



# Fastening elements vacuum cups | Lifting cylinders

Lifting cylinders – operated by compressed air

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With blow-off feature, torsionally rigid



### Product notes

- > Picking-up and stacking of flat and sensitive objects such as signs, card, labels, veneer in the correct position using non-rotating piston rod
- > Integrated vacuum generation
- > Very short cycle times due to integrated compressed air pulse during placement
- > Very compact design in robust aluminum housing
- > Long service life of around 25 million cycles thanks to Hartcoat® treated running surfaces
- > Optional monitoring of piston position

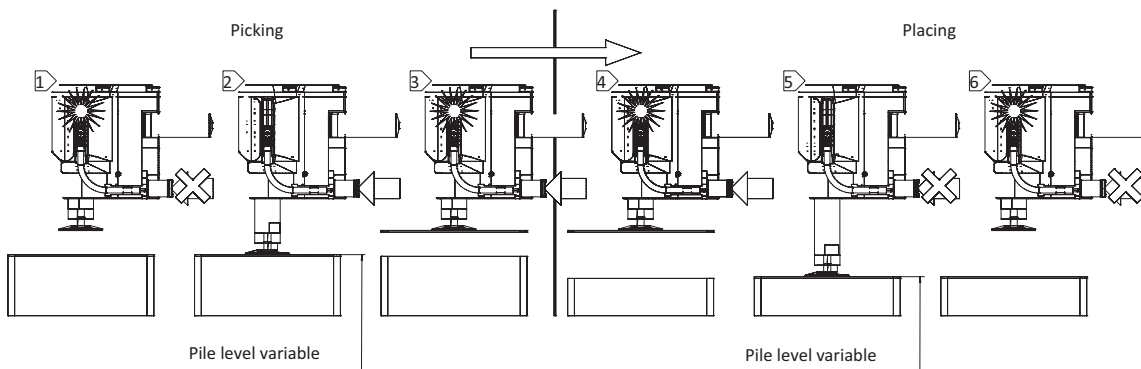
### Notes

- > For release of workpiece in defined position compressed air line needs to be shut and ventilated by means of a 3/2-way valve. Otherwise the piston will not extend and the workpiece will fall down.

### Technical data

Item no.	Stroke [mm]	Lifting force at 6 bar (87 psi) [N]	Operating pressure [bar (psi)]	Volume flow at 6 bar (87 psi) [Nl/min]	Operating temperature [°C (°F)]	Weight [g]	Suitable accessories
55.005	25	8	5 - 8 (72.5 - 116)	48	5 - 80 (41 - 176)	220	Silencer: 72.028 Magnetic field sensor: 55.099

### Wiring diagram

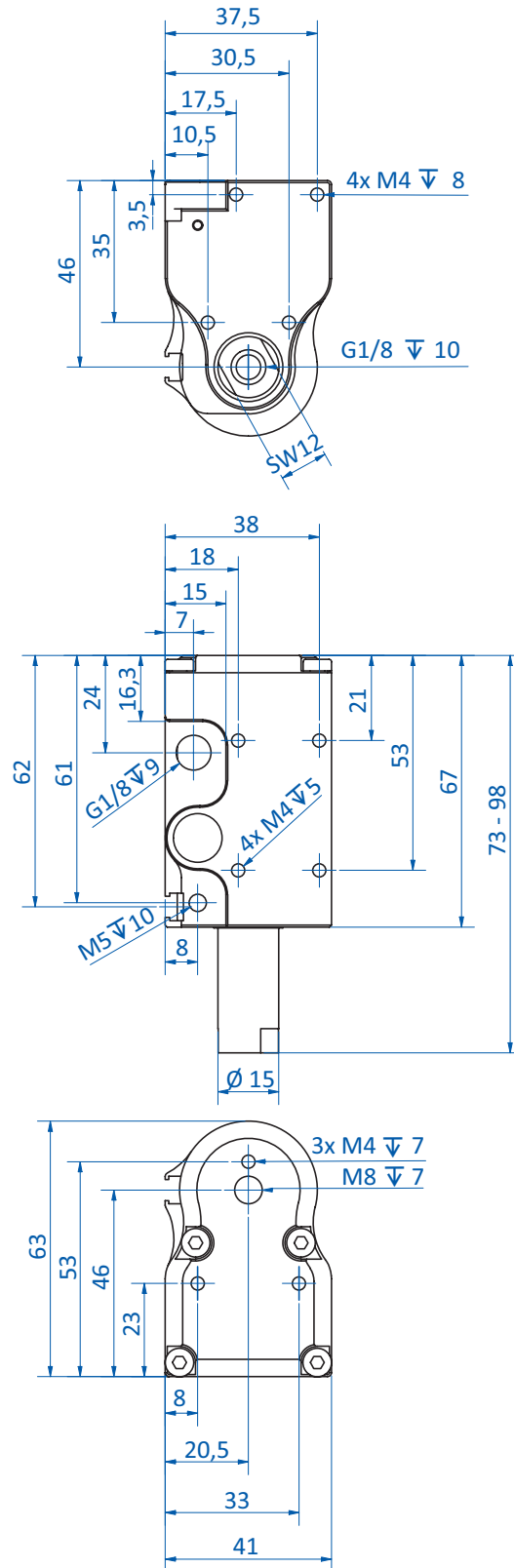


#### Process:

1. Initial position: compressed air off, piston drawn in, magnetic sensor in operation
2. Compressed air switched on, piston moves out, workpiece is pulled in, piston retracts with the workpiece to the initial position
3. Workpiece sucked in and lifted, compressed air on, magnetic field sensor in operation
4. Transport movement
5. Switch off compressed air, piston moves out with the workpiece, places the workpiece and retracts to the initial position
6. Initial position: compressed air off, piston drawn in, magnetic sensor in operation



## Dimensions



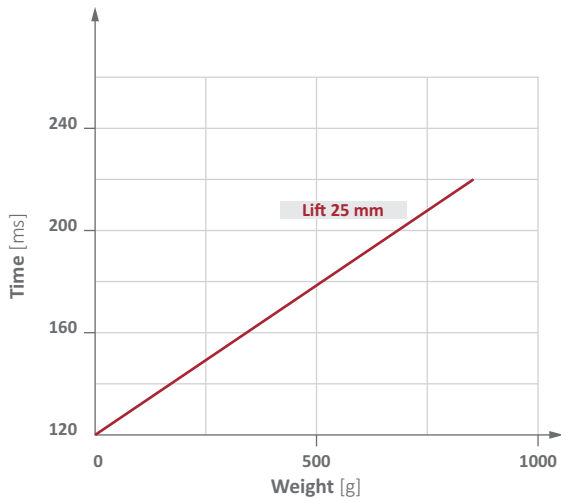


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## Diagrams

> Double stroke lifting time against weight, pressure 6 bar (87 psi)



> Double stroke placing time against weight, pressure 6 bar (87 psi)

