

piCLASSIC Xi40-3



- Patented COAX® technology inside – the most energy efficient ejector technology.
- The Xi cartridge offers high flow at deep vacuum levels to 95 -kPa.
- Suitable for non-porous applications when deep vacuum level is needed.
- Large capacity range, available with 1 to 6 COAX® Xi40 three-stage cartridges. A smaller piCLASSIC can 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	0.45
Feed pressure, max.	MPa	0.7
Max. vacuum	-kPa	95
Internal volume, vacuum chamber, 1-2 cartridges	cm ³	140
Internal volume, vacuum chamber, 3-4 cartridges	cm ³	246
Internal volume, vacuum chamber, 5-6 cartridges	cm ³	353
Noise level at 40 -kPa & optimal feed pressure	dBA	64-69
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 (0.45 MPa*)

COAX® cartridge	Air consumption	Vacuum flow (NI/s) at different vacuum levels (-kPa)									
	NI/s	0	10	20	30	40	50	60	70	80	90
Xi40-3 x1	1.83	5.9	3.0	2.0	1.3	0.73	0.58	0.43	0.32	0.18	0.03
Xi40-3 x2	3.66	11.8	6.0	4.0	2.6	1.46	1.16	0.86	0.64	0.36	0.06
Xi40-3 x3	5.49	17.7	9.0	6.0	3.9	2.19	1.74	1.29	0.96	0.54	0.09
Xi40-3 x4	7.32	23.6	12.0	8.0	5.2	2.92	2.32	1.72	1.28	0.72	0.12
Xi40-3 x5	9.15	25.1	13.5	9.5	6.5	3.65	2.90	2.15	1.60	0.90	0.15
Xi40-3 x6	11.0	28.3	15.3	11.4	7.8	4.38	3.44	2.58	1.92	1.08	0.18

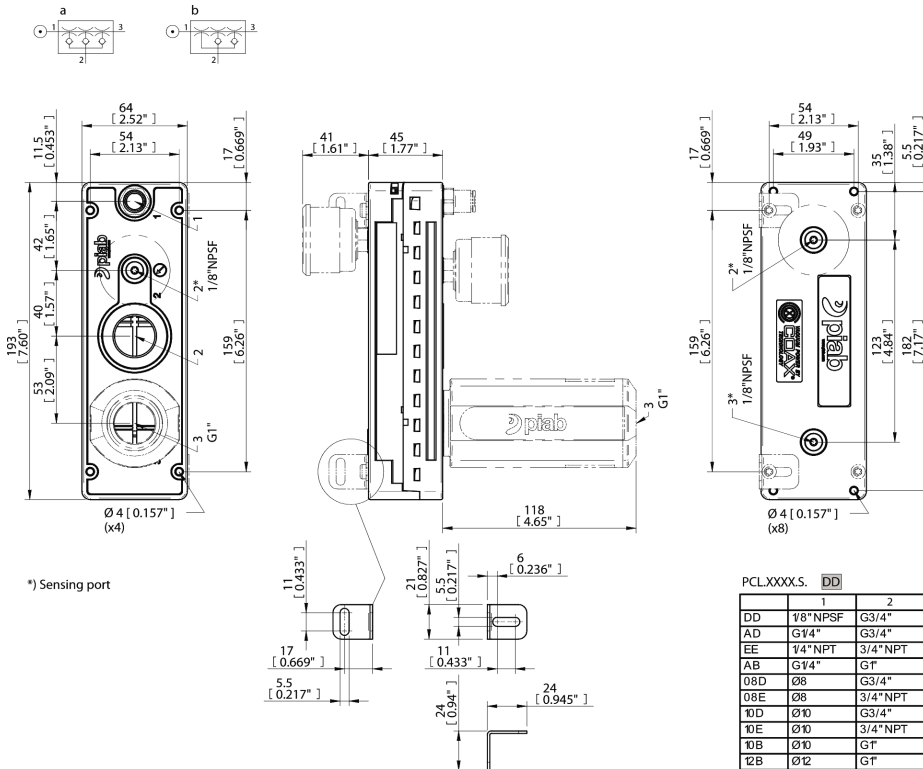
*Feed pressure tolerance, +/- 0.01 MPa

Evacuation time at
recommended feed pressure
(0.45 MPa*)

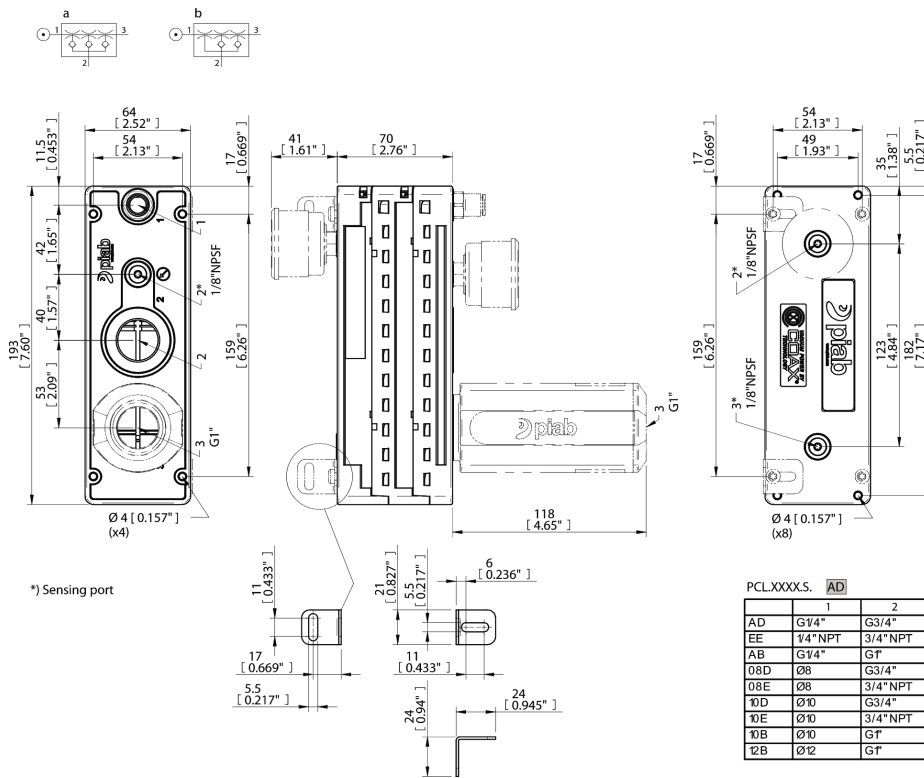
COAX® cartridge	Air consumption	Evacuation time (s/l) to reach different vacuum levels (-kPa)								
	NI/s	10	20	30	40	50	60	70	80	90
Xi40-3 x1	1.83	0.022	0.062	0.12	0.22	0.37	0.57	0.84	1.2	2.2
Xi40-3 x2	3.66	0.011	0.031	0.06	0.11	0.19	0.29	0.42	0.6	1.1
Xi40-3 x3	5.49	0.007	0.021	0.04	0.07	0.12	0.19	0.28	0.4	0.73
Xi40-3 x4	7.32	0.006	0.016	0.03	0.055	0.09	0.14	0.21	0.3	0.55
Xi40-3 x5	9.15	0.005	0.014	0.026	0.044	0.07	0.11	0.17	0.24	0.44
Xi40-3 x6	11.0	0.005	0.012	0.022	0.040	0.06	0.10	0.14	0.20	0.37

*Feed pressure tolerance, +/- 0.01 MPa

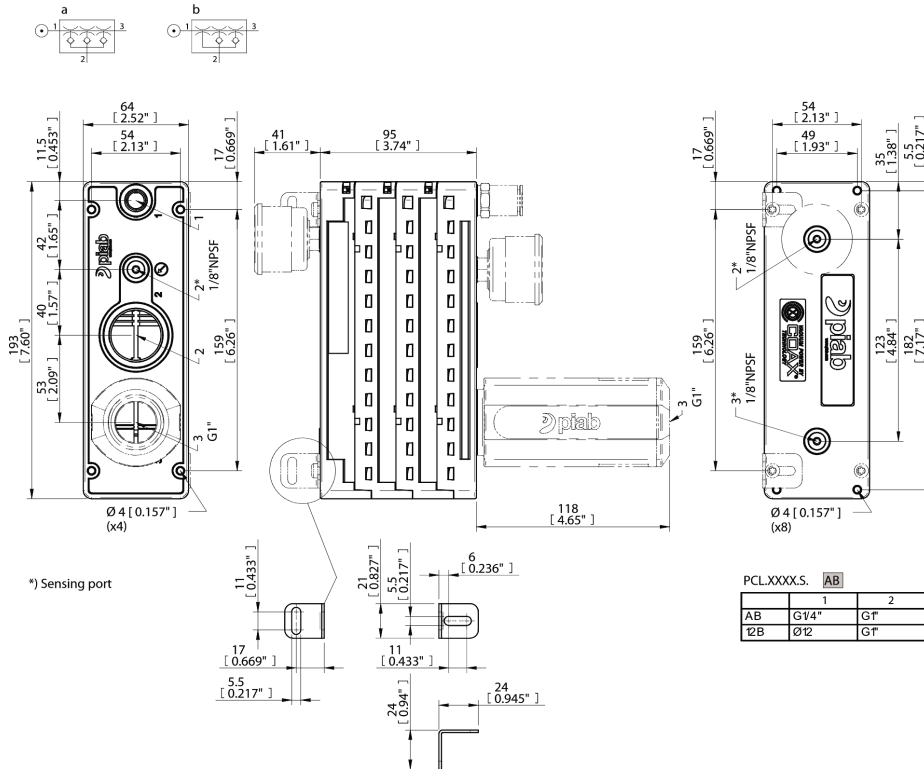
Example	Ordering number
piCLASSIC Xi40-3x1, Standard Valve, Nitrile Sealing, Function Standard, Connections Comp. Air G1/4" female--Vacuum G3/4" female, Silencer G1" male & vacuum gauge	PCL.X1BN.S.AD.SV



A (1-2 cartridges)



B (3-4 cartridges)



C (5-6 cartridges)

Crossover Classic to piCLASSIC

Classic Art. No.	Classic Code No.	piCLASSIC Art. No.	piCLASSIC Code No.
0102133	M25B5ADN	9904039	PCL.X1BN.S.08D.SV
0102184	M25B6ADN	9904039	PCL.X1BN.S.08D.SV
0102135	M50B5ADN	9904034	PCL.X2BN.S.08D.SV
0102113	M50B6ADN	9904034	PCL.X2BN.S.08D.SV
0102137	M100B5ADN	9904035	PCL.X3BN.S.08D.SV
0102115	M100B6ADN	9904035	PCL.X3BN.S.08D.SV
0102136	M50B5ADNA	9904053	PCL.X2AN.S.08D.SV
0102138	M100B5ADNA	9904051	PCL.X3AN.S.08D.SV
0102031	M25B5-DN	9904044	PCL.X1BN.S.DD.SV

0100366	M25B6-DN	9904044	PCL.X1BN.S.DD.SV
0102033	M50B5-DN	9904041	PCL.X2BN.S.DD.SV
0100372	M50B6-DN	9904041	PCL.X2BN.S.DD.SV
0102035	M100B5-DN	0126065	piCLASSIC Xi x3, Connection plate DD
0100378	M100B6-DN	0126065	piCLASSIC Xi x3, Connection plate DD
0102411	M25B5-EN	9904038	PCL.X1BN.S.08E.SV
0102395	M25B6-EN	9904038	PCL.X1BN.S.08E.SV
0102413	M50B5-EN	9904036	PCL.X2BN.S.08E.SV
0102397	M50B6-EN	9904036	PCL.X2BN.S.08E.SV
0102415	M100B5-EN	9904037	PCL.X3BN.S.08E.SV
0102399	M100B6-EN	9904037	PCL.X3BN.S.08E.SV

Ordering information

1. Housing

piCLASSIC Code

Housing

PCL

2a. COAX® cartridge modules

piCLASSIC Code

A COAX® cartridge module Xi40-3x1

X1

A COAX® cartridge module Xi40-3x2

X2

B COAX® cartridge module Xi40-3x3

X3

B COAX® cartridge module Xi40-3x4

X4

C COAX® cartridge module Xi40-3x5

X5

C COAX® cartridge module Xi40-3x6

X6

2b. Valve Configuration

piCLASSIC Code

b Standard

B

a 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 (5/16")-1/4" female

08

*Push-in 10 mm-1/4" female

10

*Push-in 12 mm-1/4" female

12

*Compressed air push-in connector included separately.

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

Ordering information, accessories

Description

Art. No.

Silencer G3/4" with thread insert 1" - 3/4"

0126362

Recommended for piCLASSIC pumps with 1-2 cartridges. Choose a piCLASSIC without Silencer G 1" in the ordering code.