



# Vacuum generation | Electrically controlled ejectors

Mini ejector with blow-off boost function

## Mini ejector with blow-off boost function



Example: ejector EBA.08H.2-A with digital mini vacuum switch 20.040, closed diffusor silencer 72.000 and flat vacuum cup Ø 40 mm

### Product notes

- > Very short response time, safe and gentle product release
- > Small and very light for installation directly on vacuum cups for fast vacuum build-up and short gripping times
- > Blow-off from a fast-reacting micro valve enables very short cycle times
- > Graded blow-off boost effect: initially the blow-off is supported by ambient air, for placement that is both quick and gentle
- > Robust design and long service life of > 100 million switching cycles
- > M5 connection for digital mini vacuum switch to ensure reliable process monitoring
- > Ideally suited for robotic applications with very short cycles such as Delta Robots (e.g. FlexPickers)
- > Included in delivery: control cable 20.550, length 1.5 m, 2-wire, free end

### Technical data

| Item no.                                     | EBA.08H.2-A                        |
|--|------------------------------------|
| Nozzle diameter [mm]                         | 0.8                                |
| Optimal operating pressure [bar (psi)]       | 5 (72.5)                           |
| Max. operating pressure [bar (psi)]          | 8 (116)                            |
| Final vacuum [%]                             | 85                                 |
| Suction power at 5 bar (72.5 psi) [NI/min]   | 25                                 |
| Air consumption at 5 bar (72.5 psi) [NI/min] | 30                                 |
| Flow rate solenoid valve [NI/min]            | 15                                 |
| Blow-off volumes of flow [NI/min]            | 110 - 45                           |
| Power-on time solenoid valve (ED) [%]        | 100                                |
| Power-on/-off time solenoid valve [ms]       | 5                                  |
| Power consumption solenoid valve [W]         | 0.9                                |
| Control voltage                              | 24 VDC ± 10 %                      |
| Protection class                             | IP40                               |
| Operating temperature [°C (°F)]              | -10 - 50 (14 - 122)                |
| Weight [g]                                   | 35                                 |
| Suitable accessories                         | Silencer: 72.000, Silencer: 72.028 |

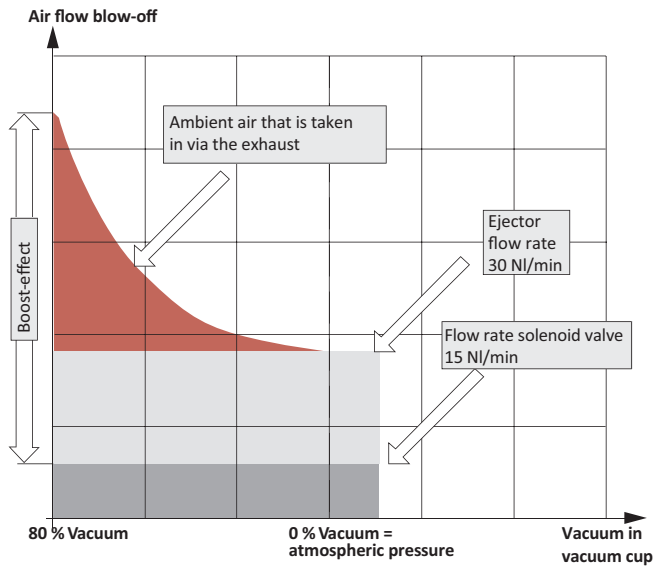
### Control cable 20.550



Cable assignment: red (+), black (-)



### Integrated blow-off with boost-effect



### Evacuation / Blow-off time

Evacuation / Blow-off time

1 liter volume up to % vacuum / atmospheric pressure [sec.]

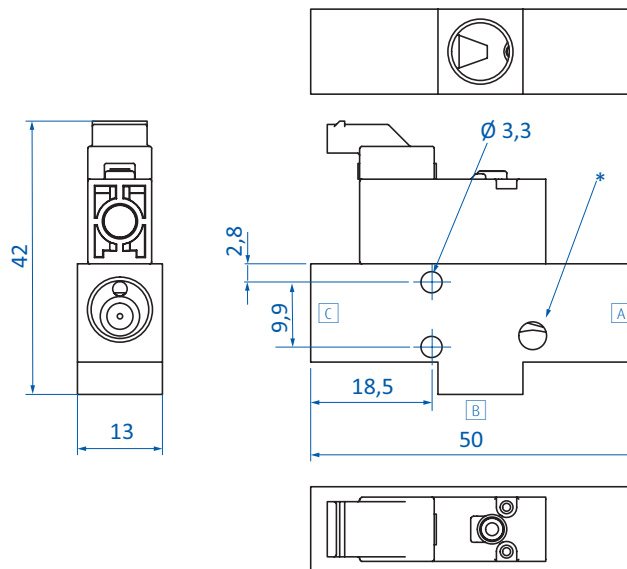
|                     |                     |                     |
|---------------------|---------------------|---------------------|
| 0 → 50 % / 50 % → 0 | 0 → 60 % / 60 % → 0 | 0 → 70 % / 70 % → 0 |
| 1.8 / 0.5           | 2.5 / 0.56          | 3.9 / 0.61          |

Evacuation / Blow-off time: example with Ø 30 mm flat suction cups, volume 1.7 cm³ up to % vacuum / atmospheric pressure [ms]



|                     |                     |                     |
|---------------------|---------------------|---------------------|
| 0 → 50 % / 50 % → 0 | 0 → 60 % / 60 % → 0 | 0 → 70 % / 70 % → 0 |
| 3 / < 1             | 4 / < 1             | 7 / 1               |

### Dimensions



[A] = Compressed air connection G1/8-female [B] = Vacuum connection G1/8-female [C] = Exhaust outlet G1/8-female  
\* = M5 connection for vacuum switches