

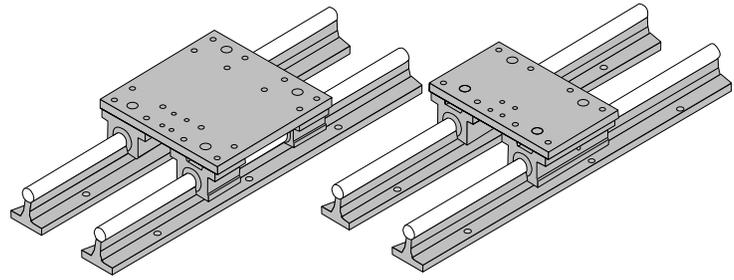
# FluoroNyliner 1VC

## Linear Guide #5

with Table Top

**Corrosive/Contaminated Environments**

**INCH**



**Double Continuously Supported Linear Guide with 4 Pillow Blocks and Size B Table Top**

Load Rating and Limit by Direction	
$F_c$	$F_t$
Dynamic Load Rating	Load Limit
$F_c$ PV	PV
$F_t$ 0.3PV	0.3PV
$F_s$ 0.6PV	0.6PV

Dynamic Load Rating  
PV value used in life calculation.  
Load Limit  
Maximum allowable PV applied to bearing.

**Double Continuously Supported Linear Guide with 2 Twin Pillow Blocks and Size A Table Top**

**FluoroNyliner\* Linear Guide 1VC Double Continuously Supported with 4 Pillow Blocks and Table Top (size B)** (Dimensions in inches)

Part Number	Nominal Diameter	T1	T	H	B	B2	Maximum Stroke Length	Pillow Block	Shaft Support Rail Assembly
<b>1VC-08-FAB</b>	.50	5.5	5.5	2.187	4.75	3.25	L-(5.5)	FNYBUPBO08A-XS	SRA-8-XS-SS
<b>1VC-12-FAB</b>	.75	7.5	7.5	2.937	6.25	4.50	L-(7.5)	FNYBUPBO12A-XS	SRA-12-XS-SS
<b>1VC-16-FAB</b>	1.00	9.0	9.0	3.437	7.63	5.50	L-(9.0)	FNYBUPBO16A-XS	SRA-16-XS-SS
<b>1VC-20-FAB</b>	1.25	11.0	11.0	4.375	9.25	6.75	L-(11.0)	FNYBUPBO20A-XS	SRA-20-XS-SS
<b>1VC-24-FAB</b>	1.50	13.0	13.0	5.000	11.00	8.00	L-(13.0)	FNYBUPBO24A-XS	SRA-24-XS-SS

**FluoroNyliner Linear Guide 1VC Double Continuously Supported with 2 Twin Pillow Blocks and Table Top (size A)** (Dimensions in inches)

Part Number	Nom. Dia.	T2	T	H	B	B2	Maximum Stroke Length	Pillow Block	Shaft Support Rail Assembly
<b>1VC-08-HAA</b>	.50	3.5	5.5	2.187	4.75	3.25	L-(3.5)	FNYBUTWNO08A-XS	SRA-8-XS-SS
<b>1VC-12-HAA</b>	.75	4.5	7.5	2.937	6.25	4.50	L-(4.5)	FNYBUTWNO12A-XS	SRA-12-XS-SS
<b>1VC-16-HAA</b>	1.00	6.0	9.0	3.437	7.63	5.50	L-(6.0)	FNYBUTWNO16A-XS	SRA-16-XS-SS
<b>1VC-20-HAA</b>	1.25	7.5	11.0	4.375	9.25	6.75	L-(7.5)	FNYBUTWNO20A-XS	SRA-20-XS-SS
<b>1VC-24-HAA</b>	1.50	9.0	13.0	5.000	11.00	8.00	L-(9.0)	FNYBUTWNO24A-XS	SRA-24-XS-SS

**Maximum Operating Parameters per Bearing**

Characteristic	Limit
Liner Temperature Range	-240° C to 288° C (-400° F to 550° F)
Velocity, dry	42.7 m/min. Continuous
Velocity, dry	122 m/min. Intermittent
Velocity, lubricated	122 m/min. Continuous
Pressure	10.35 MPa
PV	21 MPa/m/min

## FluoroNyliner\* Linear Guide 1VC Benefits:

- Requires only one part number to specify the entire linear guide.
- Includes table top with standard tapped holes for quick and easy mounting of the work piece.
- Includes Ball Screw Assembly attachment holes for ease of assembly and actuation.
- Used in continuously supported applications when rigidity is required.

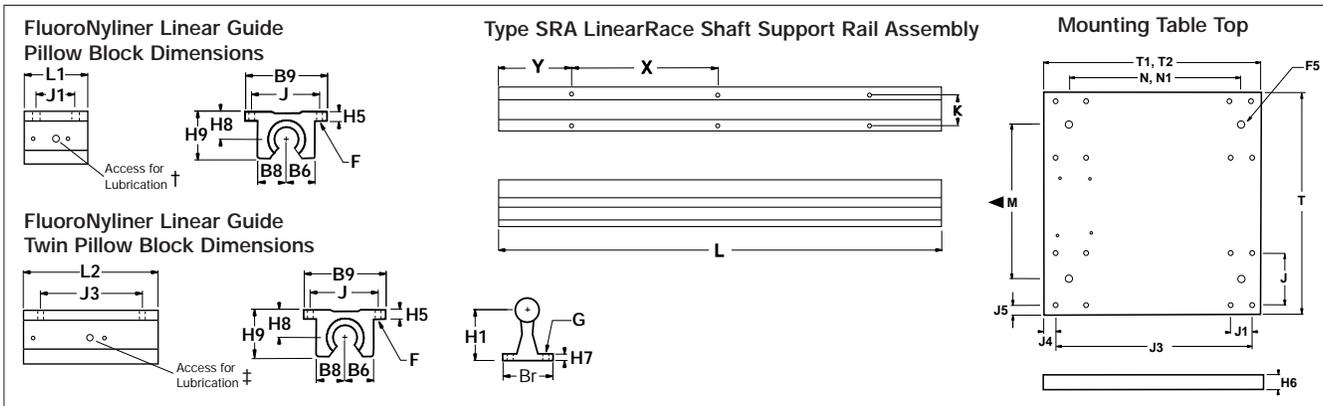
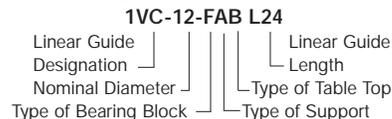
## FluoroNyliner Linear Guide 1VC Components:

- 4 self-aligning FluoroNyliner polymer linear guides open type pillow blocks or 2 self-aligning FluoroNyliner open twin pillow blocks.
- 2 stainless steel 60 Case\* LinearRace\* Shaft Support Rail Assemblies.
- 1 mounting table top with work piece and Ball Screw Assembly attachment holes.

### Specifying a Thomson Linear Guide:

1. Determine the proper system for your load and life requirements.
2. Select the part number.
3. Add the letter "L" followed by the overall length in inches, as a suffix to the part number.

### Part Numbering System



Self-Aligning Pillow Blocks (Dimensions in inches)													
Part Number	Nom. Dia.	L1	H9	H8	H5	B9	B8	B6	J	J1	F		Wt. lb
											Bolt	Hole	
FNYBUPBO08A-XS	.50	1.50	1.12	.687	.25	2.00	.75	.69	1.69	1.00	#6	.16	.20
FNYBUPBO12A-XS	.75	1.88	1.56	.937	.31	2.75	1.00	.94	2.38	1.25	#8	.19	.51
FNYBUPBO16A-XS	1.00	2.63	2.00	1.187	.38	3.25	1.25	1.19	2.88	1.75	#10	.22	1.03
FNYBUPBO20A-XS	1.25	3.38	2.56	1.500	.43	4.00	1.63	1.50	3.50	2.00	#10	.22	2.15
FNYBUPBO24A-XS	1.50	3.75	2.94	1.750	.50	4.75	1.88	1.75	4.12	2.50	1/4	.28	3.29

Housing Material: Aluminum Alloy Black Anodized

Self-Aligning Twin Pillow Blocks				
Part Number	Nom. Dia.	L2	J3	Wt. lb
FNYBUTWNO08A-XS	.50	3.5	2.5	.40
FNYBUTWNO12A-XS	.75	4.5	3.5	1.02
FNYBUTWNO16A-XS	1.00	6.0	4.5	2.06
FNYBUTWNO20A-XS	1.25	7.5	5.5	4.30
FNYBUTWNO24A-XS	1.50	9.0	6.5	6.88

Housing Material: Aluminum Alloy Black Anodized

Type SRA LinearRace Shaft Support Rail Assembly (Dimensions in inches)										
Part Number	Nom. Dia.	H1	H7	Br	K	X	Y	G		Wt. lb/ft
								Bolt	Hole	
SRA- 8-XS-SS	.50	1.125	.19	1.50	1.00	4	2	#6	.17	1.26
SRA-12-XS-SS	.75	1.500	.25	1.75	1.25	6	3	#10	.22	2.50
SRA-16-XS-SS	1.00	1.750	.25	2.13	1.50	6	3	1/4	.28	4.06
SRA-20-XS-SS	1.25	2.125	.31	2.50	1.88	6	3	5/16	.34	6.30
SRA-24-XS-SS	1.50	2.500	.38	3.00	2.25	8	4	5/16	.34	8.60

LinearRace Shaft Support Rail Material: Aluminum Alloy Black Anodized

Maximum length of LinearRace Shaft Support Rail is 72 inches. If longer continuous one-piece LinearRace Shaft Support Rails are required, contact the Thomson Linear Guides application engineering department.

Mounting Table Top (Dimensions in inches)															
Nominal Diameter	All Table Tops					Table Top Size B					Table Top Size A				
	T	M	J	H6	F5	T1	J1	J4	J5	N	T2	J3	J4	J5	N1
.50	5.5	3.25	1.69	.375	1/4-20	5.5	1.00	.34	.28	4.5	3.5	2.5	.50	.31	2.5
.75	7.5	4.50	2.38	.500	5/16-18	7.5	1.25	.41	.31	6.0	4.5	3.5	.50	.31	3.0
1.00	9.0	5.50	2.88	.500	3/8-16	9.0	1.75	.53	.31	7.0	6.0	4.5	.75	.31	4.0
1.25	11.0	6.75	3.50	.750	1/2-13	11.0	2.00	.82	.38	8.5	7.5	5.5	1.00	.38	5.0
1.50	13.0	8.00	4.12	.750	1/2-13	13.0	2.50	.75	.44	10.0	9.0	6.5	1.25	.44	6.0

Material: Aluminum Alloy Black Anodized

**Performance Note:** For detailed explanations of FluoroNyliner Linear Guide Dynamic and Static Load Capacities, Frictional Characteristics, Wear Rates, Speeds, and Life Expectancy please contact Thomson Linear Guides Applications Engineering department.

**Product Note:** FluoroNyliner linear guides are shipped free of all lubricants. It is the responsibility of the product user to determine lubricant compatibility with the FluoroNyliner bearing material.

**Product Options:** FluoroNyliner linear guides are available with various inner race materials and platings to accommodate different environments.