
Plate Form Mounts

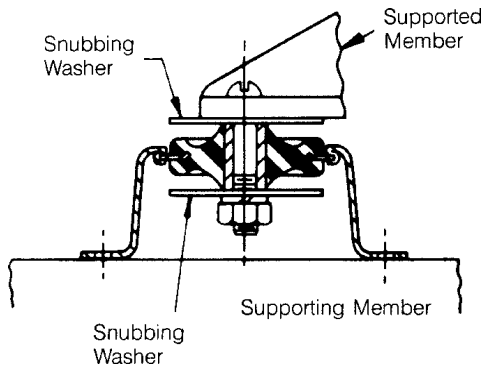
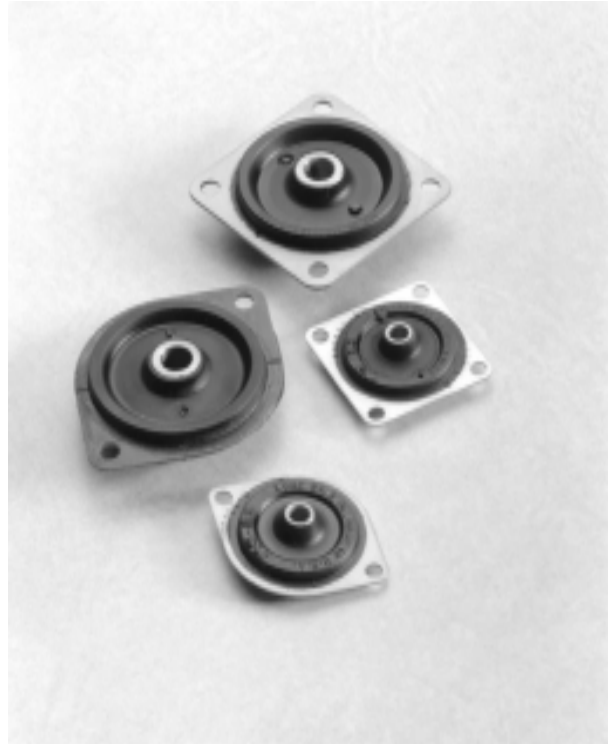
For isolation of steady vibration and control of occasional shock

Standard stock Plate Form Mounts are widely used to efficiently isolate steady-state vibration and control occasional shock

These versatile mounts are available in load ratings of 0.25 to 12 pounds per mount. When loaded to their rated capacity, a system natural frequency of approximately 18 Hz results, providing effective isolation in applications where disturbing frequencies are 40 Hz and above. Radial stiffness is approximately two to three times the axial stiffness.

Standard Plate Form Mounts are easy to install. They are available in square or diamond configurations to suit a variety of design requirements. The contour of the flexing element provides uniform stress distribution. This, plus high strength bonding and specially compounded elastomers, provide maximum service life.

Note: Snubbing washers are recommended for use with Plate Form Mounts. They form an interlocking system of metal parts, providing a positive safety, which limits and cushions excessive movement from overload and shock.



100APL SERIES

(Metric values in parenthesis)

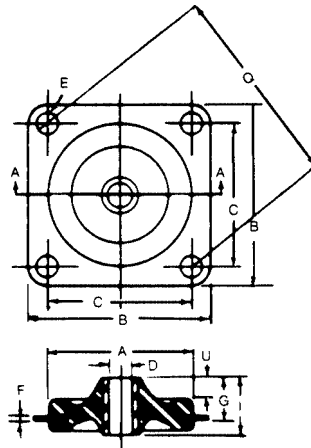
Load capacity: 0.25 to 6 lbs. (0.10 to 2.7 kg)

Materials:

Metal Parts — 2024-T3 or 2024-T4 aluminum alloy per QQ-A-225

Elastomer — Lord BTR® or BTR® II

Finish: Metal Parts — chromate treated per MIL-C-5541, Class 1A



Performance Characteristics

Part Number	Static load		Nom. axial natural freq. (Hz) [†]	Static axial spring rate [†]		Dimens. under no load in		Dimens. under no load mm	
	lbs	kg		lbs/in	N/mm	G [‡]	I	G [‡]	I
100APL*-A	1/4	.10	18	8	1.4	.30	.41	7.6	10.4
100APL*-B	1/2	.20	18	17	2.9	.30	.41	7.6	10.4
100APL*-1	1	.45	18	33	5.7	.30	.41	7.6	10.4
100APL*-1B	1 1/2	.70	18	50	8.7	.30	.41	7.6	10.4
100APL*-2	2	.90	18	67	12	.30	.41	7.6	10.4
100APL*-3	3	1.40	18	100	17	.30	.41	7.6	10.4
100APL*-4	4	1.80	18	133	23	.33	.50	8.4	12.7
100APL*-5	5	2.30	18	167	29	.39	.62	9.9	15.7
100APL*-6	6	2.70	18	200	35	.45	.75	11.4	19.0

[†]At .036 in. (.91 mm) D.A. input and rated load.

[‡]Reference dimensions.

When ordering, use the following in place of the ():

Q = BTR II Elastomer

W = BTR Elastomer

Dimensions Under No Load

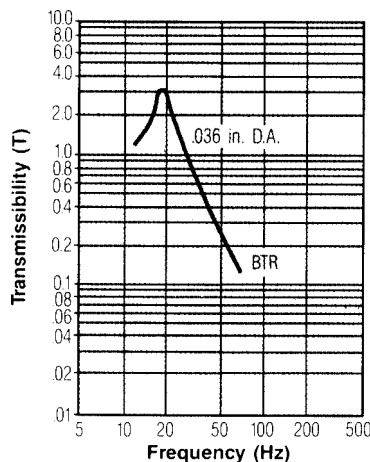
	A [‡]	B	C	D +.008/-0.005 +.02/-0.12	E +.003/-0.002 +.07/-0.05	F	Q	U [‡]
in	1.00	1.25	1.000	.166	.141	.032	1.414	.15
mm	25.4	31.7	25.40	4.22	3.58	.81	35.92	3.8

[‡]Reference dimensions

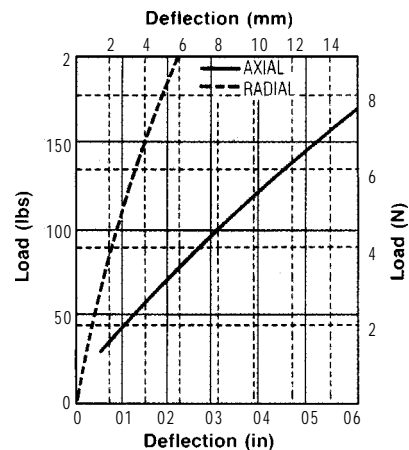
Snubbing Washer Dimensions

Part Number	Outside Diameter	Inside Diameter	Thickness
is J-2049-1D			
in	.88	.17	.03
mm	22.3	22.3	.8

Transmissibility vs. frequency



Load vs. deflection



100APDL SERIES

(Metric values in parenthesis)

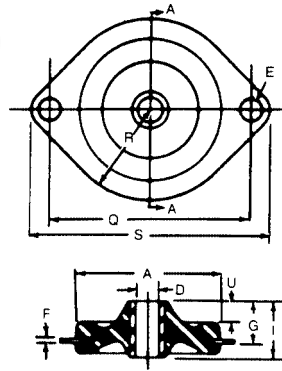
Load capacity: 0.25 to 6 lbs. (0.10 to 2.7 kg)

Materials:

Metal Parts — 2024-T3 or 2024-T4 aluminum alloy per QQ-A-225

Elastomer — Lord BTR® or BTR® II

Finish: Metal Parts — chromate treated per MIL-C-5541, Class 1A



Performance Characteristics

Part Number	Static load		Nom. axial natural freq. (Hz) [†]	Static axial spring rate [†]		Dimens. under no load in		Dimens. under no load mm	
	lbs	kg		lbs/in	N/mm	G [‡]	I	G [‡]	I
100APDL*-A	1/4	.10	18	8	1.4	.30	.41	7.6	10.4
100APDL*-B	1/2	.20	18	17	2.9	.30	.41	7.6	10.4
100APDL*-1	1	.45	18	33	5.7	.30	.41	7.6	10.4
100APDL*-1B	1 1/2	.70	18	50	8.7	.30	.41	7.6	10.4
100APDL*-2	2	.90	18	67	11.6	.30	.41	7.6	10.4
100APDL*-3	3	1.40	18	100	17.4	.30	.41	7.6	10.4
100APDL*-4	4	1.80	18	133	23.1	.30	.50	8.4	12.7
100APDL*-5	5	2.30	18	167	29.1	.39	.62	9.9	15.7
100APDL*-6	6	2.70	18	200	34.8	.45	.75	11.4	19.0

[†]At .036 in. (.91 mm) D.A. input and rated load.

[‡]Reference dimensions.

When ordering, use the following in place of the ():

Q = BTR II Elastomer

W = BTR Elastomer

Dimensions Under No Load

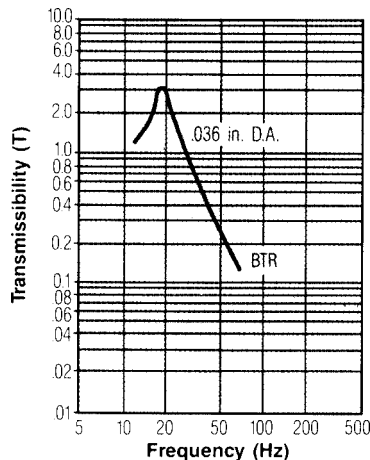
	A [‡]	D +.008/- .005 +.20/- .12	E +.003/- .002 +.07/- .05	F	Q	R	S	U [‡]
in	1.00	.166	.141	.032	1.414	.62	1.66	.15
mm	25.4	4.22	3.58	.81	35.92	15.7	42.2	3.8

[‡]Reference dimensions

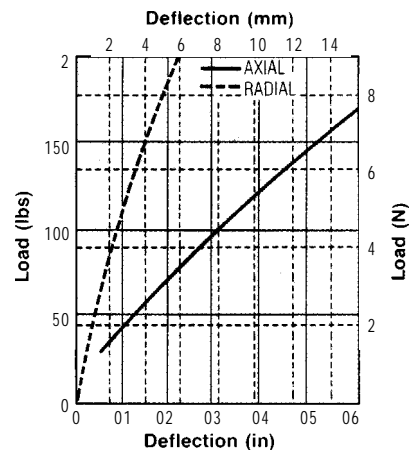
Snubbing Washer Dimensions

Part Number is	Outside Diameter	Inside Diameter	Thickness
J-2049-1D			
in	.88	.17	.03
mm	22.3	4.3	.8

Transmissibility vs. frequency



Load vs. deflection



150APL SERIES

(Metric values in parenthesis)

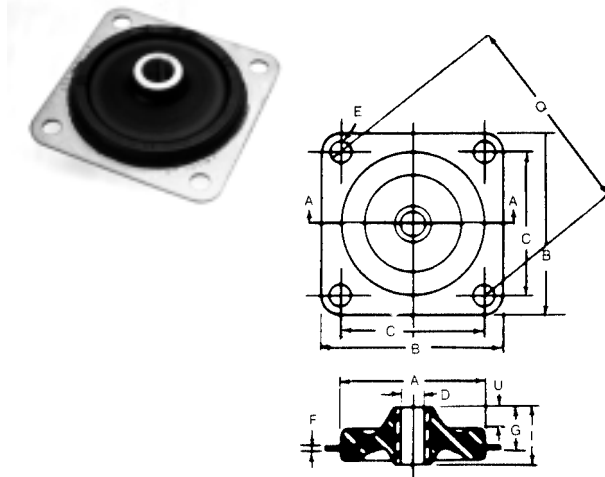
Load capacity: 1 to 12 lbs. (0.45 to 5.4 kg)

Materials:

Metal Parts — 2024-T3 or 2024-T4 aluminum alloy per QQ-A-225

Elastomer — Lord BTR® or BTR® II

Finish: Metal Parts — chromate treated per MIL-C-5541, Class 1A



Performance Characteristics

Part Number	Static load		Nom. axial natural freq. (Hz) [†]	Static axial spring rate [†]		Dimens. under no load in		Dimens. under no load mm	
	lbs	kg		lbs/in	N/mm	G [*]	I	G [*]	I
150APL*-1	1	.45	18	33	5.7	.40	.62	10.2	15.7
150APL*-2	2	.90	18	67	12	.40	.62	10.2	15.8
150APL*-3	3	1.40	18	100	17	.40	.62	10.2	15.7
150APL*-4	4	1.80	18	133	23	.40	.62	10.2	15.7
150APL*-5	5	2.30	18	167	29	.40	.62	10.2	15.7
150APL*-6	6	2.70	18	200	35	.40	.62	10.2	15.7
150APL*-7	7	3.17	18	233	41	.40	.62	10.2	15.7
150APL*-8	8	3.60	18	267	47	.40	.62	10.2	15.7
150APL*-9	9	4.10	18	300	52	.56	.88	14.2	22.3
150APL*-12	12	5.40	18	400	70	.68	1.12	17.3	28.4

[†]At .036 in. (.91 mm) D.A. input and rated load.

♣Reference dimensions.

When ordering, use the following in place of the ():

Q = BTR II Elastomer

W = BTR Elastomer

Dimensions Under No Load

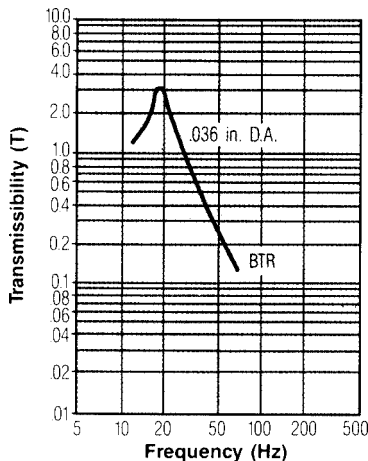
	A [♣]	B	C	D +.008/-0.005 +.20/-0.12	E +.003/-0.002 +.07/-0.05	F	Q	U [♣]
in	1.50	1.75	1.375	.257	.166	.050	1.945	.18
mm	38.1	44.4	34.92	6.53	4.22	1.27	49.40	4.6

♣Reference dimensions

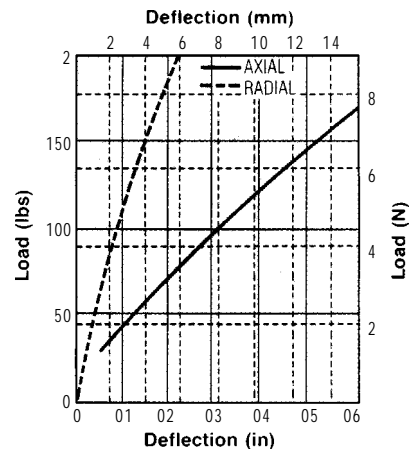
Snubbing Washer Dimensions

Part Number is J-2049-2D	Outside Diameter	Inside Diameter	Thickness
in	1.38	.26	.05
mm	35.0	6.6	1.3

Transmissibility vs. frequency



Load vs. deflection



150APDL SERIES

(Metric values in parenthesis)

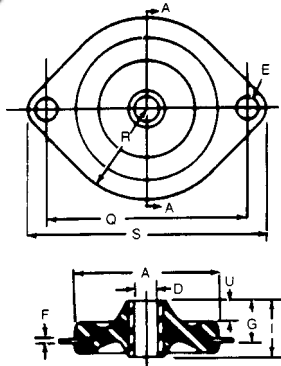
Load capacity: 1 to 12 lbs. (0.45 to 5.4 kg)

Materials:

Metal Parts — 2024-T3 or 2024-T4 aluminum alloy per QQ-A-225

Elastomer — Lord BTR® or BTR® II

Finish: Metal Parts — chromate treated per MIL-C-5541, Class 1A



Performance Characteristics

Part Number	Static load		Nom. axial natural freq. (Hz) [†]	Static axial spring rate [†]		Dimens. under no load in		Dimens. under no load mm	
	lbs	kg		lbs/in	N/mm	G [‡]	I	G [‡]	I
150APDL*-1	1	.45	18	33	5.7	.40	.62	10.2	15.7
150APDL*-2	2	.90	18	67	12	.40	.62	10.2	15.8
150APDL*-3	3	1.40	18	100	17	.40	.62	10.2	15.7
150APDL*-4	4	1.80	18	133	23	.40	.62	10.2	15.7
150APDL*-5	5	2.30	18	167	29	.40	.62	10.2	15.7
150APDL*-6	6	2.70	18	200	35	.40	.62	10.2	15.7
150APDL*-7	7	3.17	18	233	41	.40	.62	10.2	15.7
150APDL*-8	8	3.60	18	267	47	.40	.62	10.2	15.7
150APDL*-9	9	4.10	18	300	52	.56	.88	14.2	22.3
150APDL*-12	12	5.40	18	400	70	.68	1.12	17.3	28.4

[†]At .036 in. (.91 mm) D.A. input and rated load.

[‡]Reference dimensions.

When ordering, use the following in place of the ():

Q = BTR II Mount

W = BTR Mount

Dimensions Under No Load

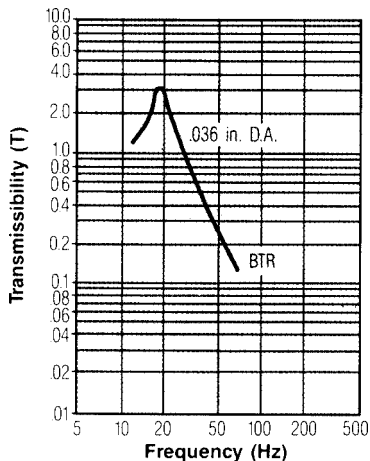
	A [‡]	D +.008/-0.005 +.20/-12	E +.003/-0.002 +.07/-05	F	Q	R	S	U [‡]
in	1.50	.257	.166	.050	1.945	.88	2.32	.18
mm	38.1	6.53	4.22	1.27	49.40	22.4	58.9	4.6

[‡]Reference dimensions

Snubbing Washer Dimensions

Part Number is	Outside Diameter	Inside Diameter	Thickness
J-2049-2D			
in	1.38	.26	.05
mm	35.0	6.6	1.3

Transmissibility vs. frequency



Load vs. deflection

