

## piINLINE® MICRO family



piINLINE® are small lightweight inline ejectors that use the patented COAX® technology inside. They can be mounted directly on a hose close to the suction cup (or point of suction). Piab's piINLINE® ejector program offers much better performance with at least 40-50% lower energy consumption compared to competing inline single-stage ejectors in corresponding sizes. Inline vacuum generators are especially common in electronic/semiconductor pick-and-place applications, dedicated packaging equipment, injection-molding automation and unloading/loading metal forming machines (bending, punching and laser-cutting).

The COAX® Cartridge Si/Ti for extra vacuum flow, Bi cartridge for reliability at low feed pressures. And Ti/Xi cartridge when high flow and deep vacuum is needed. The Ti cartridges are also extra dirt tolerant.

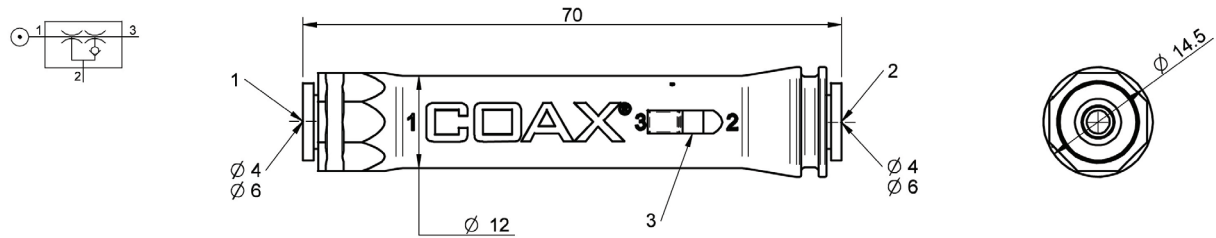
### VACUUM FLOW

| COAX® Cartridge | Feed pressure | Air consumption | Vacuum flow (l/s) at different vacuum levels (-kPa) |      |      |      |       |       |       |       |       |      | Max vacuum |
|-----------------|---------------|-----------------|-----------------------------------------------------|------|------|------|-------|-------|-------|-------|-------|------|------------|
|                 | MPa           |                 | 0                                                   | 10   | 20   | 30   | 40    | 50    | 60    | 70    | 80    | -kPa |            |
| MICRO Bi03-2    | 0.18          | 0.14            | 0.23                                                | 0.15 | 0.06 | 0.04 | 0.035 | 0.023 | 0.013 | 0.006 | —     | 83   |            |
| MICRO Si02-2    | 0.6           | 0.12            | 0.28                                                | 0.21 | 0.12 | 0.08 | 0.07  | 0.06  | 0.04  | 0.02  | —     | 75   |            |
| MICRO Ti05-2    | 0.4           | 0.27            | 0.32                                                | 0.28 | 0.23 | 0.17 | 0.1   | 0.07  | 0.04  | 0.02  | 0.004 | 84   |            |
| MICRO Ti05-2    | 0.6           | 0.37            | 0.31                                                | 0.27 | 0.24 | 0.2  | 0.15  | 0.09  | 0.04  | 0.01  | —     | 75   |            |
| MICRO Xi2.5-2   | 0.5           | 0.13            | 0.24                                                | 0.17 | 0.1  | 0.06 | 0.04  | 0.03  | 0.02  | 0.01  | 0.01  | 92   |            |

### EVACUATION TIMES

| COAX® Cartridge | Feed pressure | Air consumption | Evacuation time (s/l) to reach different vacuum levels (-kPa) |      |      |     |     |      |      |      |      |  | Max vacuum |
|-----------------|---------------|-----------------|---------------------------------------------------------------|------|------|-----|-----|------|------|------|------|--|------------|
|                 | MPa           |                 | 10                                                            | 20   | 30   | 40  | 50  | 60   | 70   | 80   | -kPa |  |            |
| MICRO Bi03-2    | 0.18          | 0.14            | 0.5                                                           | 1.4  | 3.9  | 6.4 | 10  | 16   | 28   | 51   | 83   |  |            |
| MICRO Si02-2    | 0.6           | 0.12            | 0.41                                                          | 1.01 | 2.01 | 3.3 | 4.9 | 6.9  | 10.2 | —    | 75   |  |            |
| MICRO Ti05-2    | 0.4           | 0.27            | 0.33                                                          | 0.73 | 1.2  | 2   | 3.1 | 5    | 8.3  | 16.6 | 84   |  |            |
| MICRO Ti05-2    | 0.6           | 0.37            | 0.3                                                           | 0.7  | 1.2  | 1.8 | 2.6 | 4.2  | 8.43 | —    | 75   |  |            |
| MICRO Xi2.5-2   | 0.5           | 0.13            | 0.49                                                          | 1.23 | 2.48 | 4.5 | 7.3 | 11.3 | 18   | 28   | 92   |  |            |

## DIMENSIONAL DRAWING



## ORDERING INFORMATION

| Description                                 | Item No. |
|---------------------------------------------|----------|
| piINLINE® vacuum generator MICRO Bi, 4-4 mm | 0122880  |
| piINLINE® vacuum generator MICRO Bi, 6-6 mm | 0122883  |
| piINLINE® vacuum generator MICRO Si, 6-6 mm | 0122882  |
| piINLINE® vacuum generator MICRO Ti, 6-6 mm | 0122022  |
| piINLINE® vacuum generator MICRO Xi, 4-4 mm | 0122881  |
| piINLINE® vacuum generator MICRO Xi, 6-6 mm | 0122884  |