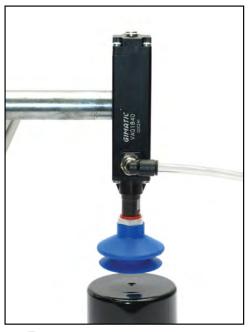


- Operated by vacuum only.
- The extension and the retraction movements are automatically actuated.
- The stroke is self-adjusting.
- Temperature range from 50° to 104°F.



Quick#	Part#	Price	Style	Total Stroke	Stroke with Full Force	Max. Vertical Load	Min. Vacuum Flow	Min. Vacuum Level	Weight
6973	VAQ1820	\$99.00	Rotating	25mm	20mm	500g	1.06 SCFM	30%	90g
6975	VAQ1840	\$107.00		55mm	40mm				125g
6974	VAQN1820	\$129.00	Non-Rotating	25mm	20mm				105g
6976	VAQN1840	\$140.00		55mm	40mm				145g

Use Quick#s for easy online ordering.



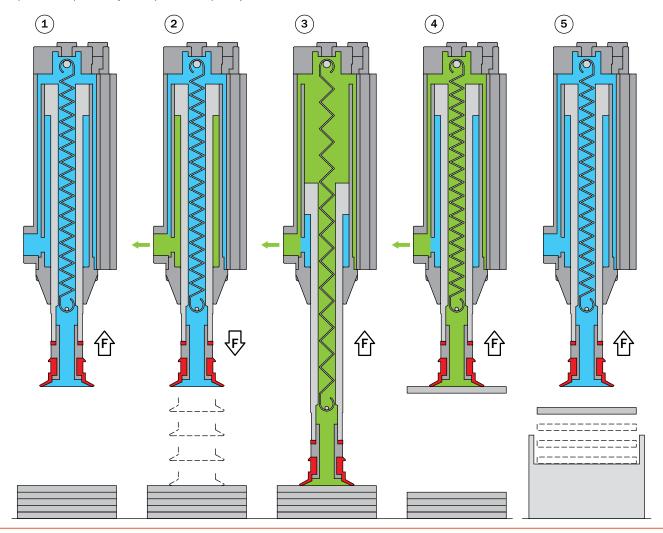


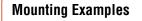
View EMI's video for more information on how the VAQ works! www.youtube.com/emicorpvideo

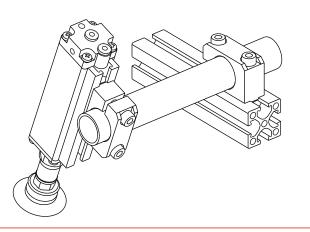
Working Principle:

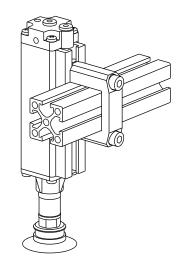
Emi

- 1. Without vacuum, the rod is retracted by the spring force.
- 2. When vacuum is applied, the pressure under the piston is lower than the pressure over the piston and the rod travels forward.
- 3. The pressures invert as soon as the vacuum cup makes contact with an object.
- 4. Thus the rod retracts immediately, lifting the object.
- 5. When the vacuum is removed, the object is released, but the spring holds the rod retraced. (Accurately, instead of removing vacuum, a pressure impulse can be provided by the air port over the piston.)







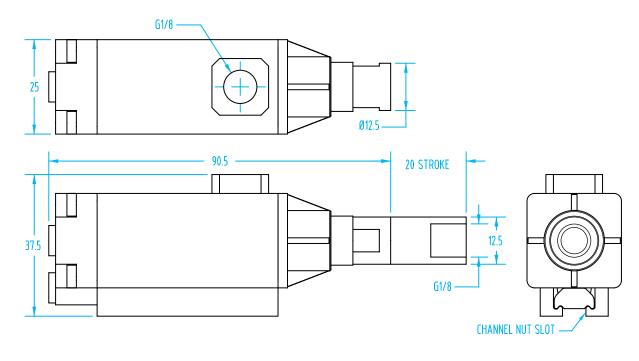




(Dimensioned drawings shown full scale)

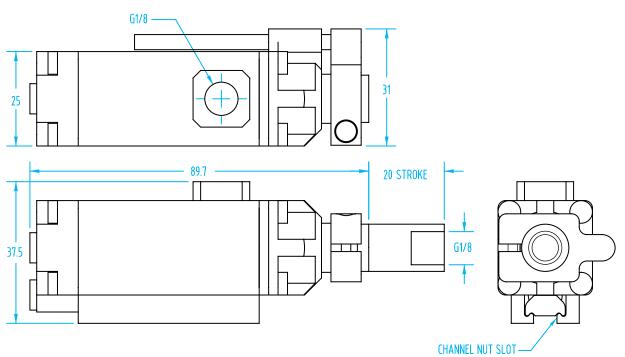
EMÍ

#6973



Non-Rotating Version

#6974



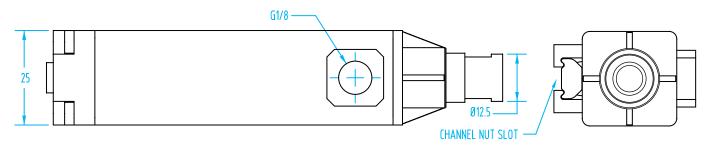


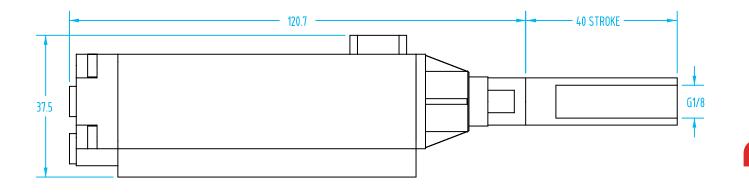
8: SUSPENSIONS

Vacuum Suspensions – VAQ

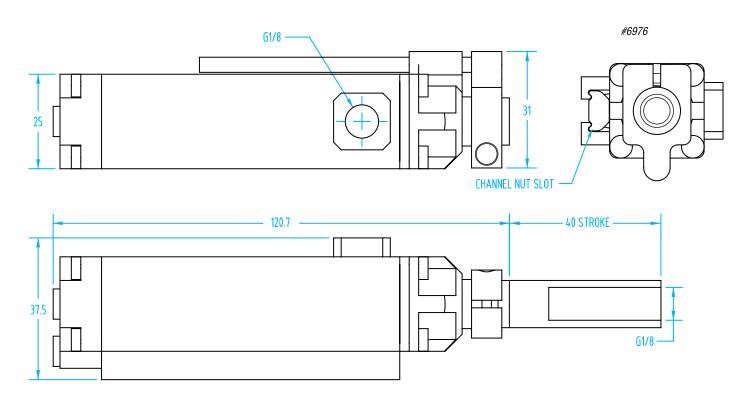
(Dimensioned drawings shown full scale)

#6975

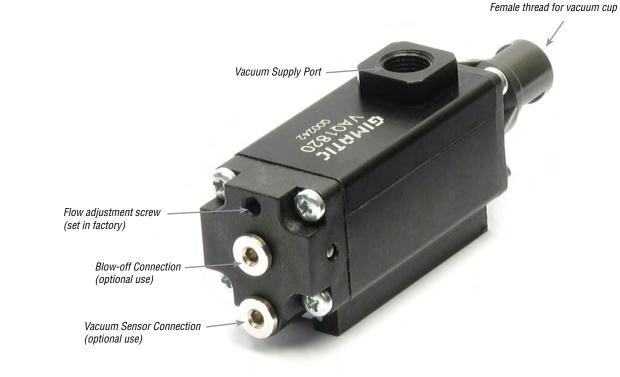




Non-Rotating Version



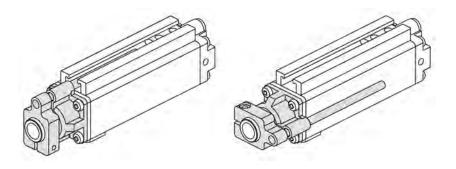






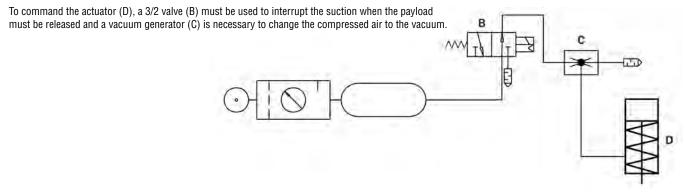
Mounting Examples

The non-rotation assembly can be positioned on 3 sides.

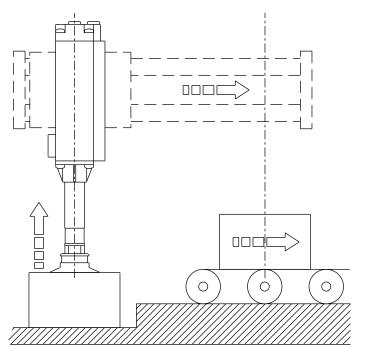




Pneumatic circuit:



Application Example: Pick & Placing at different levels.



Warning!: When using multiple VAQ on a single vacuum circuit, each VAQ will increase the vacuum losses, which increases the minimum flow rate required to operate properly. As a result it is recommended to use only 1 vacuum circuit per VAQ.

Minimum Flow Rate for proper operation is 1.06 SCFM (see vacuum generator chart on page 1023 for options.

OT 6