



Vacuum saving valve

ZP2V Series +

RoHS

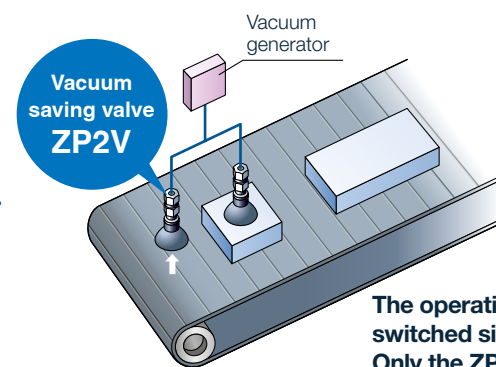
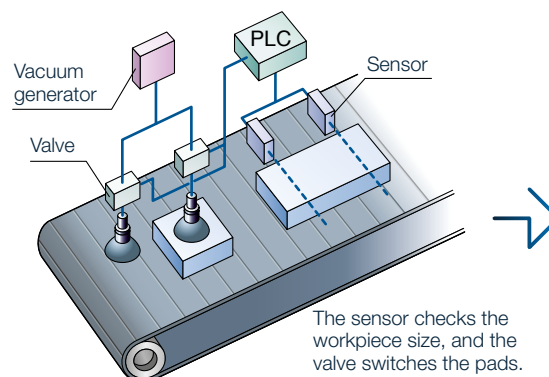
Can restrict the reduction of vacuum pressure even when there is no workpiece.



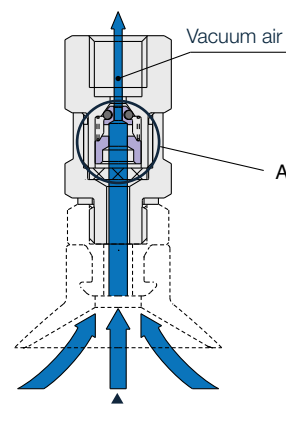
MAIN FEATURES

No need for switching operation when changing workpieces

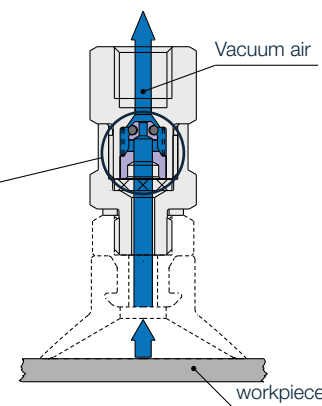
When the workpieces have different shapes, the control circuit can be simplified.



Without workpiece

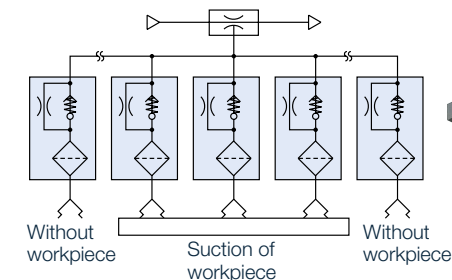


With workpiece



Switch off the suction when there is no workpiece

When multiple vacuum pads are operated by one ejector and some of them are not holding the workpiece, this pads are not consuming air.



ZP2V case study

On a palletizer application, the customer used competitor suction cups to handle cardboard dividers. Due to nozzle wear, the cups required replacement every six months. Over the 8 identical units, annual replacement costs reached approximately 427 €.

SMC proposed not only upgrading to SMC suction cups with enhanced abrasion resistance but combining them with ZP2V vacuum saving valves. The solution reduced unit cost and doubled service life, significantly lowering annual maintenance expenses.

Key customer benefits:

- Reduced annual replacement costs and optimized vacuum efficiency.

Investment

219.78 €

Annual saving

603 €

ROI

4.4 months

SELECTED PART NUMBERS

Part number	Pad side/vacuum generation side	Port size	Fixed orifice size [mm]
ZP2V-A5-03	Male/Female	M5 x 0.8	0.3
ZP2V-B5-05	Female/Male		0.5
ZP2V-AG1-07	Male/Female	G1/8	0.7
ZP2V-AG1-10			1.0
ZP2V-BG1-07	Female/Male		0.7
ZP2V-BG1-10			1.0

APPLICATIONS

This product is suitable for handling and pick&place processes where are required the workpieces have different shapes and an optimal management of vacuum resources is preferred.



Discover more

