

piCOMPACT10



- ▶ Ejector with COAX® patented technology.
- ▶ Reduced air-consumption with 30-50% compared to other ejector technologies.
- ▶ Easy to optimize vacuum performance with a varied selection of micro multi-stage ejectors.
- ▶ Unique low feed pressure version available, full performance from 0.18 MPa.
- ▶ Very low weight, 70g, and small footprint. The width is 10mm.
- ▶ Integrated supply and release valves, vacuum sensor/switch optional.
- ▶ Suitable for small objects in high-speed handling, such as surface mount machines in the electronic and semi-conductor industry.

Technical data

Description	Unit	Value
Feed pressure, max.	MPa	0.7
Temperature range	°C	0-55
Weight (single piCOMPACT10 unit)	g	70
Weight (single piCOMPACT10 unit w/ vacuum sensor 1A Analog)	g	102
Weight (single piCOMPACT10 unit w/ vacuum sensor 1D, 2D Digital/Analog)	g	127
Material		PA, AI, NBR, SS

Technical data, noise level

COAX® cartridge	Feed pressure MPa	Noise level dBA
Bi	0.18	60-65
Si	0.6	63-68
Xi	0.5	63-66
Ti*	0.4	69-71
Ti*	0.6	69-75

*Ti cartridge is suited for sealed applications at 0.4 MPa and for leaking applications at 0.6 MPa.

Technical data, valves

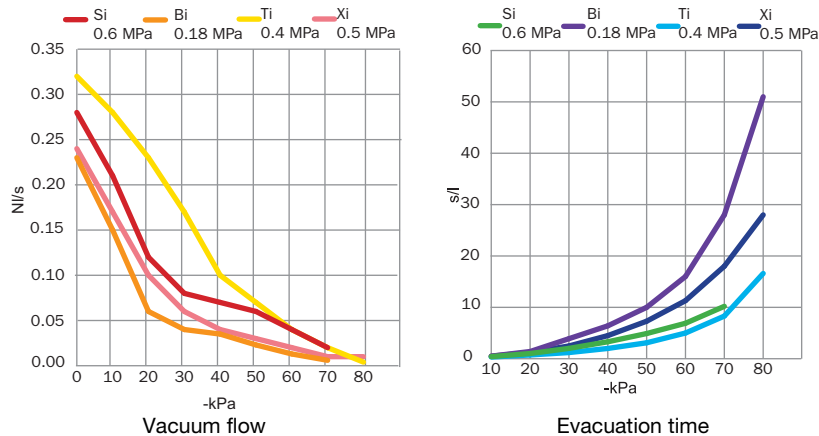
Description	Unit	Value
		Vacuum on/off valve, V1, Blow-off/Release valve, V2
Supply voltage	VDC	24 (21.6-26.4)
Feed pressure	MPa	0.1-0.7
Power consumption	W	1
Manual override		Yes, non-locking push style
Status indicator		LED
Function		NC
Wiring		Two lead wires (300 mm), open end

Vacuum flow

COAX® cartridge	Feed pressure MPa	Air consumption NI/s	Vacuum flow (NI/s) at different vacuum levels (-kPa)									Max vacuum -kPa
			0	10	20	30	40	50	60	70	80	
Bi	0.18	0.14	0.23	0.15	0.060	0.040	0.035	0.023	0.013	0.006	—	83
Si	0.6	0.12	0.28	0.21	0.12	0.08	0.07	0.06	0.04	0.02	—	75
Xi	0.5	0.13	0.24	0.17	0.10	0.06	0.04	0.03	0.02	0.01	0.01	92
Ti	0.4	0.27	0.32	0.28	0.23	0.17	0.10	0.07	0.04	0.02	0.004	84
Ti	0.6	0.37	0.31	0.27	0.24	0.20	0.15	0.09	0.04	0.01	—	75

Evacuation time

COAX® cartridge	Feed pressure MPa	Air consumption NI/s	Evacuation time (s/l) to reach different vacuum levels (-kPa)								Max vacuum -kPa
			10	20	30	40	50	60	70	80	
Bi	0.18	0.14	0.50	1.40	3.90	6.40	10.0	16.0	28.0	51.0	83
Si	0.6	0.12	0.41	1.01	2.01	3.30	4.90	6.90	10.2	—	75
Xi	0.5	0.13	0.49	1.23	2.48	4.50	7.30	11.3	18.0	28.0	92
Ti	0.4	0.27	0.33	0.73	1.20	2.00	3.10	5.00	8.30	16.6	84
Ti	0.6	0.37	0.30	0.70	1.20	1.80	2.60	4.20	8.43	—	75



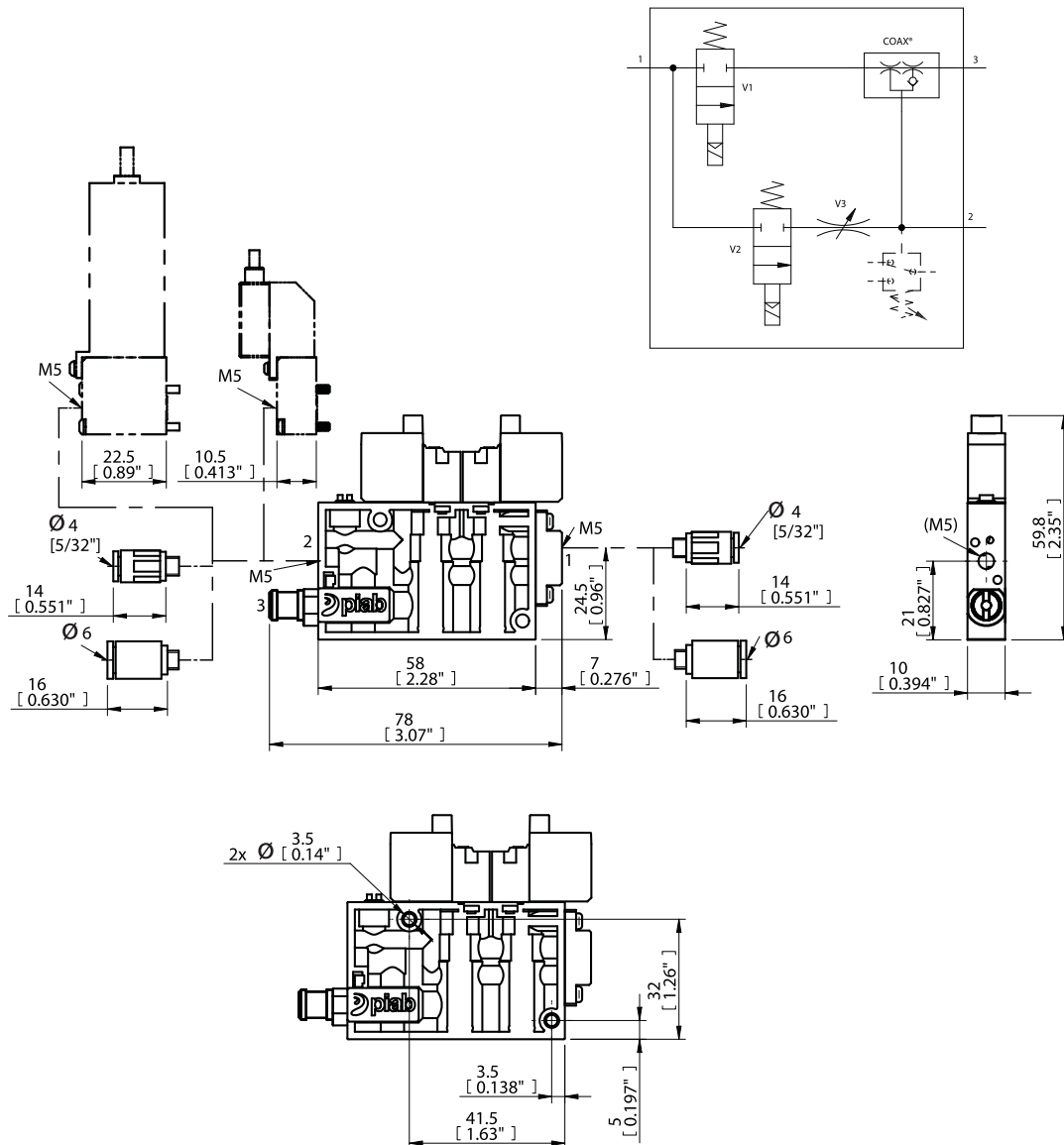
Ordering information

1. COAX® cartridge module	PC10 Code
COAX® cartridge Bi03-2, low feed pressure	B
COAX® cartridge Si02-2, high vacuum flow	S
COAX® cartridge Xi2.5-2, extra vacuum	X
COAX® cartridge Ti05-2, dirt tolerant design	T
COAX® cartridge Bi03-2, ozone resistant	BO
2. Supply and release valve	PC10 Code
Solenoid valve NC	01
3. Vacuum sensing	PC10 Code
No vacuum sensing	AA
No display, analog output	1A
Display, analog & digital output PNP	1D
Display, analog & digital output NPN	2D
4. Vacuum connection	PC10 Code
M5 female threaded connection	M5
4mm (5/32") push-in connector	D4
6mm push-in connector	D6
5. Accessories (under development)	PC10 Code
No accessory	AA
6. Number of units	PC10 Code
Single unit	1
2 units	2
3 units	3
4 units	4
5 units	5
6 units	6
7. Manifold mount	PC10 Code
No manifold, stand-alone unit	01
Manifold mount, 2 units	02
Manifold mount, 3 units	03
Manifold mount, 4 units	04
Manifold mount, 5 units	05
Manifold mount, 6 units	06

All units must be of same configuration.

8. Compressed air connection	PC10 Code
M5 female threaded connection	M5
4mm (5/32") push-in connector	D4
6mm push-in connector	D6
6mm angle push-in connector	D6A
8mm (5/16") push-in connector	D8
8mm (5/16") angle push-in connector	D8A
BSPT/Rc1/8" female threaded connection	T18

Example	Ordering number
COAX® Bi03-2, NC supply & release valve, no vacuum sensing, M5 female threaded vacuum connection, no accessory, single unit, no manifold, M5 female threaded compressed air connection	PC10.B.01.AA.M5.AA.1.01.M5



Ordering information, Accessories

Description	Art. No.
Cable 2-pin female, L=2m	0110157

If longer length cables are needed for valves, please note that (2) cables are needed for each piCOMPACT10, one for each valve.