

Wobble Stick, Linear-Angular Travel

Wobble stick feedthroughs offer an economical method of providing both angular and linear movement.

Position of the wobble stick must be manually held by the operator or customer provided position lock. Under vacuum load the bellows are compressed and the shaft is completely extended into the vacuum chamber, unless restrained.

The two models offered are capable of 44° (0.5-inch linear) and 60° (1-inch linear) of angular motion, respectively. However, when mounted on a typical necked port, the angular motion can be reduced to 20° and 30° respectively.

Feedthroughs are available on Conflat $^{\! \otimes}$ style CF metal seal or ISO-KF style elastomer seal flanges.

Features

- 1/2 Inch / 44° linear-angular travel
- 1 inch / 60° linear-angular travel
- UHV compatible construction
- Leak tight to 2 x 10⁻¹⁰ Std cc/sec Helium
- Conflat® and ISO compatible mounts
- Edge-welded bellows seal

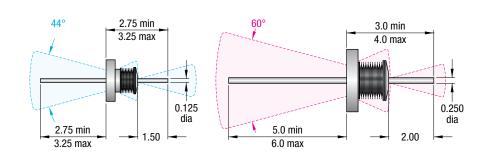
Specifications

Body, Stainless Steel	304
Bellows, Edge-Welded	AM-350
Vacuum Range	
UHV, Ultrahigh vacuum	1x10 ⁻¹⁰ Torr
HV, High vacuum	1x10 ⁻⁸ Torr
Temperature Range ¹	
Feedthrough	250°C
Flange, Conflat®	450°C
Flange, ISO	150°C
Load	
Axial, Maximum	5 lb
Lateral, Maximum at 2 inch from flange face	5 lb

Notes

- Overall assembly ratings must be adjusted to that of its lowest rated component. For cryogenic service, the lowest recommended temperature is -80°C
- § Unless specified otherwise, dimensional units in all sections of this catalog are expressed in inches.







111900 / UHV Wobble Stick

CF Flange¹ — Wobble Stick, Linear-Angular / 250°C / UHV to 1x10⁻¹⁰ Torr

2.73

Linear / Angular Travel	CF Flange	Flange OD	Bellows End Cap Diameter	Model Number	Part Number	Unit Price \$					
Ultrahigh Vacuum											
0.50 / 44°	133 CF	1.33	0.900	WS-133-050	111900	330					

1.750

WS-275-100

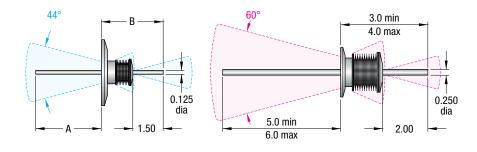
111901

360

275 CF 1. Compatible with Conflat® flanges and hardware

1.00 / 60°







ISO KF Flange¹ — Wobble Stick, Linear-Angular / 150°C / UHV to 1x10⁻⁸ Torr

	Linear / Angular Travel	ISO Flange	Flange OD	Min.	Max.	Max.	Min.	Bellows End Cap Dia.	Model Number	Part Number	Unit Price \$
High Vacuum											
	0.50 / 44°	NW16 KF	1.18	2.75	3.25	2.75	3.25	0.900	WS-K16-050	111902	320
	0.50 / 44°	NW40 KF	2.16	3.25	3.75	2.25	2.75	0.900	WS-K40-050	111903	345
	1.00 / 60°	NW40 KF	2.16	5.00	6.00	3.00	4.00	1.750	WS-K40-100	111904	360

^{1.} Compatible with ISO 2861/1 specification flanges and hardware

