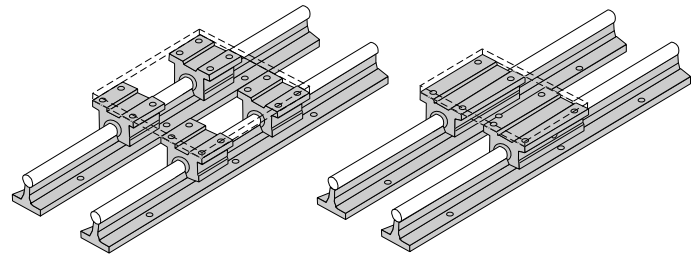


# FluoroNyliner 1VB

## Linear Guide #5

Corrosive/Contaminated  
Environments



**INCH**

**Double Continuously Supported Linear Guide with 4 Pillow Blocks**

**Load Rating and Limit by Direction**

	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**

**FluoroNyliner\* Linear Guide 1VB Double Continuously Supported with 4 Pillow Blocks** (Dimensions in inches)

Part Number	Nominal Diameter	L1	H	Br	B9	Pillow Block	Shaft Support Rail Assembly
1VB-08-FAO	.50	1.50	1.812	1.50	2.00	FNYBUPBO08A-XS	SRA-8-XS-SS
1VB-12-FAO	.75	1.88	2.437	1.75	2.75	FNYBUPBO12A-XS	SRA-12-XS-SS
1VB-16-FAO	1.00	2.63	2.937	2.13	3.25	FNYBUPBO16A-XS	SRA-16-XS-SS
1VB-20-FAO	1.25	3.38	3.625	2.50	4.00	FNYBUPBO20A-XS	SRA-20-XS-SS
1VB-24-FAO	1.50	3.75	4.250	3.00	4.75	FNYBUPBO24A-XS	SRA-24-XS-SS

**FluoroNyliner Linear Guide 1VB Double Continuously Supported with 2 Twin Pillow Blocks** (Dimensions in inches)

Part Number	Nominal Diameter	L2	H	Br	B9	Maximum Stroke Length	Pillow Block	Shaft Support Rail Assembly
1VB-08-HAO	.50	3.5	1.812	1.50	2.00	L-(3.5)	FNYBUTWNO08A-XS	SRA-8-XS-SS
1VB-12-HAO	.75	4.5	2.437	1.75	2.75	L-(4.5)	FNYBUTWNO12A-XS	SRA-12-XS-SS
1VB-16-HAO	1.00	6.0	2.937	2.13	3.25	L-(6.0)	FNYBUTWNO16A-XS	SRA-16-XS-SS
1VB-20-HAO	1.25	7.5	3.625	2.50	4.00	L-(7.5)	FNYBUTWNO20A-XS	SRA-20-XS-SS
1VB-24-HAO	1.50	9.0	4.250	3.00	4.75	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 1VB Benefits:

- Requires only one part number to specify the entire linear guide.
- Allows for custom table mounting.
- Used in continuously supported applications when rigidity is required.

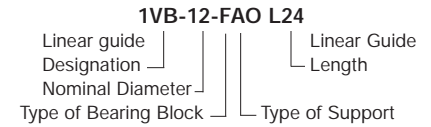
## FluoroNyliner Linear Guide 1VB Components:

- 4 self-aligning FluoroNyliner\* Bushing bearing open pillow blocks or 2 self-aligning FluoroNyliner Bushing bearing open twin pillow blocks.
- 2 Stainless Steel 60 Case\* LinearRace\* Shaft Support Rail Assemblies.

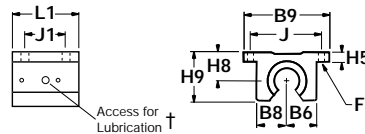
### Specifying a Thomson Linear Guide:

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

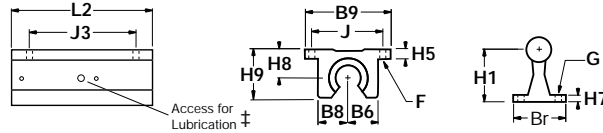
### Part Numbering System



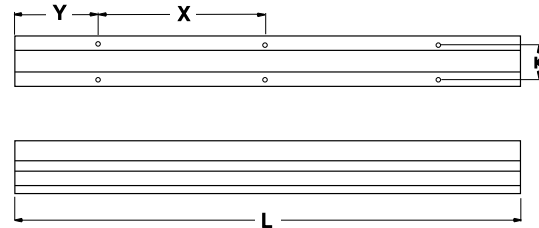
### FluoroNyliner Linear Guide Pillow Block Dimensions



### FluoroNyliner Linear Guide Twin Pillow Block Dimensions



### Type SRA LinearRace Shaft Support Rail Assembly



### Self-Aligning Pillow Blocks (Dimensions in inches)

Part Number	Nom. Dia.	L1	H9	H8	H5	B9	B8	B7	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	.500	3.50	2.50	.40
FNYBUTWNO12A-XS	.750	4.50	3.50	1.02
FNYBUTWNO16A-XS	1.00	6.00	4.50	2.06
FNYBUTWNO20A-XS	1.25	7.50	5.50	4.30
FNYBUTWNO24A-XS	1.50	9.00	6.50	6.88

Housing 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.

### 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 Support Rail Material: Aluminum Alloy Black Anodized

Maximum length of LinearRace shaft support rail is 72 inches. If longer continuous one-piece LinearRace Support Rails are required, contact the Thomson Linear Guide Application Engineering department.