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piCLASSIC

Upgraded with 22% more energy efficiency



No need to compromise

www.piab.com

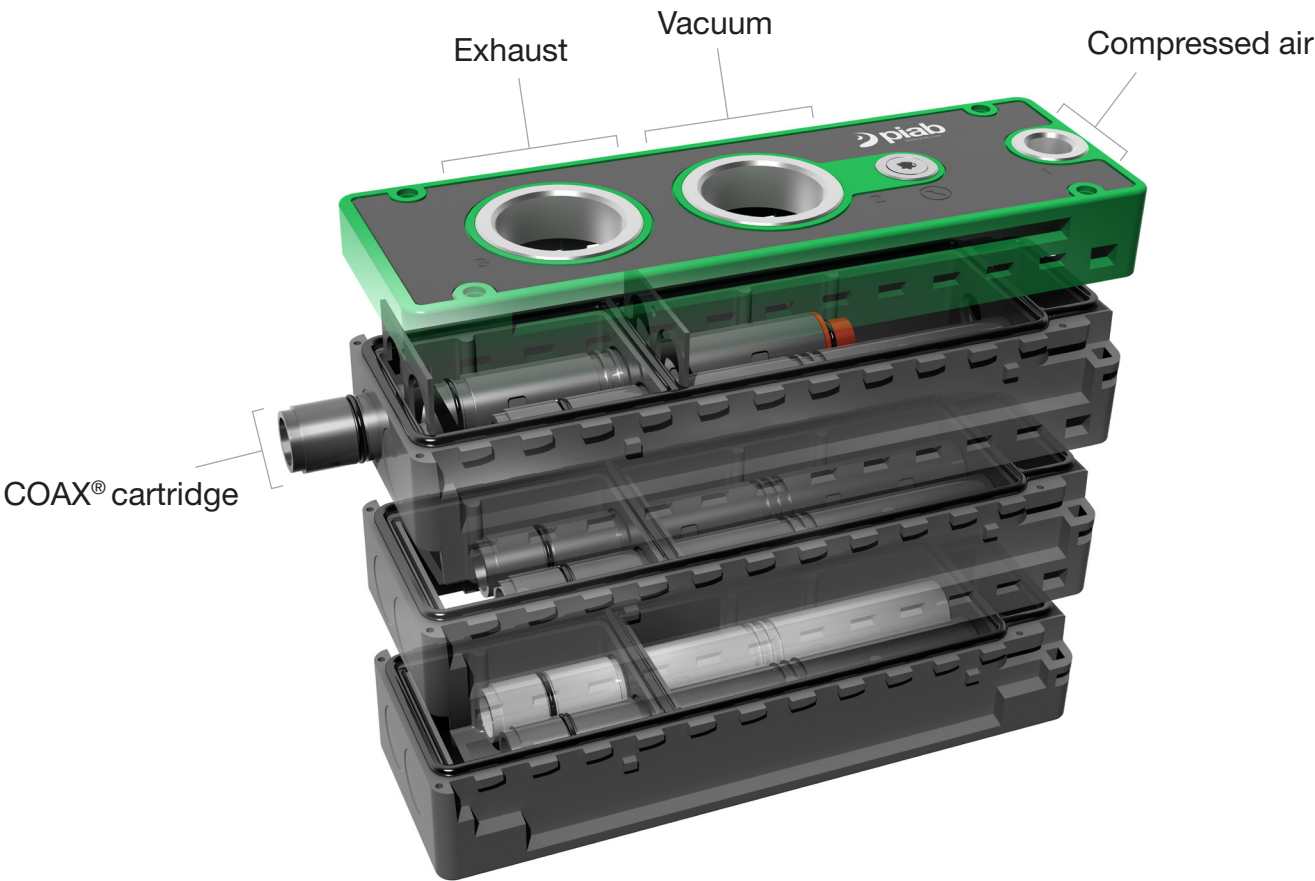
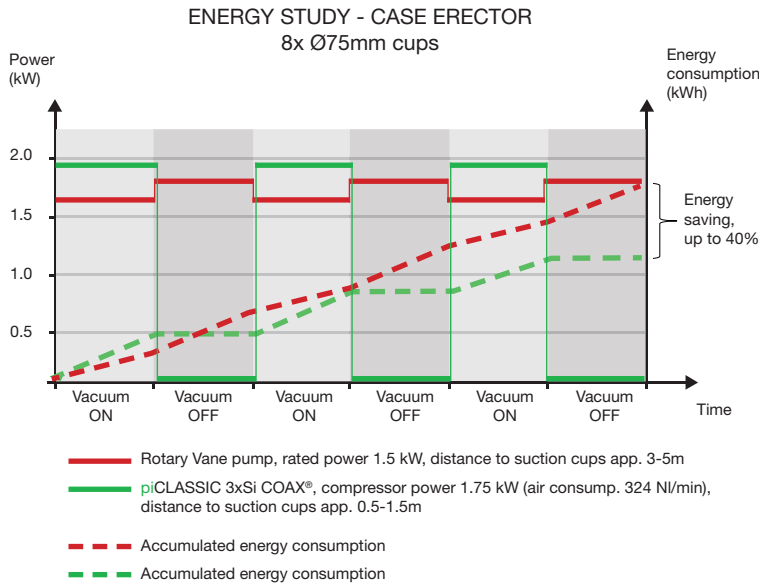
Art. No. 0126054GB
Piab AB, 2011-05

piCLASSIC

40% more energy efficient compared to a rotary vane style pump

Our Classic pump series has been upgraded to piCLASSIC with COAX® cartridges, providing an improvement up to 22% in energy efficiency.

- ▶ Available with 70% more vacuum flow capacity versus previous Classic models.
- ▶ High initial flow.
- ▶ No need for expensive vacuum tanks and vacuum valves on high-speed machines.
- ▶ Easy to control on/off for intermittent operation to save energy.
- ▶ Low weight (0.5-1kg) and new modular design.
- ▶ Easy to install close to suction point for reduced energy costs (smaller size of pump).
- ▶ Few moving parts – virtually no cost for service and repair.
- ▶ New design is easy to dismount and clean.
- ▶ Performance can easily be upgraded by adding cartridges (up to a total of 6).
- ▶ Available with extra energy saving function for sealed systems.



Technical information

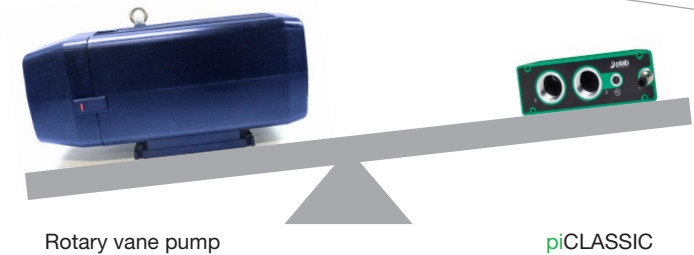
piCLASSIC vacuum cartridge	Area of application	Optimum feed pressure, MPa	Air consumption/ cartridge, NI/s	Max vacuum, -kPa	Vacuum flow range, 1-6 cartridges, NI/s	Rec. operating vacuum range, -kPa
Midi Si32-3	Leaking applications	0.6	1.75	75	6-28.8	0-70
Midi Pi48-3	Low or fluctuating comp. air	0.3	2.0	90	5.6-26.9	0-90
Midi Xi40-3	Sealed applications	0.45	1.83	95	5.9-28.3	70-95

Leaking applications include handling porous materials such as corrugated board. Sealed applications include handling non-porous materials such as glass and metal.

Configurable products

Product Group																
piCLASSIC	COAX® cartridge module		Number of COAX®		COAX® valve configuration		Sealing material		Function		Compressed air connection		Vacuum connection		Accessories	
Code	Code	Description	Code	Description	Code	Description	Code	Description	Code	Description	Code	Description	Code	Description	Code	Description
PCL	S	COAX® cartridge Si32-3, high vacuum flow	1	Single unit	B	Standard	N	Nitrile	S	No function	A	G1/4" female	D	G3/4" female	X	No accessory
	X	COAX® cartridge Xi40-3, extra vacuum level	2	x2 units	A	Non-return valve	V	Viton	F	Energy saving system (ES)	E	1/4" NPT female	E	3/4" NPT female	S	Silencer G1" male
	P	COAX® cartridge Pi48-3, low feed pressure	3	x3 units							D	1/8" NPSF (G) female	B	G1" female	V	Vacuum gauge
			4	x4 units							08	Push in 8 mm (5/32")-1/4" female			SV	Silencer G1" male & vacuum gauge
			5	x5 units							10	Push in 10 mm-1/ 4" female				
			6	x6 units							12	Push in 12 mm-1/ 4" female				

PCL . S1BN . S . 10D . SV



piCLASSIC Pi48-3



- ▶ 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, 0.3 MPa.
- ▶ 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	MPa	0.30
Feed pressure, max.	MPa	0.7
Max. vacuum	-kPa	90
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	65-68
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 (0.30 MPa)

COAX® cartridge	Air consumption NI/s	Vacuum flow (NI/s) at different vacuum levels (-kPa)								
		0	10	20	30	40	50	60	70	80
Pi48-3 x1	2.0	5.6	2.5	1.8	1.1	0.65	0.50	0.35	0.25	0.10
Pi48-3 x2	4.0	11.2	5.0	3.6	2.2	1.3	1.0	0.70	0.50	0.20
Pi48-3 x3	6.0	16.8	7.5	5.4	3.3	1.95	1.5	1.05	0.75	0.30
Pi48-3 x4	8.0	22.4	10.0	7.2	4.4	2.6	2.0	1.4	1.0	0.40
Pi48-3 x5	10.0	23.8	11.3	8.6	5.5	3.25	2.5	1.75	1.25	0.50
Pi48-3 x6	12.0	26.9	12.8	10.3	6.6	3.9	3.0	2.1	1.5	0.60

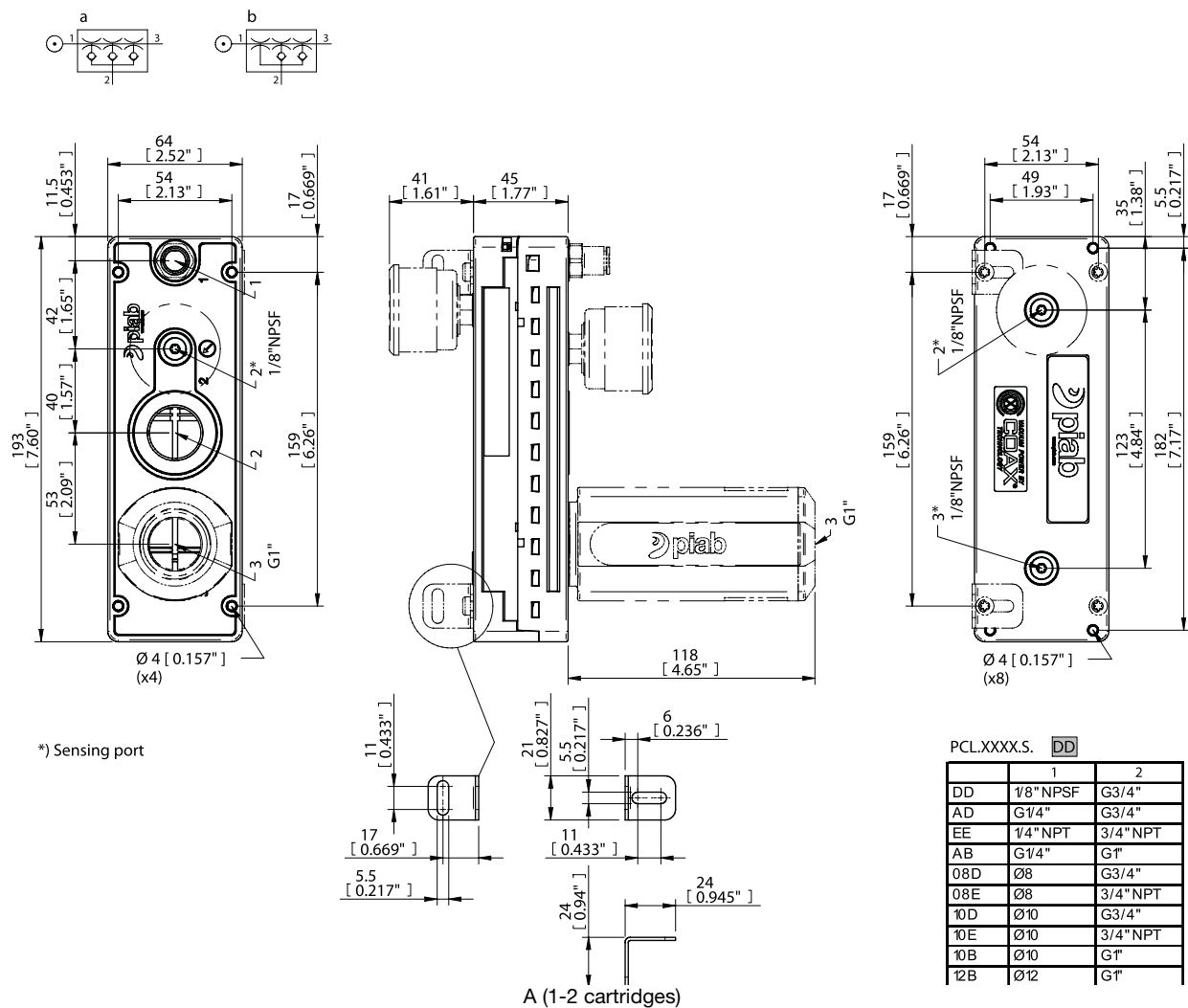
Evacuation time at recommended feed pressure (0.30 MPa)

COAX® cartridge	Air consumption NI/s	Evacuation time (s/l) to reach different vacuum levels (-kPa)								
		10	20	30	40	50	60	70	80	90
Pi48-3 x1	2.0	0.020	0.060	0.12	0.25	0.45	0.70	1.0	1.6	4.0
Pi48-3 x2	4.0	0.010	0.030	0.06	0.13	0.23	0.35	0.50	0.80	2.0
Pi48-3 x3	6.0	0.007	0.020	0.04	0.08	0.15	0.23	0.33	0.53	1.33
Pi48-3 x4	8.0	0.005	0.015	0.03	0.06	0.11	0.18	0.25	0.40	1.0
Pi48-3 x5	10.0	0.004	0.012	0.024	0.05	0.09	0.14	0.20	0.32	0.80
Pi48-3 x6	12.0	0.003	0.010	0.023	0.04	0.08	0.12	0.17	0.27	0.67

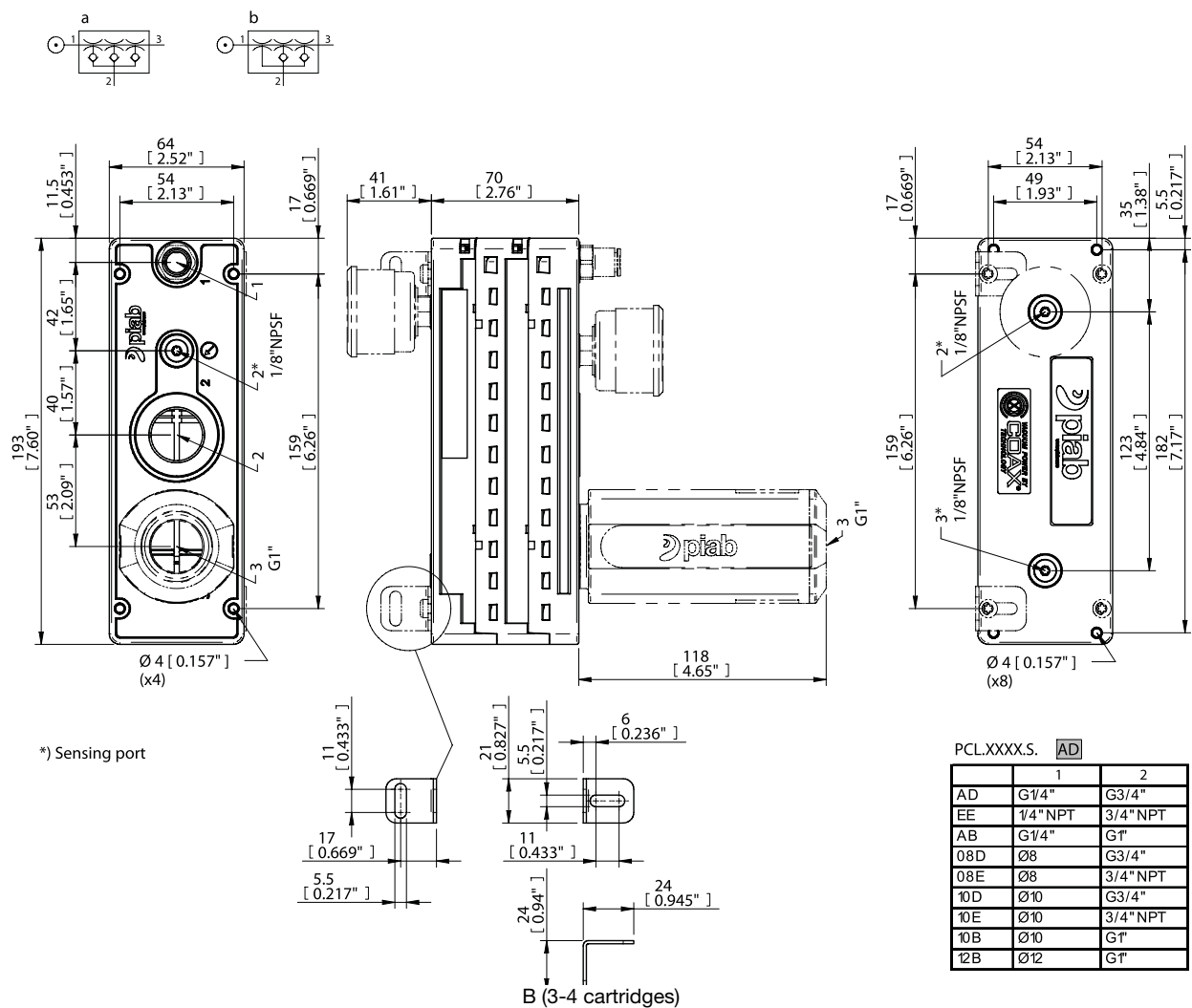
Ordering information

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
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 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

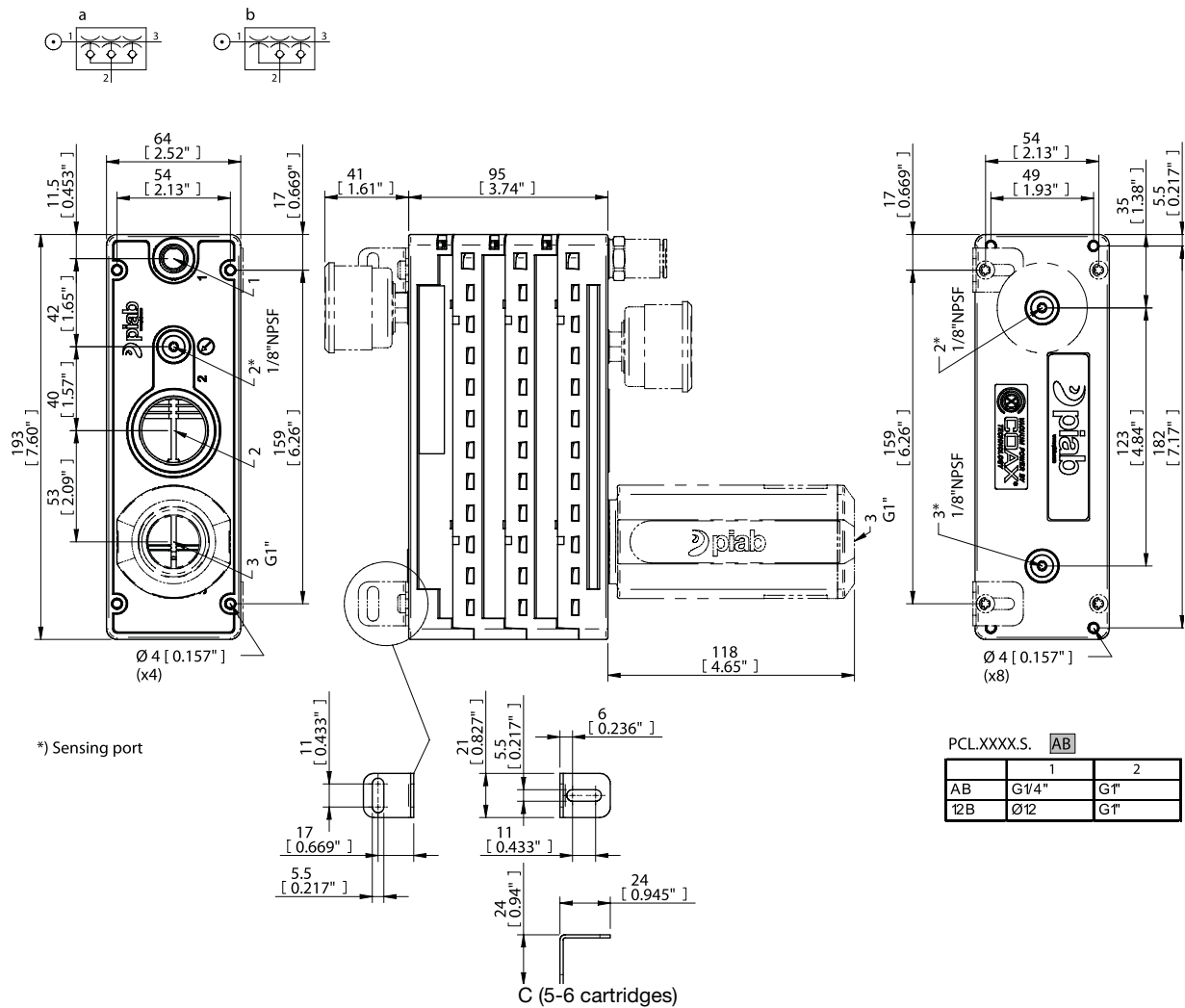
Dimensional drawing for piCLASSIC Pi48-3



Dimensional drawing for piCLASSIC Pi48-3



Dimensional drawing for piCLASSIC Pi48-3



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 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	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)

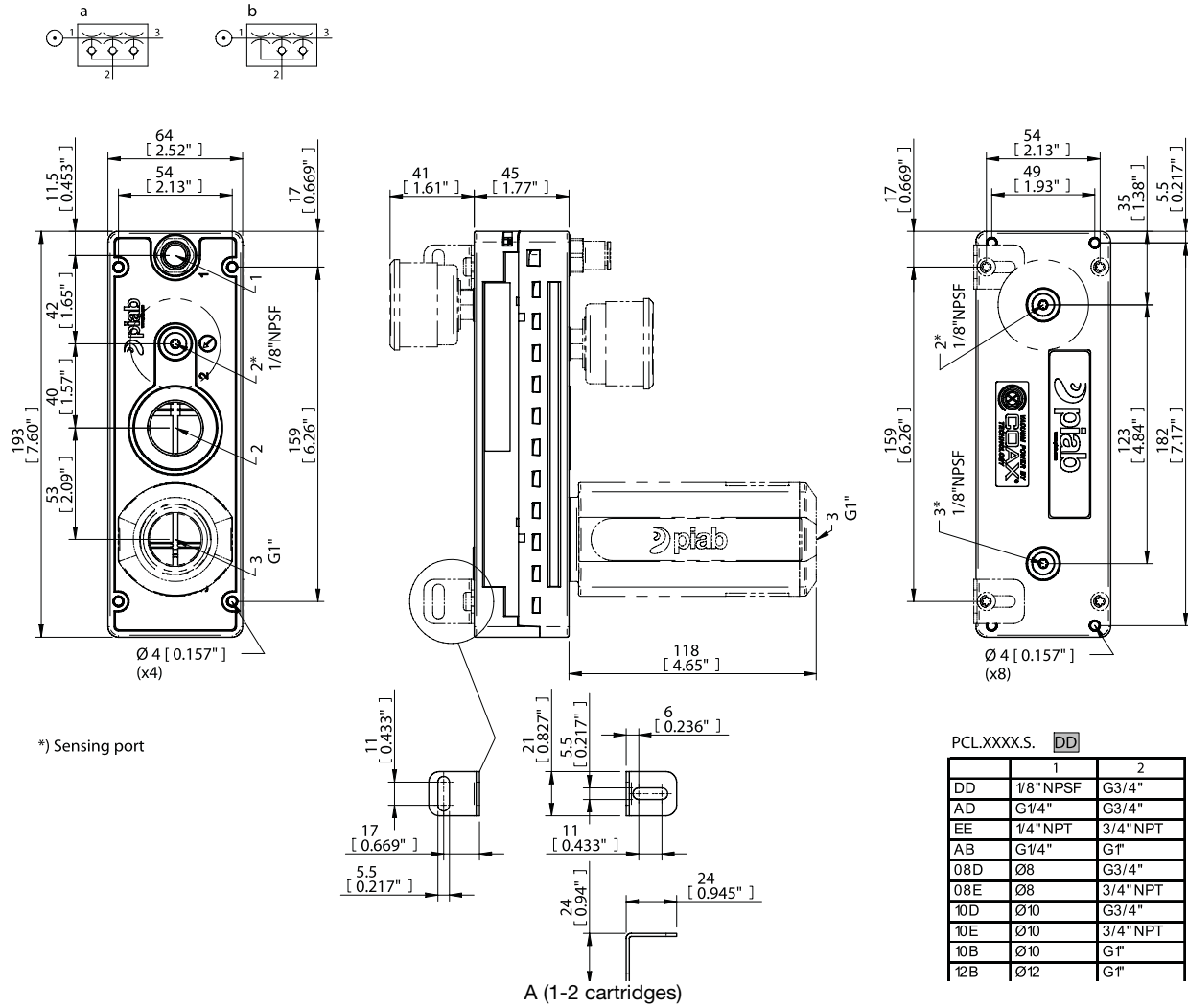
COAX® cartridge	Air consumption NI/s	Vacuum flow (NI/s) at different vacuum levels (-kPa)							
		0	10	20	30	40	50	60	70
Si32-3 x1	1.75	6.00	3.50	2.60	1.70	0.90	0.60	0.50	0.35
Si32-3 x2	3.50	12.0	7.00	5.20	3.40	1.80	1.20	1.00	0.70
Si32-3 x3	5.25	18.0	10.5	7.80	5.10	2.70	1.80	1.50	1.10
Si32-3 x4	7.00	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

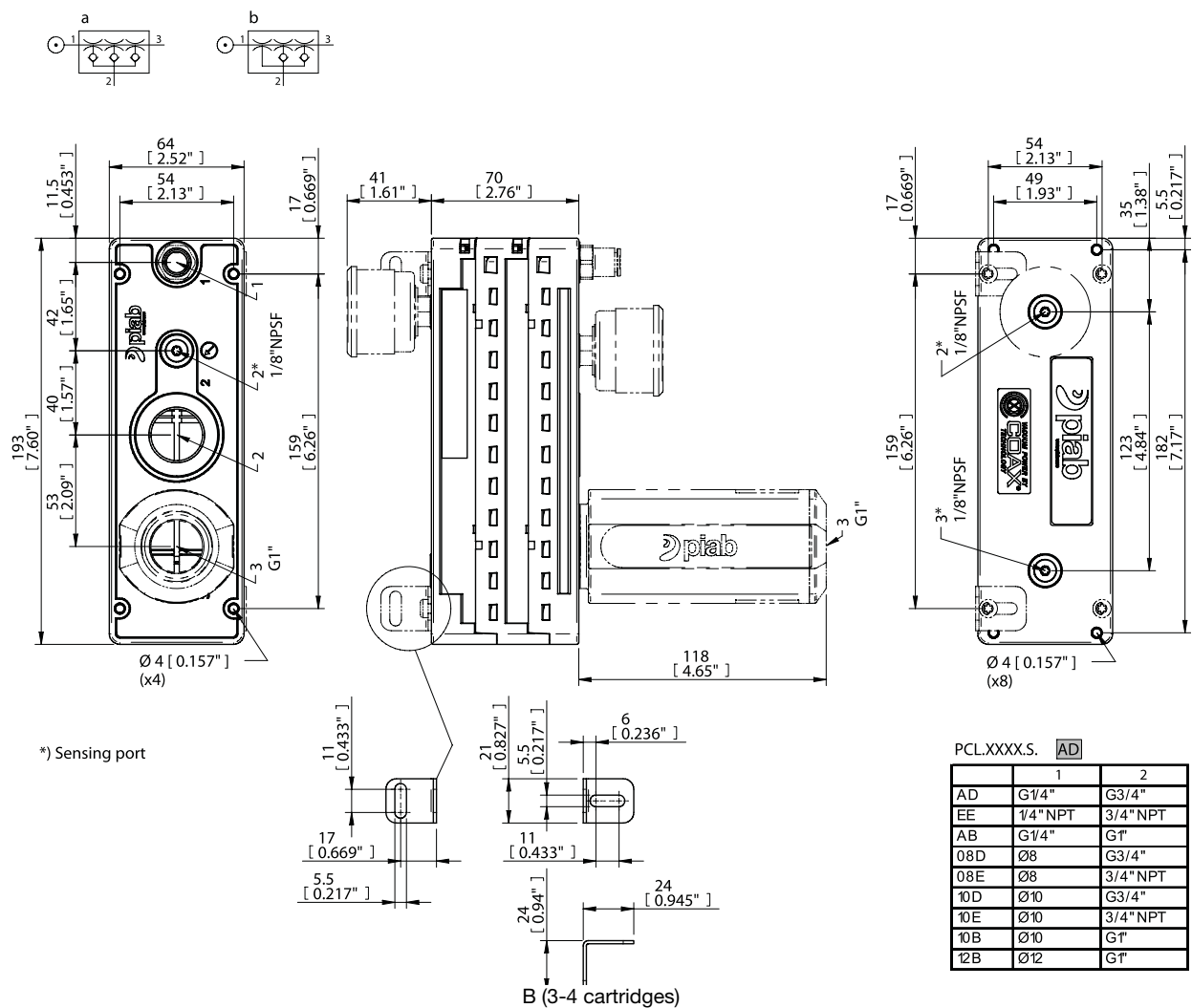
Evacuation time at recommended feed pressure (0.6 MPa)

COAX® cartridge	Air consumption 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







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

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 NI/s	Vacuum flow (NI/s) at different vacuum levels (-kPa)									
		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

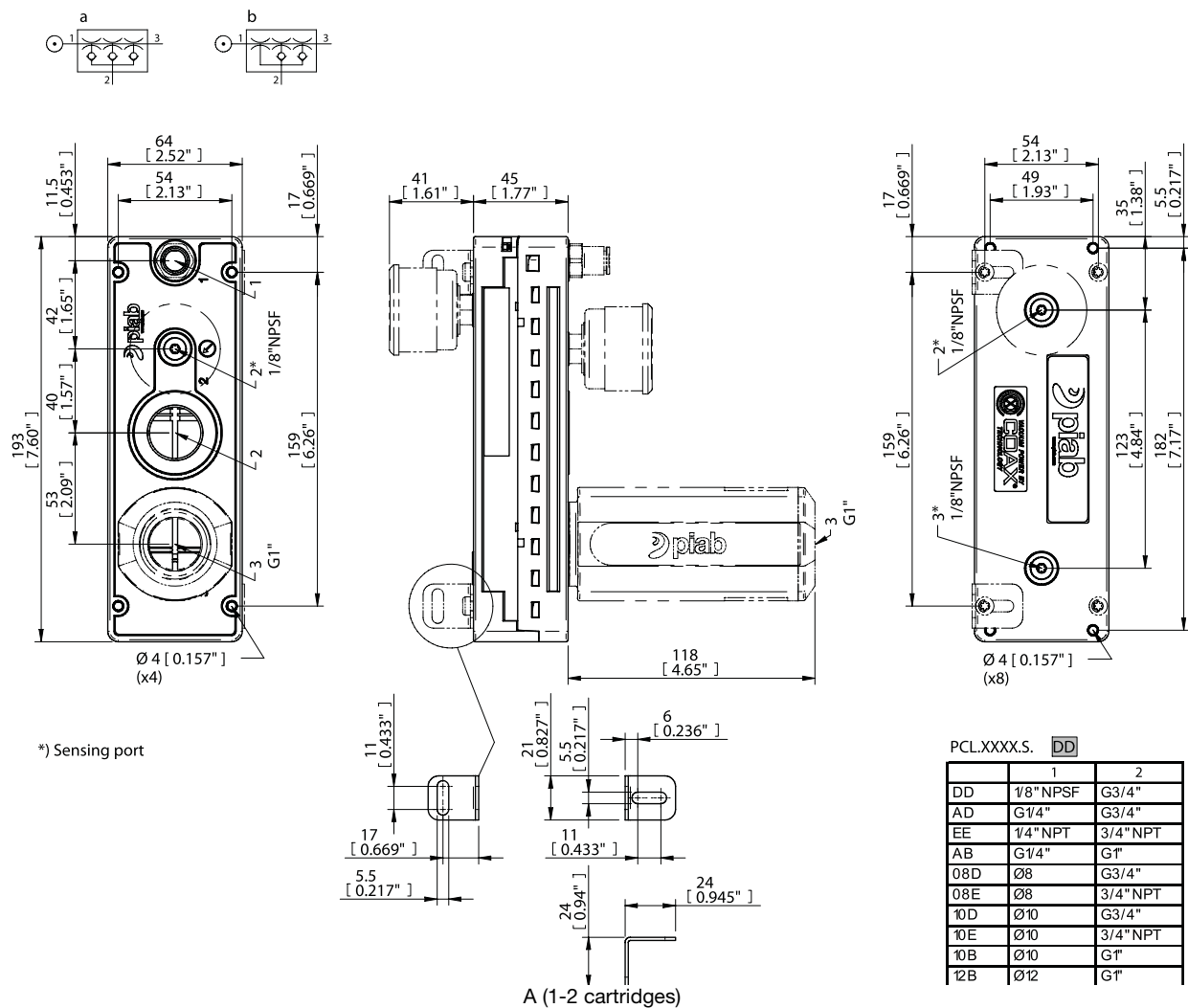
Evacuation time at recommended feed pressure (0.45 MPa)

COAX® cartridge	Air consumption NI/s	Evacuation time (s/l) to reach different vacuum levels (-kPa)								
		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	0.0044	0.012	0.024	0.044	0.07	0.11	0.17	0.24	0.44
Xi40-3 x6	11.0	0.004	0.010	0.020	0.040	0.06	0.10	0.14	0.20	0.37

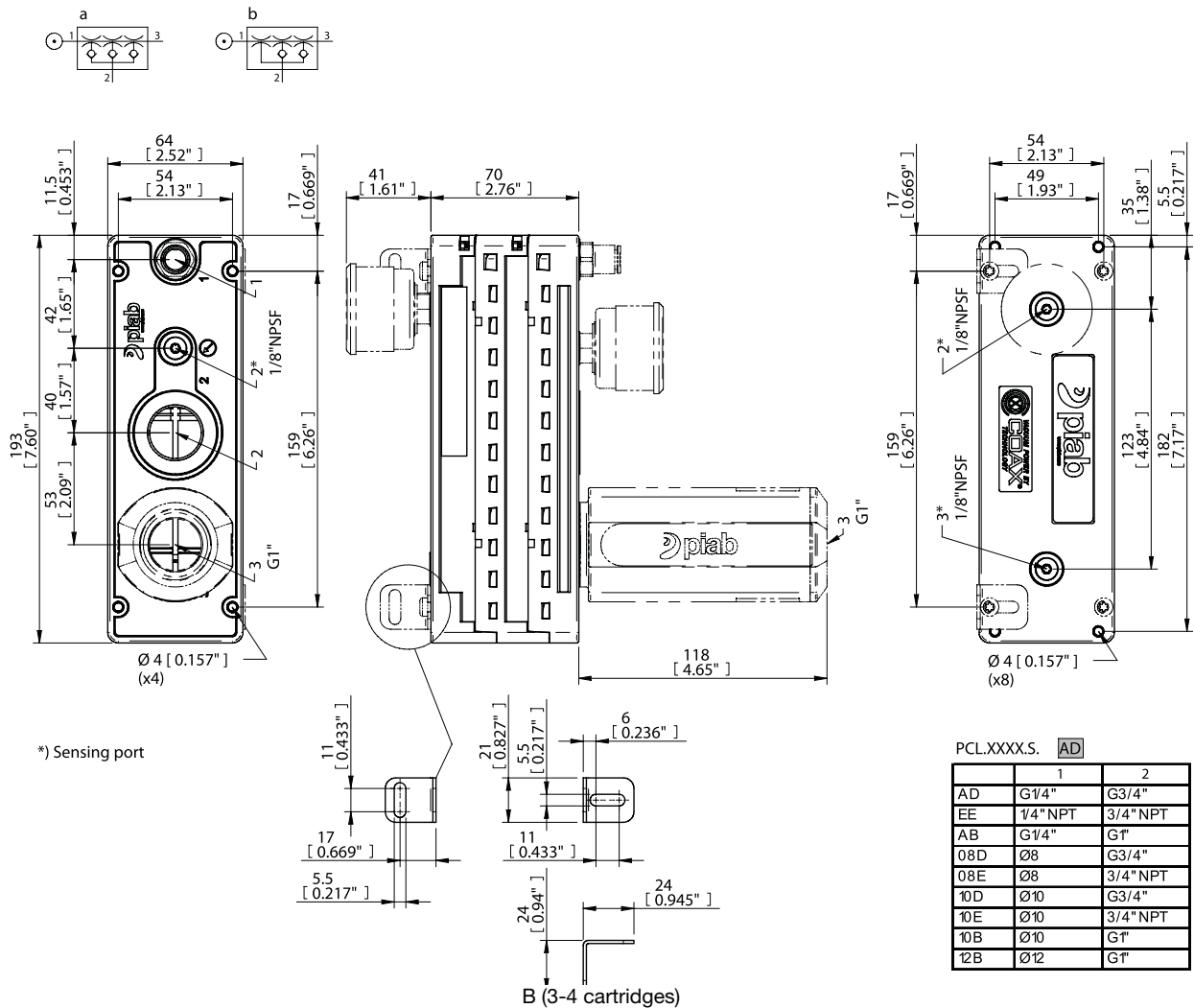
Ordering information

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
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 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

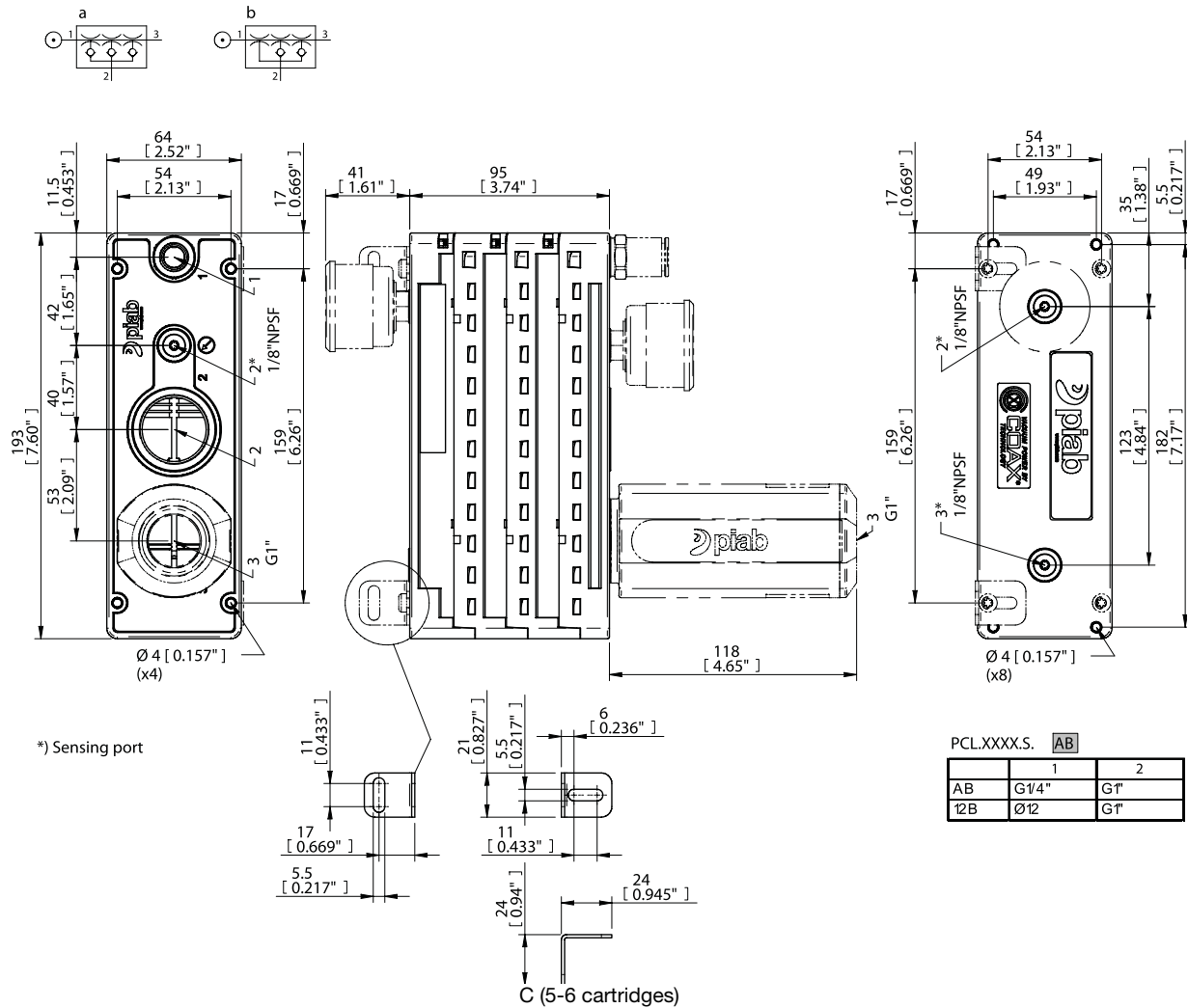
Dimensional drawing for piCLASSIC Xi40-3



Dimensional drawing for piCLASSIC Xi40-3



Dimensional drawing for piCLASSIC Xi40-3



Crossover Classic to piCLASSIC

Classic Art. No.	Classic Code No.	piCLASSIC Art. No.	piCLASSIC Code No.
0102133	M25B5-ADN	9904039	PCL.X1BN.S.08D.SV
0102184	M25B6-ADN	9904039	PCL.X1BN.S.08D.SV
0102135	M50B5-ADN	9904034	PCL.X2BN.S.08D.SV
0102113	M50B6-ADN	9904034	PCL.X2BN.S.08D.SV
0102137	M100B5-ADN	9904035	PCL.X3BN.S.08D.SV
0102115	M100B6-ADN	9904035	PCL.X3BN.S.08D.SV
0102136	M50B5-ADNA	9904053	PCL.X2AN.S.08D.SV
0102138	M100B5-ADNA	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.X3BN.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

piCLASSIC Xi40-3 Energy Saving



- ▶ Integrated Energy Saving device, results in a large air-consumption reduction.
- ▶ Recommended for sealed or almost sealed applications.
- ▶ Patented COAX® technology inside – the most energy efficient ejector technology.
- ▶ The Xi cartridge offers high flow at deep vacuum levels to 95 -kPa.
- ▶ Available with 1 to 3 COAX® Xi40 three-stage cartridges.
- ▶ 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 cartridges	cm ³	246
Noise level at 40 -kPa & optimal feed pressure	dBA	64-69
Temperature range	°C	-10-60
Materials		PA, Al, SS, NBR (FKM), CuZn, POM
Hysteresis	kPa	12
Kv, Flow @ P1=0.6 MPa and Δp=0.1 Mpa	NI/s	7.8
Life span	cycles	>10,000,000

Technical data, specific

Weight	Value (g)
1-2 cartridges	600-630
3 cartridges	820
Silencer	120
Vacuum gauge	50

Vacuum flow at recommended feed pressure (0.45 MPa)

COAX® cartridge	Air consumption NI/s	Vacuum flow (NI/s) at different vacuum levels (-kPa)									
		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

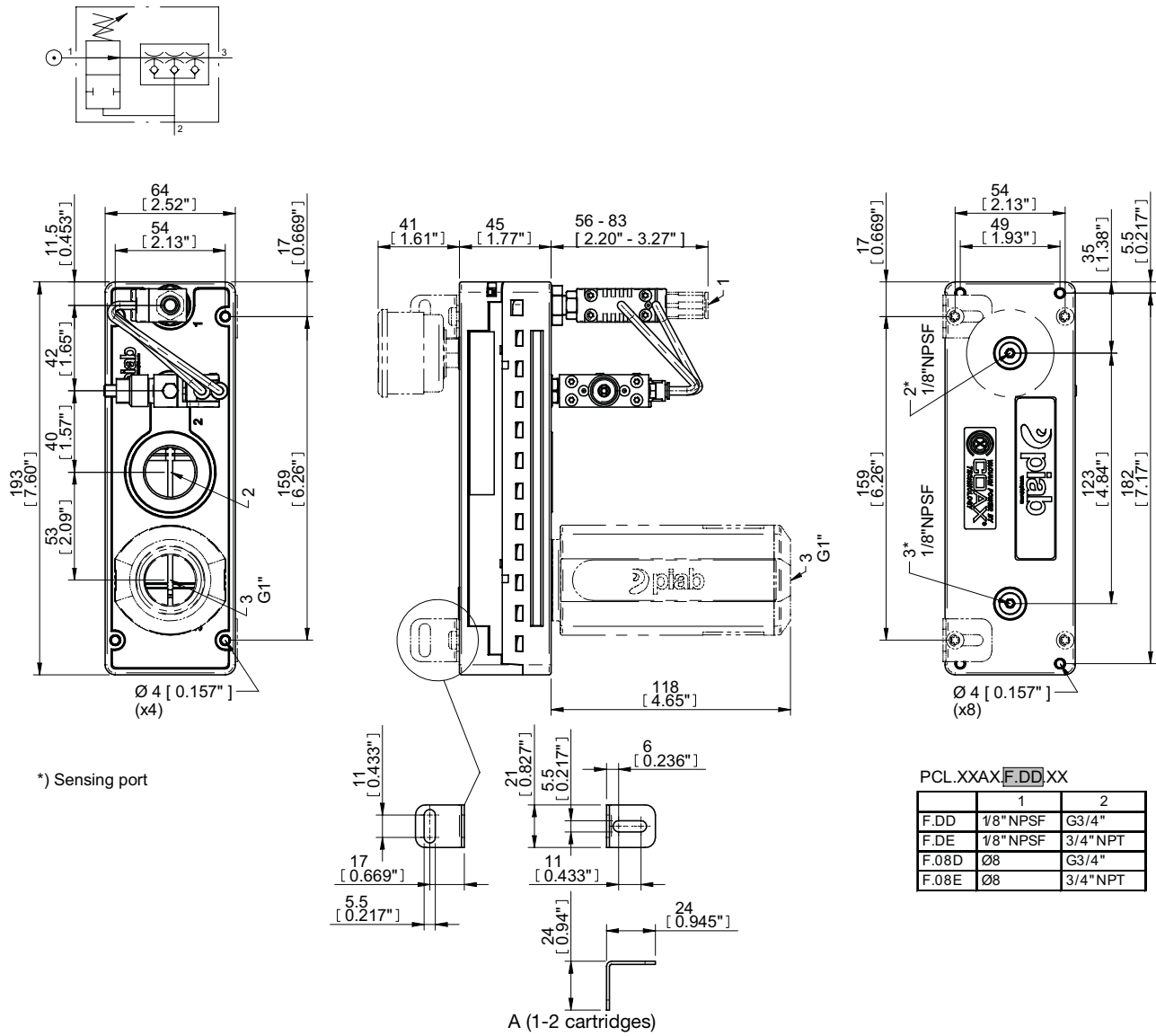
Evacuation time at recommended feed pressure (0.45 MPa)

COAX® cartridge	Air consumption NI/s	Evacuation time (s/l) to reach different vacuum levels (-kPa)								
		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

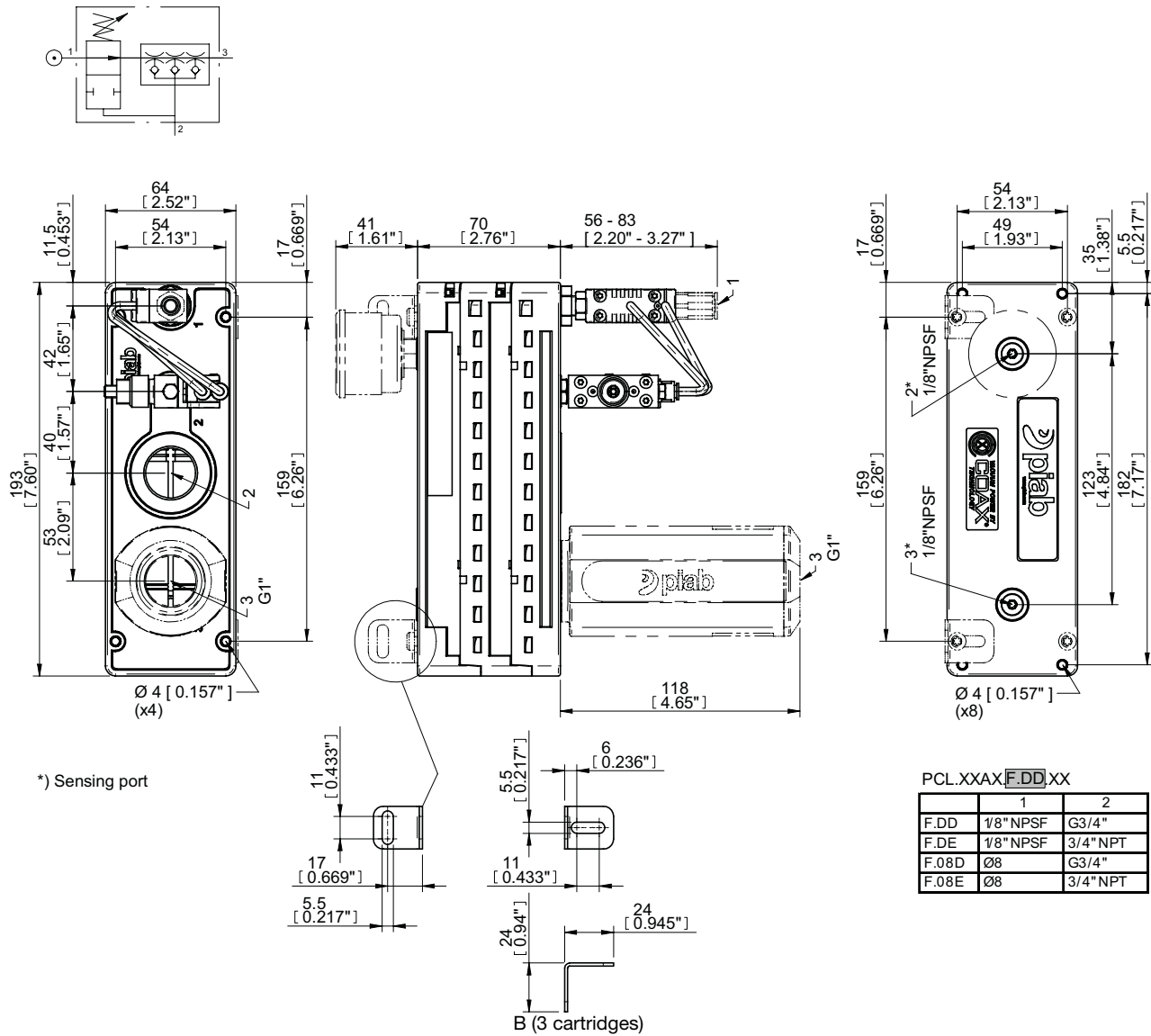
Ordering information

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
2b. Valve Configuration		piCLASSIC Code
b	Non-return valve	A
2c. Sealing material		piCLASSIC Code
Nitrile		N
Viton		V
3. Function		piCLASSIC Code
Energy saving system (ES)		F
4a. Compressed air connection		piCLASSIC Code
1/8" NPSF (G) female		D
*Push-in 8 mm (5/32")-1/4" female		08
<i>*Compressed air push-in connector included separately.</i>		
4b. Vacuum connection		piCLASSIC Code
G3/4" female		D
3/4" NPT female		E
5. Accessory		piCLASSIC Code
None		X
Silencer G1" male		S
Vacuum gauge		V
Silencer G1" male & vacuum gauge		SV
Example		Ordering number
piCLASSIC Xi40-3x1, Non-return Valve, Nitrile Sealing, Energy saving Function, Connections Comp. Air 1/8" NPSF (G) female--Vacuum G3/4" female, Silencer G1" male & vacuum gauge		PCL.X1AN.F.DD.SV

Dimensional drawing for piCLASSIC Xi40-3 ES



Dimensional drawing for piCLASSIC Xi40-3 ES



Crossover Classic to piCLASSIC

Classic Art. No.	Classic Code No.	piCLASSIC Art. No.	piCLASSIC Code No.
0103092	M50B5-ADNAF	9904049	PCL.X2AN.F.08D.SV
0103265	M100B6-ADNAF	9904051	PCL.X3AN.F.08D.SV