**Product features/ Code of order** 

CHELIC.

#### Feature

- Installation easily: Small size, applicable with pad and easy to assembly.
- Prevent vacuum vanish: Applicable with multiple vacuum pads to keep the vacuum pressure from vanish.
- Variety specifications: Applicable with multiple connecting options.



Specification

Item Model	A10, A20, A30, A40, B20, B30	A11, A21, A31, A41, B21, B31	B10
Connection size for pad mm	M8x1.25P	PT 1/8	Ø6
Fixed orifice size mm Ø1.0			
Fluid	Air		
Pressure range MPa(kPa)	0.1 ~ 0.7(100 ~ 700)		
Operating vacuum pressure range kPa(-mmHg)	0 ~ -92(0 ~ -690)		
Ambient and fluid temperature °C	5~60		
Element nominal filtration rating um	40		
Min. operating flow rate	w rate 7		
Available pad size L/min	25 ~ 50		

# Code of order VP 10 - A10

Mark Model 10 Ø1.0

2	Type	Vacuum Pad	Vacuum generator		Туре	Vacuum pad	Vacuum generator
	Mark	Male Thread	Female thread		Mark	Connection port(mm)	Connection port(mm)
	A10	М	8x1.25P	Щ	B10 Ø6		.c
	A11		PT 1/8				ь
	Type	Vacuum Pad	Vacuum generator		Type	Vacuum pad	Vacuum generator
	Mark	Male Thread	Female thread		Mark	Male Thread	Connection port(mm)
	A20	М	8x1.25P		B20	M8x1.25P	Ø6
	A21	PT 1/8			B21	PT 1/8	Ø6
	Type	Vacuum Pad	Vacuum generator		Туре	Vacuum pad	Vacuum generator
	Mark	Male Thread	Female thread	Ш	Mark	Female thread	Connection port(mm)
	A30	М	8x1.25P		B30	M8x1.25P	Ø6
	A31		PT 1/8		B31	PT 1/8	Ø6
	Type	Vacuum pad	Vacuum generator				
	Mark	Male Thread	Female thread				
	A40	M8x1.25P					
	A41		PT 1/8				



PA

PВ

PC

PAG

PAO

PAP

PAQ

PAW

PAL

PBL

PCL

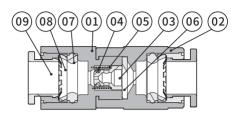
PAR

PS

VP

Product features CHELIC.

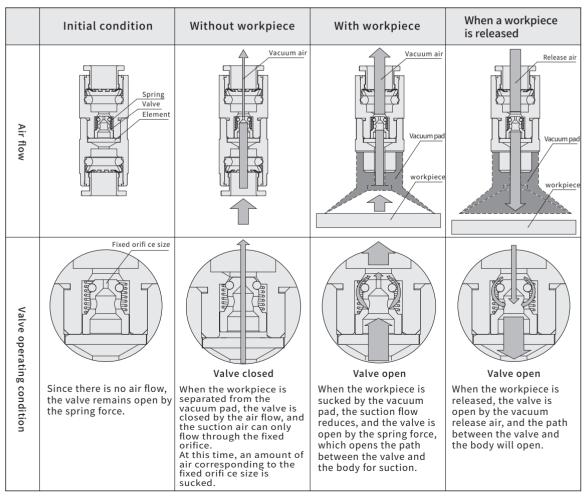
#### Internal structure



### Components and material list

No.	Item	Material	No.	Item	Material
01	VP upper part	Copper Alloy	06	VP element	Sintered copper
02	VP lower part	Copper Alloy	07	SQC0606 fitting gasket	NBR
03	VP-10-valve	Copper Alloy	08	SQC 06 the 3-fitting part	-
04	O-Ring 1.2*1	NBR	09	SQC 06 release ring	-
05	VP spring	Stainless			

## Working principle



CHELIC Product features

### Product weight

Model	Weight(g)	Model	Weight(g)
A10		A41	20.22
A11	19.74	B10	18.85
A20		B20	20.70
A21		B21	20.76
A30	17.51	B30	18.48
A31	17.51	B31	18.48
A40	20.22		

Selection conditions

- -50 kPa or more of vacuum pressure per vacuum pad.
- Part number of vacuum saving valve used: VP-10-B1.
- Connection thread size for pad side: Ø6 fixed orifice size: Ø1

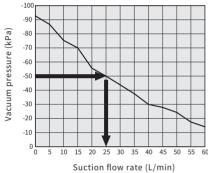
Check the flow-rate characteristics of the vacuum generator used

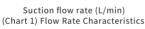
- From the flow-rate characteristics of the vacuum generator (Chart 1).
- Calculate the suction flowrate of the vacuum generator from the required vacuum pressure.
- Vacuum pressure -50 kPa.
- Suction flow rate 25 L/min.

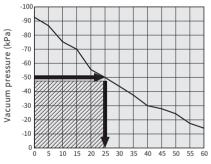
## Calculate the number of vacuum saving valves

- Find the minimum operating flow rate and the suction flow rate of the vacuum generator in the specific cations on page 2, and calculate the number of vacuum saving valves (N) that can be used with one vacuum generator.
- Number of vacuum\_ Suction flow rate of the vacuum generator saving valves Minimum operating flow rate
- From (Chart 2) to calculate vacuum saving valve quantity

Vacuum saving valve quantity: about 3 pcs,  $\frac{25}{2}$ 







Suction flow rate (L/min) (Chart 2) The Number of Vacuum Saving Valves Chart

## **Specific Product Precautions**

# CAUTION

- The product is not equipped with a vacuum holding function, and cannot be used for the purpose of holding vacuum.
- Do not disassemble the product. Once the product is disassembled and reassembled, it will not be able to satisfy the original performance.
- When piping, do not get the pad side and vacuum generator side of the product the wrong way round.
- When the built-in element of the product gets clogged, replace the whole product.

PA

PΒ

РC

PAG

PAO

DΔD

PAQ

PAW

PAL

DRI.

PCL

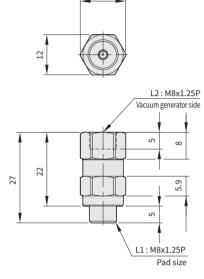
PAR

PS

VΡ

Dimensions CHELIC.

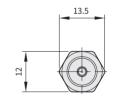
## ■ VP - 10 - A □

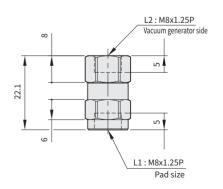


Unit: mm

Model	Thread size L1	Thread size L2
VP-10-A 10	M8x1.25P	M8x1.25P
VP-10-A 11	PT 1/8	PT 1/8

## ■ VP - 10 - A □

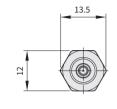


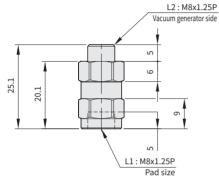


Unit: mm

Model	Thread size L1	Thread size L2
VP-10-A 30	M8x1.25P	M8x1.25P
VP-10-A 31	PT 1/8	PT 1/8

#### **VP** - 10 - A □

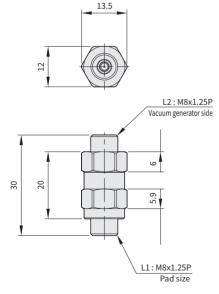




Unit: mm

Model	Thread size L1	Thread size L2
VP-10-A 20	M8x1.25P	M8x1.25P
VP-10-A 21	PT 1/8	PT 1/8

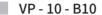
## ■ VP - 10 - A □

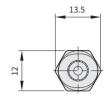


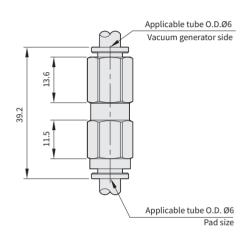
Unit: mm

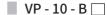
Model	Thread size L1	Thread size L2
VP-10-A 40	M8x1.25P	M8x1.25P
VP-10-A 41	PT 1/8	PT 1/8

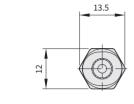
Dimensions CHELIC.

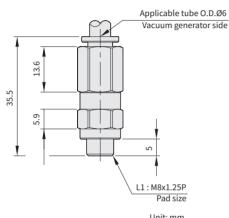






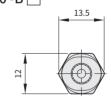


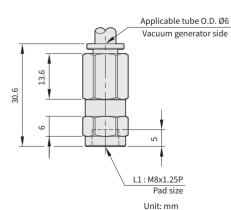




	Offic. IIIIII
Model	Thread size L1
VP-10-B 20	M8x1.25P
VP-10-B21	PT 1/8

■ VP - 10 -B □





Model	Thread size L1
VP-10-B 30	M8x1.25P
VP-10-B 31	PT 1/8

PAQ PAW

PA

PВ

PC

PAG

PAO

PAP

PAL

PBL

PCL

PAR

PS

VP

