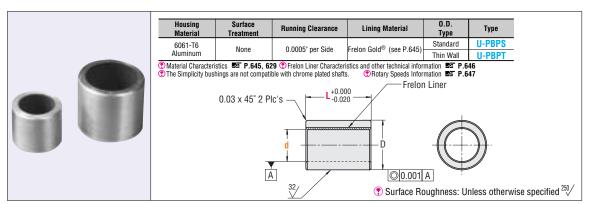
# Simplicity® -Sleeve Bushings-

The Simplicity® Sleeve Bushings are available with Freion Gold® liner that is designed to work with Case Hardened Steel or feather shaft. The Simplicity® Frelon Gold® Bushings are not compatible with chrome plated shafts. They can be used with linear motion as well as oscillating applications.



#### Standard O.D

Otaniaara C.D.																	
	Part	No.			Ĺ								D				
Type		(	i			Selection								_			
Туре	Callout Nominal		Tolerance		1/4	1/4 3/8 1/2		3/4	1"	1-1/2	2"	Nominal	Tole	ance	(Qty. 1~9)		
	0.19	3/16	0.1900	0.1890	0.25		0.50					5/16	0.3145	0.3135	6.50		
	0.25	1/4	0.2525	0.2515	0.25	0.38	0.50					3/8	0.3770	0.3760	6.70		
	0.38	3/8	0.3775	0.3765			0.50	0.75				5/8	0.6270	0.6260	7.80		
	0.50	1/2	0.5025	0.5015			0.50	0.75	1.00			3/4	0.7520	0.7510	8.70		
U-PBPS	0.63	5/8	0.6275	0.6265				0.75	1.00			7/8	0.8770	0.8760	10.00		
	0.75	3/4	0.7525	0.7515					1.00			1"	1.0020	1.0010	11.00		
	1.00	1"	1.0025	1.0015						1.50		1-1/4	1.2520	1.2510	15.00		
	1.25	1-1/4	1.2525	1.2515							2.00	1-1/2	1.5020	1.5010	22.80		
	1.50	1-1/2	1.5025	1.5015							2.00	1-3/4	1.7520	1.7510	25.40		

#### Thin Wall

				L		\$ Unit Price									
_				Sele	ction		\$ UIIIL I LICE								
Туре	Callout	Nominal	Tolerance		3/8	1/2	5/8	3/4	1" 1-1/2 N		Nominal	Tolei	ance	(Qty. 1~9)	
	0.38	3/8	0.3775	0.3765	0.38	0.50		0.75			1/2	0.5020	0.5010	12.10	
	0.50	1/2	0.5025	0.5015		0.50	0.63	0.75	1.00		11/16	0.6895	0.6885	13.60	
U-PBPT	0.63	5/8	0.6275	0.6265			0.63	0.75	1.00		13/16	0.8145	0.8135	15.50	
	0.75	3/4	0.7525	0.7515				0.75	1.00		15/16	0.9395	0.9385	16.30	
	1.00	1"	1.0025	1.0015					1.00	1.50	1-3/16	1.1895	1.1885	24.90	



Part No.

Type U-PBPS 0.50 — L1.00

The part number consists only of the fields with blue characters. 💿 Please refer to the table below for technical information. The recommended housing bore (Slip Fit and Epoxy) for all thin wall bushings is +0.002/+0.003 from nominal dimension.

## Technical Information

(	i			Ma	iximum Sta	atic Load (	lbs)			Recommended Housing Bore (Standard O.D.)				
Callout	Nominal				Slip Fit	& Epoxy	Press Fit							
Gallout		1/4	3/8	1/2	5/8	3/4	1"	1-1/2	2"	Tole	rance	Tolerance		
0.19	3/16	130		272						0.3155	0.3145	0.3130	0.3125	
0.25	1/4	174	268	362						0.3780	0.3770	0.3755	0.3750	
0.38	3/8		405	542		824				0.6280	0.6270	0.6255	0.6250	
0.50	1/2			722	910	1098	1474			0.7530	0.7520	0.7505	0.7500	
0.63	5/8				1140	1372	1842			0.8780	0.8770	0.8755	0.8750	
0.75	3/4					1650	2210			1.0030	1.0020	1.0000	0.9995	
1.00	1"						2950	4446		1.2530	1.2520	1.2500	1.2490	
1.25	1-1/4								7434	1.5030	1.5020	1.5000	1.4990	
1.50	1-1/2								8918	1.7530	1.7520	1.7500	1.7490	







#### INSTALLATION INSTRUCTIONS:

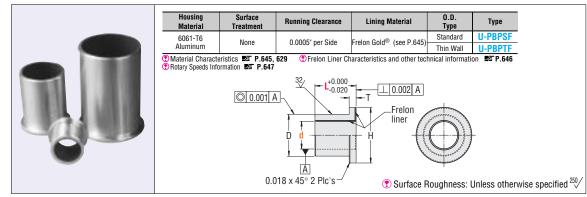
### Slip Fit and Epoxy

Slip the bearing sleeve into the housing and epoxy into place with Loctite® or similar type bonding agent. CAUTION: Do NOT let any of the adhesive touch the bearing liner. It will harden and interfere with the running clearance.

Freeze the bearings at 0° F (-17.75°C) for 30~45 minutes. Using gloves, remove the bearings from the freezer and slip them into the housing. As they heat to room temperature, full contact between the bearing and housing will be achieved. The greatest advantage to this technique over traditional pressing is greater accuracy in alignment.

# Simplicity® –Sleeve Bushings with Flange–

The Simplicity® Sleeve Flanged Bushings are available with Frelon Gold® liner that is designed to work with Case Hardened Steel or feather shaft. The Simplicity® Bushings are not compatible with currently placed shades. They have additionable as well used as rotary thrust unit in combination with linear motion. Can be used in rotary motion applications as well. Simplicity® Bushings are not compatible with chrome plated shafts. They have additional frelon liner on the face of the flanged portion that may be



#### Standard O.D.

Part No.						L								D			\$ Unit Price
Туре		(	İ		Selection							, J			•		
Type	Callout Nominal Tolerance		1/4 3/8 1/2 3/4		1"	1-1/2	2"	Nominal	l Tolerance		Max.	Max.	(Qty. 1~9)				
	0.19	3/16	0.1900	0.1890	0.25							5/16	0.3145	0.3135	0.0625	0.4370	
	0.25	1/4	0.2525	0.2515	0.25	0.38	0.50					3/8	0.3770	0.3760	0.0625	0.5000	
	0.38	3/8	0.3775	0.3765			0.50	0.75				5/8	0.6270	0.6260	0.1250	0.8750	10.30
	0.50	1/2	0.5025	0.5015			0.50	0.75	1.00			3/4	0.7520	0.7510	0.1250	1.0000	11.60
U-PBPSF	0.63	5/8	0.6275	0.6265				0.75	1.00			7/8	0.8770	0.8760	0.1250	1.0000	13.50
	0.75	3/4	0.7525	0.7515					1.00			1"	1.0020	1.0010	0.1250	1.2500	13.80
	1.00		1.0025							1.50		1-1/4	1.2520	1.2510	0.1250	1.5000	
	1.25		1.2525								2.00	1-1/2		1.510			
	1.50	1-1/2	1.5025	1.5015							2.00	1-3/4	1.7520	1.7510	0.1250	2.0000	33.80

#### Thin Wall

IIIIII Wali	a min wan															
	Ĺ							n		т	ш	\$ Unit Price				
Tyno		(	j		Selection							U		•	"	•
Туре	Callout Nominal		Toler	ance	3/8	1/2	5/8 3/4 1		1"	1-1/2	Nominal	l Tolerance		Max.	Max.	(Qty. 1~9)
	0.38	3/8	0.3775	0.3765	0.38	0.50		0.75			1/2	0.5020	0.5010	0.1250	0.8750	16.00
	0.50	1/2	0.5025	0.5015		0.50	0.63	0.75	1.00		11/16	0.6895	0.6885	0.1250	1.0000	18.20
U-PBPTF	0.63	5/8	0.6275	0.6265			0.63	0.75	1.00		13/16	0.8145	0.8135	0.1250	1.0000	20.60
	0.75	3/4	0.7525	0.7515				0.75	1.00		15/16	0.9395	0.9385	0.1250	1.2500	22.00
	1.00	1"	1.0025	1.0015					1.00	1.50	1-3/16	1.1895	1.1885	0.1250	1.5000	33.60



The part number consists only of the fields with blue characters. 🔹 Please refer to the table below for technical information. The recommended housing bore (Slip Fit and Epoxy) for all thin wall bushings is +0.002/+0.003 from nominal dimension.



## U-PBPS 0.50 - L1.00 Technical Information

C				Ma	Recommended Housing Bore (Standard O.D.)								
Callout	Nominal					& Epoxy		Press Fit					
	Nomina	1/4	3/8	1/2	5/8	3/4	1"	1-1/2	1-1/4	Tolei	rance	Tolerance	
0.19	3/16	130								0.3155	0.3145	0.3130	0.3125
0.25	1/4	174	268	362						0.3780	0.3770	0.3755	0.3750
0.38	3/8		405	542		824				0.6280	0.6270	0.6255	0.6250
0.50	1/2			722	910	1098	1474			0.7530	0.7520	0.7505	0.7500
0.63	5/8				1140	1372	1842			0.8780	0.8770	0.8755	0.8750
0.75	3/4					1650	2210			1.0030	1.0020	1.0000	0.9995
1.00	1"						2950	4446		1.2530	1.2520	1.2500	1.2490
1.25	1-1/4								7434	1.5030	1.5020	1.5000	1.4990
1.50	1-1/2								8918	1.7530	1.7520	1.7500	1.7490





#### Quantity Discount Rate Quantity 1~9 10~29 30~49 50~ Price - 2% 3% 5% Rate For larger quantity orders "Days to Ship" may differ from published catalog term. Ex P.29

#### INSTALLATION INSTRUCTIONS:

### Slip Fit and Epoxy

TEL.1-847-843-9105 FAX.1-847-843-9107 TOLL FREE TEL.1-800-681-7475 TOLL FREE FAX.1-800-681-7402

Slip the bearing sleeve into the housing and epoxy into place with Loctite® or similar type bonding agent. CAUTION: Do NOT let any of the adhesive touch the bearing liner. It will harden and interfere with the running clearance.

Freeze the bearings at 0° F (-17.75°C) for 30~45 minutes. Using gloves, remove the bearings from the freezer and slip them into the housing. As they heat to room temperature, full contact between the bearing and housing will be achieved. The greatest advantage to this technique over traditional pressing is greater accuracy in alignment.





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