

Suction Pad with Built-in Vacuum Ejector
Air Pincette

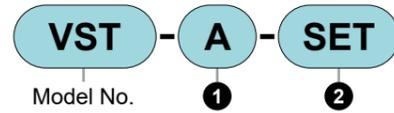
VST Series



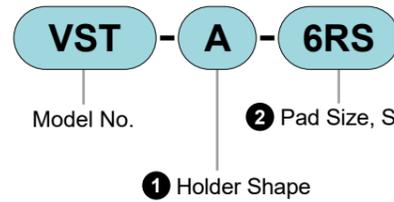
- Air tweezers with built-in Suction Pads and vacuum ejector in pen-shaped body. Ideal for assembling small parts, etc.
- Built-in Valve-type: VST-B has less noise and saves energy as air flows only when used.

Model No. Notation

● Air tweezers package set Model No.



● Model No. of air tweezers only



1 Holder Shape

Code	Content
A	Without Valve
B	Built-in Valve

2 Pad Size, Shape and Material

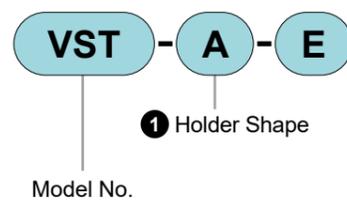
Code	Content				
	Nitrile rubber	4RN	6RN	8RN	
	Silicone rubber	2RS	4RS	6RS	8RS
Pad Size (mm)		ø2 mm	ø4 mm	ø6 mm	ø8 mm

*Air Pincette Package Set Contents

(Air Pincette: 1 pc., pad rubber: 4 pcs.(material: Silicone), pad O.D.: ø2 mm, ø4 mm, ø6 mm, ø8 mm, pad adaptor: 2 pcs.)
(for ø2/4 mm, ø6/8 mm) Coiling Tubes: 1 pc

Maintenance Part Model No.

● Filter Element



1 Holder Shape

Code	Content
A	Without Valve
B	Built-in Valve

Specifications

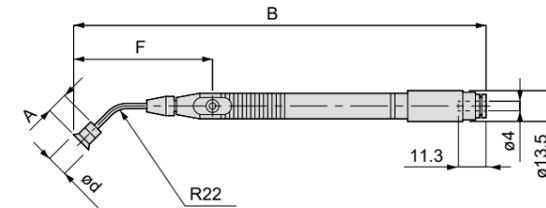
Item	VST
Operating Fluid	Air
Operating Pressure MPa	0.15 to 0.7
Rated supply pressure MPa	0.5
Achieved vacuum pressure kPa	-85 (VST-B: -80)
Suction Flow Rate L/min (ANR)	2
Operating Temperature (°C)	0 to 60 (However, no freezing)

VST Series

External Dimension Drawings

External Dimension Drawings

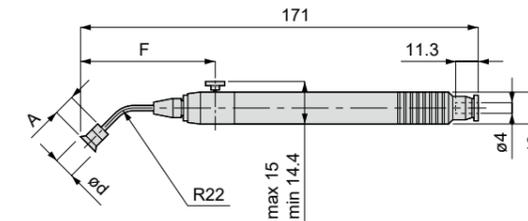
● Without valve VST-A



Unit: mm

Model No.	Pad Diameter ød	A	B	F	Weight (g)
VST-A-2R□	2	8	182.7	62.4	21.5
VST-A-4R□	4	8	182.7	62.4	21.5
VST-A-6R□	6	11	188.7	68.4	22.5
VST-A-8R□	8	9.5	187.2	66.9	22.5

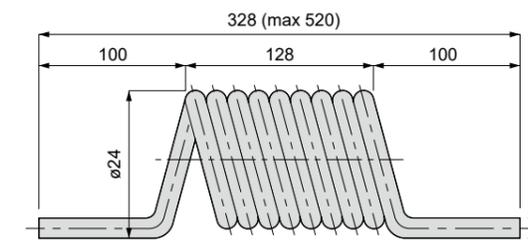
● Integrated valve VST-B



Unit: mm

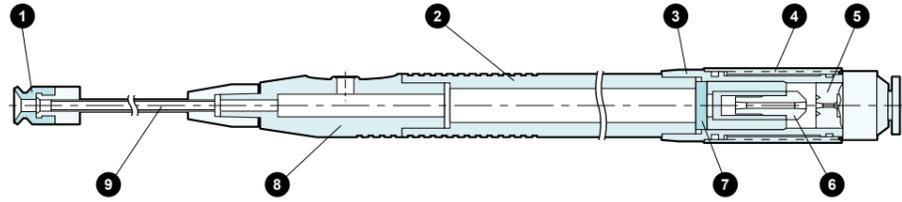
Model No.	Pad Diameter ød	A	F	Weight (g)
VST-B-2R□	2	8	59.9	16
VST-B-4R□	4	8	59.9	16
VST-B-6R□	6	11	65.9	17
VST-B-8R□	8	9.5	64.4	17

● Coiling tube for air tweezers



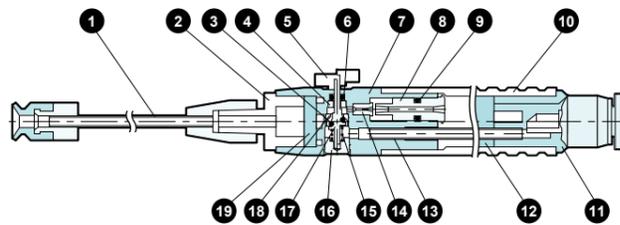
Internal Structure Diagram/Materials

● Without valve VST-A



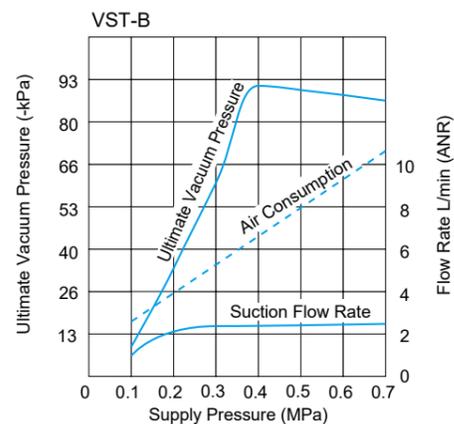
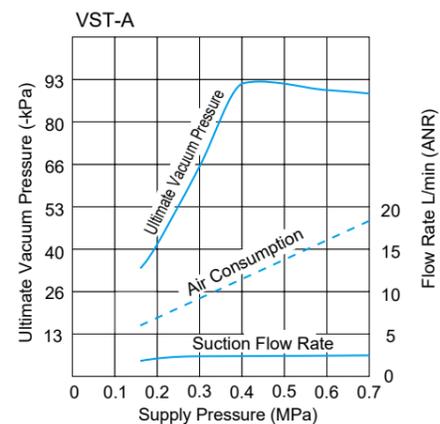
Part No.	Part Name	Material	Remarks	Part No.	Part Name	Material	Remarks
1	Standard Type Pad			6	Diffuser	Brass (Electroless nickel plating)	
2	Resin Body B	Polyamide resin		7	Filter Element		
3	Resin Body C	Acetal Resin		8	Resin Body A	ABS Resin	
4	Cover	ABS Resin		9	Pad Holder	Brass (Electroless nickel plating)	
5	Nozzle Assembly						

● Integrated valve VST-B



Part No.	Part Name	Material	Remarks	Part No.	Part Name	Material	Remarks
1	Pad Holder B	Brass (Electroless nickel plating)		11	Fitting Body	Polybutylene terephthalate resin	
2	Pad Holder A	ABS Resin		12	Silencer Element		
3	O-ring	Nitrile rubber		13	Pipe	Brass (Electroless nickel plating)	
4	O-ring Retainer	Brass (Electroless nickel plating)		14	Nozzle	Brass (Electroless nickel plating)	
5	Push Button	ABS Resin		15	Spring	Stainless Steel	
6	O-ring	Nitrile rubber		16	Valve Body Guide	Brass (Electroless nickel plating)	
7	Resin Body A	Polybutylene terephthalate resin		17	Valve Element	Brass (Electroless nickel plating)	
8	Diffuser	Brass (Electroless nickel plating)		18	Valve Body Ring	Brass (Electroless nickel plating)	
9	O-ring	Nitrile rubber		19	Filter Element		
10	Resin Body B	Polyamide resin					

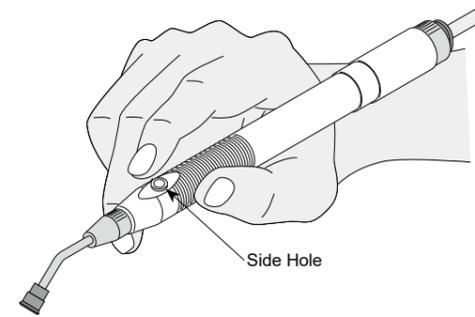
Vacuum Characteristics



How to Use

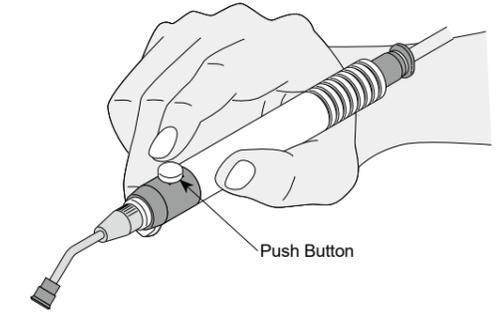
● For type without valve VST-A

While flowing compressed air (0.5 MPa) into the air pincette, cover the side hole to adsorb the workpiece. To release the workpiece, uncover the side hole.



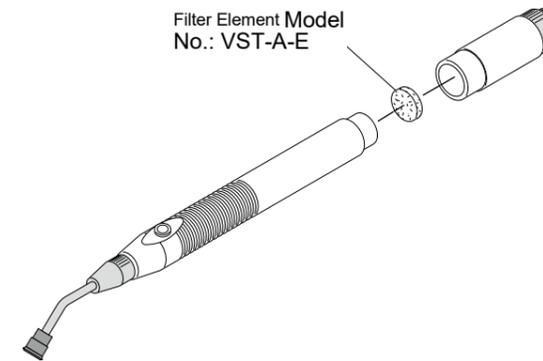
● For integrated valve VST-B

While flowing compressed air (0.5 MPa) into the air pincette, press the push button to adsorb the workpiece. To release the workpiece, release the push button.

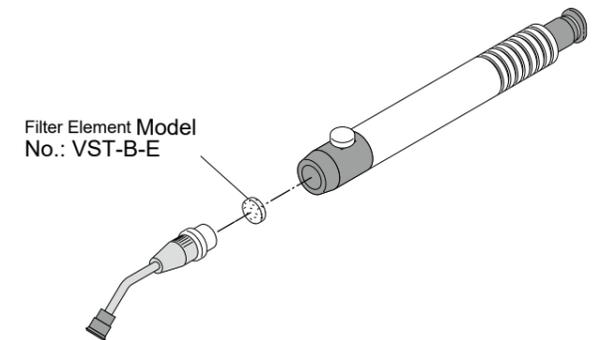


Replacement Element for Air Pincette

● Without valve VST-A



● Integrated valve VST-B





Pneumatic Components

To Use This Product Safely

Be sure to read this before use.

For general pneumatic components precautions, Intro 15 for details.

Individual Precautions: Air Pincette VST Series

Design / Selection

Caution

- Do not carry out pushbutton operation of the integrated valve mechanically. Doing so may cause button damage.
- The filter element is replaced by the ejector (without valve: VST-A) or pad holder (integrated valve: VST-B). Since this can be done by removing it, periodically perform maintenance and inspection. Clogging can cause performance degradation.
- Note that the silencer element of integrated valve cannot be replaced.
- When piping to the air tweezers, use a Coiling Tubes Fittings and minimize the load on the tube.

MEMO

Vacuum Components

Vacuum Related Components

VSRL

VSECV

VSRVV

VRA2000

VSLF

VSFB, VSFU, VSFJ

FSL

VFA

VSUS

VST

Vacuum Components

Vacuum Related Components

VSRL

VSECV

VSRVV

VRA2000

VSLF

VSFB, VSFU, VSFJ

FSL

VFA

VSUS

VST

Ending

Ending