piCLASSIC Pi48-3

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- Patented COAX® technology inside – the most energy efficient ejector technology.
- High performance reliability in cases of fluctuating or low compressed air pressure.
- Deep vacuum level achieved at very low feed pressure, 44 psi.
- Fluctuating compressed air is commonplace in large plants and when the compressor has a high degree of utilization.
- Large capacity range, available with 1 to 6 COAX® Pi48 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	psi	44
Feed pressure, max.	psi	101.5
Max. vacuum	-inHg	27.0
Internal volume, vacuum chamber, 1-2 cartridges	in^3	8.54
Internal volume, vacuum chamber, 3-4 cartridges	in^3	15.0
Internal volume, vacuum chamber, 5-6 cartridges	in^3	21.5
Noise level at 12 -inHg & optimal feed pressure	dBA	65-68
Temperature range	°F	14-176
Materials		PA, Al, SS, NBR (FKM), CuZn

Technical data, specific

Weight	Unit	Value
1-2 cartridges	lb	1.10-1.21
3-4 cartridges	lb	1.59-1.74
5-6 cartridges	lb	1.75-1.93
Silencer	oz	4.23
Vacuum gauge	oz	1.76

Vacuum flow at recommended feed pressure (44 psi*)

COAX® cartridge	Air consumption	Vacuum flow (scfm) at different vacuum levels (-inHg)								
	scfm	0	3	6	9	12	15	18	21	24
Pi48-3 x1	4.24	11.9	5.30	3.81	2.33	1.38	1.06	0.74	0.53	0.21
Pi48-3 x2	8.48	23.7	10.6	7.63	4.66	2.75	2.12	1.48	1.06	0.42
Pi48-3 x3	12.7	35.6	15.9	11.4	6.99	4.13	3.18	2.22	1.59	0.64
Pi48-3 x4	17.0	47.5	21.2	15.3	9.32	5.51	4.24	2.97	2.12	0.85

Pi48-3 x5	21.2	50.6	23.9	18.2	11.7	6.89	5.30	3.71	2.65	1.06
Pi48-3 x6	25.4	57.0	27.1	21.8	14.0	8.26	6.36	4.45	3.18	1.27

*Feed pressure tolerance, +/- 1.45 psi

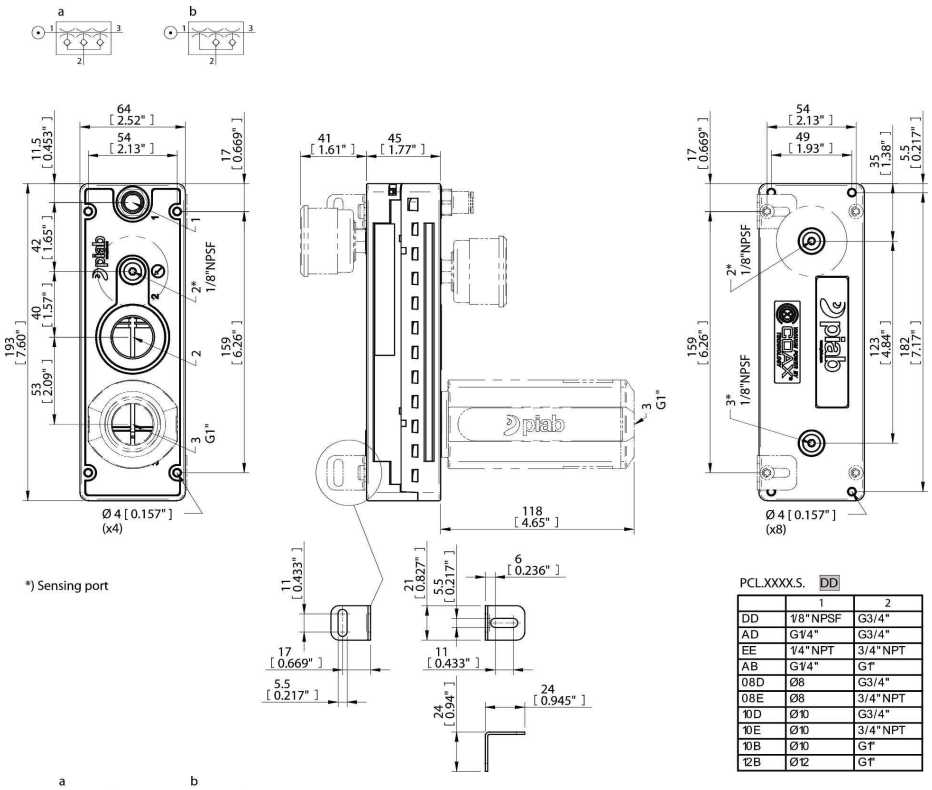
Evacuation time at recommended feed pressure (44 psi*)

COAX® cartridge	Air consumption	Evacuation time (s/cf) to reach different vacuum levels (-inHg)								
	scfm	3	6	9	12	15	18	21	24	27
Pi48-3 x1	4.24	0.57	1.70	3.40	7.08	12.7	19.8	28.3	45.3	113
Pi48-3 x2	8.48	0.28	0.85	1.70	3.68	6.52	9.92	14.2	22.7	56.7
Pi48-3 x3	12.7	0.20	0.57	1.13	2.27	4.25	6.52	9.35	15.0	37.7
Pi48-3 x4	17.0	0.14	0.42	0.85	1.70	3.12	5.10	7.08	11.3	28.3
Pi48-3 x5	21.2	0.14	0.40	0.79	1.42	2.55	3.97	5.67	9.07	22.7
Pi48-3 x6	25.4	0.11	0.37	0.71	1.13	2.27	3.40	4.82	7.65	19.0

*Feed pressure tolerance, +/- 1.45 psi

Example	Ordering number
piCLASSIC Pi48-3x1, Standard Valve, Nitrile Sealing, Function Standard, Connections Comp. Air G1/4" female--Vacuum G3/4" female, Silencer G1" male & vacuum gauge	PCL.P1BN.S.AD.SV

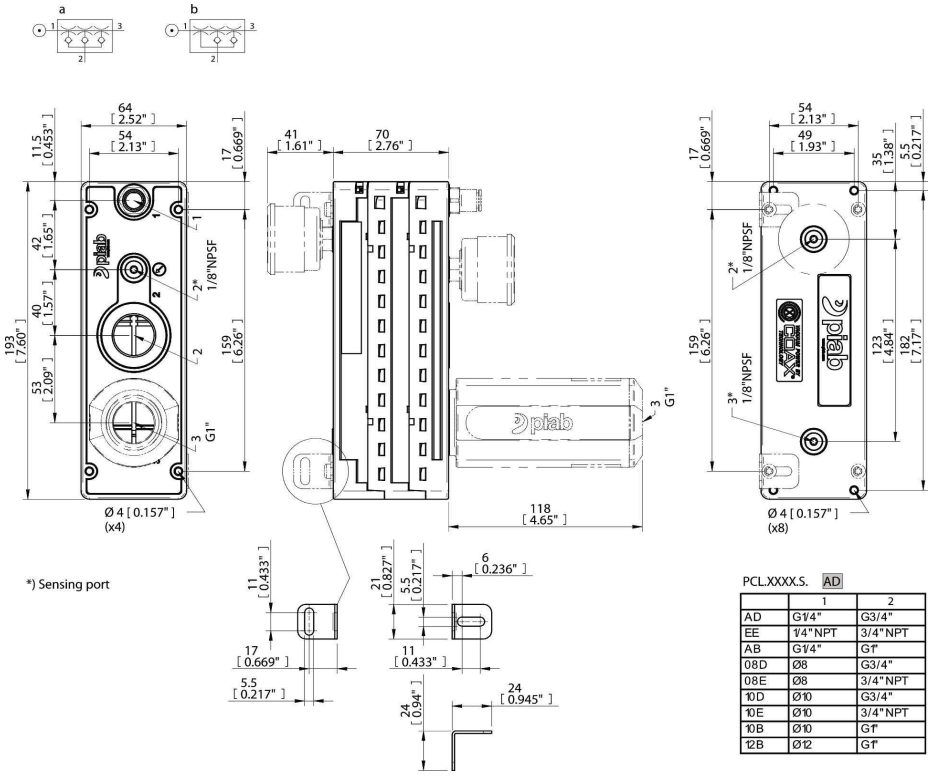
Add "PPFC." to the beginning of the Ordering number for vacuum pump/vacuum filter combination (with FREE 3-pack of elements). Includes G3/4" silencer.



PCL.XXXX.S. DD

	1	2
DD	1⁄8"NPSF	G3/4"
AD	G1⁄4"	G3/4"
EE	1⁄4"NPT	3/4"NPT
AB	G1⁄4"	G1"
08D	Ø8	G3/4"
08E	Ø8	3/4"NPT
10D	Ø10	G3/4"
10E	Ø10	3/4"NPT
10B	Ø10	G1"
12B	Ø12	G1"

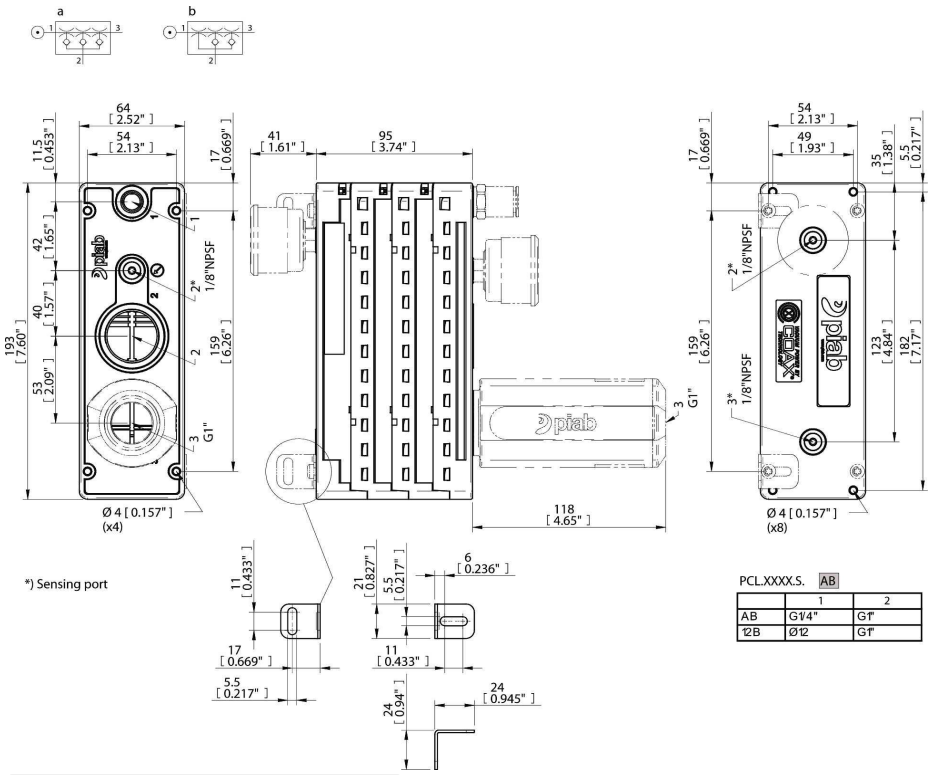
A (1-2 cartridges)



PCL.XXXX.S. AD

	1	2
AD	G1⁄4"	G3/4"
EE	1⁄4"NPT	3/4"NPT
AB	G1⁄4"	G1"
08D	Ø8	G3/4"
08E	Ø8	3/4"NPT
10D	Ø10	G3/4"
10E	Ø10	3/4"NPT
10B	Ø10	G1"
12B	Ø12	G1"

B (3-4 cartridges)



C (5-6 cartridges)

Ordering information

1. Housing	piCLASSIC Code
Housing	PCL

	2a. COAX® cartridge modules	piCLASSIC Code
A	COAX® cartridge module Pi48-3x1	P1
A	COAX® cartridge module Pi48-3x2	P2
B	COAX® cartridge module Pi48-3x3	P3
B	COAX® cartridge module Pi48-3x4	P4
C	COAX® cartridge module Pi48-3x5	P5
C	COAX® cartridge module Pi48-3x6	P6

	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	Part No.
Silencer G3/4" with thread insert 1" - 3/4"	01.26.362

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