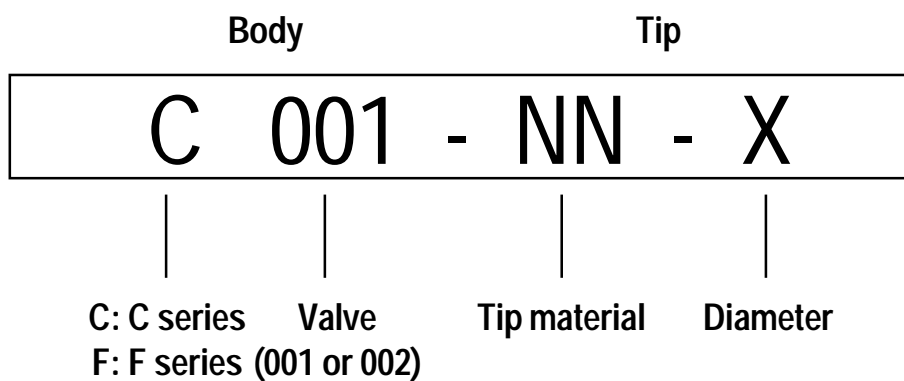


**VACUUM TOOLS FOR PRECISE
AND DELICATE HANDLING OF
DIES, SMALL COMPONENTS,
FIBRE-OPTICS AND MANY OTHER
APPLICATIONS**

Die and small parts handling



- Handles a delicate and fragile object gently.
- Reliable suction and release.
- No scratches to an object, in contrast to metal tweezers.
- Ideal for die and small diameter semiconductor wafer handling.
- Ideal for electronic component and fibre-optic handling.
- Ideal for jewellery making, camera and watch repair, computer and model assembly, and picking up contact lenses.

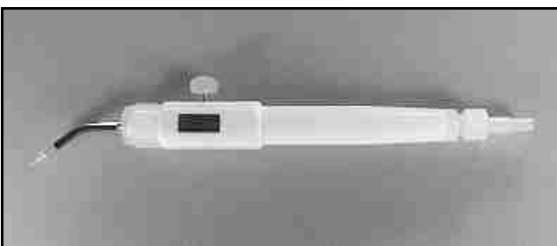


Bodies

C series: C001/2-NN-X

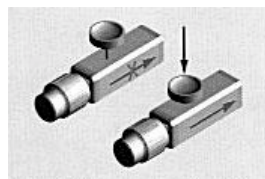


F series: F001/2-NN-X

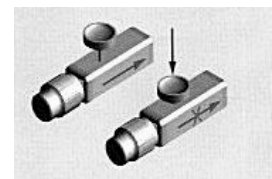


Item	Valve type	Body material
C001-NN-X	Normally closed (push to pick up)	Conductive nylon (black)
C002-NN-X	Normally open (push to release)	Conductive nylon (black)
F001-NN-X	Normally closed (push to pick up)	Teflon (white)
F002-NN-X	Normally open (push to release)	Teflon (white)

Valves



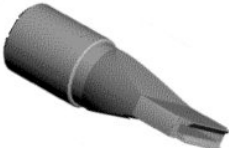


1: NC (normally closed)
Push the button to pick up the component.



2: NO (normally open)
Push the button to release the component.

Tips

Nozzle 	Cup 	Slit 
Materials (NN) and diameters (X, in mm)		
PCTFE (NN = 21) 0.3, 0.5, 0.7, 1.0, 1.2, 1.5, 2.0, 2.5, 3.0 (NN = 22) 0.1, 0.2	Silicone rubber (NN = 41) 2.5, 3.0, 3.5, 5.0, 8.0, 11.0, 15.0	PCTFE (NN = 51) Tip width: 3.0, 4.5 (slit 0.5) Tip width: 6.0 (slit 0.8) Tip width: 7.0 (slit 1.0)
PEEK (NN = 23) 0.2, 0.3, 0.5, 0.7, 1.0, 1.2, 1.5, 2.0, 2.5, 3.0	Viton rubber (NN = 42) 2.5, 3.0, 3.5, 5.0, 8.0, 11.0, 15.0	Conductive nylon (NN = 54) Tip width: 3.0, 4.5 (slit 0.5) Tip width: 6.0 (slit 0.8) Tip width: 7.0 (slit 1.0)
Vespel (NN = 24) 0.2, 0.3, 0.5, 0.7, 1.0, 1.2, 1.5, 2.0, 2.5, 3.0	Conductive silicone rubber (NN = 43) 2.5, 3.0, 3.5, 5.0, 8.0, 11.0, 15.0	
Conductive PEEK (NN = 26) 0.3, 0.5, 0.7, 1.0, 1.2, 1.5, 2.0, 2.5, 3.0	Teflon (NN = 45) 2.5, 3.0, 3.5, 5.0, 8.0, 11.0, 15.0 (>15 on request)	
Conductive nylon (NN = 27) 0.3, 0.5, 0.7, 1.0, 1.2, 1.5, 2.0, 2.5, 3.0		
Stainless steel (NN = 31) 0.1, 0.2, 0.3, 0.5, 0.7, 1.0, 1.2, 1.5, 2.0, 2.5, 3.0		

PCTFE = polychlorotrifluorethylene; PEEK = polyetheretherketone; Vespel® = polyimide

Vacuum pump

FV-10

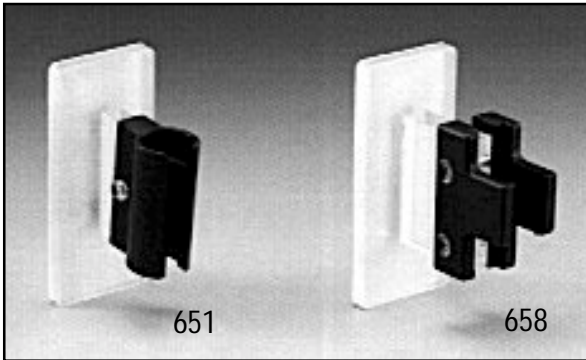


- Long-term high reliability.
- Designed to minimise noise generation.

Model	FV-10
Pumping power (l/min)	3.2
Ultimate pressure (mm Hg)	165
Power consumption (W)	5
Dimensions (mm) (D x W x H)	155 x 72 x 54
Weight (g)	600

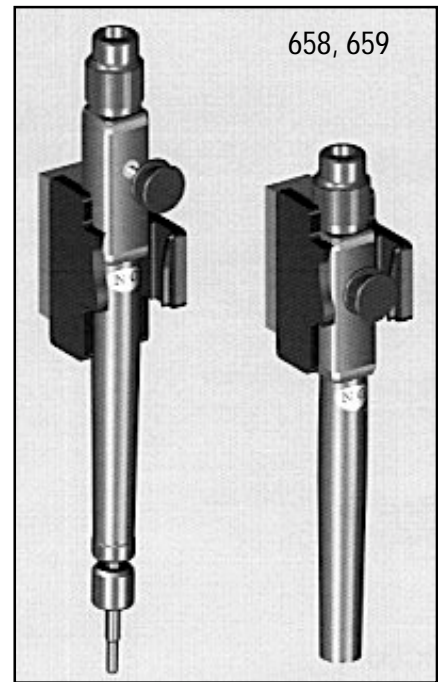
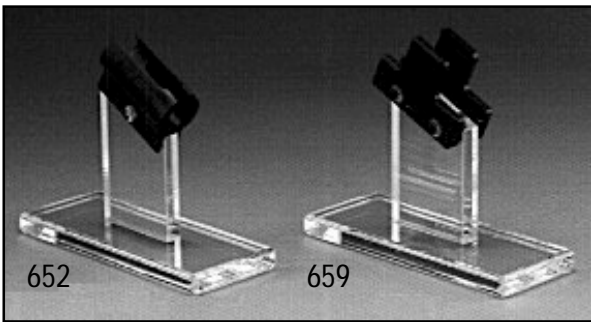
Stands

For use in vertical position



To be mounted on the wall with adhesive tape/screws.

For use in horizontal position

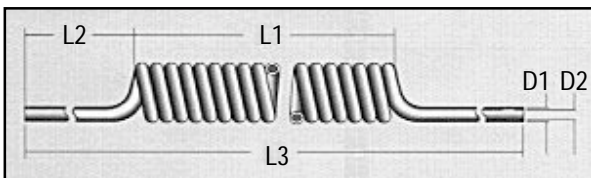


Model	Material	Body	
		C001 and F001	C002 and F002
651	Conductive nylon + acrylic resin	X	
652		X	
658*			X
659*			X

X, available.

*Vacuum turns on when removed from the stand and shuts off when returned.

Tubing



Model	Material	Size (mm)					Weight (g)
		D1	D2	L1	L2	L3	
851-L	Conductive polyurethane estermer	6	4	500	400	1900	118
851-M		5	3	500	400	1900	84

Accessories

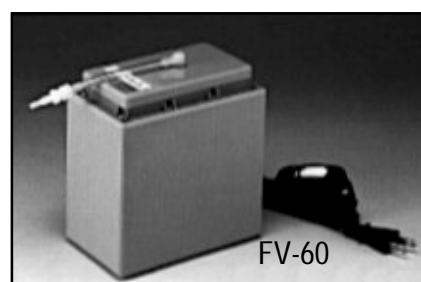
Vacuum pumps

FV-30, FV-60

- Oil-free for clean-room use.
- Long-term high reliability.
- Designed to minimise noise generation.

Specifications

Model	FV-30	FV-60
Pumping power (l/min)	2.5	2.5
Ultimate pressure (mm Hg)	300	600
Power consumption (W)	5	10
Dimensions (mm) (D x W x H)	132 x 76 x 67	140 x 80 x 140
Weight (g)	800	1900



Static-dissipative grounding kit

