

ZP2V, Vacuum Saving Valve ZP2V-BG1-05

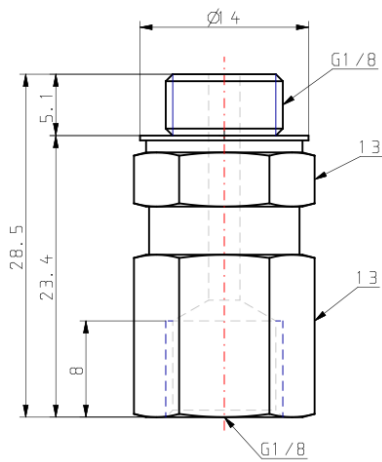
Data Sheet

Machine builders using vacuum for handling or pick and place applications now have an energy saving option with our new Series ZP2V vacuum saving valve. Developed initially for the semiconductor market, these new valves are designed to shut down the suction line when any leakage is detected from the vacuum pad not being fully aligned with the work piece or even when the work piece is simply missing. By effectively stopping the air suction when the system recognizes any irregularities, the energy used in making this vacuum is kept to an absolute minimum. And, without the need for a work piece detection mechanism – which often use mechanical moving parts – those unwanted surface scratches or marks on the work piece are now a thing of the past. Ideal for use as either a stand-alone single vacuum pad or for multiple vacuum pad applications where the vacuum pressure loss is reduced to a minimum and the work piece remains held by the rest of the operating pads, ZP2V users will also save money and time by eliminating the need for expensive sensors or a programmable logic controller (PLC) plus dramatically reduced labour costs when altering the control circuit to accommodate a different shaped work piece.

Standard Specifications

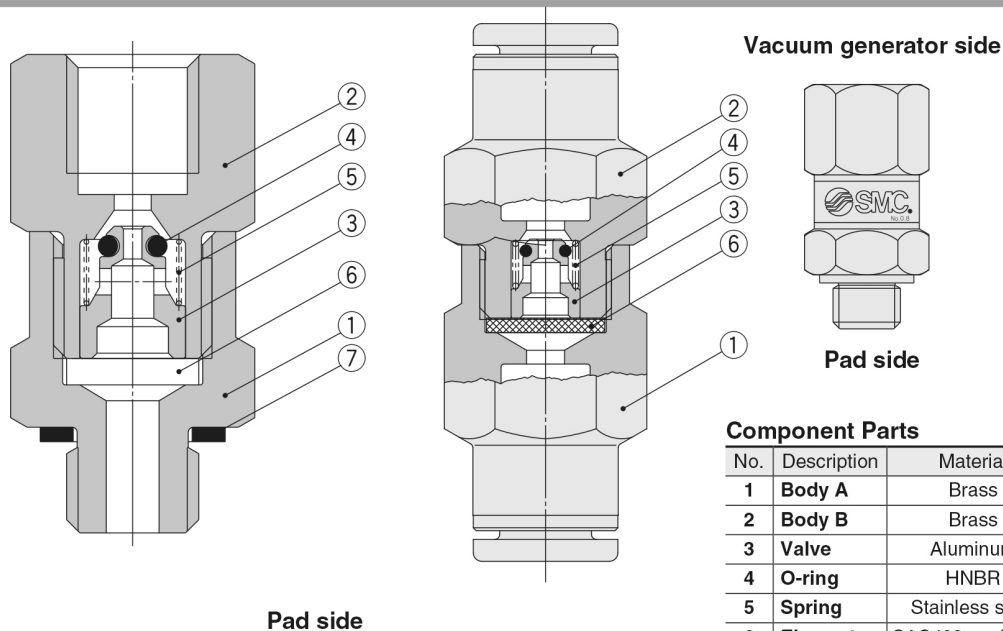
Connection thread size for the pad	G1/8, Female
Orifice Size	0.5mm
Pressure medium	Air
Maximum temperature of pressure medium	60 °C
Minimum temperature of pressure medium	5 °C (No freezing)
Maximal operating pressure	0.7 MPa
Minimum operating pressure	-100 kPa
Maximum ambient temperature	60 °C
Minimum ambient temperature	5 °C (No freezing)
Pneumatic input connection	Female G 1/8
Pneumatic output connection	Male G 1/8
Flow rate	96 l/min (ANR)
Usable tubing material	PU
Subfamily	ZP2V, Vacuum saving valve
Element nominal filtration rating	40 µm
Weight	0.006 kg

Dimensions



Constructions

Construction



Component Parts

No.	Description	Material	Surface treatment
1	Body A	Brass	Electroless nickel plating
2	Body B	Brass	Electroless nickel plating
3	Valve	Aluminum	—
4	O-ring	HNBR	—
5	Spring	Stainless steel	—
6	Element	CAC403 equivalent	—
7	Gasket	NBR + Stainless steel	—

Additional information

Catalogue

[ZP2V-B_EU.pdf](#)

Related Products



ZP2
ZP2-*H/K/U, Mark-free Vacuum Pad



ZP3
ZP3-*U/UM, Compact pad



ZFC76-B
ZFC, In-line Air Filter with One-touch Fitting (NEW)



ZL112-K15MZ-DPL-Q
ZL112-K, Multi-stage Ejector



ZQ, Compact Vacuum Ejector Unit



ZK2, Vacuum Unit, Ejector System with Valve



ZSE20-P-M-M5
ZSE20(F), Digital Pressure Switch, 3-Screen/3-Color Display, Compound and Vacuum Pressure



PS1200-R06L-Q
PS1*00, Electronic Pressure Switch