3 ports



SENTRONIC - G1/8 to G1 tapped body for vacuum control

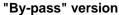
PROPORTIONAL VALVES

FEATURES

- Sentronic valves can be used for applications where pressure and vacuum control is required. For instance, for testing the strength of piping, for testing car brake amplifiers, etc.
- 2 versions are available:

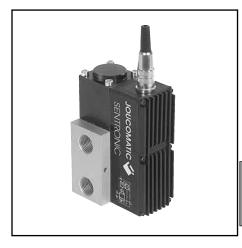
"Cut-off" version

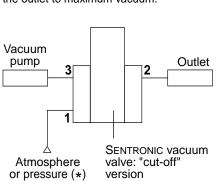
The valve is connected between the vacuum pump and the system to be regulated as shown in the diagram below. As long as the level of vacuum is not reached, the SENTRONIC valve allows free flow between the pump and the load system. When the setpoint is reached, the valve closes the circuit and no more air is consumed. In the event of leakage of the load system, the valve provides regulation by reconnecting the volume to the vacuum pump. When the setpoint is switched off, the valve breaks the vacuum by connecting the volume to atmosphere. When the 24V DC is switched off, the valve connects the outlet to maximum vacuum.

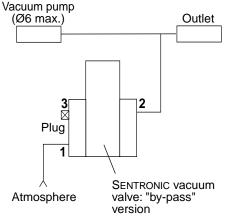


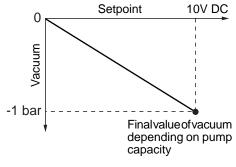
The vacuum pump operates continuously and the SENTRONIC is installed in a branch to regulate the level of the vacuum in the load system as a function of the setpoint by allowing a variable rate of air at atmospheric pressure to enter the system.

In this case, port 3 must be blanked off.









GENERAL

Hysteresis

Linearity

Fluid

Control range Ambient temperature

Flow (at -1 bar)

- ánalog Setpoint

- digital (option)

ELECTRICAL CHARACTERISTICS

0 - 10 V (0 - 20 mA or 4 - 20 mA as option)

condensate

0°C to +40°C

0-1 bar

8 bits + memory function

Vacuum or air, filtered at 50 µm, without

8 bits + pressure reset

210 to 5600 I/min (ANR)

< 1% of span

< 0,5% of span < 0,5% of span

Repeatability CONSTRUCTION (same as standard SENTRONIC, see page 1) (*) To accelerate vacuum control, it is possible to apply pressure (max. 5 bar) instead of atmospheric pressure to port 1.

nominal diameter DN (mm)	stabilised voltage (1)	max. power (W)	max. current (2) (mA)	insulation class	degree of protection	electrical connection
3 6 12 20	24 V = +/-10%	15 29 34 44	600 1200 1400 1800	F	IP 65	7-pin plug-in connector DIN 43651 (supplied) (16 pins for digital)

(1) Max. ripple: 10 %

(2) Max. current consumption in highest control range version

SPECIFICATIONS

Ø connection	Ø	flo	w	control rongo	CENTRONIO		
	orifice (mm)	Kv at -1 bar coefficient (l/min)		control range (bar)	SENTRONIC version	catalogue number	
G 1/8	3	3	210	0 - 1	cut-off by-pass	consult us	
G 1/4	6	10	700	0 - 1	cut-off by-pass	60100204 60100201	
G 1/2	12	20	1400	0 - 1	cut-off	60100205 60100202	
G 1	20	80	5600	0 - 1	by-pass cut-off	60100202 60100206 60100203	

OPTIONS

Same as standard SENTRONIC (see page 1)

Control: The same SENTRONIC can regulate pressure or vacuum (-1 . . . +5 bar, for example), consult us.



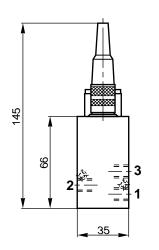
00247GB-2005/R0

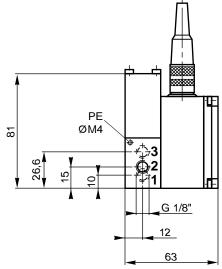


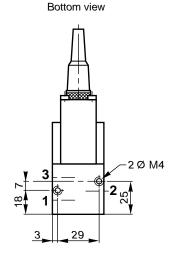
DIMENSIONS (mm), **WEIGHT** (kg) □

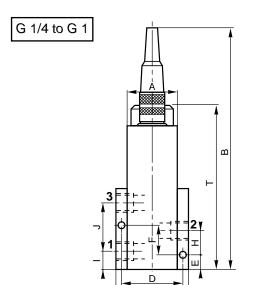


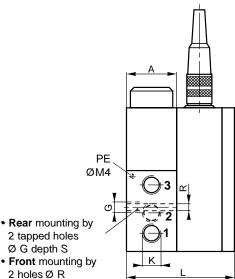
Weight: 0,65 kg











Ø nominal	Α	В	С	D	E	F	G	Н	ı	J	K	L	R	S	Т	weight
6	36	175	52	43	10	20	M6	16	11	34,3	G 1/4	74	4	10	105	0,950
12	45	205	70	57,5	12	28	M6	22,5	15	48,5	G 1/2	93	4	10	136	1,900
20	60	240	96	79	15	33	M8	30,5	20	60	G 1	117	6	15	178	3,900

CONNECTOR WIRING

Analog setpoint version

view direction " V " (solder side of female connector)



- 1 Power + 24V ±10%
- 2 GND (Power)
- 3 Input setpoint
- 4 GND (Input)
- 5 Output voltage stabilised 12 V, max. 30 mA
- Actual pressure (sensor output) (signal 0-10 V for the max. control range - max. 10 mA)
- Not connected (standard)

As option: pressure switch output connection NPN or PNP (max. 500 mA)

Digital setpoint version

view direction " V " (solder side of female connector)



- A Power +24V ±10%
- B GND (Power)
- C Bit 1 (LSB)
- D Bit 2
- E Bit 3
- F Bit 4
- G Bit 5
- H Bit 6 I - Bit 7
- K Bit 8 (MSB)
- Memory function (option 010537) Pressure reset (option 010606)
- M Not connected (standard)

As option: pressure switch output connection NPN or PNP (max. 500 mA)

- N Not connected
- O Not connected
- P Pressure signal (pressure sensor output 0 - 10V for the pressure range in question)
- R Not connected

