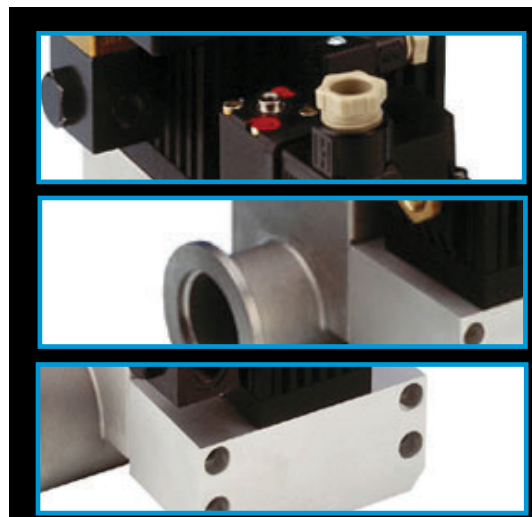
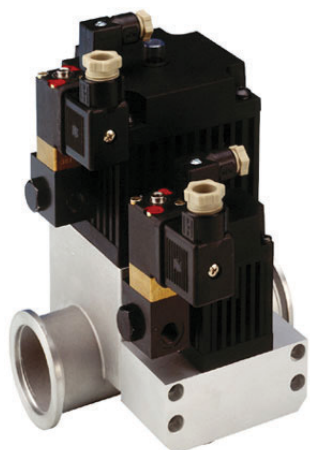


# SIPVP SOFT-START ISOLATION VALVES



Soft-start, pneumatically operated, in-line valves with interchangeable orifices for the controlled pump-down of processes where turbulent flow can cause problems with particulate contamination. Slave and master valve combination allows slow initial pumping to minimise disturbance. Both slave and master valves require separate pneumatic connections.

## Features and benefits

- MTTF of 5,000,000 cycles.
- Controlled pump down to match process.
- Aluminium bodies.
- Fast acting valves in the event of power failure.
- Supplied with 5 mm, 6 mm and 7 mm interchangeable orifices.

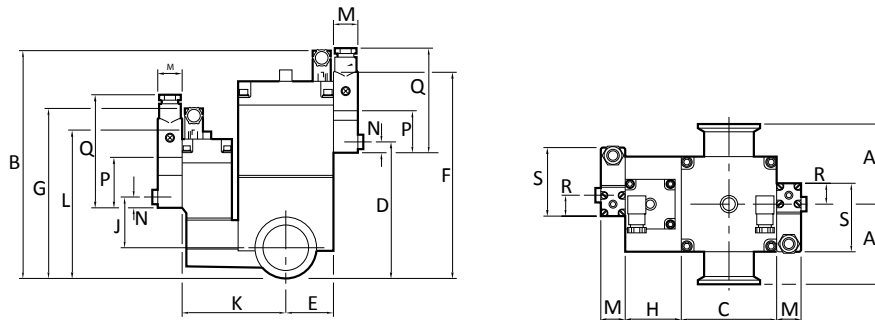
## Applications

When the slave valve is opened gas flows at a low rate between the two sides of the valve through interchangeable orifices allowing slow pumping. Having reached a predetermined pressure level specified by the user, the master valve is opened by means of a user supplied signal allowing full bore pumping.

The bellows sealed valves are single acting with pneumatic opening and spring closure. They are supplied with three interchangeable orifices to enable pumping characteristics to be matched to your process. A microswitch is supplied as standard to indicate valve status. Both the valve and the microswitch can be baked to 100 °C to speed up degassing, and to prevent process gases from condensing inside the valve. While designed primarily for the semiconductor industry the valve can also be used in other applications requiring controlled pump-down.



## SIPVP Dimension



mm (Inches)	A	B	C	D	E	F
SIPV25P	50 (1.95)	161.9 (6.31)	50.8 (1.98)	68.2 (2.66)	25.8 (1)	144.3 (5.63)
SIPV40P	65 (2.65)	192.2 (7.49)	76.2 (2.97)	68.2 (2.66)	38.2 (1.49)	174.6 (6.81)
	G	H	J	K	L	M
SIPV25P/ SIPV40P	145 (5.66)	43.5 (1.69)	49 (1.91)	86 ( 3.35)	127 (4.95)	20 (0.78)
	N	P	Q	R	S	
SIPV25P/ SIPV40P	10 (0.39)	40 (1.56)	88 (3.43)	19 (0.74)	59 (2.3)	

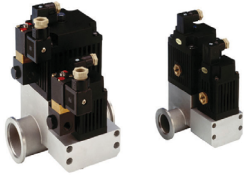
## Technical Data

SIPVP	
Valve actuation type	Single acting, pneumatically opened, spring closed
Pressure range	1 x 10 <sup>-9</sup> to 2100 mbar 8 x 10 <sup>-10</sup> to 1575 Torr
Maximum pressure differential	
Opening	1000 mbar/750 Torr
Closing	2100 mbar/1575 Torr
Leak rate	10 <sup>-9</sup> mbar ls <sup>-1</sup> 10 <sup>-10</sup> Torr ls <sup>-1</sup>
Pneumatic connector	Rp 1/8 (1/8 inch BSP)*
Pneumatic operating pressure	2.8 to 4.2 bar/41 to 61 psi
Electrical indicator	Single microswitch
Microswitch electrical rating	24 V, 1.5 A a.c. or d.c.
Max cycle frequency	900 h <sup>-1</sup>
Bellows reliability, MTTF	5,000,000 cycles
Ambient operating temperature	5-100 °C
Maximum baking temperature	100 °C
Construction materials	HE30TF aluminium
O-ring	Fluoroelastomer
Time to open/close at 4 bar (ms)	SIPV25P (SIPV40P)
Slave valve	60/20 (60/20)
Master valve	15/41 (50/155)
Weight (g/oz)	
SIPV25P	920/32
SIPV40P	1760/62

\* With optional control valve fitted

## SIPVP

### SIPVP



#### Pressure range

$1 \times 10^{-9}$  to 2100 mbar

( $8 \times 10^{-10}$  to 1575 Torr)

#### Valve actuation type

Single acting, pneumatically opened, spring closed

### Ordering information

Product description	Order no:
SIPV25P, pneumatic, bellows sealed, aluminium body	C41624000
SIPV40P, pneumatic, bellows sealed, aluminium body	C41644000

### Electropneumatic Control Valve

Product description	Order no:
3 Port Electropneumatic Control Valve 110 V a.c.	H06200126
3 Port Electropneumatic Control Valve 230 V a.c.	H06200138
3 Port Electropneumatic Control Valve 24 V a.c.	H06200125
3 Port Electropneumatic Control Valve 24 V d.c.	H06200124

### SIPVP Performance Curve

