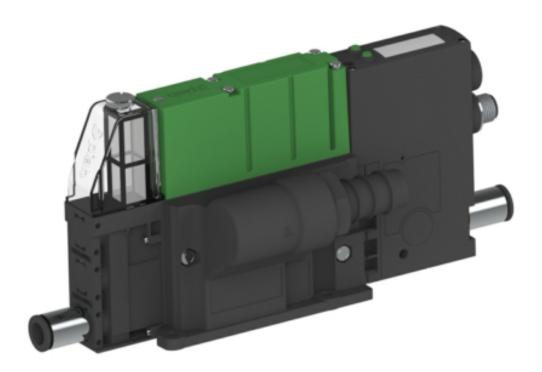


# piCOMPACT® 23 SMART sx12 x1



- ► Configurable vacuum ejector based on COAX® technology with integrated controls.
- ➤ SX12 new Patented COAX® ejector for medium sized vacuum/robot handling systems with combined characteristics for high vacuum flow and deep vacuum level (85 -kPa).
- Doptimized design for high reliability, high vacuum flow and fast cycle times.
- ▶ High Speed valves with adaptive PWM (Pulse Width Modulation) to reduce heat generation and further improve reliability.
- Visual indicator for low power supply
- High vacuum performance.
- Easier maintenance and less dust sensitive thanks to external flap valves for cartridge(s) and reliable membrane valve design.



- ► Energy Saving (ES) function.
- ▶ ALD -Automatic Level Determination (ES shut-off level and Hyst).
- Vacuum non-return valve included.
- ▶ Vacuum switch with OLED and gyro display, analog and digital outputs.
- ▶ User-friendly GUI with a display menu allowing users to re-set parameters and re-configure features
- ► Vacuum non-return valve included.
- ► Cleanable and replaceable filter element
- ► Low noise level
- Central silencer or central exhaust for lowest possible sound level and possibility to pipe away exhaust air.



## Technical data

Feed pressure, max.	MPa	0.7	
Temperature range	°C	0-40	
Total weight	g	564	
Material	-	PA, NBR, SS, TPE, PP, Al, CuZn, PVC	
Noise level range	dBA	50-52	
Connection, compressed air	-	ø6 push-in connector(s)	
Connection, vacuum	-	ø8 push-in connector(s)	
Supply voltage	VDC	24 (21.6 – 26.4)	
Electrical input/output	-	PNP/PNP or NPN/NPN	
Electrical connection	-	Connector M12, 8p male	
Switch output 1, max	mA	100	
Analog output	V	1-5	
Signal range (digital output)	-kPa	-101.3140	
Hysteresis	-kPa	Adjustable	
Humidity	%RH	35-85	
Accuracy, of F.S. (Full Scale)	-	±3%	
Display	-	OLED and gyro display	
Typical current consumption	mA	200	
Valve shift peak current	mA, ms	425, <32	
In rush current	mA	800	
Manual override, electrically activated	-	Yes, non-locking push style	
Function, Vacuum / Blow-off	ction, Vacuum / Blow-off - NC vacuum + NC blow off		
Response time	ms	18±6	
Pressure drop	MPa	0.004	
Blow-off flow at 0.5 MPa and no counter pressure	NI/s	0-2.3	
Blow-off flow at 0.5 MPa and 0.1 MPa counter pressure	NI/s	-	

#### Vacuum flow

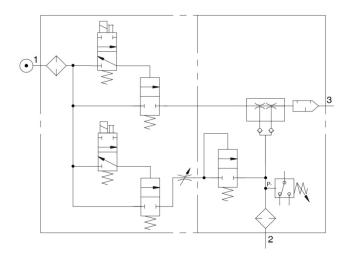
Feed pressure pump / nozzle	Air consumption per pump / nozzle	Vacuum flow (NI/s) at different vacuum levels (-kPa)						Max vacuum			
MPa			10	20	30	40	50	60	70	80	-kPa
0.504 / 0.50	0.72	1.22	1.03	0.78	0.52	0.27	0.21	0.15	0.09	0.03	85

#### Evacuation time

Feed pressure	Air consumption	Evacuation time (s/l) to reach different vacuum levels (-kPa)						Max		
pump / nozzle	per pump /							vacuu		
	nozzle									
MPa		10	20	30	40	50	60	70	80	-kPa
0.504 / 0.50	0.72	0.082	0.201	0.374	0.674	1.216	1.914	2.978	6.187	85



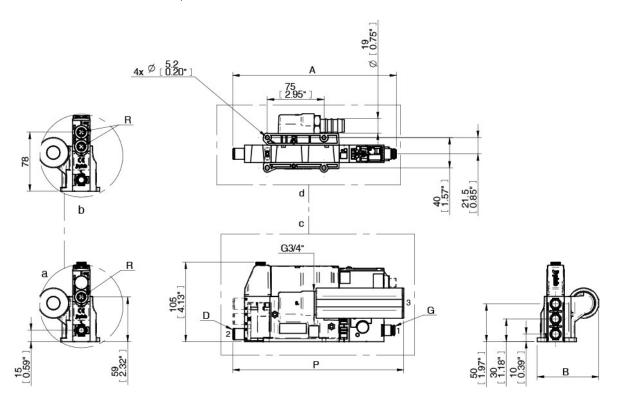
# Dimensional drawing



А	215.4 [8.48'']
В	77.3 [3.04'']
D	ø8
G	ø6
R	M12 8 pins [M12 8 pins'']

M12 8p connector(s)
Ejector(s) for individual mounts,
central exhaust

Note: Filter and vacuum sensor are optional



## Ordering information

Description	
piCOMPACT®SX12 x1 High vacuum performance, SX12 (73-146 Nl/min), Single, Standard, Electrical ES, vac and blow off, No extra vacuum control, , With non-return valve, Display, analog and digital output, 1 vacuum port, ø8 push-in connector(s), 1 channel, No split, ø6 push-in connector(s), Ejector(s) for individual mounts, central exhaust, NC vacuum + NC blow off, PNP/PNP or NPN/NPN, M12 8p connector(s)	PCS.F.121.S.AAA.S18.1X.6.EL.CCAB



# Ordering information, accessories

	Art. No.
Filter element FM23-50, 4 pcs	0205487
Cable M12 8-pin female, PUR, L=2m	0110238
Cable M12 8-pin female, PUR, L=5m	0117746
Y-cable M12 8-pin female, 2xM12 4-pin male, PNP, PUR, L=0.5m	0207535
Y-cable M12 8-pin female, 2xM12 4-pin male, NPN, PUR, L=0.5m	0207534
Cable extension M12 8p fem, M12 8p male, L=2.5m	0208046