

Vacuum Generator Series

Vacuum Generator VB






Specification

Fluid medium	Air
Operating pressure range	21.8 ~ 102psi (0.15 ~ 0.7MPa)
Rated pressure supply	H, L type : 72.5psi (0.5MPa), E type : 51psi (0.35MPa)
Operating temp. range	32 ~ 140°F (0 ~ 60°C) (No freezing)

Specification of Box Union Switch Type VB and Mechanical Vacuum Switch Type VUSM

Pressure detection	Diaphragm to Micro switch
Fluid medium	Air
Operating temp. range	32 ~ 140°F (0 ~ 60°C) (No freezing)
Micro switch rating	3A 250V
Pressure setting range	-5.9inHg ~ -19.5inHg (-20 ~ -66kPa)
Accuracy	±1.5 inHg (±5kPa)
Differential response	6.5 inHg (22kPa)
Factory default pressure	-15.7 inHg (-53kPa)
Lead wire	Length: About 11.8" (300mm) White: Common, Red: Normally closed, Black: Normally open

Box Type Union

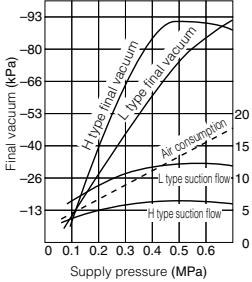
VB	Model	VB	Model
Box Type Union	VB ² ③-V-PP	Box Type Union Vacuum Switch	VB ² ③-V-PS
	VBH05- ⁵ / ₃₂₋₅ / ₃₂ P VBH05-44P		VBH05- ⁵ / ₃₂₋₅ / ₃₂ S VBH05-44S
	VBH07-1/4-1/4P VBH07-66P		VBH07-1/4-1/4S VBH07-66S
	VBH10-1/4-1/4P VBH10-66P		VBH10-1/4-1/4S VBH10-66S
	VBH12-1/4-1/4P VBH12-66P		VBH12-1/4-1/4S VBH12-66S
	VBL05- ⁵ / ₃₂₋₅ / ₃₂ P VBL05-44P		VBL05- ⁵ / ₃₂₋₅ / ₃₂ S VBL05-44S
	VBL07-1/4-1/4P VBL07-66P		VBL07-1/4-1/4S VBL07-66S
	VBL10-1/4-1/4P VBL10-66P		VBL10-1/4-1/4S VBL10-66S
	VBE07-1/4-1/4P VBE07-66P	* With vacuum vacuum switch incorporated.	VBE07-1/4-1/4S VBE07-66S
	VBE07-1/4-1/4P VBE10-66P		VBE07-1/4-1/4S VBE10-66S
	VBE07-1/4-1/4P VBE12-66P		VBE07-1/4-1/4S VBE12-66S
VUSM	Model		Cautions
Mechanical Vacuum Switch	VUSM10-øD		*1. The white-letter model type in is new model.
	VUSM10- ⁵ / ₃₂ VUSM10-4		*2. "-S3" spec.: no Cu alloy with HNBR seal
	VUSM10-1/4 VUSM10-6		*3. The model with low sales average may be build to order production. For details, please contact Pisco sales office or sales representative.
			Package specification
			1 pc. in a bag

Characteristics

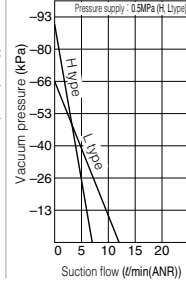
Supply pressure - Final vacuum / Suction Flow / Air Consumption

VBH05, VBL05

Vacuum characteristics

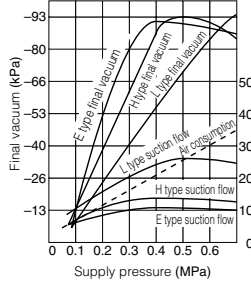


Flow characteristics

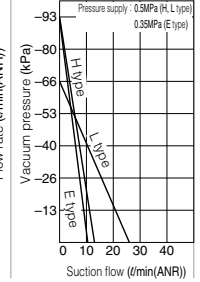


VBH07, VBL07, VBE07

Vacuum characteristics

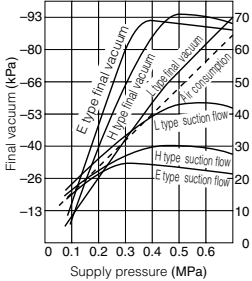


Flow characteristics

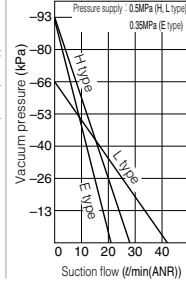


VBH10, VBL10, VBE10

Vacuum characteristics

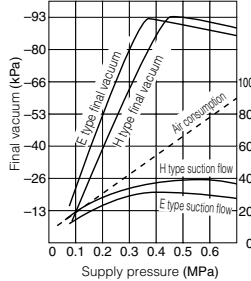


Flow characteristics

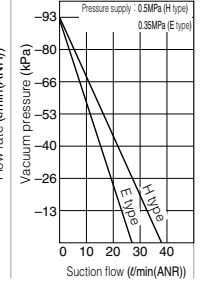


VBH12, VBE12

Vacuum characteristics



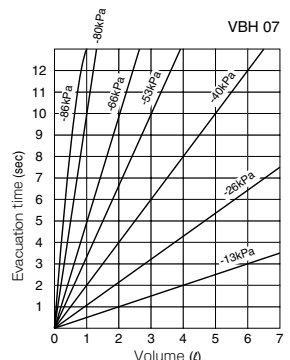
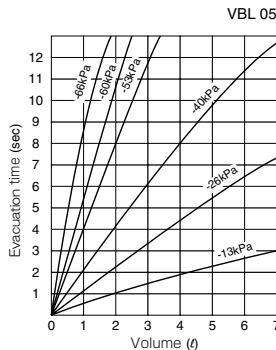
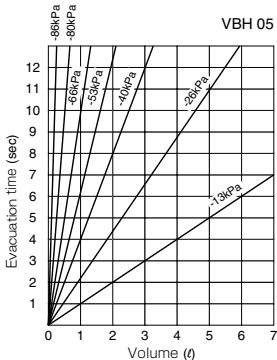
Flow characteristics

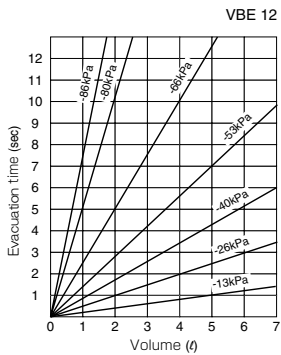
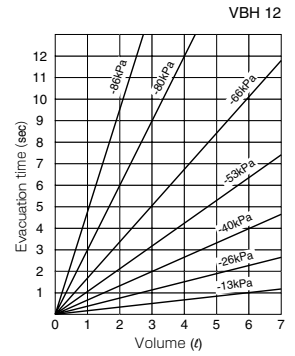
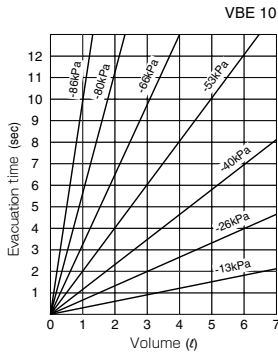
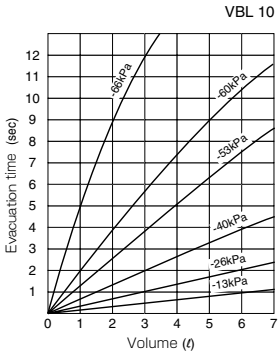
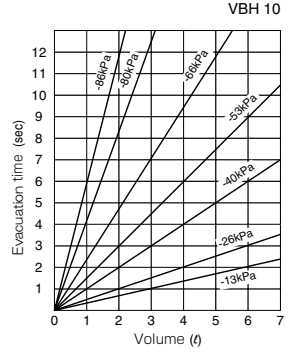
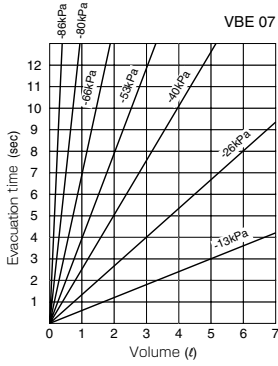
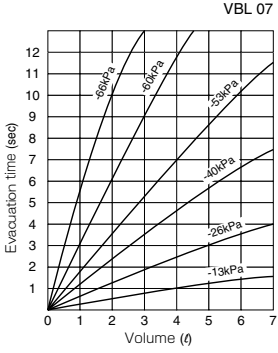


Characteristics

Evacuation time (Supply pressure H and L types: 0.5MPa, E type: 0.3 to 0.5Mpa)

※ The following charts are for reference only since the values vary according to the piping arrangement.







SAFETY Instructions

This safety instructions aim to prevent personal injury and damage to properties by requiring proper use of PISCO products.

Be certain to follow ISO 4414 and JIS B 8370

ISO 4414 : Pneumatic fluid power...Recommendations for the application of equipment to transmission and control systems.

JIS B 8370 : General rules and safety requirements for systems and their components.

This safety instructions is classified into "Danger", "Warning" and "Caution" depending on the degree of danger or damages caused by improper use of PISCO products.



Danger

Hazardous conditions. It can cause death or serious personal injury.



Warning

Hazardous conditions depending on usages. Improper use of PISCO products can cause death or serious personal injury.



Caution

Hazardous conditions depending on usages. Improper use of PISCO products can cause personal injury or damages to properties.

⚠ Warning

1. Selection of pneumatic products

- ① A user who is a pneumatic system designer or has sufficient experience and technical expertise should select PISCO products.
- ② Due to wide variety of operating conditions and applications for PISCO products, carry out the analysis and evaluation on PISCO products. The pneumatic system designer is solely responsible for assuring that the user's requirements are met and that the application presents no health or safety hazards. All designers are required to fully understand the specifications of PISCO products and constitute all systems based on the latest catalog or information, considering any malfunctions.

2. Handle the pneumatic equipment with enough knowledge and experience

- ① Improper use of compressed air is dangerous. Assembly, operation and maintenance of machines using pneumatic equipment should be conducted by a person with enough knowledge and experience.

3. Do not operate machine / equipment or remove pneumatic equipment until safety is confirmed.

- ① Make sure that preventive measures against falling work-pieces or sudden movements of machine are completed before inspection or maintenance of these machine.
- ② Make sure the above preventive measures are completed. A compressed air supply and the power supply to the machine must be off, and also the compressed air in the systems must be exhausted.
- ③ Restart the machines with care after ensuring to take all preventive measures against sudden movements.

Disclaimer

1. PISCO does not take any responsibility for any incidental or indirect loss, such as production line stop, interruption of business, loss of benefits, personal injury, etc., caused by any failure on use or application of PISCO products.
 2. PISCO does not take any responsibility for any loss caused by natural disasters, fires not related to PISCO products, acts by third parties, and intentional or accidental damages of PISCO products due to incorrect usage.
 3. PISCO does not take any responsibility for any loss caused by improper usage of PISCO products such as exceeding the specification limit or not following the usage the published instructions and catalog allow.
 4. PISCO does not take any responsibility for any loss caused by remodeling of PISCO products, or by combinational use with non-PISCO products and other software systems.
 5. The damages caused by the defect of Pisco products shall be covered but limited to the full amount of the PISCO products paid by the customer.
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