

P3010 Vacuum switch, mini, pre-set, threaded



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- Patented multistage COAX® cartridge - MINI - with Pi, Si, Xi cartridge.
- Electromechanical vacuum switch with digital output.
- Built-in red LED that indicates status.
- Includes a flow-through silencer and a built-in vacuum filter for harsh environments.
- High system reliability in case of fluctuating or low feed pressure.
- Suitable for fast and reliable evacuation in sealed systems.

Technical data

Description	Unit	Value
Feed pressure, max. (pump)	psi	101.5
Noise level	dB(A)	66-68
Pressure, max (switch)	psi	29
Material		PP, PA, Al, , NBR, TPU, SS, CuZn(Au)
Temperature range	°F	14-122
Weight	oz	4.06-12.8
Signal range	-inHg	9.0, 15.0 or 21.0 +1.5/-0.30
Function		PNP NO/NC, NPN NO/NC
Hysteresis	-inHg	1.78 ± 0.30
Voltage	VDC	24 (12-30)
Safety classification		IP40
Current max	mA	100 inductive/400 resistive
Voltage drop, max (100mA/24V inductive load)	VDC	0.055
Response time	ms	4
Display		Red LED
Electric connection		M8 3-pin male

Vacuum flow

COAX® Cartridge	Feed pressure* psi	Air consumption scfm	Vacuum flow (scfm) at different vacuum levels (-inHg)										Max vacuum -kPa
			0	3	6	9	12	15	18	21	24	27	
Pi12-3	45	0.93	2.97	1.27	0.93	0.57	0.40	0.30	0.21	0.13	0.06	—	27.0
Si08-3	87	0.93	2.84	1.55	1.17	0.74	0.49	0.36	0.28	0.17	—	—	22.2
Xi10-3	72.5	0.97	3.03	1.48	1.06	0.70	0.40	0.32	0.23	0.15	0.10	0.02	27.8

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

Evacuation time

COAX® Cartridge	Feed	Air	Evacuation time (s/cf) to reach different vacuum levels (-inHg)	Max
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COAX® Cartridge	pressure* psi	consumption scfm	Evacuation time (S/cf) to reach different vacuum levels (-inHg)										vacuum -inHg
			3	6	9	12	15	18	21	24	27		
Pi12-3	45	0.93	2.27	6.52	13.9	28.3	48.2	73.7	110	178	—	27.0	
Si08-3	87	0.93	2.83	7.08	13.6	22.7	36.8	56.7	82.2	—	—	22.2	
Xi10-3	72.5	0.97	2.55	7.37	14.2	25.5	42.5	62.3	96.3	147	249	27.8	

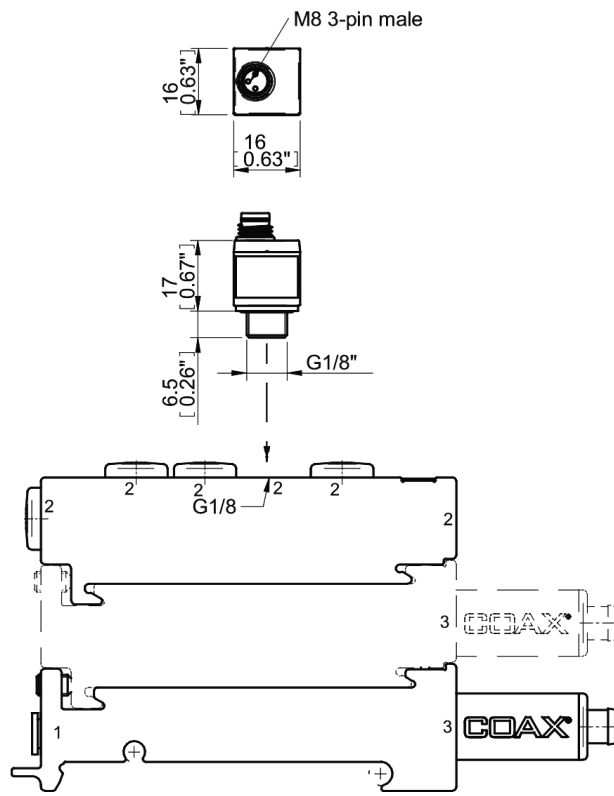
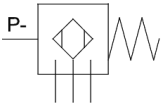
For evacuation times at other feed pressures, see COAX® Cartridge data sheets. *Feed pressure tolerance, +/- 1.45 psi

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		
Pi12-3	87	1.59	3.96	2.97	2.82	2.37	2.18	2.18	2.18	2.18	2.12	2.01	1.82	1.67	20	
Si08-3	87	0.93	3.77	2.46	2.18	1.82	1.70	1.59	1.40	1.12	—	—	—	—	10	
Xi10-3	87	1.14	3.81	2.75	2.33	2.08	1.80	1.78	1.67	1.50	1.29	—	—	—	13	

Ordering information**1. Select housing** **P3010 Code**Housing, connection Ø=6 mm 00Housing, connection 1/8" NPSF 01**2. COAX® cartridge modules** **P3010 Code**COAX® cartridge module Pi12-3FSx1 AECOAX® cartridge module Pi12-3FSx1, non-return valve AFCOAX® cartridge module Pi12-3FSx2 AGCOAX® cartridge module Pi12-3FSx2, non-return valve AHCOAX® cartridge module Si08-3FSx1 AACOAX® cartridge module Si08-3FSx1, non-return valve ABCOAX® cartridge module Si08-3FSx2 ACCOAX® cartridge module Si08-3FSx2, non-return valve ADCOAX® cartridge module Xi10-3FSx1 AICOAX® cartridge module Xi10-3FSx1, non-return valve AJCOAX® cartridge module Xi10-3FSx2 AKCOAX® cartridge module Xi10-3FSx2, non-return valve AL**3. Select connection and function module** **P3010 Code**Connection module high 6x1/8" 01Connection module low 3x1/8" 02**4. Select ES** **P3010 Code**No energy saving AAValve DS23 AB

For detailed information on Valve DS 23, see separate datasheet.

5. Select vacuum sensing **P3010 Code**Vacuum switch VS4016 G1/8" male, 9 -inHg 21Vacuum switch VS4016 G1/8" male, 15 -inHg 22Vacuum switch VS4016 G1/8" male, 21 -inHg 23**Example** **Ordering number**Housing, connection Ø 6 mm Pi12-3FSx1, Connection module high 6x1/8", no energy saving,
Vacuum switch VS4016 9.0 -inHg P3010.00.AE.01.AA.21



Ordering information,
accessories

Description

Part No.

Sealing kit P3010, NBR

01.04.201

The sealing kit includes flap valves, compressed air filter and vacuum filter.