



Vacuum generation | Ejectors

Base ejectors with integrated blow-off

Base ejectors with integrated blow-off

VERY SHORT RESPONSE TIME, SAFE AND GENTLE PRODUCT RELEASE



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

Product notes

- > 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)

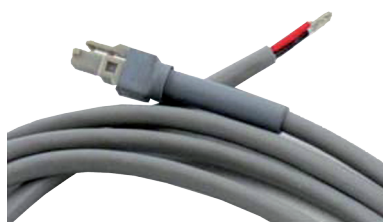
Ordering notes

- > 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 \pm 10 % |
| Protection class | IP40 |
| Operating temperature [$^{\circ}$ C ($^{\circ}$ F)] | -10 - 50 (14 - 122) |
| Weight [g] | 35 |
| Accessories | Connector cable: 20.550, Vacuum switch: 20.040, Vacuum switch: 20.041, Silencer: 72.000, Silencer: 72.028 |

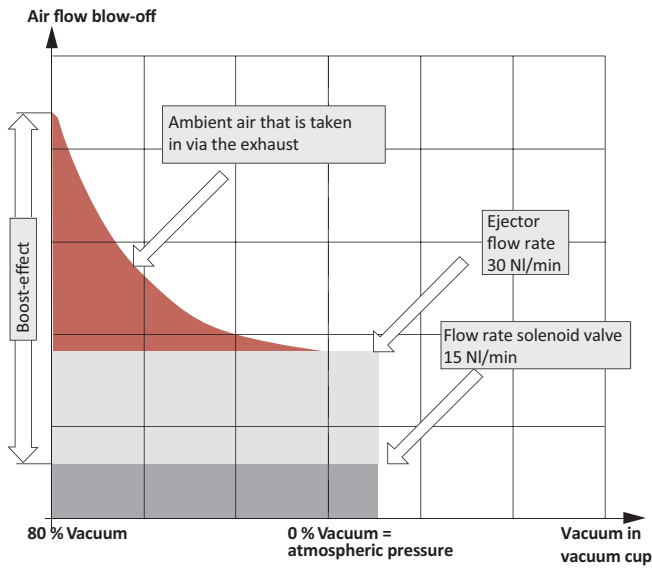
Control cable 20.550



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



Integrated blow-off with boost-effect

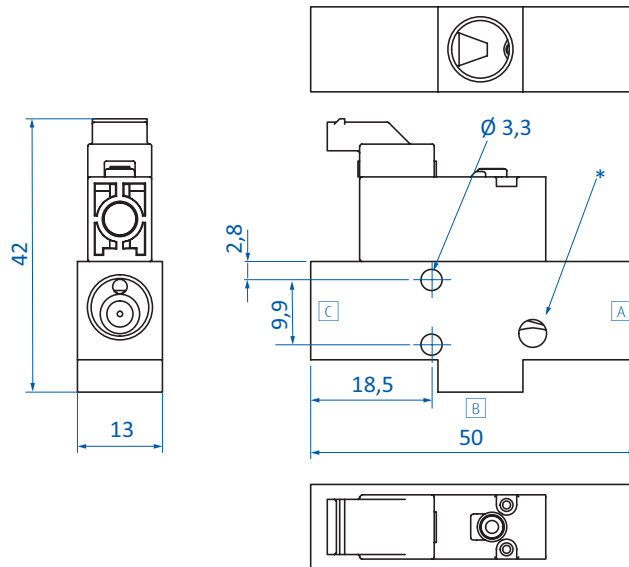


Evacuation / Blow-off time

| 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 cm ³ 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