

P5010 AVM™2

Item number: 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 air 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
Material	-	Al. CuZn. Nitrile (NBR). PA. PE. PMMA. SS
Temperature, max.	°F	122
Temperature, min.	°F	32
Weight, max.	oz	45
Weight, min.	oz	15.17
Display	-	LED indicators. numeric
Feed pressure, max.	psi	102
Safety classification	-	IP65 [NEMA 4]
Current, output	mA	40
Noise level, max.	dBA	71
Noise level, min.	dBA	68
Current, consumption	mA	110
Vacuum flow, range, max.	scfm	15.89
Vacuum flow, range, min. (Blow-off.)	scfm	0
Hysteresis	inHg	7±1
Signal range, max.	-inHg	23.62
Signal range, min.	-inHg	5.91
Ripple, max.	V _{rms}	1
Supply voltage, max.	VDC	28
Supply voltage, min.	VDC	22
Supply voltage, nominal	VDC	24

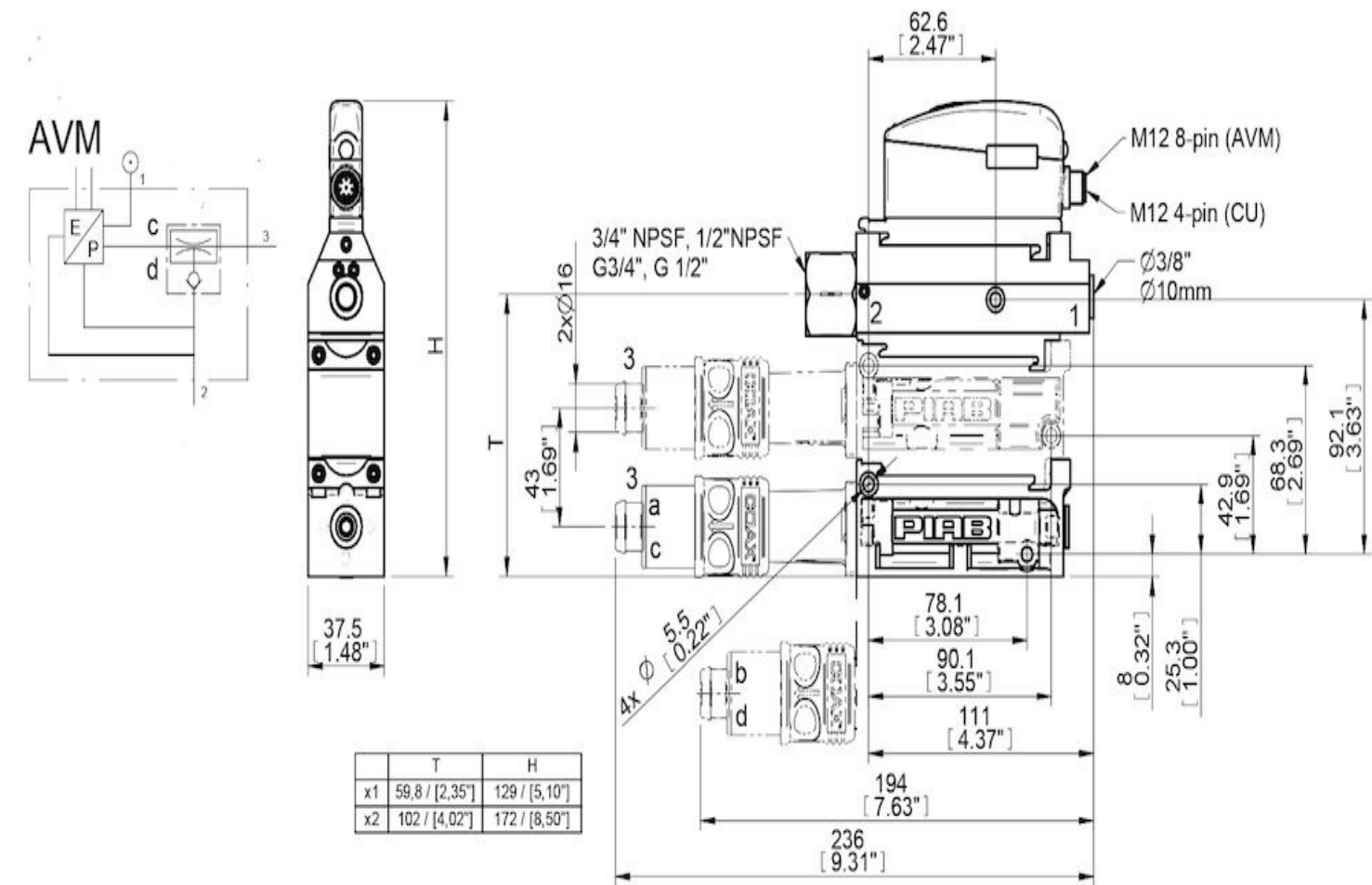
Performance

Ejector specification	Feed pressure psi	Air consumption scfm	Vacuum flow (scfm) at different vacuum levels (-inHg)											Max vacuum -inHg
			0	2	5	8	11	14	17	20	26	29		
Pi48-2	43.51	4.24	5.93	5.3	3.81	2.33	1.38	1.059	0.74	0.53	0.21		≥26.58	
Pi48-3	44.96	4.34	11.87	5.3	3.81	2.33	1.38	1.059	0.74	0.53	0.21		≥26.58	
Xi40-2	65.27	3.88	5.93	4.87	3.39	2.12	1.55	1.23	0.91	0.68	0.38	0.064	≥28.054	
Xi40-3	65.27	3.88	12.5	6.36	4.24	2.75	1.55	1.23	0.91	0.68	0.38	0.064	≥28.054	
Si32-2	87.023	3.71	6.99	6.36	5.51	3.6	1.91	1.27	1.059	0.74			≥22.15	
Si32-3	87.023	3.71	12.71	7.42	5.51	3.6	1.91	1.27	1.059	0.74			≥22.15	

Ejector specification	Feed pressure psi	Air consumption scfm	Evacuation time (s/cf) to reach different vacuum levels (-inHg)									Max vacuum -inHg
			2	5	8	11	14	17	20	23	26	
Pi48-2	43.51	4.24	1.076	2.38	4.33	7.56	12.49	19.17	28.6	44.77		≥26.58
Pi48-3	44.96	4.34	0.57	1.7	3.4	7.079	12.74	19.82	28.32	45.31	113.27	≥26.58
Xi40-2	65.27	3.88	1.13	2.55	4.81	7.93	12.46	17.84	25.49	36.81	65.13	≥28.054
Xi40-3	65.27	3.88	0.62	1.76	3.4	6.23	10.48	16.14	23.79	33.98	62.3	≥28.054
Si32-2	87.023	3.71	0.85	1.98	2.83	5.097	9.34	15.0079	22.65			≥22.15
Si32-3	87.023	3.71	0.57	1.42	2.83	5.097	9.34	15.0079	22.65			≥22.15

Ejector specification	Feed pressure psi	Air consumption scfm	Blow flow (scfm) at different pressure levels (-inHg)															Max pressure -inHg
			0	2	5	8	11	14	17	20	23	26	29	32	35	38	41	
Pi48-2 (Blow-off)	87.023	7.42	13.031	13.031	13.031	12.82	12.61	11.63	10.66	9.51	9.51	9.51	9.51	9.51	9.027	8.48	7.69	≥
Si32-2	87.023	3.71	10.7	9.85	9.0053	8.0094	6.99	6.31	5.62	4.98	3.81							≥22.15
Si32-3	87.023	3.71	16.53	13.14	9.75	8.48	6.99	6.36	5.72	4.87	3.81							≥22.15
Pi48-3	87.023	7.52	20.13	16.95	13.77	13.35	12.71	12.078	11.23	9.96	9.75	9.75	9.54	9.54	9.11	8.48	7.84	≥
Xi40-2	87.023	4.94	10.81	10.38	9.75	8.48	7.2	7.098	6.99	6.57	5.93	5.085						≥
Xi40-3	87.023	4.94	17.8	14.41	10.81	9.54	8.31	7.73	7.18	6.84	6.25	5.47						≥

Dimensional drawings



Values specified in this datasheet are tested at (unless otherwise stated):

- Room temperature (20°C [68°F] ± 3°C [5.5°F]).
- Standard atmosphere (101.3 [29.9 inHg] ± 1.0 kPa [0.3 inHg]).
- Compressed air quality, DIN ISO 8573-1 class 4.

Tolerance and accuracy:

- Feed pressure tolerance ±0.02 MPa [2.9 psi]
- Vacuum flow/evacuation time accuracy ±10%.