

## piCLASSIC Si32-3



- ▶ Patented COAX® technology inside – the most energy efficient ejector technology.
- ▶ The Si cartridge offers extra vacuum flow.
- ▶ Suitable for handling porous materials or if leakage is present.
- ▶ Large capacity range, available with 1 to 6 COAX® Si32 three-stage cartridges.
- ▶ Can be easily be upgraded with more capacity if needed.
- ▶ Low-weight, configurable and modular design.
- ▶ Easy disassembly for maintenance.

### Technical data

| Description                                     | Unit            | Value                       |
|-------------------------------------------------|-----------------|-----------------------------|
| Feed pressure, optimum                          | MPa             | 0.60                        |
| Feed pressure, max.                             | MPa             | 0.7                         |
| Max. vacuum                                     | -kPa            | 75                          |
| Internal volume, vacuum chamber, 1-2 cartridges | cm <sup>3</sup> | 140                         |
| Internal volume, vacuum chamber, 3-4 cartridges | cm <sup>3</sup> | 246                         |
| Internal volume, vacuum chamber, 5-6 cartridges | cm <sup>3</sup> | 353                         |
| Noise level at 40 -kPa & optimal feed pressure  | dBA             | 66-77                       |
| Temperature range                               | °C              | -10-80                      |
| Materials                                       |                 | PA, Al, SS, NBR (FKM), CuZn |

### Technical data, specific

| Weight         | Value (g) |
|----------------|-----------|
| 1-2 cartridges | 500-550   |
| 3-4 cartridges | 720-790   |
| 5-6 cartridges | 795-875   |
| Silencer       | 120       |
| Vacuum gauge   | 50        |

### Vacuum flow at recommended feed pressure (0.6 MPa)

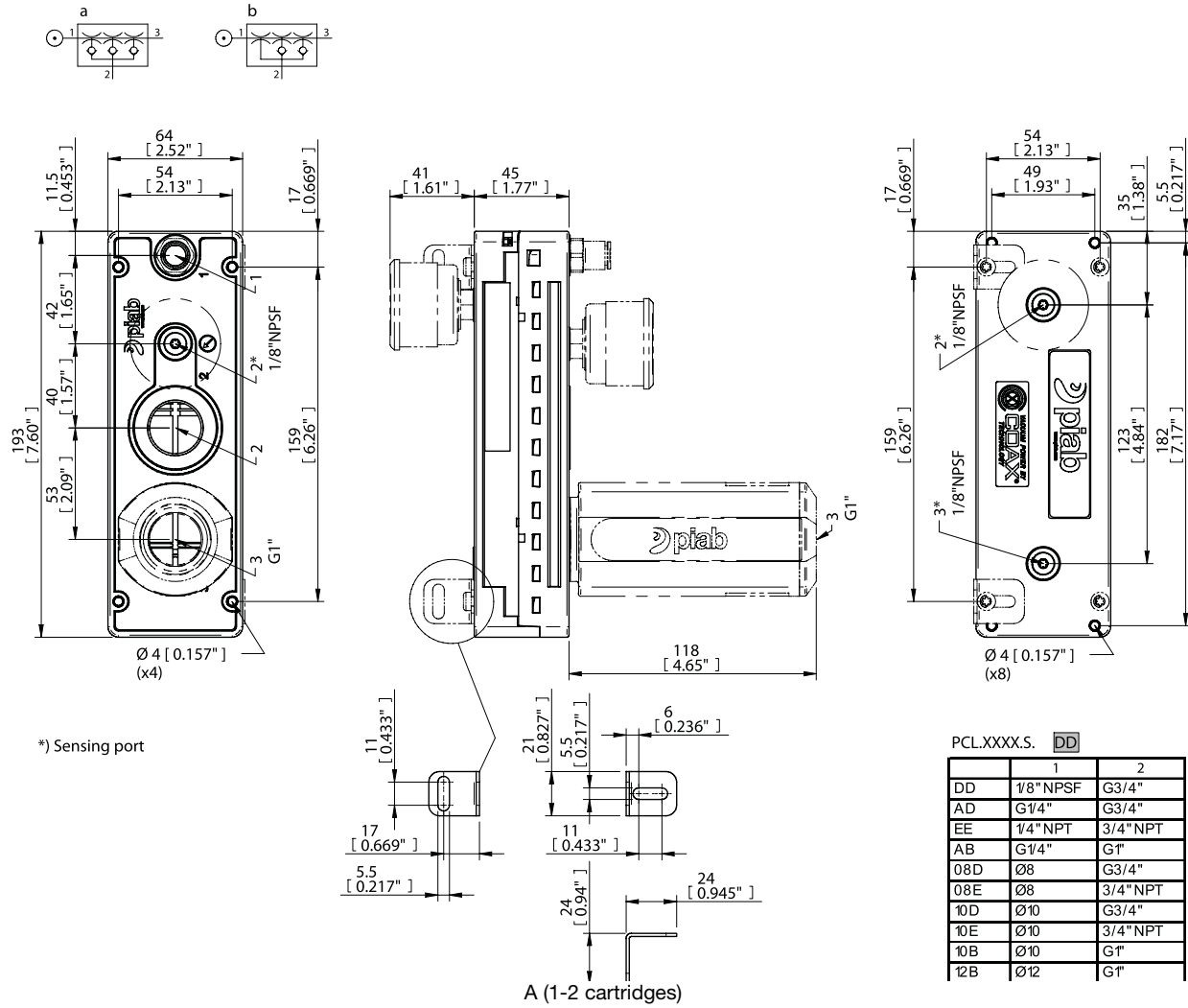
| COAX® cartridge | Air consumption<br>NI/s | Vacuum flow (NI/s) at different vacuum levels (-kPa) |      |      |      |      |      |      |      |
|-----------------|-------------------------|------------------------------------------------------|------|------|------|------|------|------|------|
|                 |                         | 0                                                    | 10   | 20   | 30   | 40   | 50   | 60   | 70   |
| Si32-3 x1       | 1.75                    | 6.00                                                 | 3.50 | 2.60 | 1.70 | 0.90 | 0.60 | 0.50 | 0.35 |
| Si32-3 x2       | 3.50                    | 12.0                                                 | 7.00 | 5.20 | 3.40 | 1.80 | 1.20 | 1.00 | 0.70 |
| Si32-3 x3       | 5.25                    | 18.0                                                 | 10.5 | 7.80 | 5.10 | 2.70 | 1.80 | 1.50 | 1.10 |
| Si32-3 x4       | 7.00                    | 24.0                                                 | 14.0 | 10.4 | 6.80 | 3.60 | 2.40 | 2.00 | 1.40 |
| Si32-3 x5       | 8.75                    | 25.5                                                 | 15.8 | 12.4 | 8.50 | 4.50 | 3.00 | 2.50 | 2.10 |
| Si32-3 x6       | 10.5                    | 28.8                                                 | 17.9 | 14.8 | 10.2 | 5.40 | 3.60 | 3.00 | 2.20 |

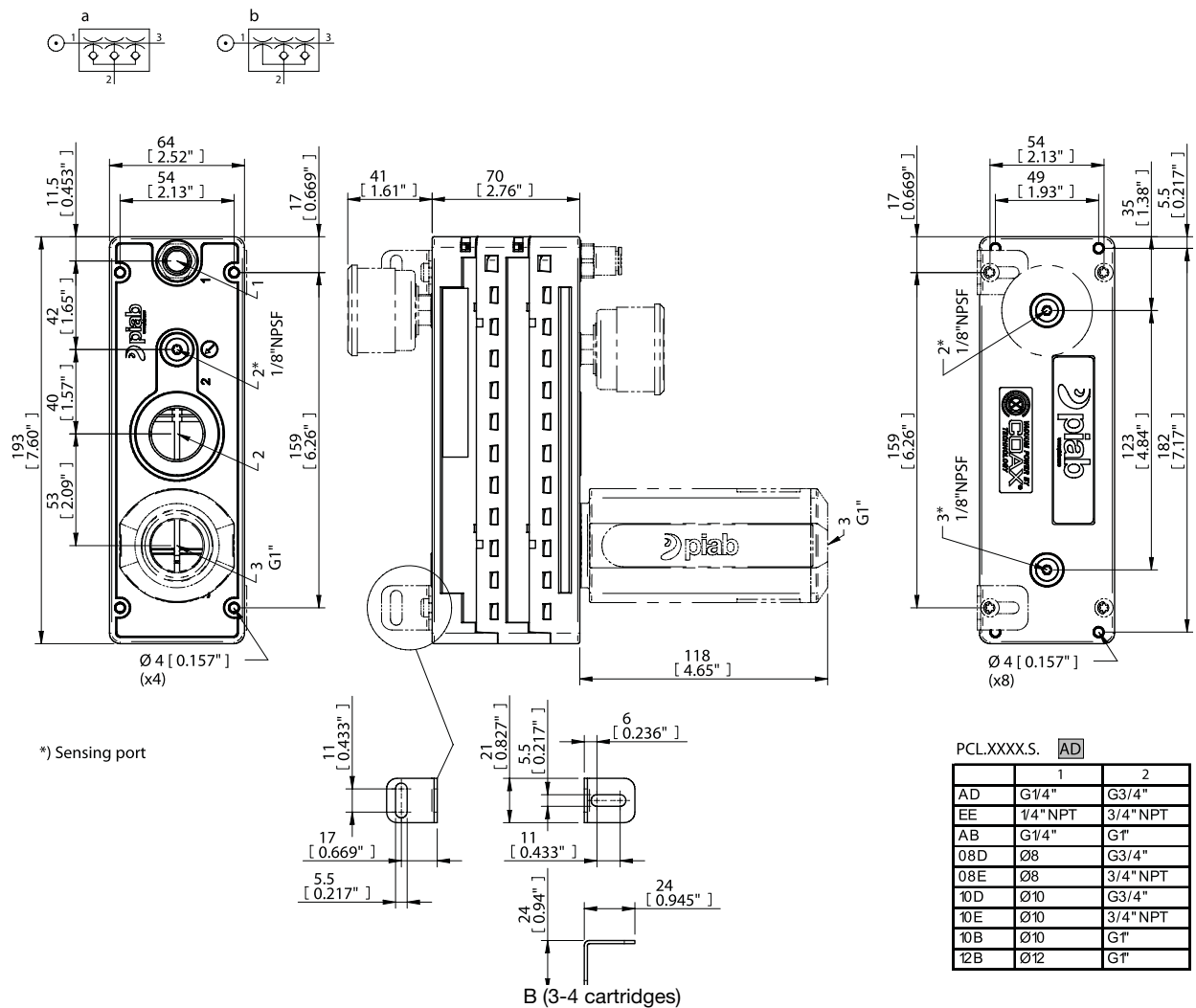
### Evacuation time at recommended feed pressure (0.6 MPa)

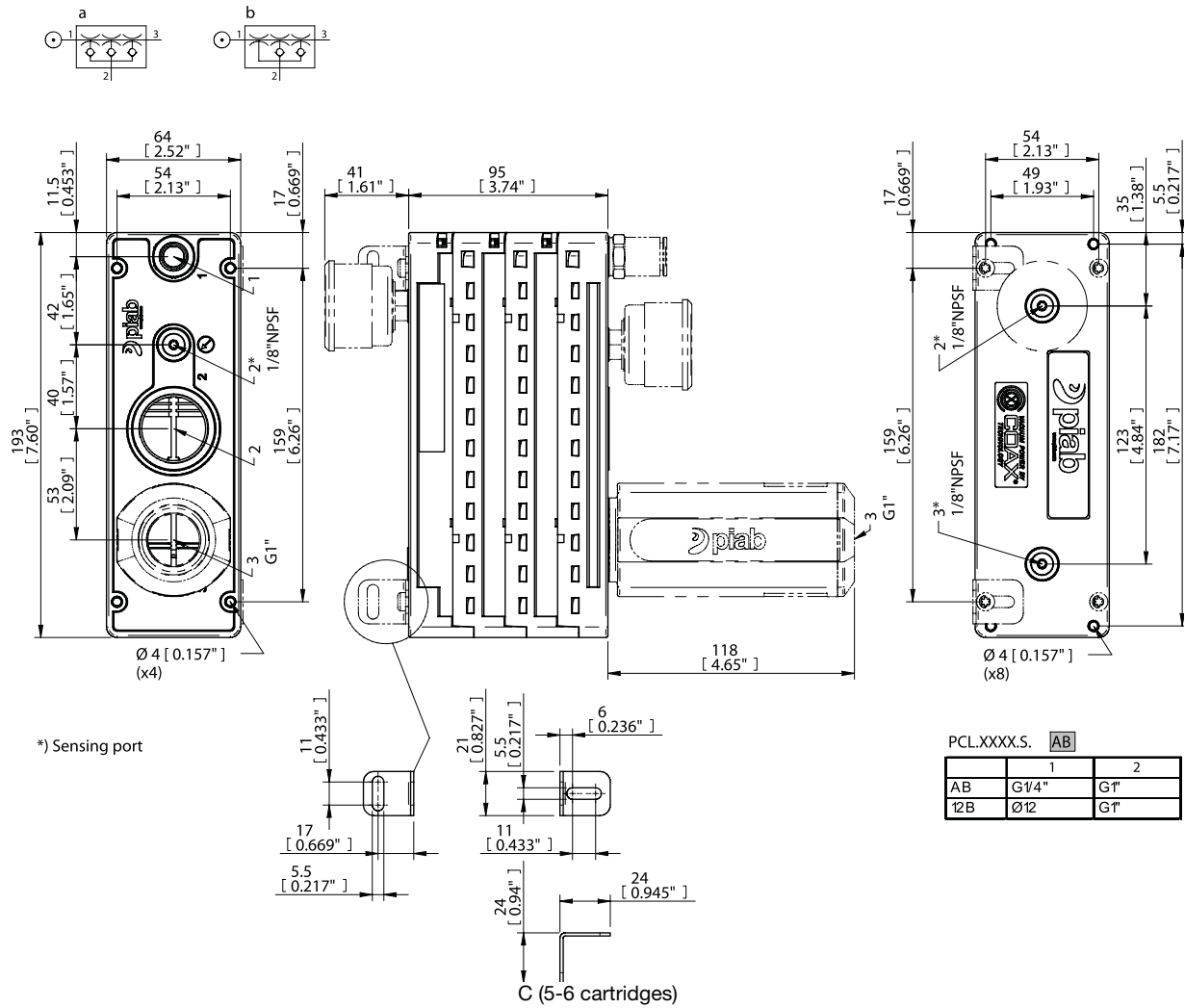
| COAX® cartridge | Air consumption<br>NI/s | Evacuation time (s/l) to reach different vacuum levels (-kPa) |       |       |       |       |      |      |
|-----------------|-------------------------|---------------------------------------------------------------|-------|-------|-------|-------|------|------|
|                 |                         | 10                                                            | 20    | 30    | 40    | 50    | 60   | 70   |
| Si32-3 x1       | 1.75                    | 0.02                                                          | 0.05  | 0.10  | 0.18  | 0.33  | 0.53 | 0.80 |
| Si32-3 x2       | 3.50                    | 0.01                                                          | 0.025 | 0.05  | 0.09  | 0.17  | 0.27 | 0.40 |
| Si32-3 x3       | 5.25                    | 0.007                                                         | 0.017 | 0.033 | 0.06  | 0.11  | 0.18 | 0.27 |
| Si32-3 x4       | 7.00                    | 0.005                                                         | 0.013 | 0.025 | 0.045 | 0.083 | 0.13 | 0.20 |
| Si32-3 x5       | 8.75                    | 0.004                                                         | 0.01  | 0.02  | 0.036 | 0.066 | 0.11 | 0.16 |
| Si32-3 x6       | 10.5                    | 0.003                                                         | 0.008 | 0.017 | 0.03  | 0.055 | 0.09 | 0.13 |

## Ordering information

| 1. Housing                                                                                                                                                        |                                 | piCLASSIC Code   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------|
| Housing                                                                                                                                                           |                                 | PCL              |
| 2a. COAX® cartridge modules                                                                                                                                       |                                 | piCLASSIC Code   |
| A                                                                                                                                                                 | COAX® cartridge module Si32-3x1 | S1               |
| A                                                                                                                                                                 | COAX® cartridge module Si32-3x2 | S2               |
| B                                                                                                                                                                 | COAX® cartridge module Si32-3x3 | S3               |
| B                                                                                                                                                                 | COAX® cartridge module Si32-3x4 | S4               |
| C                                                                                                                                                                 | COAX® cartridge module Si32-3x5 | S5               |
| C                                                                                                                                                                 | COAX® cartridge module Si32-3x6 | S6               |
| 2b. Valve Configuration                                                                                                                                           |                                 | piCLASSIC Code   |
| a                                                                                                                                                                 | Standard                        | B                |
| b                                                                                                                                                                 | Non-return valve                | A                |
| 2c. Sealing material                                                                                                                                              |                                 | piCLASSIC Code   |
| Nitrile                                                                                                                                                           |                                 | N                |
| Viton                                                                                                                                                             |                                 | V                |
| 3. Function                                                                                                                                                       |                                 | piCLASSIC Code   |
| Standard                                                                                                                                                          |                                 | S                |
| 4a. Compressed air connection                                                                                                                                     |                                 | piCLASSIC Code   |
| G1/4" female                                                                                                                                                      |                                 | A                |
| 1/4" NPT female                                                                                                                                                   |                                 | E                |
| 1/8" NPSF (G) female                                                                                                                                              |                                 | D                |
| *Push-in 8 mm (5/32")-1/4" female                                                                                                                                 |                                 | 08               |
| *Push-in 10 mm-1/4" female                                                                                                                                        |                                 | 10               |
| *Push-in 12 mm-1/4" female                                                                                                                                        |                                 | 12               |
| <i>*Compressed air push-in connector included separately.</i>                                                                                                     |                                 |                  |
| 4b. Vacuum connection                                                                                                                                             |                                 | piCLASSIC Code   |
| G3/4" female                                                                                                                                                      |                                 | D                |
| 3/4" NPT female                                                                                                                                                   |                                 | E                |
| G1" female                                                                                                                                                        |                                 | B                |
| 5. Accessory                                                                                                                                                      |                                 | piCLASSIC Code   |
| None                                                                                                                                                              |                                 | X                |
| Silencer G1" male                                                                                                                                                 |                                 | S                |
| Vacuum gauge                                                                                                                                                      |                                 | V                |
| Silencer G1" male & vacuum gauge                                                                                                                                  |                                 | SV               |
| Example                                                                                                                                                           |                                 | Ordering number  |
| piCLASSIC Si32-3x1, Standard Valve, Nitrile Sealing, Function Standard, Connections Comp. Air G1/4" female--Vacuum G3/4" female, Silencer G1" male & vacuum gauge |                                 | PCL.S1BN.S.AD.SV |







## Crossover Classic to piCLASSIC

| Classic Art. No. | Classic Code No. | piCLASSIC Art. No. | piCLASSIC Code No. |
|------------------|------------------|--------------------|--------------------|
| 0102117          | L25B6ADN         | 9904047            | PCL.S1BN.S.08D.SV  |
| 0102119          | L50B6ADN         | 9904040            | PCL.S2BN.S.08D.SV  |
| 0102121          | L100B6ADN        | 9904043            | PCL.S3BN.S.08D.SV  |
| 0102122          | L100B6ADNA       | 9904052            | PCL.S3AN.S.08D.SV  |
| 0102027          | L50B6-DN         | 9904050            | PCL.S2BN.S.DD.SV   |
| 0102401          | L25B6-EN         | 9904048            | PCL.S1BN.S.08E.SV  |
| 0102403          | L50B6-EN         | 9904046            | PCL.S2BN.S.08E.SV  |
| 0102405          | L100B6-EN        | 9904045            | PCL.S3BN.S.08E.SV  |