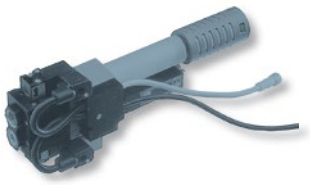
GVMAX

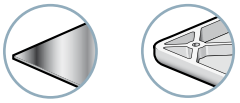
Self-Regulating Vacuum Pumps

(Electric Vacuum and Blow-off Control)



The communication between both elements, electronic vacuum switch and gripping valve control, enables the consumption of compressed air to be regulated and in particular significantly reduced. This range of vacuum pumps is strongly recommended for gripping airtight objects, clamping, and for medium or long cycles. Electrically controllable blow-off is integrated for release.

Industry-specific applications



Materials

PA 6-6 15% FV, POM, PC 15% FV, brass, aluminum, NBR.

Safety

The GVMAX E1 has a non-return valve installed as standard which enables it to maintain the vacuum within the circuit if there is a power failure. This function guarantees maximum safety conditions for operators during handling.

Characteristics

model	Ø nozzle (mm)	max. vacuum (%)			air drawn in (Nl/min)			L2 (mm)		(g)
		X	T	N	X	T	N	S	K(1)	
GVMAX E1	2.5	50	75	90	360	240	200	60	121	510

(1) delivered as standard on version X.

Evacuation Time in Seconds per Liter

% vacuum	Ø nozzle	10			20			30			35	40			45	50		60		70		80	85
versions	(mm)	X	T	N	X	T	N	X	T	N	X	X	T	N	X	T	N	T	N	T	N	N	N
GVMAX E1	2.5	0.02	0.03	0.03	0.04	0.06	0.07	0.08	0.10	0.11	0.01	0.14	0.14	0.16	0.19	0.21	0.22	0.30	0.30	0.50	0.41	0.60	0.77

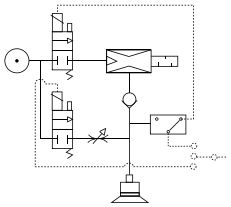
Operating Principle

When the selected vacuum level is reached, the compressed air supply stops. This interruption does not have any effect as the non-return valve maintains the vacuum and thus the grip. The vacuum switch continually analyzes the vacuum requirements. As soon as the minimum threshold is reached, it activates the vacuum generation valve to return to the pre-set value.

See page 8/39.

Specifications

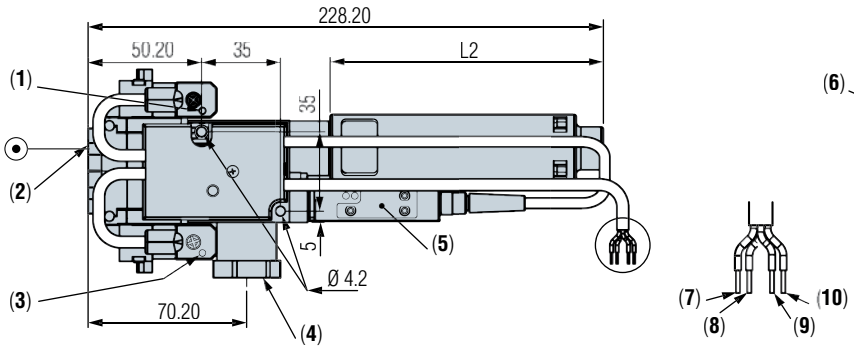
Supply	Non-lubricated filtered air, 2 to 6 bar, optimum at 4 bar
Temperature	0 to 60 °C
Contact output	PNP switching output NO or NC, adjustable hysteresis
Anti-parasite function	Integrated with display LED
Suction rate	Adjusted by flow restrictor



Curves: see page 8/43

Dimensions

(**1**) LED gripping display
(**2**) Compressed air input
(**3**) LED blow-off display
(**4**) Vacuum G1/2"-F Gas
(**5**) PSA100C vacuum switch
(**6**) G1/4"-F
(**7**) White: Contact output
(**8**) Brown: 24 V DC (gripping)
(**9**) Blue: common
(**10**) Black: 24 V DC (blow-off)



For all orders, please specify:

Model + Characteristic + Silencer + C.A. fitting + Pilot
Example: GVMAXNK14E1

1: Model	2: Characteristic		3: Silencer		4: C.A. fitting		5: Pilot	
GVMAX	X	50 % vacuum	-	Without silencer	14	G1/4"-F	E1	24 V DC NC
	T	75 % vacuum	S	Diffuser				
	N	90 % vacuum	K	Through-type				