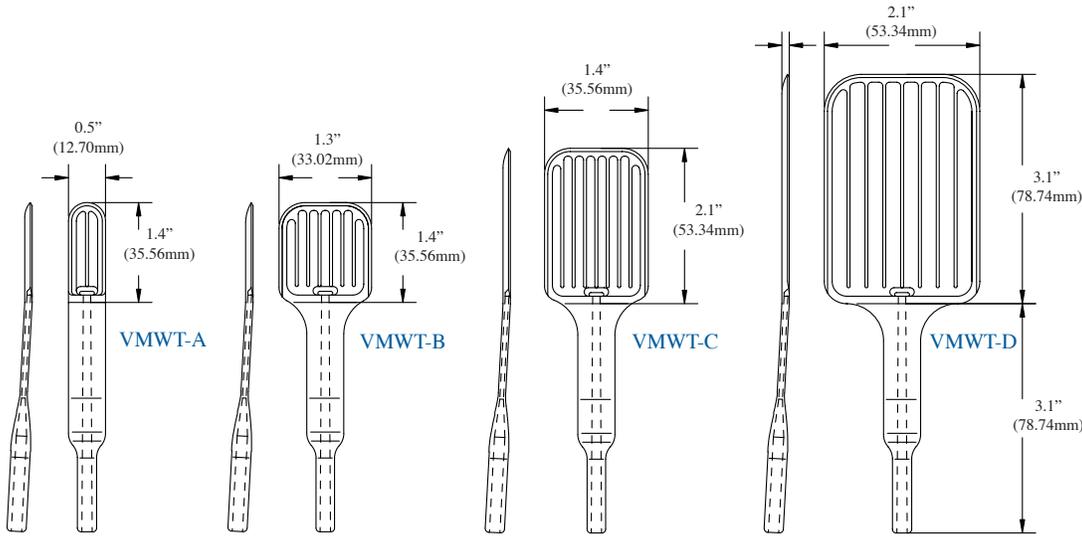


# WAFER TIPS

Press-Fit  
Molded Peek®



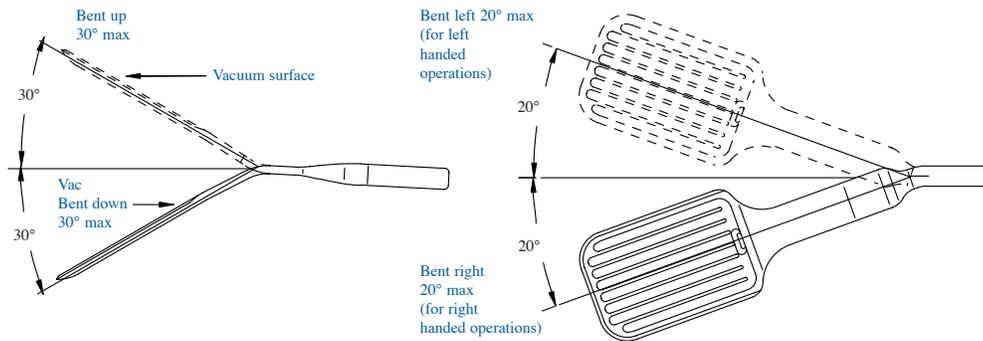
The PEEK® material selected for our molded wafer tips is an industry standard. They have excellent resistance to most chemicals. The non-sloughing carbon renders the wafer tips ESD safe. Excellent for applications up to 212°F (100°C).



## Molded Peek Wafer Tips

These Wafer Tips are molded from ESD safe PEEK plastic to handle wafers up to 100°C. The low profile of the wafer tip head provides easy access to wafers in industry standard boats. These tips attach to all of our wafer handling tools as well as competitive systems.

- VMWT-A** **BUY IT NOW** Recommended for handling up to 4" (100mm) wafers
- VMWT-B** **BUY IT NOW** Recommended for handling up to 6" (150mm) wafers
- VMWT-C** **BUY IT NOW** Recommended for handling up to 8" (200mm) wafers
- VMWT-D** **BUY IT NOW** Recommended for handling larger sized wafers, (no left/right angles available)



Molded Wafer Tips VMWT-A, VMWT-B and VMWT-C are available with a 10°, 20° or 30° bend in the up or down direction as shown in the left drawing above. To order a tip with the up or down bend, add the angle plus a "U" for up or a "D" for down to the part number. *EXAMPLE: Part number VMWT-A20D is a VMWT-A Wafer Tip with a 20 degree bend in the down direction. Custom angles are available upon request. Pricing is as above.*

Molded Wafer Tips VMWT-A, VMWT-B and VMWT-C are available with a 10° or 20° bend in the left or right direction as shown in the right drawing above. To order a tip with the left or right bend, add the angle plus a "L" for left or an "R" for right to the part number. *EXAMPLE: Part number VMWT-C20R is a VMWT-C Wafer Tip with a 20 degree bend in the right direction. Custom angles are available upon request. Pricing is as above.*

## Anti Rotate Adaptor

This adaptor is used with any of our PORTA-WAND "AR" series tools that have the pins protruding from the front end of the tool. The adaptor slides onto the front of the tool and engages the pins in one of eight possible positions to prevent rotation of the adaptor. A molded wafer tip can now be inserted into the front of the PORTA-WAND with the flat of the wafer tip engaging the slot in the adaptor. The wafer tip is now secure from rotating during wafer handling operations.

**VMWT-ADAPT-AR**  ESD-Safe Anti Rotate Tip Adaptor

PORTA-WAND "AR" Series with pins.

Adaptor slides on to front of tool engaging pins in one of eight positions of adaptor to prevent rotation.

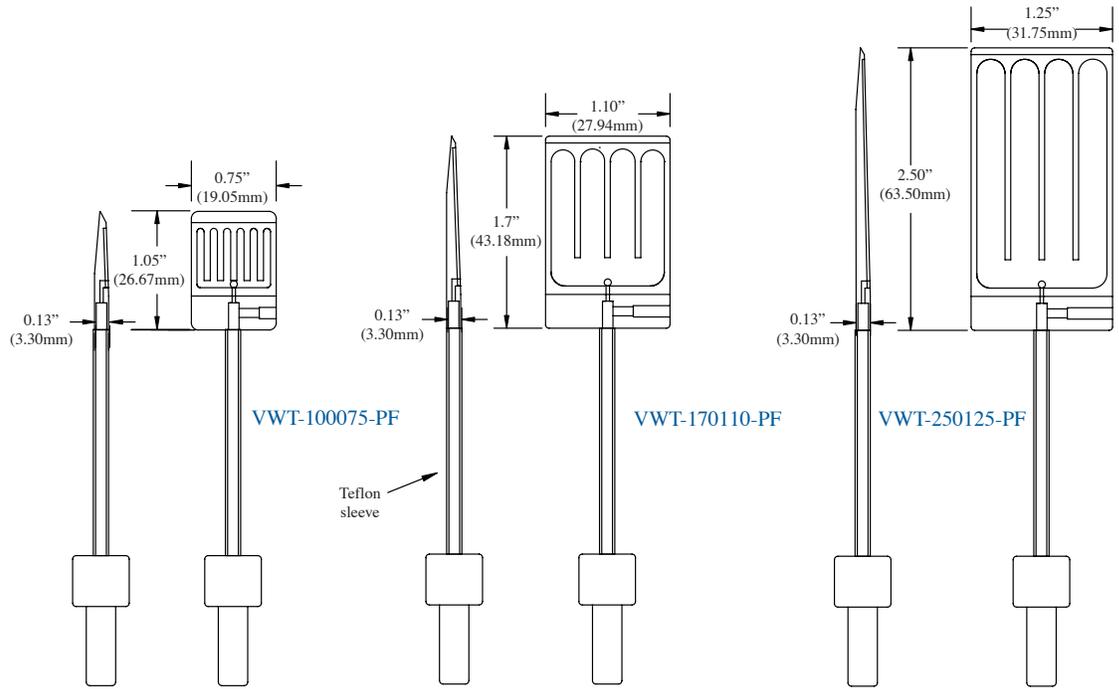
Wafer tips flat surface engages into the slot of the adaptor to prevent any rotation.



## WAFER TIPS

Press-Fit, High Temperature  
Teflon® Coated Aluminum

These wafer tips are precision machined from high grade aluminum and are coated with a high temperature teflon. They are excellent for handling applications up to 500°F (250°C).



### Teflon Coated Aluminum Wafer Tips

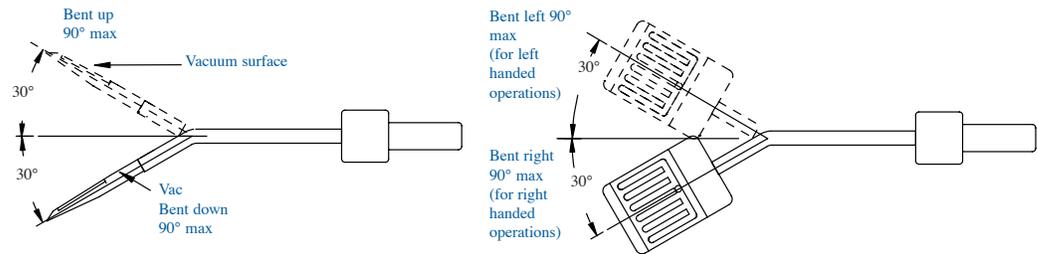
These Wafer Tips are Teflon coated aluminum for high temperature applications up to 250°C. The wafer handling tips come complete with a 3" (76.20mm) long, straight, stainless steel 0.094" (2.39mm) diameter tube and fitting to connect to press-fit wafer handling tools. See below for ordering special tube lengths and angles.

- VWT-100075-PF** **BUY IT NOW** Recommended for handling up to 4" (100mm) wafers
- VWT-170110-PF** **BUY IT NOW** Recommended for handling up to 6" (150mm) wafers
- VWT-250125-PF** **BUY IT NOW** Recommended for handling up to 8" (200mm) wafers

VWT-170110-PF

VWT-100075-PF-30R

VWT-100075-PF-30D



To order a longer tube length, up to 8" (203.20mm) long, add a "-XL" to the Wafer Tip part number where "X" is the total length of the tube desired. To specify an angle to be included on the tube, add a "-YD" to the part number where "Y" is the angle that is required.

These Wafer Tips are available with a 10°, 20° or 30° bend in the up or down direction as shown in the left drawing above. To order a tip with the up or down bend, add the angle plus a "U" for up or a "D" for down to the part number.

EXAMPLE: Part number VWT-100075-PF20D is a VWT-100075-PF wafer tip with a 20 degree bend in the down direction. Custom angles are available upon request.

These wafer tips are available with a 10° or 20° bend in the left or right direction as shown in the right drawing above. To order a tip with the left or right bend, add the angle plus a "L" for left or an "R" for right to the part number.

EXAMPLE: Part number VWT-100075-PF20R is a VWT-100075-PF wafer tip with a 20 degree bend in the right direction. Custom angles are available upon request.

### Series 3 PORTA-VAC® Kit With 300mm Wafer Tip

This wafer handling tool kit comes with one machined wafer tip as listed below. Ideal for handling wafers, disk media or any item that has a flat, hard surface. Easily lifts 300mm wafers. A disposable 9V battery is included. Rear exhaust of the pump air is standard on these units. The OPERATION INDICATOR turns on only when proper vacuum has been established to firmly grip the wafer. The same light flashes when the battery needs to be replaced or recharged. A switch setting on bottom of the tool allows selection of alkaline battery or NiMH battery discharge characteristics for the battery low indicator. A large on/off switch provides easy on/off control. An internal air filter (PV4000-FIL-5) is replaceable from the front of the tool. The Class 1 exhaust filter ensures clean operation. An optional rechargeable battery pack and in-stand charger are also available for this tool (see page 18 for details).

<b>PV4300-VWT5R</b>	Series 3 PORTA-VAC with wafer tip VWT-5R, handles up to 12" (300mm) wafers	\$ 1365.00
<b>PV4300-X</b>	Series 3 PORTA-VAC only, no wafer tip	\$ 1111.70



The Series 3 PORTA-VAC® vacuum handling tools are key to handling up to 300mm wafers. A safe vacuum level indicator illuminates only after vacuum is established between the wafer being handled and the wafer tip.

### Series 3 PORTA-VAC® Kit With Molded Peek Wafer Tip

Same tool as described above except it is provided with a MOLDED PEEK wafer tip. Ideal for handling wafers, disk media or any item that has a hard, flat surface.

<b>PV4300-MW4</b>	Series 3 PORTA-VAC with wafer tip VMWT-A, handles up to 4" (100mm) wafers	\$ 1175.30
<b>PV4300-MW6</b>	Series 3 PORTA-VAC with wafer tip VMWT-B, handles up to 6" (150mm) wafers	\$ 1175.30
<b>PV4300-MW8</b>	Series 3 PORTA-VAC with wafer tip VMWT-C, handles up to 8" (200mm) wafers	\$ 1175.30



SERIES 3  
PORTA-VAC®  
with Disposable  
9V Battery



300mm Wafer  
Handling Tip



### 300mm Wafer Handling Tip

Designed for safely handling 300mm wafers. The large five inch (127mm) outside diameter provides the support required to securely hold the large wafer. The center hole helps reduce the wafer tip weight and minimizes contact area. The dual press fit adapter provides both inner and outer o-ring gripping areas for added handling security. Now with anti-rotate tip.

<b>VWT-5R-AR</b>	\$ 324.50
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