



P5010 ES

- P5010 multistage ejector with Pi, Si or Xi COAX® push-in cartridge.
- Integrated air-saving function (ES) that minimises the air consumption by controlling the incoming air flow to the pump.
- Operates on a roughly similar system to that of a thermostat in a heating system.
- Large hysteresis is recommended for sealed vacuum handling applications such as metal sheet, glass or plastic handling.
- Small hysteresis is recommended if a very accurate vacuum level has to be maintained in the process.
- Adjustable ES switch level.
- Pneumatic function.
- Configurable and modular design.
- Separate port with built-in blow-off check valve. High flow capacity to maximize efficiency to release an object.

Technical data

Description	Unit	Value
Feed pressure, max.	psi	101.5
Feed pressure, minimum to break away for blow-off	psi	58*
Noise level	dBA	68-71
Material		NBR, PA, Al, SS, POM, CuZn
Temperature range	°F	32-140
Weight	lb	1.41-1.96
Signal range	-kPa	4.5-29.2
Function		2/2 NO
Flow, blow-off at 87 psi	scfm	15.9

*For Pi cartridge(s) - do not use common feed pressure for pump and blow-off.

Technical data, specific

Description	Unit	Value	
		ES small hysteresis	ES large hysteresis
Hysteresis	-inHg	0.30-1.80	1.50-3.00

Vacuum flow

COAX® cartridge	Feed pressure*	Air consumption	Vacuum flow (scfm) at different vacuum levels (-inHg)										Max vacuum
			psi	scfm	0	3	6	9	12	15	18	21	
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

P5010 code

00

Housing, connection Ø 3/8"

01

2. COAX® push-in modules

P5010 Code

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

AK

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

AL

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

AO

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

AP

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

AC

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

AD

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

AG

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

AH

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

AS

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

AT

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

AW

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

AX

3. Function

P5010 Code

Function P5010 ES 2/2 NO large hysteresis

11

Function P5010 ES 2/2 NO small hysteresis

12

Example

Ordering number

Housing, connection Ø 10 mm Pi48-2X1, non-return valve, Function P5010 ES 2/2 NO small hysteresis

P5010 00 AK 12

