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, Al, 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

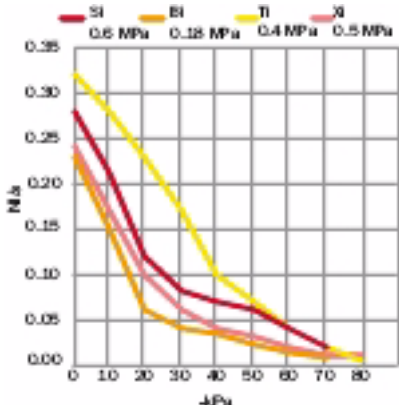
Description	Unit	Value Vacuum on/off valve, V1, Blow-off/Release valve, V2
Supply voltage	VDC	24 (21.6-26.4)
Feed pressure	MPa	0.1-0.7
Power consumption	W	1
Manual override		Yes, non-locking push style
Status indicator		LED
Function		NC
Wiring		Two lead wires (300 mm), open end

Vacuum flow

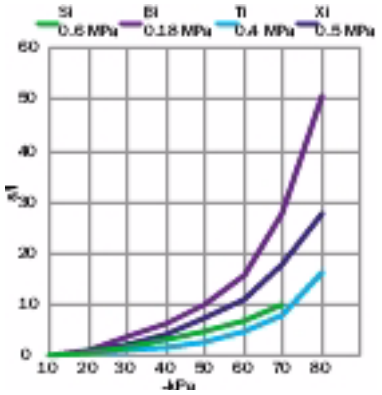
COAX® Cartridge	Feed pressure	Air consumption	Vacuum flow (Nl/s) at different vacuum levels (-kPa)									Max vacuum
	MPa	Nl/s	0	10	20	30	40	50	60	70	80	-kPa
Bi	0.18	0.14	0.23	0.15	0.060	0.040	0.035	0.023	0.013	0.006	—	83
Si	0.6	0.12	0.28	0.21	0.12	0.08	0.07	0.06	0.04	0.02	—	75
Xi	0.5	0.13	0.24	0.17	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	Air consumption	Evacuation time (s/l) to reach different vacuum levels (-kPa)								Max vacuum
	MPa	Nl/s	10	20	30	40	50	60	70	80	-kPa
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



Vacuum flow



Evacuation time

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

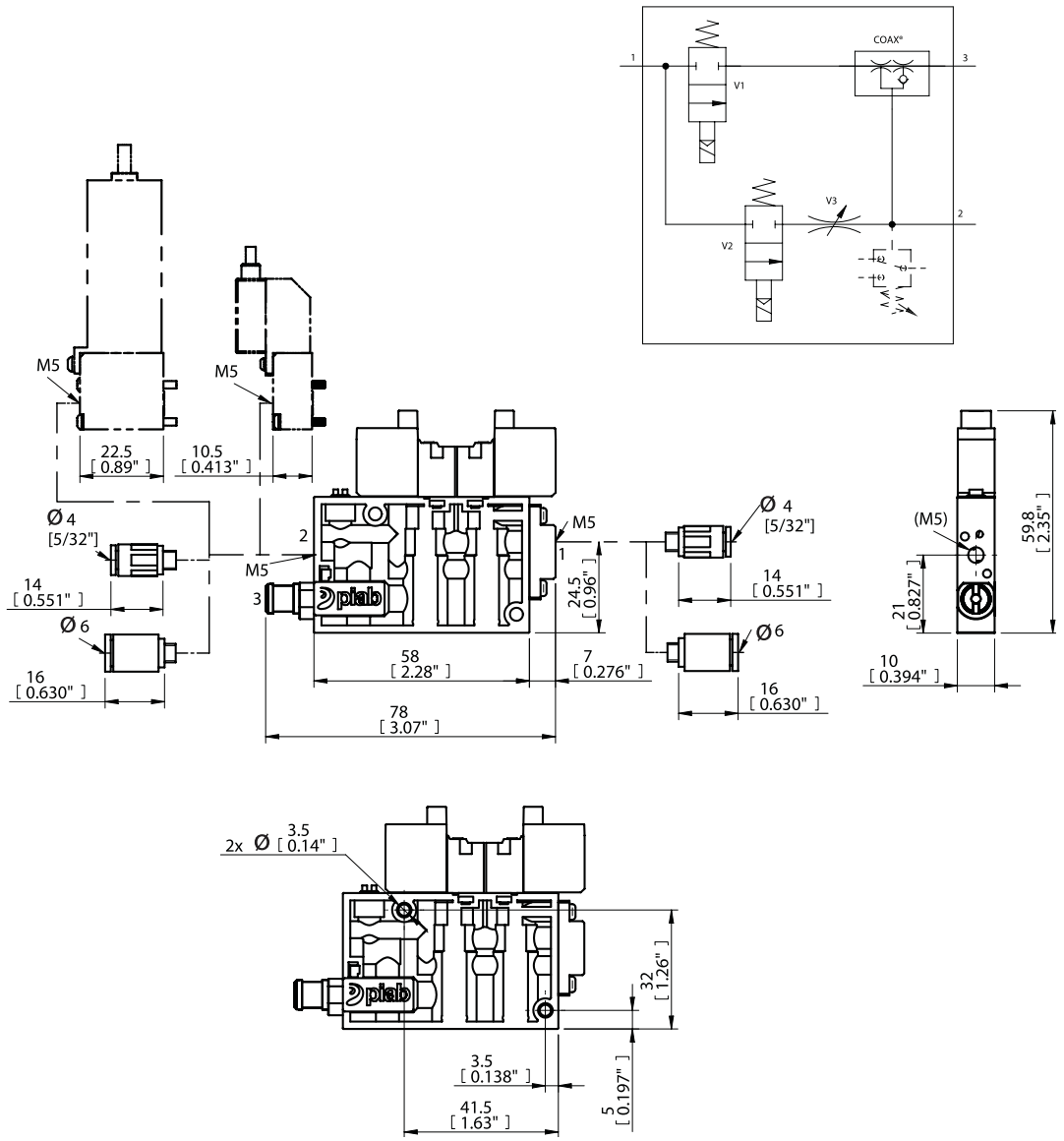
6. Number of units	PC10 Code
Single unit	1
2 units	2
3 units	3
4 units	4
5 units	5
6 units	6

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.