



COMPACT PNEUMATIC DOCTOR BLADE OSCILLATOR

Compact pneumatic Doctor Blade Oscillator
for dry and wet end applications





Efficiency through unique properties



1. **One product for all applications**
– for both wet and dry end
2. All external parts **made of AISI 316**
3. Minimum length **only 105 mm**
4. Maintenance free lifetime
over 5 years
5. **Flexible mounting** – fits directly to
a bearing house or mounting with
flanges and adapters – custom made
assembly parts also available
6. **Effective air cushioning system**
eliminates vibration and dwell of
the doctor blade



Compact pneumatic Doctor Blade Oscillator for dry and wet end applications

OPERATION

The OSC series is a compact and light-weight generation of pneumatic oscillators based on our experience of more than 20.000 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.



Compact pneumatic Doctor Blade Oscillator

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: 4...10 bar
- Temperature range: + 5...150 °C
- Speed range: Number of strokes / min: 3...6 (back and forth)
- 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 NDM3 / BACK AND FORTH STROKE / 6 BAR
11	OSC-160-16-502118	8	4,2
22	OSC-2x160-16-502134	11	8,4
33	OSC-3x160-16-0031741	16	12,6

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

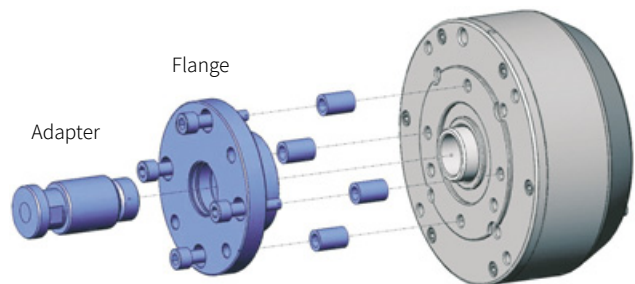
(2 Weight without mounting flange and adapter

MOUNTING PARTS

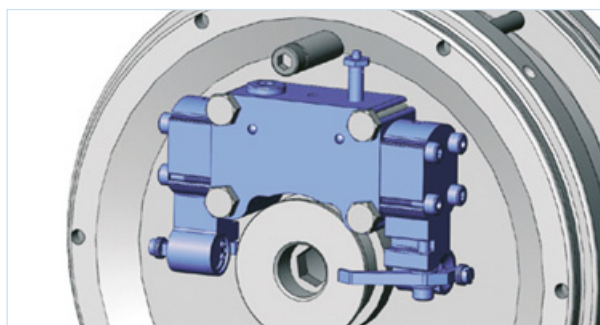
Compact oscillators can be equipped with our standard mounting flanges and piston rod adapters.

Mounting dimensions and order numbers, see drawings on pages 5-7.

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



OSC-160-502118



Valve block OSC-160-503440

SPARE PARTS

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

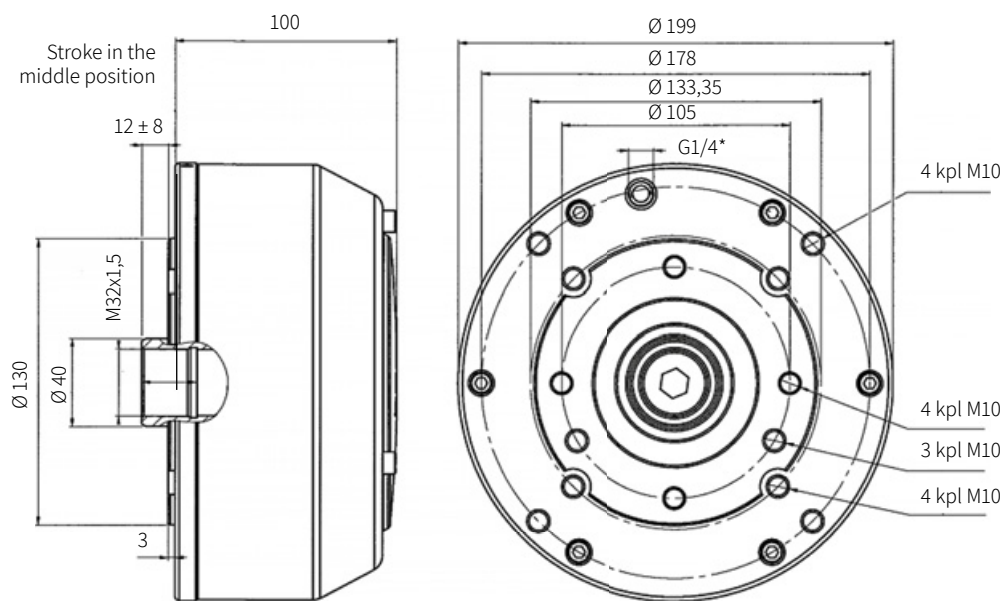
For scheduled maintenance the spare parts listed in the table below are available.

For maintenance instructions please contact our sales department.

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	
Seal kit	OSC-3x160-16-KS	OSC-3x160-16-0031741	
Valve block	OSC-160-503440	All Compact oscillators	

DIMENSIONS OSC-160-16-502118

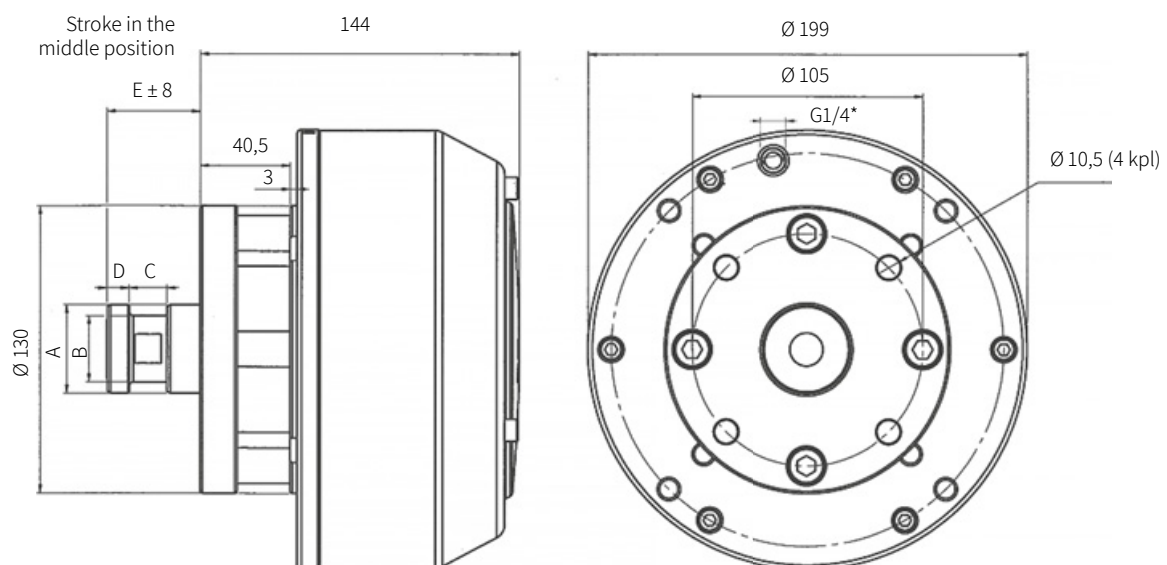
* Air connection



ORDER EXAMPLE: 11 kN Pneumatic compact oscillator without mounting parts: **OSC-160-16-502118**

DIMENSIONS OSC-160-16-502118-1 AND -2

* Air connection



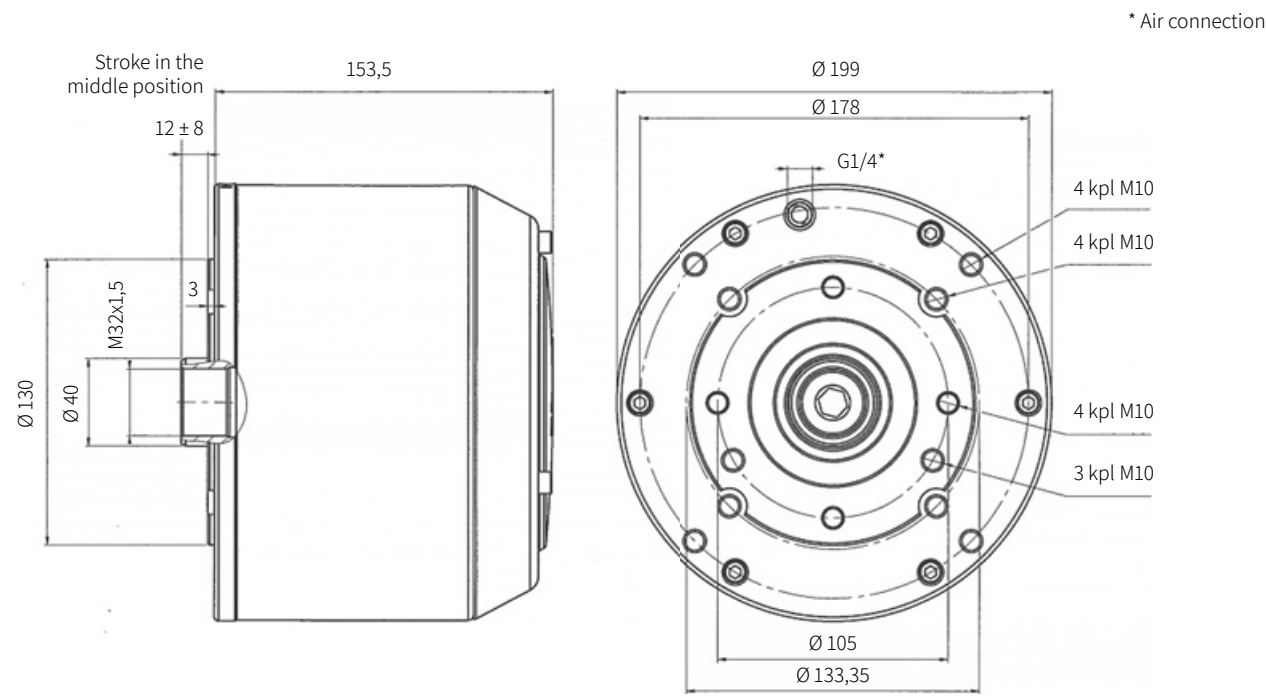
ORDER EXAMPLE: 11 kN Pneumatic compact oscillator with mounting parts:

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

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

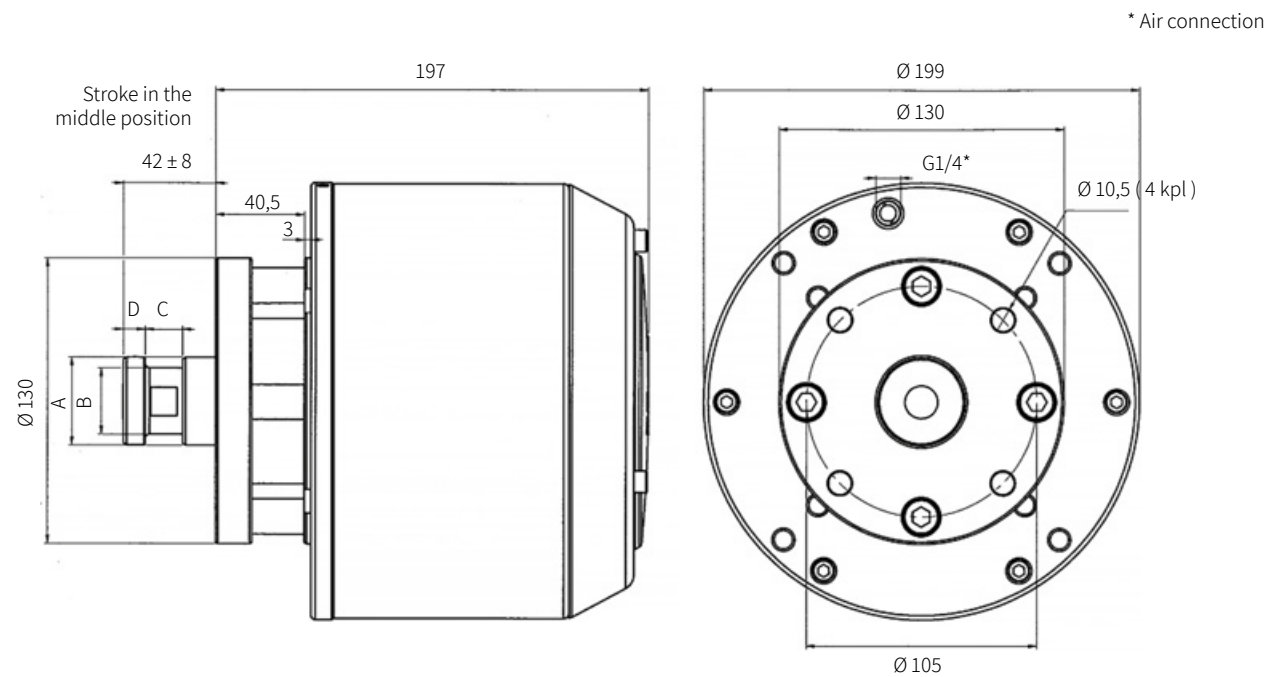
A	40	28,5
B	30	14
C	17	9
D	10	11
E	42	32

DIMENSIONS OSC-2X160-16-502134



ORDER EXAMPLE: 22 kN Pneumatic compact oscillator without mounting parts: **OSC-2x160-16-502134**

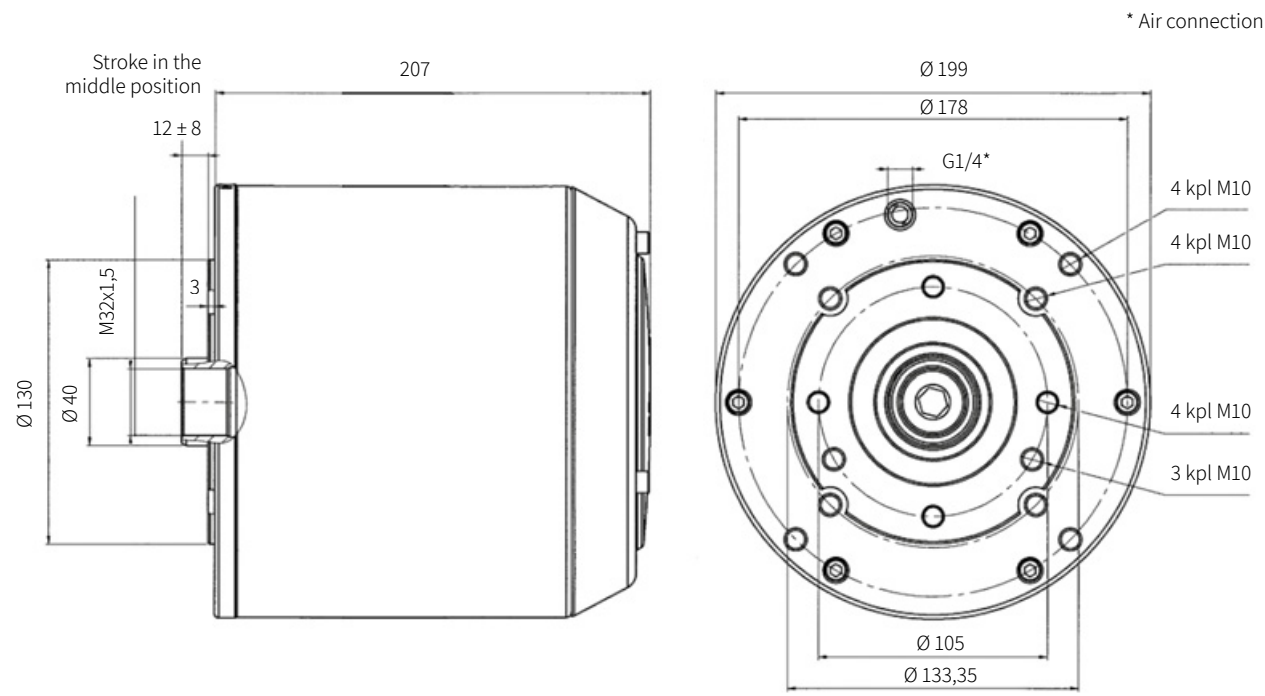
DIMENSIONS OSC-2X160-16-502134-1



ORDER EXAMPLE: 22 kN Pneumatic compact oscillator with mounting parts:
Adapter dia, dimension X, 40 mm **OSC-2x160-16-502134-1**

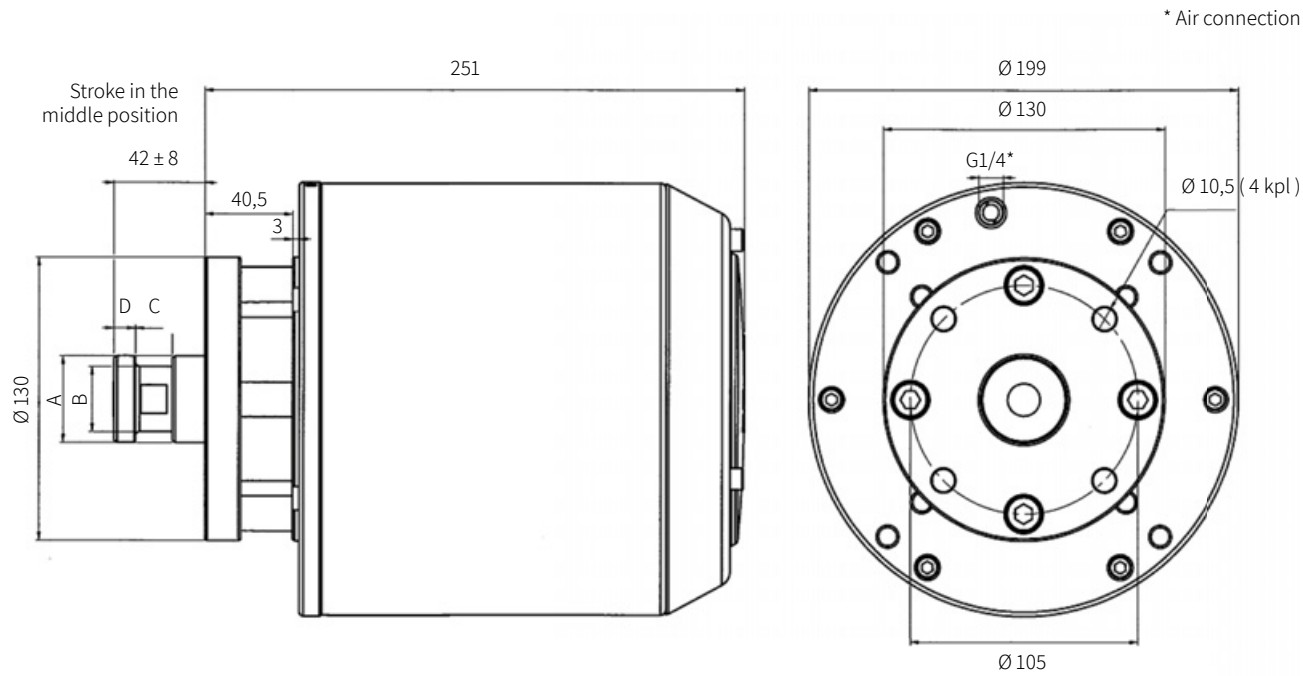
A	40
B	30
C	17
D	10

DIMENSIONS OSC-3X160-16-0031741



ORDER EXAMPLE: 33 kN Pneumatic compact oscillator without mounting parts: **OSC-3x160-16-0031741**

DIMENSIONS OSC-3X160-16-0031742



ORDER EXAMPLE: 33 kN Pneumatic compact oscillator with mounting parts:
Adapter dia, dimension X, 40 mm **OSC-3x160-16-0031742**

A	40
B	30
C	17
D	10



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