

Home Page Address

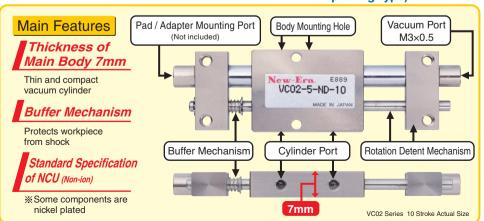
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● E-mail Address

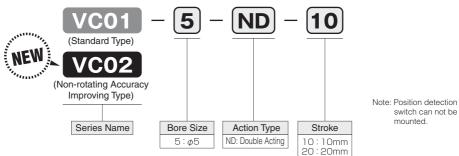
pneumatic@newera.co.jp

Compact Vacuum Cylinder





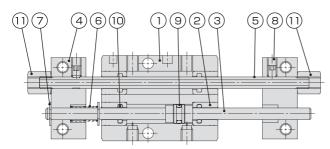
Model Code No.



switch can not be mounted.

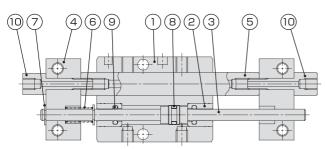
Internal Structure Drawing

VC01

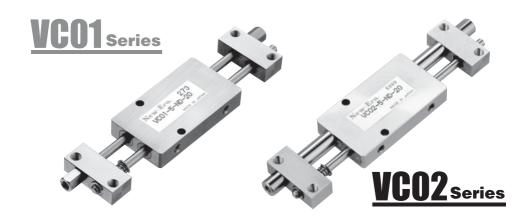


No.	Name	Material
1	Body	Aluminum Alloy
2	Rod Cover	Aluminum Alloy
3	Piston Rod	Stainless Steel
4	Plate	Aluminum Alloy
5	Guide Rod	Stainless Steel
6	Spring	Stainless Steel
7	E-ring	Stainless Steel
8	Hexagon Socket Head Set Screw	Stainless Steel
9	O-ring	NBR
10	O-ring	NBR
11	Socket	Copper Alloy (Nickel Plating)

VC02



No.	Name	Material
1	Body	Aluminum Alloy
2	Rod Cover	Aluminum Alloy
3	Piston Rod	Stainless Steel
4	Plate	Aluminum Alloy
5	Guide Rod	Stainless Steel
6	Spring	Stainless Steel
7	E-ring	Stainless Steel
8	O-ring	NBR
9	O-ring	NBR
10	Socket	Copper Alloy (Nickel Plating)



Specifications

Model		VCO1 -5-ND-St	VC02-5-ND-St		
Action Type		Double Acting			
Bore Size [mm]		φ5			
Stroke [mm]		10, 20			
Fluid		Air			
Operating Pressure Range [MPa]		0.3~0.7	0.35~0.7		
Proof Pressure [MPa]		1.05			
Operating Temperature Range Note 1) [°C]		0~60 (No Freezing)			
Operating Speed Range Note 2) [mm/sec]		50~300	100~300		
Non-rotating Accuracy [°]		±2.5	±0.9		
Maximum Buffer Stroke [mm]		3 Note 3)			
Buffer Spring Force	At Not Operating [N]	0.9			
Bullet Spring Force	At Stroke End [N]	1.8			
Pipe Bore		M3×0.5			
Cushioning		None			
Lubrication Not required		Not required			
Product Mass [g]		10St : 22 20St : 27	10St : 30 20St : 38		

Note 1) Please control the speed at lower than 300 [mm/sec]. Otherwise it may cause damage.

Note 2) When piston rod is pulled.

Note 3) Buffer stroke must be operated at less than 3mm. Otherwise it may cause damage.

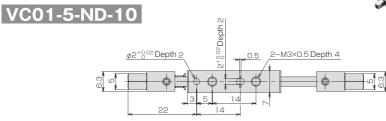
Note) Do not apply rotational torque to both of the piston rods. In unavoidable circumstances, the torque should be 0.02 [N·m] or less. Note) When screwing the joint to the vacuum port and female thread part at the rod end, fix the socket and tighten with the recommended tightening torque of 0.7 [N·m].

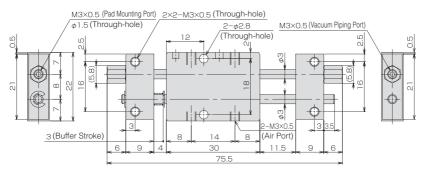
Note) When screwing are joint on the vaccum port and relined part at the roce mon, incline socket and adjunct mixing the main body with M3 screw hole, use the recommended tightening torque 0.7 [N • m]. At this time, the screwing amount of the bolt shall be less than 4 [mm]. Otherwise it may cause trouble in operation.

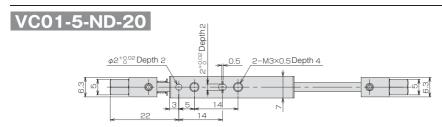
Dimensions

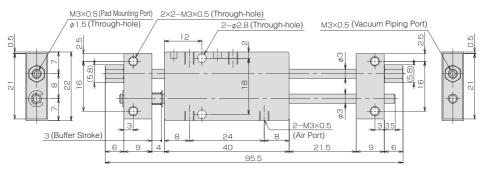
VC01series





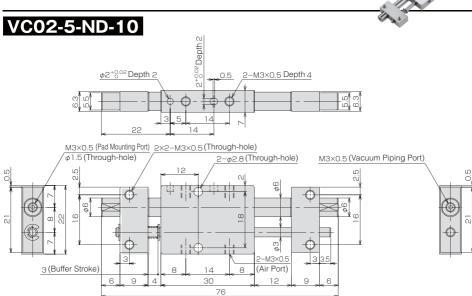


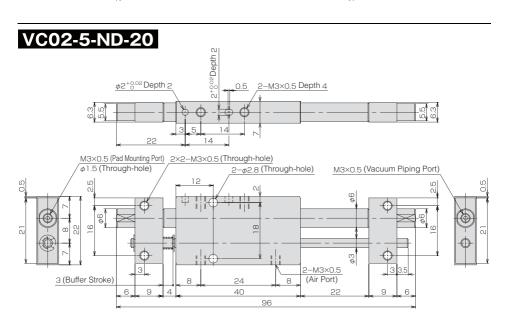




VCO2 series







Precautions for Use

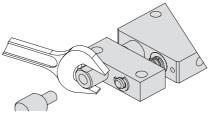
Be sure to control the speed at 300 [mm/sec] or less with the speed controller. Otherwise it may cause damage.

Do not apply rotational torque to both of the piston rods.
 In unavoidable circumstances, the torque should be 0.02
 [N ⋅ m] or less.

Rotational Torque 0.02 [N ⋅ m] or less

•When screwing a joint etc. into the vacuum port and the female thread part at the rod end, fix the socket so that no excessive force is applied to the rod.

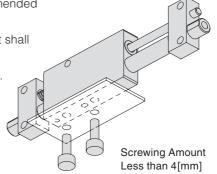
Recommended tightening torque : 0.7 [N·m]



■When fixing the main body, use the recommended tightening torque 0.7 [N • m].

At this time, the screwing amount of the bolt shall be less than 4 [mm].

Otherwise it may cause trouble in operation.



Guide to Our Website

http://www.newera.co.jp/en/pneumatic/index.html

- Check latest New-Era information including new products.
- Download CAD data.
- Request catalogues and information materials.

Cylinder Theoretical Thrust Table

%When the product is ϕ 5

Air Pressure [MPa]	0.3	0.4	0.5	0.6	0.7
Cylinder Thrust [N]	3.77	5.03	6.28	7.54	8.80

*Because the product adopts double piston rods, the same cylinder thrust is generated during pushing and pulling.



Safety Precautions

Please read the following instructions before use. See also the precautions in the general catalog.

- ●Do not put your fingers in the gap between the main body and the plate. Be careful never to put your fingers because your fingers may be pinched between the main body and the plate during operation.
- If a dangerous situation may occur in case that a workpiece (sucked object) sucked by the system. with vacuum generator falls off, be sure to take mechanical anti-falling measures for safety.



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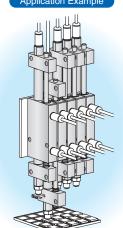
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· Electric catalogue is also available. In case of need, please contact us.



Application Example



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