

# COAX® cartridge MICRO Si02-2

Article number: 0113591



- Two-stage COAX® cartridge - MICRO - probably the world's smallest multistage vacuum ejector.
- Large vacuum flow in relation to energy consumption.
- Good for handling porous materials or if surface leakage is present.
- The low weight makes it suitable to integrate close to the suction point in high speed pick-and-place applications of small objects.

## Technical data

| Description         | Unit | Value                          |
|---------------------|------|--------------------------------|
| Material            | -    | Al, Nitrile (NBR), PA, SS, TPE |
| Temperature, max.   | °C   | 80                             |
| Temperature, min.   | °C   | -10                            |
| Weight, max.        | g    | 2.3                            |
| Weight, min.        | g    | 1.5                            |
| Feed pressure, max. | MPa  | 0.7                            |

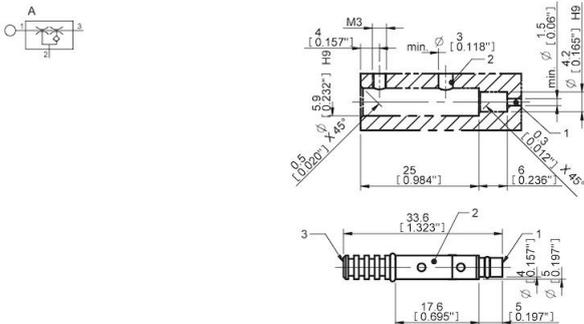
## Performance

| Feed pressure<br>MPa | Air consumption<br>NI/s | Vacuum flow (NI/s) at different vacuum levels (-kPa) |      |      |      |      |      |      |      |    |    |    |    |    | Max vacuum<br>kPa |   |     |
|----------------------|-------------------------|--|------|------|------|------|------|------|------|----|----|----|----|----|-------------------|---|-----|
|                      |                         | 0  | 10   | 20   | 30   | 40   | 50   | 60   | 70   | 75 | 80 | 90 | 95 | 99 |                   |   |     |
| 0.4                  | 0.09                    | 0.25   | 0.15 | 0.08 | 0.07 | 0.05 | 0.03 | 0    | 0    | 0  | 0  | 0  | 0  | 0  | 0                 | 0 | ≥60 |
| 0.5                  | 0.1                     | 0.27   | 0.19 | 0.09 | 0.08 | 0.07 | 0.05 | 0.02 | 0    | 0  | 0  | 0  | 0  | 0  | 0                 | 0 | ≥70 |
| 0.6                  | 0.12                    | 0.28   | 0.21 | 0.12 | 0.08 | 0.07 | 0.06 | 0.04 | 0.02 | 0  | 0  | 0  | 0  | 0  | 0                 | 0 | ≥75 |

| Feed pressure<br>MPa | Air consumption<br>NI/s | Evacuation time (s/l) to reach different vacuum levels (-kPa) |      |      |     |     |     |      |    |    |    |    | Max vacuum<br>kPa |      |       |   |     |
|----------------------|-------------------------|---|------|------|-----|-----|-----|------|----|----|----|----|-------------------|------|-------|---|-----|
|                      |                         | 10  | 20   | 30   | 40  | 50  | 60  | 70   | 80 | 90 | 95 | 99 |                   | 99.5 | 100.3 |   |     |
| 0.4                  | 0.09                    | 0.5   | 1.37 | 2.7  | 4.4 | 6.9 | 0   | 0    | 0  | 0  | 0  | 0  | 0                 | 0    | 0     | 0 | ≥60 |
| 0.5                  | 0.1                     | 0.43  | 1.15 | 2.33 | 3.7 | 5.3 | 8.2 | 0    | 0  | 0  | 0  | 0  | 0                 | 0    | 0     | 0 | ≥70 |
| 0.6                  | 0.12                    | 0.41  | 1.01 | 2.01 | 3.3 | 4.9 | 6.9 | 10.2 | 0  | 0  | 0  | 0  | 0                 | 0    | 0     | 0 | ≥75 |

| Feed pressure<br>MPa | Air consumption<br>NI/s | Blow flow (NI/s) at different pressure levels (-kPa) |      |      |      |     |      |      |      |    |    |     |     |     |     | Max pressure<br>kPa |     |   |     |
|----------------------|-------------------------|--|------|------|------|-----|------|------|------|----|----|-----|-----|-----|-----|---------------------|-----|---|-----|
|                      |                         | 0  | 10   | 20   | 30   | 40  | 50   | 60   | 70   | 80 | 90 | 100 | 110 | 120 | 130 |                     | 140 |   |     |
| 0.6                  | 0.12                    | 0.4  | 0.34 | 0.22 | 0.21 | 0.2 | 0.18 | 0.17 | 0.15 | 0  | 0  | 0   | 0   | 0   | 0   | 0                   | 0   | 0 | ≥75 |

## Dimensional drawings



Values specified in this data sheet are tested at (unless otherwise stated):

- Room temperature (20°C [68°F] ± 3°C [5.5°F]).
- Standard atmosphere (101.3 [29.9 inHg] ± 1.0 kPa [0.3 inHg]).

•Compressed air quality, DIN ISO 8573-1 class 4.