

Sample Transfer & Manipulation

Wobble Sticks

Wobble Sticks

WBL wobble sticks offer a simple means of positioning samples in vacuum by permitting Z-axis and tilt movements. All stainless steel construction designed for use in high vacuum or UHV environments.

SPECIFICATIONS

Construction

Bellows: Welded stainless steel
Mounting flange: CF or NW
Shaft OD: 1/8 or 1/4 inch
Drive: Manually actuated

Motion: $\pm 22^\circ$ or $\pm 30^\circ$ tilt

Operating orientation: Any

Temperature range

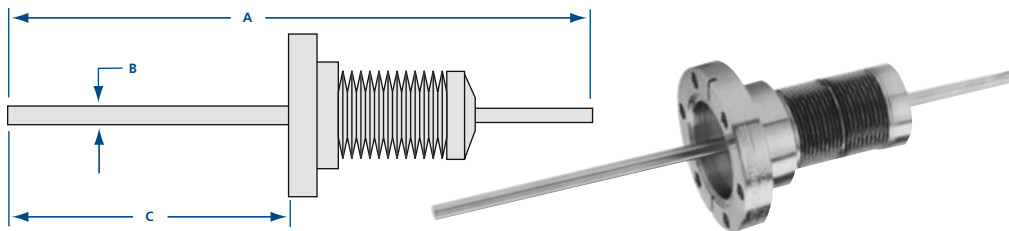
Metal seal: 450°C
Elastomer seal: 200°C

Vacuum range

Metal seal: $\geq 10^{-10}$ Torr (UHV)
Elastomer seal: $\geq 10^{-8}$ Torr (High Vacuum)

MODEL NUMBER	FLANGE TYPE	FLEX ANGLE*	A	B	MIN. - MAX. C
WBL-133	1.33 CF	$\pm 22^\circ$	6	0.12	3 - 3 1/2
WBL-275	2.75 CF	$\pm 30^\circ$	10	0.25	3 3/4 - 6
WBL-NW-16	NW-16	$\pm 22^\circ$	6	0.12	3 - 3 1/2
WBL-NW-40	NW-40	$\pm 30^\circ$	10	0.25	3 3/4 - 6

* Mating flange may restrict flexible angle



Rotary Wobble Sticks

RWS wobble sticks provide Z-axis, polar rotation, and polar axis tilt to allow tip positioning inside a vacuum chamber. They offer an inexpensive alternative for sample introduction and manipulation.

SPECIFICATIONS

Construction

Bellows: Welded stainless steel, independent for Z and theta
Mounting flange: 2 3/4 CF, clearance holes
Tip: Pre-fitted with hook
Drive: Manually actuated

Motion

Rotary: 360° probe rotation via rotary motion feedthrough
Linear: 4 or 8 inch stroke
Tilt: $\pm 22^\circ$

Operating orientation: Any

Temperature

Maximum bakeout: 200°C
Operating: 20°C (ambient)

Vacuum range: $\geq 10^{-10}$ Torr -UHV

Options: Single-jaw pincer (add "-PS" to model number), double-jaw Omicron and other pincers upon request

Guarantee: Five years

MODEL NUMBER	FLANGE TYPE	FLEX ANGLE*	Z STROKE
RWS-275-4	2.75 CF	$\pm 22^\circ$	4
RWS-275-8	2.75 CF	$\pm 22^\circ$	8

-PS Single Jaw Pincer Option Add -PS to model number

* Mating flange may restrict flexible angle

