RING & BUSHING MOUNTS

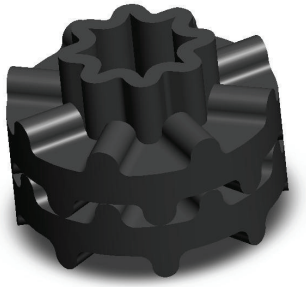
All-elastomer ring and bushing isolators are versatile, low cost mounts that can satisfy many vibration control problems. They are lightweight, rugged and can be integrated directly into structural components. Multiple isolators can be stacked in parallel for greater load carry capability or in series to increase deflection capability. Standard material offerings are natural rubber, other materials are available upon request.

Features:

- Compact, lightweight Design
- Fail-safe design when used with snubbing washers
- Efficiently isolates vibration in all directions

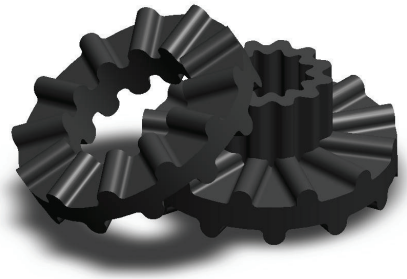
Low profile mounts are available in four sizes with load ratings from 4 to 350 lbs.

- 1401 Size: Load ratings from 4 to 12 lb
- 1402 Size: Load ratings from 20 to 35 lb
- 1403 Size: Load ratings from 35 to 75 lb
- 1404 Size: Load ratings from 120 to 350 lb



VIB1401

VIB1403



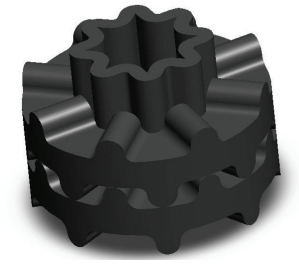
VIB1402

VIB1404

RING & BUSHING MOUNTS VIB1401 SERIES

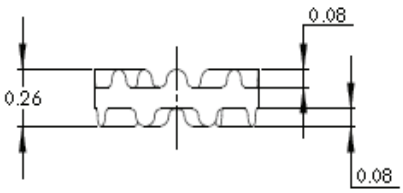
PRODUCT SPECIFICATIONS

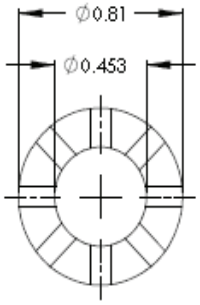
Operating Temperature: -40 to +180 F
Maximum Transmissibility at Resonance: 10.0
Load Capacity: 6 – 12 lb
Axial-Radial Stiffness Ratio: 1:0.4
Part Weight: Less than 1 oz
Materials: Elastomer: Natural Rubber



All-elastomer ring & bushings are intended to be mounted in an axial orientation.

RING

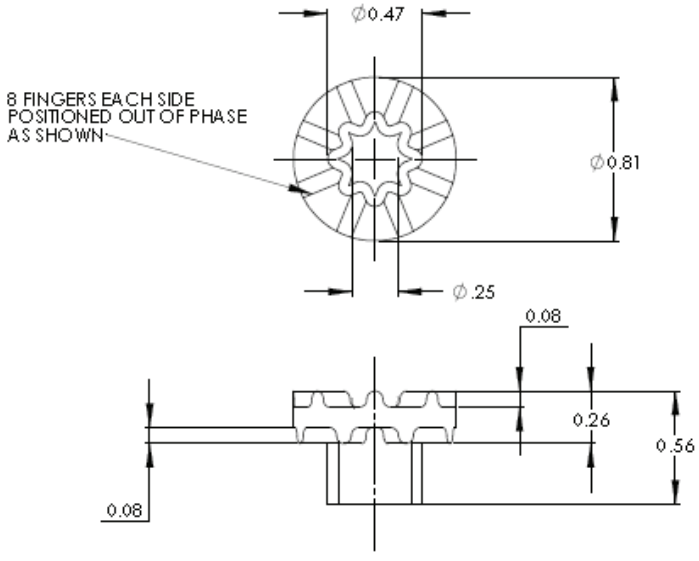




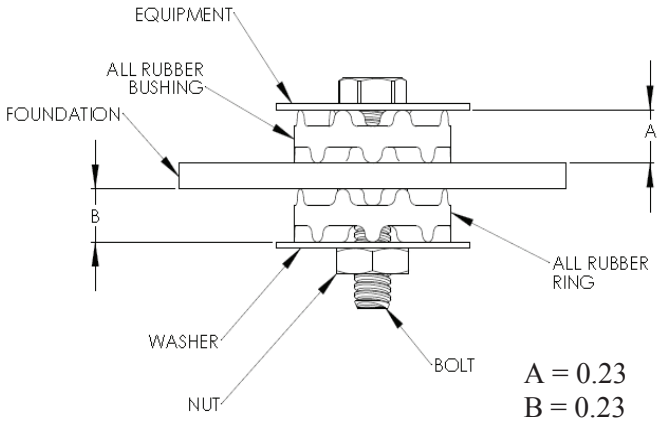
Assembly	Min Load	Max Load	Axial Natural Frequency	Dynamic Axial Spring Rate		Dynamic Radial Spring Rate	
	lbs	lbs	Hz	lb/in	N/mm	lb/in	N/mm
VIB1401-1R/ VIB1401-1B	1	4	18	132	23	53	9
VIB1401-2R/ VIB1401-2B	2	6		198	35	79	14
VIB1401-3R/ VIB1401-3B	3	8		265	47	106	19
VIB1401-4R/ VIB1401-4B	5	12		397	70	159	28

*Fn at max rated load and .036 inch DA input
To correct for loads lower than rated load use:
$F_n = F_{nn} * \sqrt{P_r/P_a}$
Where:
Fn: Natural Frequency at actual load (Hz)
Fnn: Nominal Natural Frequency (Hz)
Pr: Rated load
Pa: Actual load

BUSHING



TYPICAL INSTALLATION



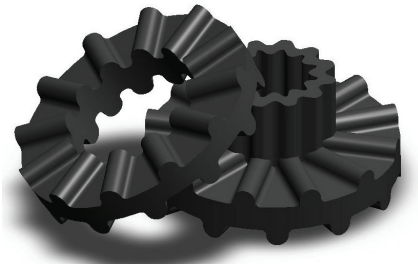
A = 0.23
B = 0.23

RING & BUSHING MOUNTS VIB1402 SERIES

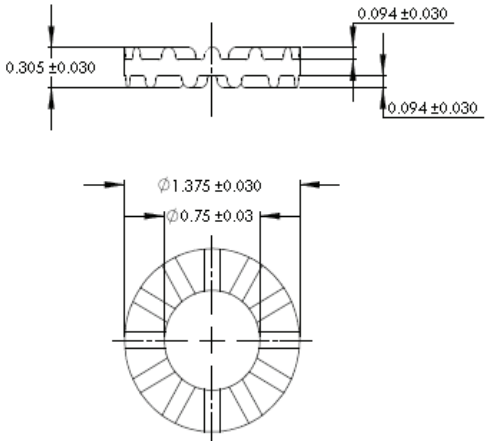
PRODUCT SPECIFICATIONS

Operating Temperature: -40 to +180 F
Maximum Transmissibility at Resonance: 10.0
Load Capacity: 20 – 35 lb
Axial-Radial Stiffness Ratio: 1:0.4
Part Weight: Less than 1 oz
Materials: Elastomer: Natural Rubber

All-elastomer ring & bushings are intended to be mounted in an axial orientation.



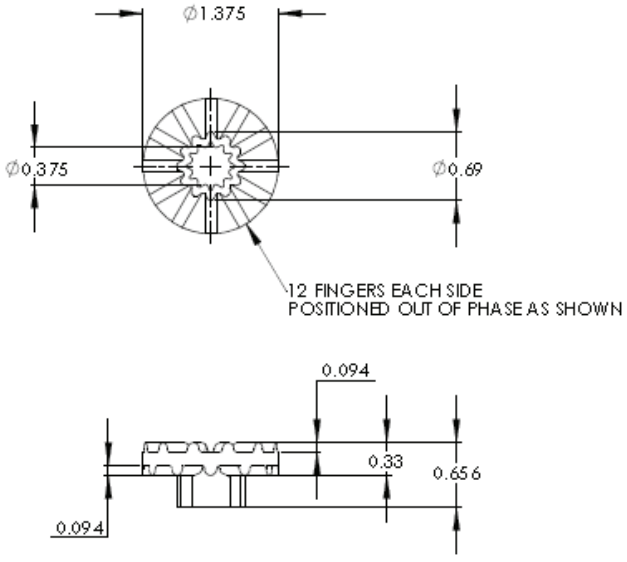
RING



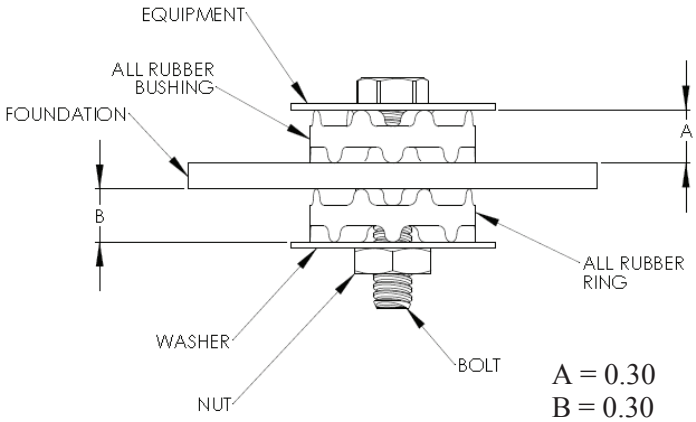
Assembly	Min Load	Max Load	Axial Natural Frequency	Dynamic Axial Spring Rate		Dynamic Radial Spring Rate	
	lbs	lbs	Hz	lb/in	N/mm	lb/in	N/mm
VIB1402-1R/ VIB1402-1B	6	20	14	400	70	160	28
VIB1402-2R/ VIB1402-2B	7	23		460	80	184	32
VIB1402-3R/ VIB1402-3B	10	25	19	920	158	368	64
VIB1402-4R/ VIB1402-4B	15	35		1290	226	516	90

*Fn at max rated load and .036 inch DA input
To correct for loads lower than rated load use:
$F_n = F_{nn} * \sqrt{P_r/P_a}$
Where:
Fn: Natural Frequency at actual load (Hz)
Fnn: Nominal Natural Frequency (Hz)
Pr: Rated load
Pa: Actual load

BUSHING



TYPICAL INSTALLATION



A = 0.30
B = 0.30

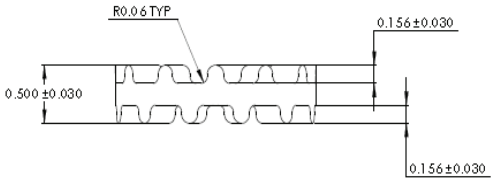
RING & BUSHING MOUNTS VIB1403 SERIES

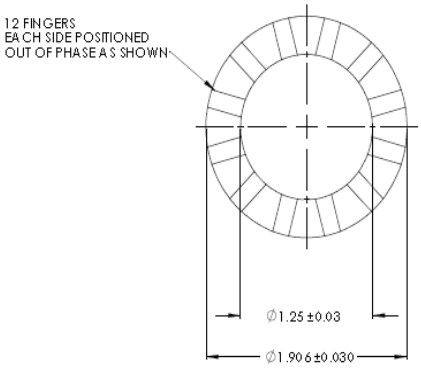
PRODUCT SPECIFICATIONS

Operating Temperature: -40 to +180 F
Maximum Transmissibility at Resonance: 10.0
Load Capacity: 35 – 75 lb
Axial-Radial Stiffness Ratio: 1:0.4
Part Weight: Less than 1 oz
Materials: Elastomer: Natural Rubber

All-elastomer ring & bushings are intended to be mounted in an axial orientation.

RING

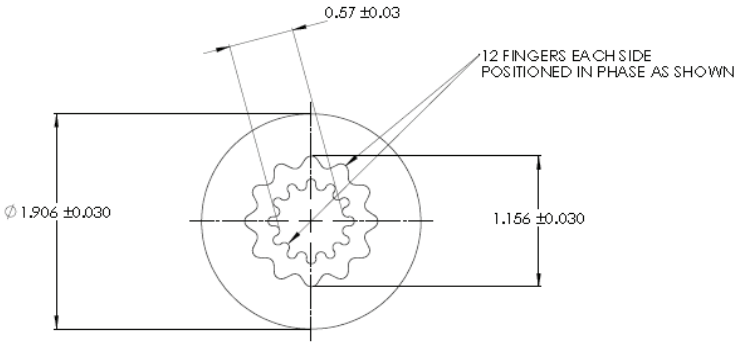


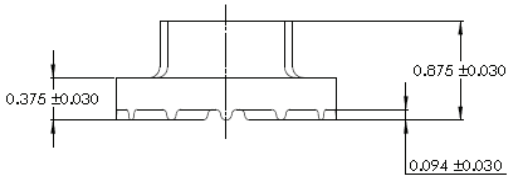


Assembly	Min Load	Max Load	Axial Natural Frequency	Dynamic Axial Spring Rate		Dynamic Radial Spring Rate	
	lbs	lbs	Hz	lb/in	N/mm	lb/in	N/mm
VIB1403-1R/ VIB1403-1B	10	35	12	514	90	206	36
VIB1403-2R/ VIB1403-2B	20	50	12	735	129	294	51
VIB1403-3R/ VIB1403-3B	30	60	12	882	154	353	62
VIB1403-4R/ VIB1403-4B	40	75	14	1500	262	600	105

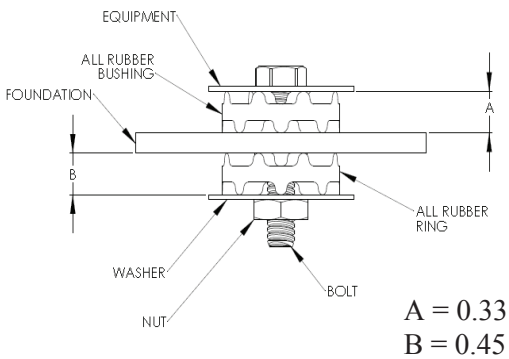
*Fn at max rated load and .036 inch DA input
To correct for loads lower than rated load use:
$F_n = F_{nn} * \sqrt{P_r/P_a}$
Where:
Fn: Natural Frequency at actual load (Hz)
Fnn: Nominal Natural Frequency (Hz)
Pr: Rated load
Pa: Actual load

BUSHING





TYPICAL INSTALLATION

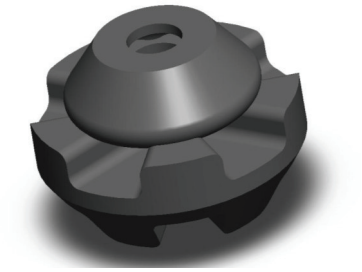


A = 0.33
B = 0.45

RING & BUSHING MOUNTS VIB1404 SERIES

PRODUCT SPECIFICATIONS

Operating Temperature: -40 to +180 F
Maximum Transmissibility at Resonance: 10.0
Load Capacity: 120 – 350 lb
Axial-Radial Stiffness Ratio: 1:0.3
Part Weight: 3.4 oz
Materials: Elastomer: Natural Rubber

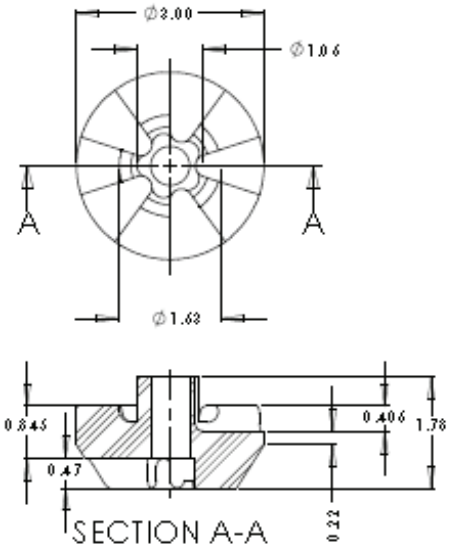


All-elastomer ring & bushings are intended to be mounted in an axial orientation.

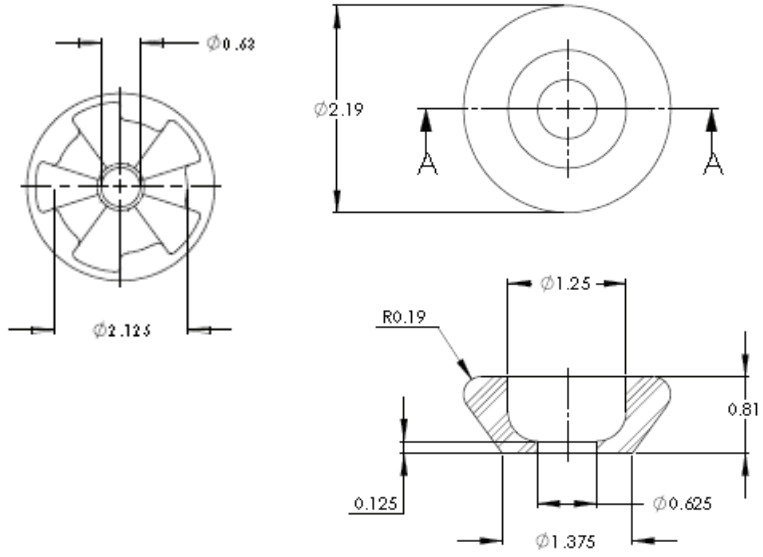
Assembly	Min Load	Max Load	Axial Natural Frequency	Dynamic Axial Spring Rate		Dynamic Radial Spring Rate	
	lbs	lbs	Hz	lb/in	N/mm	lb/in	N/mm
VIB1404-1R/ VIB1404-1B	60	120	7	600	105	180	32
VIB1404-2R/ VIB1404-2B	110	160		800	140	240	42
VIB1404-3R/ VIB1404-3B	135	250	8	1630	285	490	86
VIB1404-4R/ VIB1404-4B	160	350		2285	400	686	120

*Fn at max rated load and .036 inch DA input
To correct for loads lower than rated load use:
$F_n = F_{nn} * \sqrt{P_r/P_a}$
Where:
Fn: Natural Frequency at actual load (Hz)
Fnn: Nominal Natural Frequency (Hz)
Pr: Rated load
Pa: Actual load

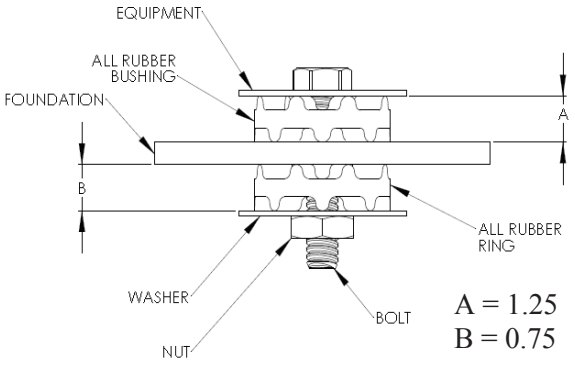
BUSHING



RING



TYPICAL INSTALLATION



A = 1.25
B = 0.75