



Accu-Glass Products' push-pull linear motion feedthroughs are designed to provide quick action linear motion. A knob is provided on the end of a stainless steel shaft to allow the operator to push the shaft in or out to the desired position. Linear movement is measured in 0.025-inch increments on the linear body scale, which is laser etched into the black anodized aluminum finish. The linear position can be locked at any point with a convenient thumb wheel located on the side of the body.

The push-pull feedthroughs are constructed of aluminum and stainless steel, where only stainless steel surfaces are exposed to the vacuum environment.

In-vacuum bearings are film lubricated with a UHV compatible Krytox[®] lubricant, while air side bearings are lubricated with high-temperature Krytox[®] lubricant. The linear shaft is sealed with an AM-350 edge-welded bellows.

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

Features

- Precision bearing guides no bushings
- 1 and 2 inch linear travel
- High temperature rated to 250°C
- UHV compatible construction
- Conflat[®] and ISO compatible mounts
- Edge-welded bellows seal
- Push-Pull actuator
- Linear position lock

Specifications

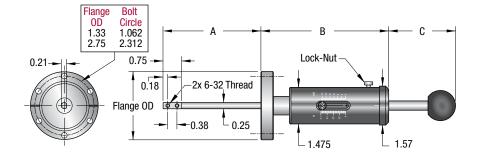
Material Body, Stainless Steel 304 Housing, Anodized Aluminum 2011 Bellows, Edge-Welded AM-350 Vacuum Range 1x10-10 Torr UHV, Ultrahigh vacuum HV, High vacuum 1x10⁻⁸ Torr Temperature Range 1 Feedthrough ² 250°C Flange, Conflat® 450°C Flange, ISO 150°C Load 5 lb Axial, Maximum Lateral, Maximum at 2 inch from flange face 5 lb Resolution Linear Scale 0.025 Inch

Notes

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

Push-Pull, Linear Travel UHV and HV Feedthroughs





CF Flange¹ — Push-Pull Linear/ 250°C / UHV to 1x10⁻¹⁰ Torr

Lincor	Flongo	Flongo	A		C			Model	Part	Unit Price	
Linear Travel	Flange Model	Flange OD	Min.	Max.	В	Max.	Min.	Number	Number	\$	
Ultrahigh Vacuum											
1	133 CF	1.33	3.55	4.55	5.00	3.62	2.62	PHTL-133-1	112050	640	
1	275 CF	2.73	3.55	4.55	5.00	3.62	2.62	PHTL-275-1	112051	650	
2	133 CF	1.33	3.55	4.55	6.40	4.50	2.50	PHTL-133-2	112052	790	
2	275 CF	2.73	3.55		6.40	4.50	2.50	PHTL-275-2	112053	800	

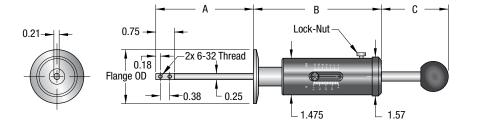
1. Compatible with Conflat® flanges and hardware



112050 / Linear Push-Pull on a 1.33" CF Flange



112052 / Linear Push-Pull on a 1.33" CF Flange



ISO KF Flange¹ — Push-Pull Linear / 150°C / HV to 1x10⁻⁸ Torr

Linear	Flange	Flange	Α		C			Model	Part	Unit Price	
Travel	Model	OD	Min.	Max.	В	Max.	Min.	Number	Number	\$	
High Vacuum											
1	NW16 KF	1.18	3.50	4.50	5.06	3.62	2.62	PHTL-K16-1	112055	640	
1	NW40 KF	2.16	3.60	4.60	4.96	3.62	2.62	PHTL-K40-1	112056	650	
2	NW16 KF	1.18	3.50	5.50	6.46	4.50	2.50	PHTL-K16-2	112057	790	
2	NW40 KF	20	3.60		6.36		2.50	PHTL-K40-2	112058	800	

1. Compatible with ISO 2861/1 specification flanges and hardware



112055 / Linear Push-Pull on a NW-16 KF Flange



112056 / Linear Push-Pull on a NWK40 KF Flange