

P5010 CU

Item number: P5010\_CU



- P5010 multistage ejector with Pi, Si or Xi COAX® push-in cartridge(s).
- Integrated Control Unit (CU) with electric valves for vacuum on-off and blow-off control.
- Mechanical valve for blow-off flow adjustment.
- Enhanced blow-off power thanks to a directed blow-off pipe.
- Slim, compact, configurable and modular design.

Technical data

| Description                         | Unit             | Value                                     |
|-------------------------------------|------------------|-------------------------------------------|
| Material                            | -                | Al. CuZn. Nitrile (NBR). PA. PE. PMMA. SS |
| Temperature, max.                   | °F               | 122                                       |
| Temperature, min.                   | °F               | 32                                        |
| Weight, max.                        | oz               | 45                                        |
| Weight, min.                        | oz               | 15.17                                     |
| Feed pressure, max.                 | psi              | 102                                       |
| Safety classification               | -                | IP65 [NEMA4]                              |
| Valve function                      | -                | NC                                        |
| Noise level, max.                   | dBA              | 71                                        |
| Noise level, min.                   | dBA              | 68                                        |
| Current, consumption                | mA               | 60                                        |
| Vacuum flow, range, max.            | scfm             | 15.89                                     |
| Vacuum flow, range, min. (Blow-off) | scfm             | 0                                         |
| Humidity, max.                      | % RH             | 90                                        |
| Ripple, max.                        | V <sub>rms</sub> | 1                                         |
| Supply voltage, max.                | VDC              | 28                                        |
| Supply voltage, min.                | VDC              | 22                                        |
| Supply voltage, nominal             | VDC              | 24                                        |

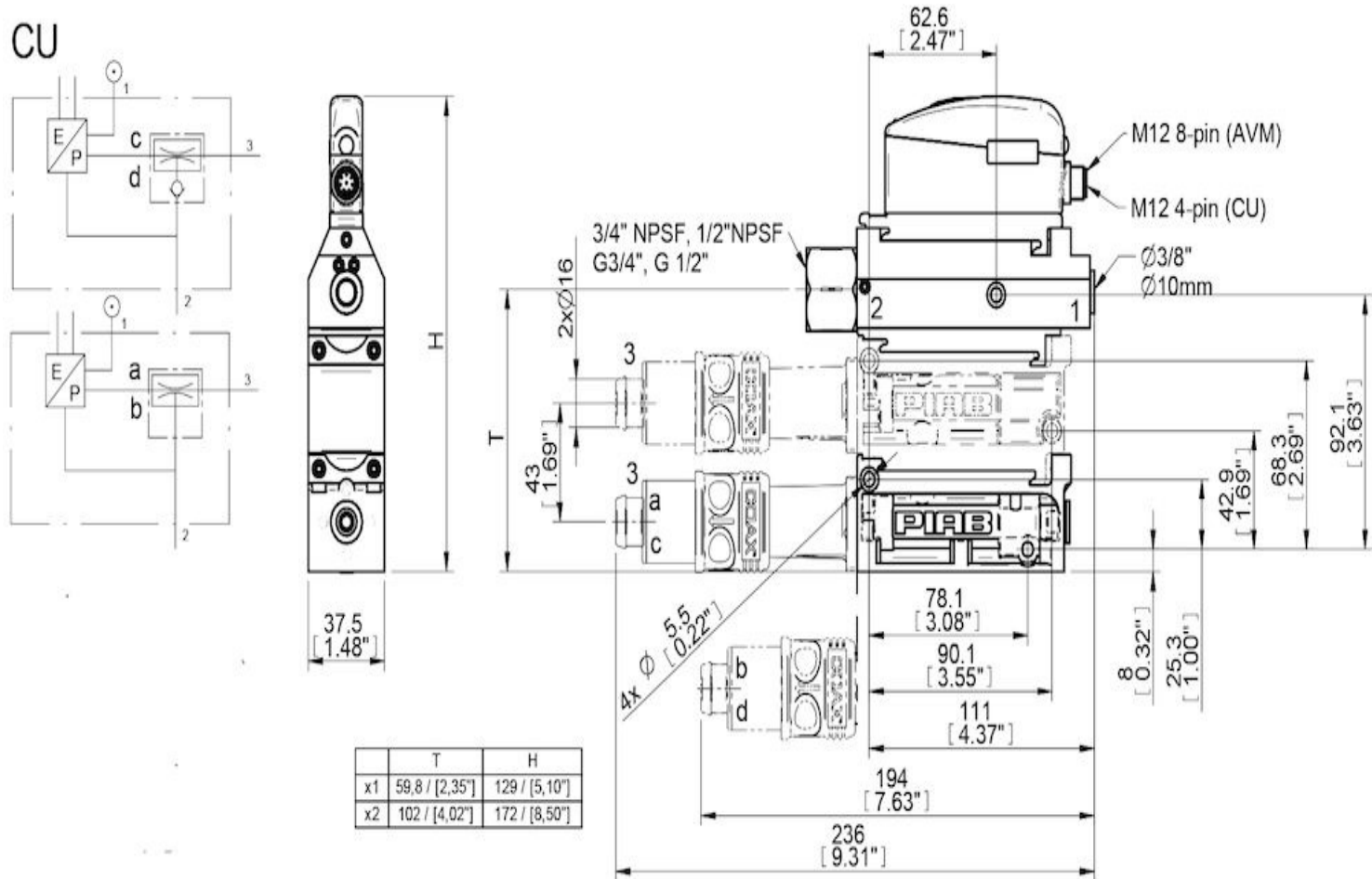
Performance

| Ejector specification | Feed pressure<br>psi | Air consumption<br>scfm | Vacuum flow (scfm) at different vacuum levels (-inHg) |      |      |      |      |       |       |      |      |       | Max vacuum<br>-inHg |
|-----------------------|----------------------|-------------------------|-------------------------------------------------------|------|------|------|------|-------|-------|------|------|-------|---------------------|
|                       |                      |                         | 0                                                     | 2    | 5    | 8    | 11   | 14    | 17    | 20   | 26   | 29    |                     |
| Pi48-2                | 43.51                | 4.24                    | 5.93                                                  | 5.3  | 3.81 | 2.33 | 1.38 | 1.059 | 0.74  | 0.53 | 0.21 |       | ≥26.58              |
| Pi48-3                | 44.96                | 4.34                    | 11.87                                                 | 5.3  | 3.81 | 2.33 | 1.38 | 1.059 | 0.74  | 0.53 | 0.21 |       | ≥26.58              |
| Xi40-2                | 65.27                | 3.88                    | 5.93                                                  | 4.87 | 3.39 | 2.12 | 1.55 | 1.23  | 0.91  | 0.68 | 0.38 | 0.064 | ≥28.054             |
| Xi40-3                | 65.27                | 3.88                    | 12.5                                                  | 6.36 | 4.24 | 2.75 | 1.55 | 1.23  | 0.91  | 0.68 | 0.38 | 0.064 | ≥28.054             |
| Si32-2                | 87.023               | 3.71                    | 6.99                                                  | 6.36 | 5.51 | 3.6  | 1.91 | 1.27  | 1.059 | 0.74 |      |       | ≥22.15              |
| Si32-3                | 87.023               | 3.71                    | 12.71                                                 | 7.42 | 5.51 | 3.6  | 1.91 | 1.27  | 1.059 | 0.74 |      |       | ≥22.15              |

| Ejector specification | Feed pressure<br>psi | Air consumption<br>scfm | Evacuation time (s/cf) to reach different vacuum levels (-inHg) |      |      |       |       |         |       |       |        |  | Max vacuum<br>-inHg |
|-----------------------|----------------------|-------------------------|-----------------------------------------------------------------|------|------|-------|-------|---------|-------|-------|--------|--|---------------------|
|                       |                      |                         | 2                                                               | 5    | 8    | 11    | 14    | 17      | 20    | 23    | 26     |  |                     |
| Pi48-2                | 43.51                | 4.24                    | 1.076                                                           | 2.38 | 4.33 | 7.56  | 12.49 | 19.17   | 28.6  | 44.77 |        |  | ≥26.58              |
| Pi48-3                | 44.96                | 4.34                    | 0.57                                                            | 1.7  | 3.4  | 7.079 | 12.74 | 19.82   | 28.32 | 45.31 | 113.27 |  | ≥26.58              |
| Xi40-2                | 65.27                | 3.88                    | 1.13                                                            | 2.55 | 4.81 | 7.93  | 12.46 | 17.84   | 25.49 | 36.81 | 65.13  |  | ≥28.054             |
| Xi40-3                | 65.27                | 3.88                    | 0.62                                                            | 1.76 | 3.4  | 6.23  | 10.48 | 16.14   | 23.79 | 33.98 | 62.3   |  | ≥28.054             |
| Si32-2                | 87.023               | 3.71                    | 0.85                                                            | 1.98 | 2.83 | 5.097 | 9.34  | 15.0079 | 22.65 |       |        |  | ≥22.15              |
| Si32-3                | 87.023               | 3.71                    | 0.57                                                            | 1.42 | 2.83 | 5.097 | 9.34  | 15.0079 | 22.65 |       |        |  | ≥22.15              |

| Ejector specification | Feed pressure<br>psi | Air consumption<br>scfm | Blow flow (scfm) at different pressure levels (-inHg) |        |        |        |       |        |       |      |      |       |      |      |       |      |      | Max pressure<br>-inHg |
|-----------------------|----------------------|-------------------------|-------------------------------------------------------|--------|--------|--------|-------|--------|-------|------|------|-------|------|------|-------|------|------|-----------------------|
|                       |                      |                         | 0                                                     | 2      | 5      | 8      | 11    | 14     | 17    | 20   | 23   | 26    | 29   | 32   | 35    | 38   | 41   |                       |
| Pi48-2 (Blow-off)     | 87.023               | 7.42                    | 13.031                                                | 13.031 | 13.031 | 12.82  | 12.61 | 11.63  | 10.66 | 9.51 | 9.51 | 9.51  | 9.51 | 9.51 | 9.027 | 8.48 | 7.69 | ≥                     |
| Si32-2                | 87.023               | 3.71                    | 10.7                                                  | 9.85   | 9.0053 | 8.0094 | 6.99  | 6.31   | 5.62  | 4.98 | 3.81 |       |      |      |       |      |      | ≥22.15                |
| Si32-3                | 87.023               | 3.71                    | 16.53                                                 | 13.14  | 9.75   | 8.48   | 6.99  | 6.36   | 5.72  | 4.87 | 3.81 |       |      |      |       |      |      | ≥22.15                |
| Pi48-3                | 87.023               | 7.52                    | 20.13                                                 | 16.95  | 13.77  | 13.35  | 12.71 | 12.078 | 11.23 | 9.96 | 9.75 | 9.75  | 9.54 | 9.54 | 9.11  | 8.48 | 7.84 | ≥                     |
| Xi40-2                | 87.023               | 4.94                    | 10.81                                                 | 10.38  | 9.75   | 8.48   | 7.2   | 7.098  | 6.99  | 6.57 | 5.93 | 5.085 |      |      |       |      |      | ≥                     |
| Xi40-3                | 87.023               | 4.94                    | 17.8                                                  | 14.41  | 10.81  | 9.54   | 8.31  | 7.73   | 7.18  | 6.84 | 6.25 | 5.47  |      |      |       |      |      | ≥                     |

CU



Values specified in this datasheet 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.

Tolerance and accuracy:

- Feed pressure tolerance ±0.02 MPa [2.9 psi]
- Vacuum flow/evacuation time accuracy ±10%.