

P5010 AVM™ 2



P5010 AVM™ 2

- P5010 multistage ejector with Pi, Si or Xi COAX® push-in cartridge(s).
- AVM™2, Automatic Vacuum Management, unit with built-in control and monitoring functions.
- Valves for vacuum on/off, blow-off, blow-off flow control and non-return valve.
- Option with Normally Closed "fail safe" on/off valve (NC). It changes to an open valve if power is lost and vacuum will be generated. A conventional normally closed on/off valve (NC 2) is also available. It stays closed if electrical power is lost or removed.
- Option with automatic blow-off (1 sec) reduces number of outputs needed from PLC or I/O box.
- Enhanced blow-off effect thanks to a directed blow-off pipe.
- Analog vacuum sensor with two digital outputs, 16 pre-set combinations of signal levels to choose from.
- Digital display with "-kPa" or "-inHg" as unit options.
- Integrated energy saving function (ES) that minimizes the valve consumption in sealed systems. The ES function can be activated manually or via a signal (signal override).
- Three-color LED status indicators for valves, signal outputs and ES.

Technical data

Description	Unit	Value
Feed pressure, max.	psi	101.5
Noise level *)	dBA	68-71.5
Temperature range	°F	32-122
Weight	lb	0.95-1.59
Signal range, adjustable	-inHg	5.9-23.6
Hysteresis	-inHg	2.07±0.30
Material		AL,CuZn, NBR, PA, SS, PE, PMMA
Voltage	VDC	24 (22-28)
Ripple, max.	V _p	1V _{rms}
Current consumption, nominal	mA	110
Safety classification		IP65 [NEMA 4]
Current, max. output load		100
Display		LED indicators, numeric
Flow. blow-off	scfm	0-15.9

*) At vacuum level 12 -inHg and at recommended feed pressure for respective push-in cartridge.

Vacuum flow

COAX® cartridge	Feed pressure*	Air consumption	Vacuum flow (scfm) at different vacuum levels (-inHg)										Max vacuum
			0	3	6	9	12	15	18	21	24	27	
Pi48-2	44	4.24	5.93	5.30	3.81	2.33	1.38	1.06	0.74	0.53	0.21	—	27.0
Pi48-3	45	4.34	11.9	5.30	3.81	2.33	1.38	1.06	0.74	0.53	0.21	—	27.0
Si32-2	87	3.71	6.99	6.36	5.51	3.60	1.91	1.27	1.06	0.74	—	—	22.2

Si32-3	87	3.71	12.7	7.42	5.51	3.60	1.91	1.27	1.06	0.74	—	—	22.2
Xi40-2	65	3.88	5.93	4.87	3.39	2.12	1.55	1.23	0.91	0.68	0.38	0.06	28.1
Xi40-3	65	3.88	12.5	6.36	4.24	2.75	1.55	1.23	0.91	0.68	0.38	0.06	28.1

For vacuum flows at other feed pressures, see COAX® cartridge data sheets. *Feed pressure tolerance, +/- 1.45 psi

Evacuation time													
COAX® cartridge	Feed pressure* psi	Air consumption scfm	Evacuation time (s/cf) to reach different vacuum levels (-inHg)										Max vacuum -inHg
			3	6	9	12	15	18	21	24	27		
Pi48-2	44	4.24	0.85	1.98	3.68	7.37	13.0	19.8	28.3	45.3	113	27.0	
Pi48-3	44	4.24	0.57	1.70	3.40	7.08	12.7	19.8	28.3	45.3	113	27.0	
Si32-2	87	3.71	0.85	1.98	2.83	5.10	9.35	15.0	22.7	—	—	22.2	
Si32-3	87	3.71	0.57	1.42	2.83	5.10	9.35	15.0	22.7	—	—	22.2	
Xi40-2	65	3.88	1.13	2.55	4.82	7.93	12.5	17.8	25.5	36.8	65.2	28.1	
Xi40-3	65	3.88	0.62	1.76	3.40	6.23	10.5	16.1	23.8	34.0	62.3	28.1	

For evacuation times at other feed pressures, see COAX® cartridge data sheets. *Feed pressure tolerance, +/- 1.45 psi

Blow flow															
COAX® cartridge	Feed pressure psi	Air consumption scfm	Blow flow (scfm) at different pressure levels (psi)												Max pressure psi
			0	3	6	9	10	12	13	15	16	17	19	20	
Pi48-2	87	7.42	13.0	13.0	12.6	10.7	9.51	9.51	9.51	9.51	9.51	9.03	8.48	7.69	20
Pi48-3	87	7.52	20.1	13.8	12.7	11.2	9.96	9.75	9.75	9.75	9.54	9.11	8.48	7.84	20
Si32-2	87	3.71	10.7	9.01	6.99	5.62	4.98	4.17	—	—	—	—	—	—	12
Si32-3	87	3.71	16.5	9.75	6.99	5.72	4.87	3.81	—	—	—	—	—	—	12
Xi40-2	87	4.94	10.8	9.75	7.20	6.99	6.57	5.93	5.09	—	—	—	—	—	13
Xi40-3	87	4.94	17.9	10.8	8.31	7.18	6.84	6.25	5.47	—	—	—	—	—	13

For performance graphs, see COAX® cartridge data sheets.

Ordering information

1. Select Housing

Housing, connection Ø 10 mm

Housing, connection Ø 3/8"

P5010 code

00

01

2. COAX® push-in modules

d COAX® push-in module Pi48-2X1, non-return valve

c COAX® push-in module Pi48-3X1, non-return valve

d COAX® push-in module Pi48-2X2, non-return valve

c COAX® push-in module Pi48-3X2, non-return valve

d COAX® push-in module Si32-2X1, non-return valve

c COAX® push-in module Si32-3X1, non-return valve

d COAX® push-in module Si32-2X2, non-return valve

c COAX® push-in module Si32-3X2, non-return valve

d COAX® push-in module Xi40-2X1, non-return valve

c COAX® push-in module Xi40-3X1, non-return valve

d COAX® push-in module Xi40-2X2, non-return valve

c COAX® push-in module Xi40-3X2, non-return valve

P5010 Code

AK

AL

AO

AP

AC

AD

AG

AH

AS

AT

AW

AX

3. Functions

Function AVM™2 NO, G connection

Function AVM™2 NC (power off - NO), G connection

Function AVM™2 NO, NPSF connection

Function AVM™2 NC (power off - NO), NPSF connection

Function AVM™2 NO, automatic blow-off (1 sec), G connection

Function AVM™2 NC, automatic blow-off (1 sec), G connection

Function AVM™2 NC 2 (power off - NC), G connection

Function AVM™2 NO, automatic blow-off (1 sec), NPSF connection

Function AVM™2 NC, automatic blow-off (1 sec), NPSF connection

Function AVM™2 NC 2 (power off - NC), NPSF connection

P5010 Code

05

06

07

08

13

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15

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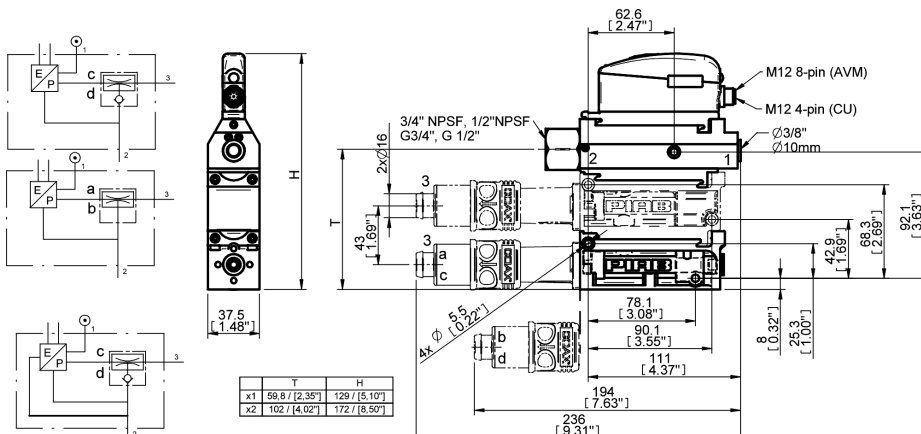
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Example

Housing, connection Ø 10 mm Pi48-2X1, Function AVM™2, NO, G-threads

Ordering number

P5010 00 AK 05



Ordering information, accessories

Description	Part No.
Cable M12 8-pin female, PUR, L=2m	01.10.238
Cable M12 8-pin female, PUR, L=5m	01.17.746
Y-cable M12 8-pin female, 2xM12 4-pin male, PNP, PUR, L=2m	01.18.407
Y-cable M12 8-pin female, 2xM12 5-pin male, NPN, PUR, L=2m	01.20.229