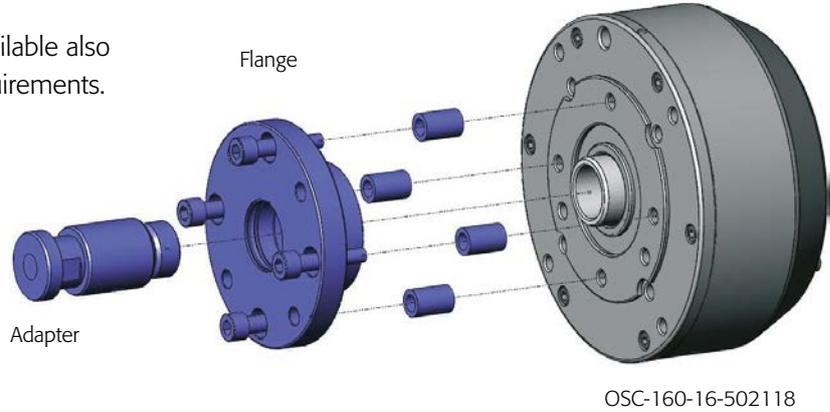
⁽²⁾ Weight without mounting flange and adapter

Mounting parts

Compact oscillators can be equipped with our standard mounting flanges and piston rod adapters.

Mounting dimensions and order numbers, see drawings on pages 6 and 7.

Mounting flanges and adapters are available also designed according to customers' requirements.



Spare parts

Compact oscillators are designed to reach maintenance-free lifetime of 5 years in normal conditions.

For scheduled maintenance the spare parts listed in the table below are available.

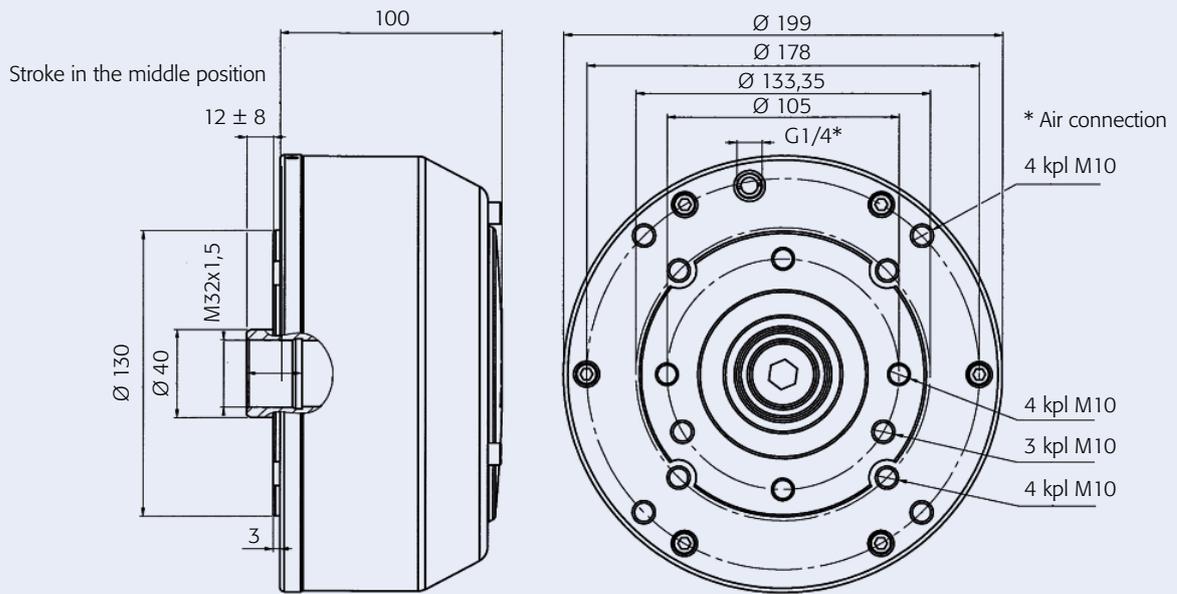
For maintenance instructions please contact our sales department.



Valve block OSC-160-502034

Spare part	Order Number	For oscillator type	Note
Seal kit	OSC-160-16-KS	OSC-160-16-502118	Seal kits include all the seals of the oscillator, cylinder tube / tubes and a complete valve block.
Seal kit	OSC-2x160-16-KS	OSC-160-16-502134	
Valve block	OSC-160-502034	All Compact oscillators	

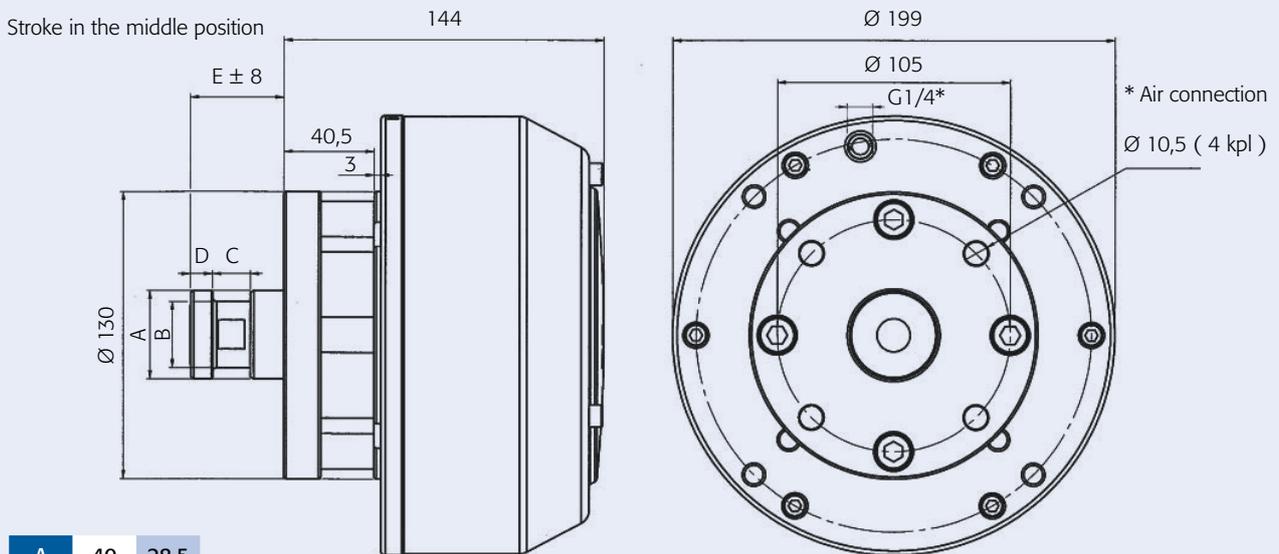
Dimensions OSC-160-16-502118



Order example: 11 kN Pneumatic compact oscillator without mounting parts:

OSC-160-16-502118

Dimensions OSC-160-16-502118-1 and -2



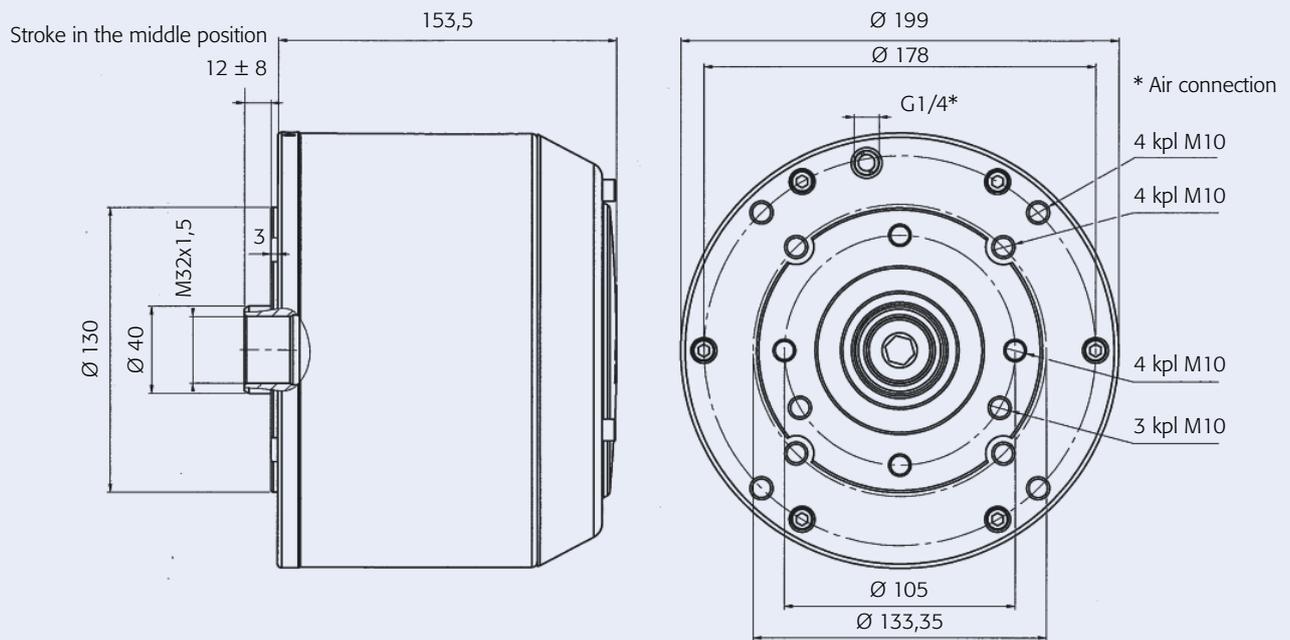
A	40	28,5
B	30	14
C	17	9
D	10	11
E	42	32

Order example: 11 kN Pneumatic compact oscillator with mounting parts:

Adapter dia, dimension A, 40 mm **OSC-160-16-502118-1**

Adapter dia, dimension A, 28,5 mm **OSC-160-16-502118-2**

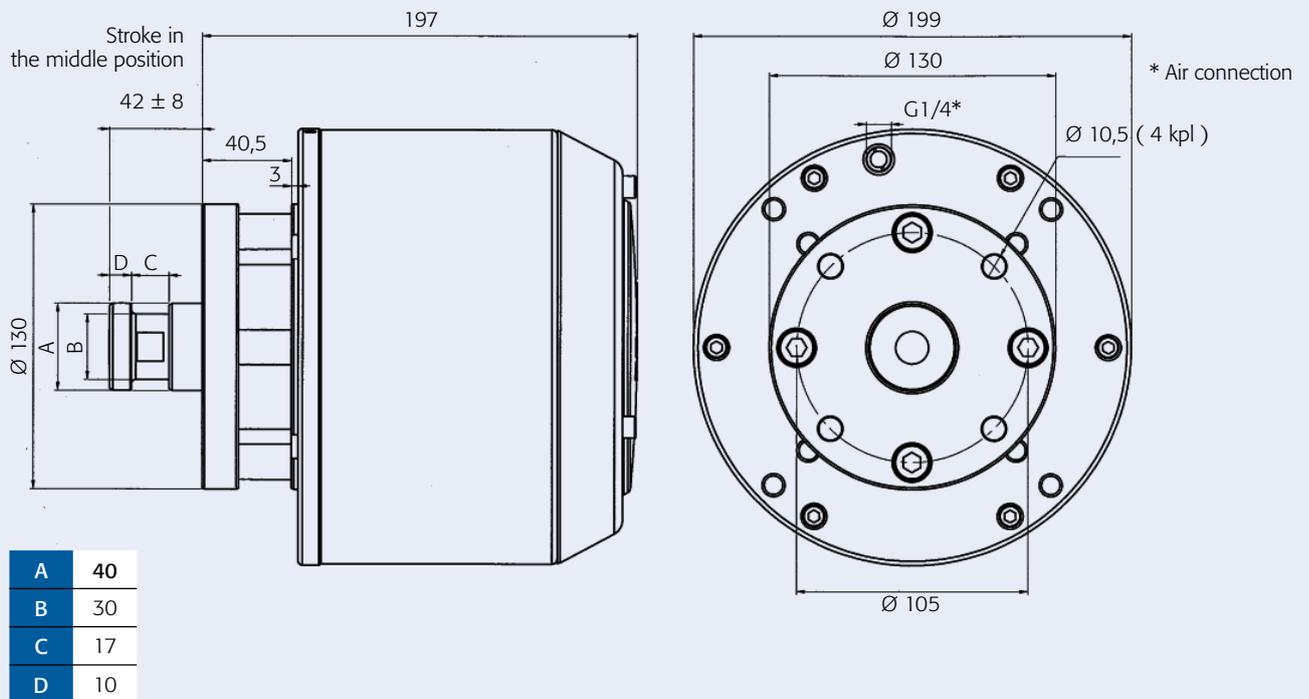
Dimensions OSC-2x160-16-502134



Order example: 22 kN Pneumatic compact oscillator without mounting parts:

OSC-2x160-16-502134

Dimensions OSC-2x160-16-502134-1



Order example: 22 kN Pneumatic compact oscillator with mounting parts:

Adapter dia, dimension X, 40 mm **OSC-2x160-16-502134-1**

Polarteknik Oy

Klaavolantie 1, 32700 Huittinen, Finland

Tel. +358 (0)20 770 9500

Fax +358 (0)20 770 9505

info@polarteknik.fi

www.polarteknik.fi

