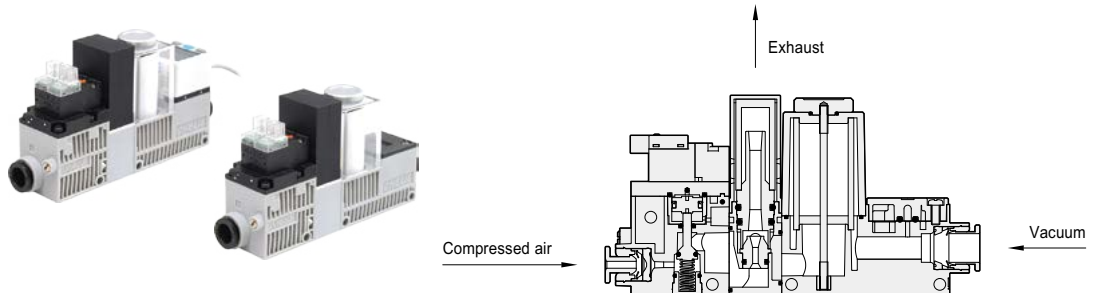


VK 30 series - Modularized vacuum ejector

Operation specification • Order expression

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Internal structure



Specification

Item		Model	VK30T • VK30ST
Fluid			Air
Pressure range		kgf/cm ² (kPa)	2.5 ~ 7 (250 ~ 700)
Proof pressure		kgf/cm ² (kPa)	5 (500)
Vacuum value		kPa (mmHg)	-91.8 (-690)
Nozzle diameter		(mm)	2.0mm
Max. suction flow		(L/min)	64
Temperature		°C	5 ~ 60
Material	Body		Copper (Nickel plating)
	Plastic		NYLON, PBT
Port size		Rc (PT)	Ø10
Valve type			SR2 - 100
Rated voltage		(V)	24±10%VDC
Power consumption		(W)	1.4

How to Order

VK30 - **T** - **20** - **10** - **24 VDC** - **L** - **Output** - **Connector** - **C**

Model

VK30 series Modularized vacuum ejector

Vacuum ejector + Filter + Solenoid valve **T**

Vacuum ejector + Filter + Solenoid valve + pressure switch **ST**

Nozzle diameter

15 - 1.5mm
20 - 2.0mm

Port size

Code	Size
10	Ø10

Voltage

12 VDC 1.0W
24 VDC 1.4W

Electrical entry

L

T

W

■ With wire length 300mm

Output

022

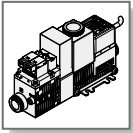
022: 2NPN output
042: 2PNP output
※1. Only VKST30
2. Please refer to P.3-1.19

Connector

■ None : 2M cable
□: M8, 4-Pin Male
[PS-2M-PVC]: M8, 4-Pin Female
※1. Only VKST30
2. Please refer to P.3-3.12

Bracket

■ None : No
□: With Bracket (2 pcs) (Option)



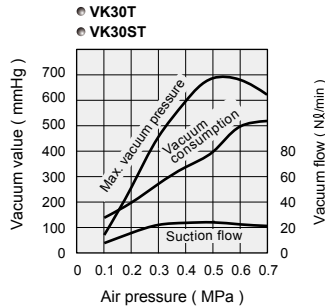
VK 30 series - Modularized vacuum ejector

Flow rate characteristic • Pressure switch specification

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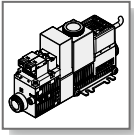
Flow Rate Characteristics

- The flow characteristics is to show air flow and air consumption related when vacuum ejector extract air to reach vacuum pressure condition.



Pressure switch specification

Item		Model	PSC-41
Rated pressure range			- 100.0 ~ 100.0 kPa
Set pressure range			- 101.0 ~ 101.0 kPa
Withstanding pressure			300 kPa
Applicable fluid			Air, Non-corrosive gas, Incombustible gas
Power voltage			12 to 24V DC $\pm$ 10%, Ripple $\leq$ 10%
Current consumption			$\leq$ 40mA (No load current)
Switch output	Output		2 NPN or 2 PNP open collector
	Max. loading current		125 mA
	Power supply voltage		2 NPN 30 V DC , 2 PNP 24 V DC
	Residual voltage		$\leq$ 1.5 V
	Reacting time		Prevent incorrect operation : 50 ms,250 ms,500 ms,1000 ms,2000 ms,3000 ms options
Short-circuit protection			YES
Display	Display type		3 color (Red/Green/Orange) LCD, (Sampling cycle: 5 times/s)
	Indicator light		(1/2 display) OUT1 OUT2 Orange light
	Renewing		Adjustable
	Display accuracy		$\pm$ 2% F.S. $\pm$ 1 digit (Temperature : 25 $\pm$ 3 $^{\circ}$ C)
Repeatability			$\pm$ 0.2% F.S. $\pm$ 1 digit
Environmental resistance	Enclosure		IP 40
	Temperature range		0~50 $^{\circ}$ C
	Operating temperature range		-10~60 $^{\circ}$ C (No freezing or condensation)
	Operating humidity range		35~85% RH (No condensation)
	Withstand voltage		1000 V AC 1 minute (Between terminals and housing)
	Insulation resistance		50M Ω or more (500V DC)(Between terminals and housing)
	Vibration resistance		Phasor 1.5mm or 10G, for 1 minute 10Hz-55Hz-10Hz, X \ Y \ Z 2 hours per direction
Impact resistance			100m/s ² (10G),X \ Y \ Z 3 times per direction
Temperature characteristic			$\pm$ 2% F.S. in operating temperature 25 $^{\circ}$ C (0~50 $^{\circ}$ C In operating temperature)
Wire			Oilproof PVC cable (0.15mm ²)
Weight			About 65g (Including 2 meter wires) / About 30g (Including M8, 4-Pin male connector)

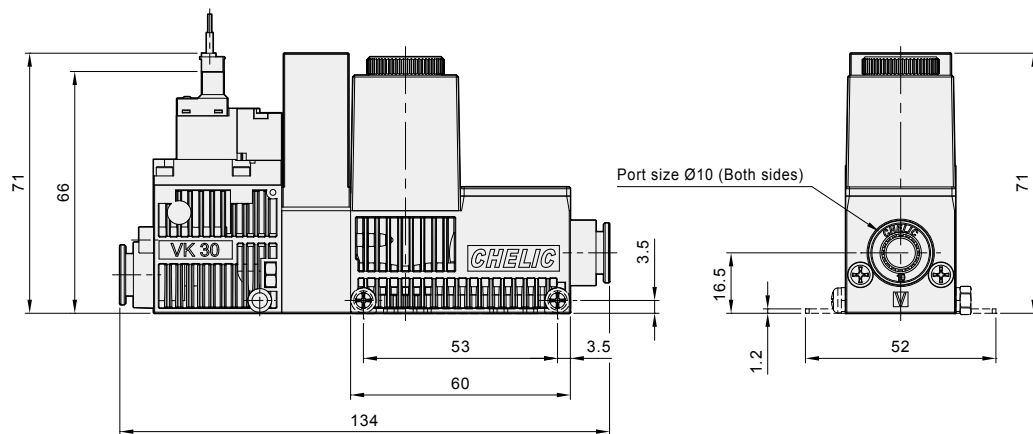
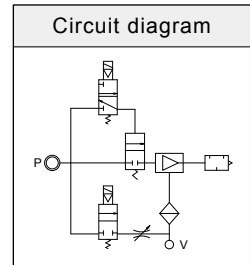
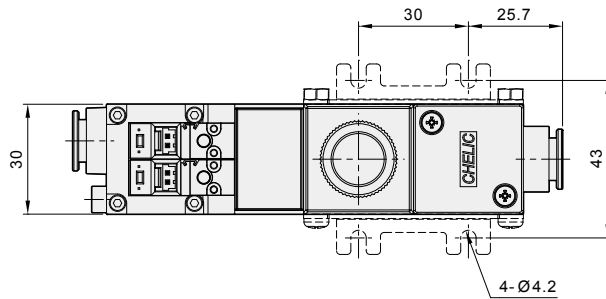


VK 30T series - Modularized vacuum ejector

External dimensions

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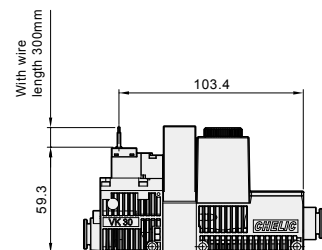
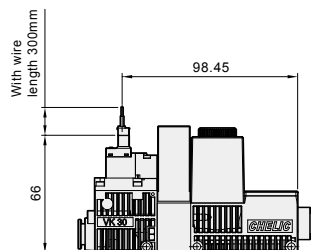
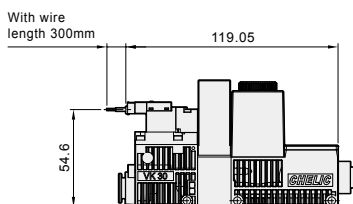
VK30 **T** - **20** - 10 - **24 VDC** - **T** - **C**

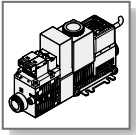


► L type - **L**

► T type - **T**

► W type Grommet - **W**



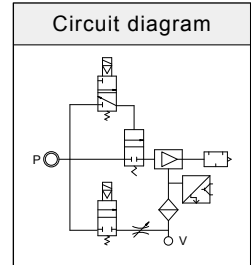
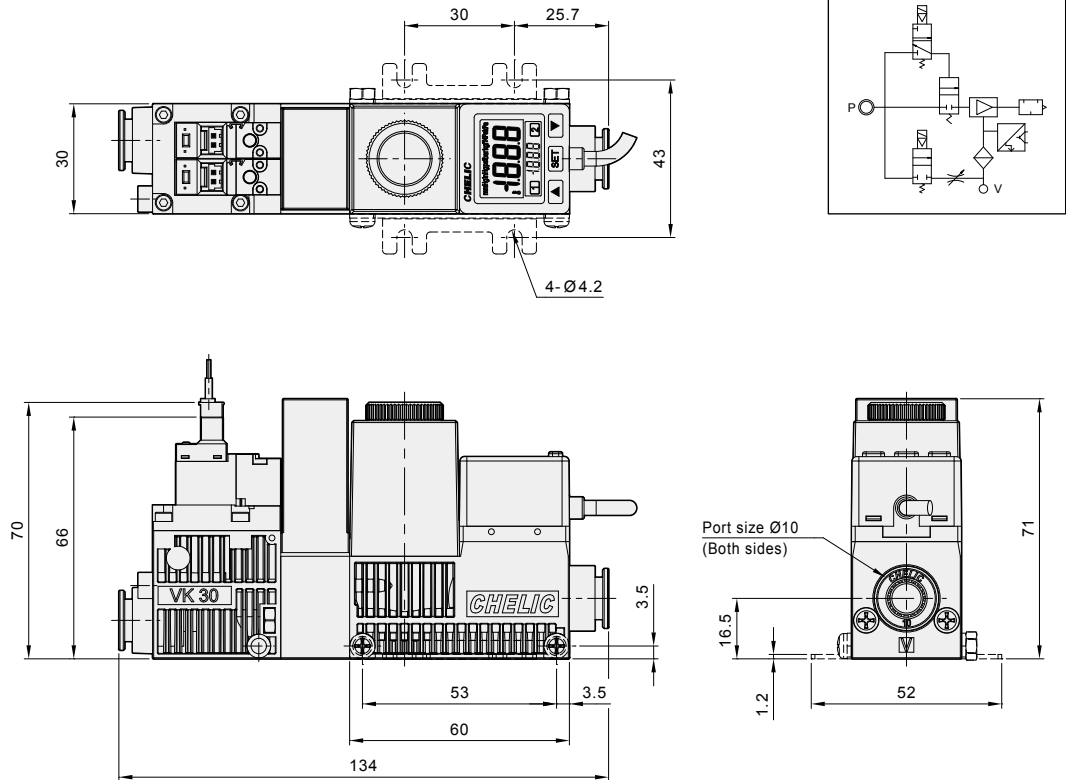


VK 30ST series - Modularized vacuum ejector

External dimensions

CHELIC

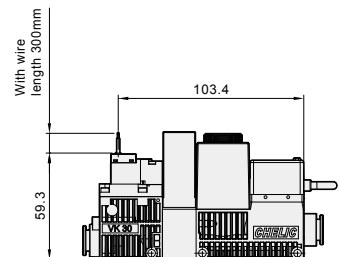
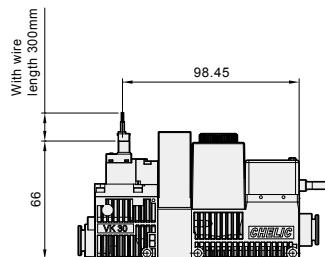
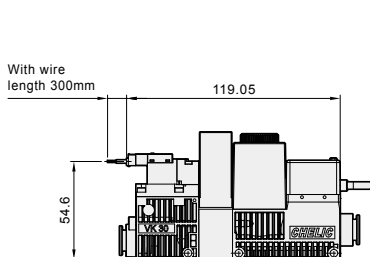
VK30 **ST** - **20** - **10** - **24 VDC** - **T** - **022** - **C**

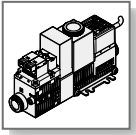


► L type - **L**

► T type - **T**

► W type Grommet - **W**





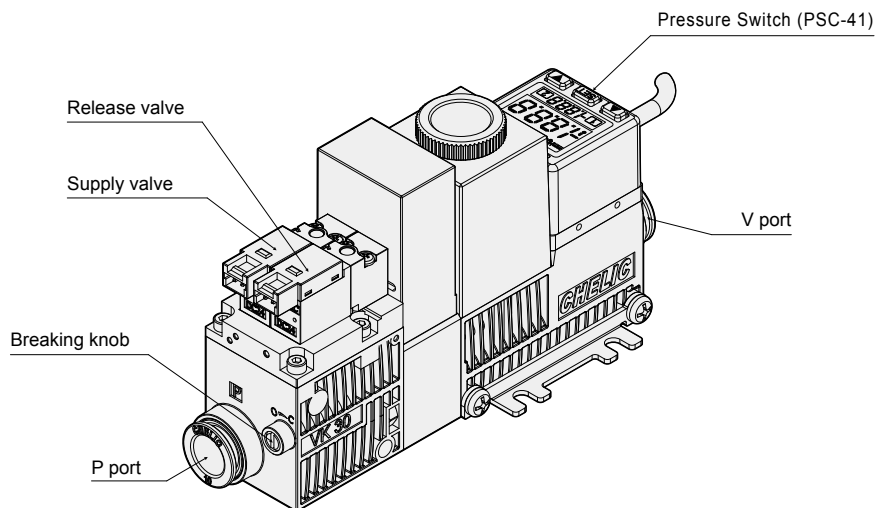
VK 30 series - Modularized vacuum ejector

Operation

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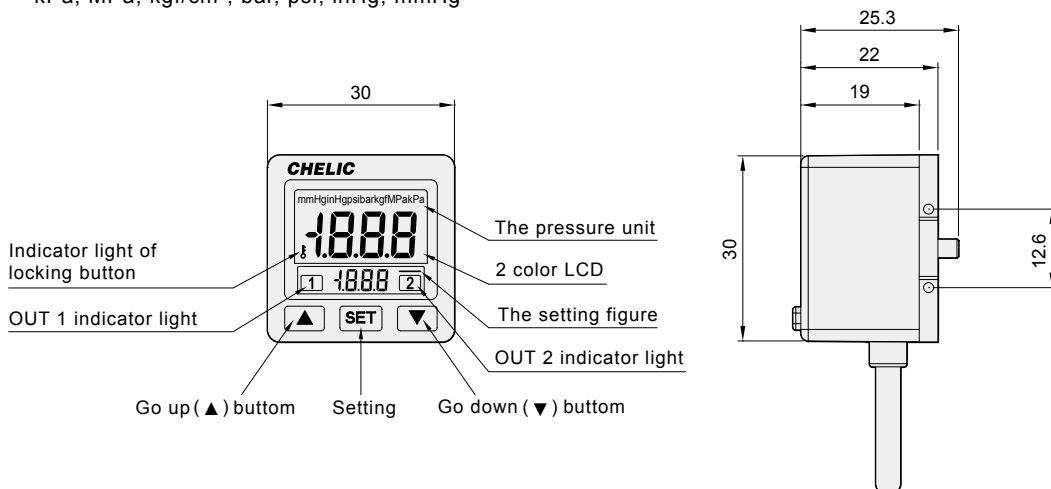
VK 30 Series Vacuum ejector and vacuum breaking instructions

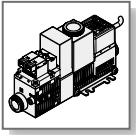
- The supply valve is to control air supply port, release valve is to control the breaking knob.
- The vacuum ejector generates the vacuum only when supply valve starts up.
- By adjusting break knob in clockwise, the vacuum increased; Otherwise counter-clockwise.



PSC-41 Numeric Display Pressure Switch Setting Instructions

- 2 sets of output (2 NPN / 2PNP)
- Key lock function
- Various pressure units available
kPa, MPa, kgf/cm², bar, psi, inHg, mmHg





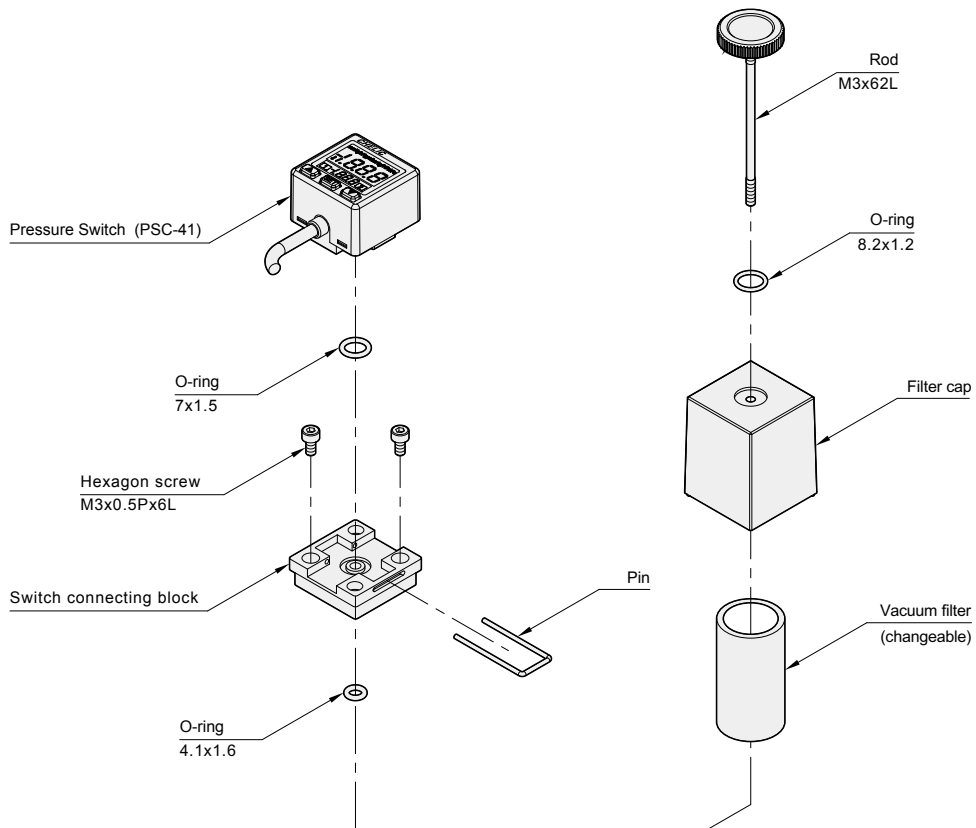
VK 30 series - Modularized vacuum ejector

Assembly introduction to pressure switch, filter element and bracket.

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VK30 Series pressure switch

VK30 Filter element



VK30 Bracket

