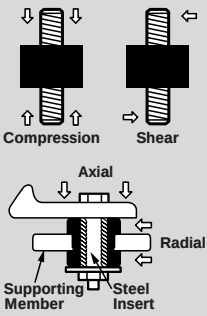
About Vibration Damping Mounts



Vibration damping mounts isolate vibration, shock, and noise transmitted to and from machinery. They reduce maintenance costs, prolong equipment life, and protect floors. Performance is measured by deflection (the distance the mount material moves when subjected to force). Generally, the higher the deflection rating, the greater the vibration, shock, and noise isolation.

Most vibration damping mounts are used in *compression* applications. Some mounts can be used in both *compression* and *shear* applications. Still others have a steel insert running through the center of the mount that provides support for axial loads (parallel to the bolt hole) and radial loads (perpendicular to the bolt hole); see illustrations at left.

Use the following formula to select the proper mount:

$$\frac{\text{Total Machine Weight}}{\text{No. of Mounting Points}} = \text{Load per Mount}$$

To provide the best vibration, shock, and noise isolation, select a mount with a maximum load closest to your machine's "load per mount". When using multiple mounts in applications where weight is not evenly distributed, choose each individual mount based on the maximum load it will be supporting.

Natural Rubber and Neoprene Sandwich Mounts

Economical mounts are made of natural rubber or neoprene sandwiched between two steel studs and/or inserts to provide isolation from vibration, shock, and noise. Use them in compression and shear applications (except Style 5, which is for compression applications only). Threaded connections on both sides of the mounts allow use in motors, fans, blowers, pumps, and generators. Durometer is 50A. Color of natural rubber and neoprene is black.

***Natural Rubber*—**Has superior resistance to tear and abrasion as well as good flexibility in cold temperatures. Temperature range is −50° to +150° F.

***Neoprene*—**Has very good resistance to weather, ozone, and acids, and moderate resistance to oils. Temperature range is −25° to +180° F.

To Order: Please specify inch or metric thread. Also specify natural rubber or neoprene, except for Style 4, which comes in neoprene only.

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Thread Inch	Thread Metric	Compression Max. Load, lbs.	Compression Deflection @ Max. Load	Shear Max. Load, lbs.	Shear Deflection @ Max. Load	(A)	(B)	(C)	(D)		Each
***(1) Cylindrical*—Male Threaded Stud on Each End (Natural Rubber or Neoprene)**											
8-32	M4 × 0.7	7	0.050″	0.75	0.038″	½″	⅜″	____	½″	9376K111	$1.50
8-32	M4 × 0.7	20	0.050″	3	0.060″	½″	⅝″	____	½″	9376K112	1.76
¼″-20	M6 × 1	31	0.065″	5	0.060″	⅝″	⅝″	____	½″	9376K57	1.60
¼″-20	M6 × 1	40	0.075″	6	0.075″	¾″	¾″	____	½″	9376K113	1.62
¼″-20	M6 × 1	50	0.050″	15	0.100″	½″	1″	____	½″	9376K114	1.38
¼″-20	M6 × 1	50	0.075″	9	0.100″	¾″	1″	____	½″	9376K115	1.48
¼″-20	____	50	0.075″	9	0.100″	¾″	1″	____	¾″	9376K116•	1.75
¼″-20	M6 × 1	45	0.100″	8	0.100″	1″	1″	____	½″	9376K117	1.51
¼″-20	M6 × 1	75	0.075″	12	0.120″	¾″	1¼″	____	½″	9376K118	1.73
¼″-20	M6 × 1	110	0.075″	18	0.150″	¾″	1½″	____	½″	9376K119	2.21
5⁄16″-18	____	30	0.100″	3	0.075″	1″	¾″	____	⅝″	9376K121•	1.96
5⁄16″-18	M8 × 1.25	50	0.075″	9	0.100″	¾″	1″	____	⅝″	9376K122	1.56
5⁄16″-18	M8 × 1.25	45	0.100″	8	0.100″	1″	1″	____	⅝″	9376K123	1.62
5⁄16″-18	M8 × 1.25	40	0.300″	___	____	3″	1″	____	⅝″	9376K124	2.58
5⁄16″-18	M8 × 1.25	75	0.075″	12	0.120″	¾″	1¼″	____	½″	9376K125	1.92
5⁄16″-18	M8 × 1.25	70	0.100″	12	0.120″	1″	1¼″	____	⅝″	9376K126	1.95
5⁄16″-18	M8 × 1.25	70	0.125″	10	0.120″	1¼″	1¼″	____	⅝″	9376K127	2.49
5⁄16″-18	M8 × 1.25	80	0.100″	15	0.140″	1″	1⅜″	____	⅝″	9376K128	2.47
5⁄16″-18	M8 × 1.25	110	0.075″	18	0.150″	¾″	1½″	____	⅝″	9376K129	1.92
5⁄16″-18	M8 × 1.25	125	0.100″	20	0.150″	1″	1 9⁄16″	____	⅝″	9376K131	2.47
5⁄16″-24	____	125	0.100″	20	0.150″	1″	1 9⁄16″	____	⅝″	9376K132•	2.47
⅜″-16	M10 × 1.5	125	0.100″	20	0.150″	1″	1 9⁄16″	____	⅝″	9376K133	2.88
⅜″-16	M10 × 1.5	370	0.075″	90	0.150″	¾″	2″	____	1⅛″	9376K134	4.40
⅜″-16	M10 × 1.5	165	0.160″	55	0.200″	1⅝″	2″	____	⅝″	9376K135	4.02
⅜″-16	M10 × 1.5	380	0.080″	75	0.150″	⅞″	2½″	____	1⅛″	9376K137	3.72
½″-13	M12 × 1.75	668	0.150″	199	0.310″	1½″	3⅛″	____	1¼″	9376K62	11.32
½″-13	M12 × 1.75	720	0.400″	140	0.300″	2¼″	3⅛″	____	1¼″	9376K136	12.96
***(2) Cylindrical*—Male Threaded Stud on One End, Female Threaded Insert on One End (Natural Rubber or Neoprene)**											
8-32	M4 × 0.7	7	0.050″	0.75	0.038″	½″	⅜″	0.12″	½″	9376K141	1.66
8-32	M4 × 0.7	20	0.050″	3	0.060″	½″	⅝″	0.18″	½″	9376K142	1.69
¼″-20	M6 × 1	31	0.065″	4.5	0.060″	⅝″	⅝″	0.30″	½″	9376K143	1.59
¼″-20	M6 × 1	75	0.030″	25	0.100″	½″	1″	0.19″	½″	9376K144	2.07
¼″-20	M6 × 1	50	0.060″	15	0.100″	¾″	1″	0.19″	½″	9376K145	1.93
¼″-20	M6 × 1	55	0.100″	8	0.100″	1″	1″	0.19″	½″	9376K146	1.98
5⁄16″-18	M8 × 1.25	55	0.100″	8	0.100″	1″	1″	0.19″	⅝″	9376K147	1.88
5⁄16″-18	M8 × 1.25	80	0.100″	15	0.140″	1″	1⅜″	0.19″	⅝″	9376K148	2.33
⅜″-16	M10 × 1.5	140	0.150″	40	0.200″	1⅜″	2″	0.38″	⅝″	9376K149	3.88
⅜″-16	M10 × 1.5	165	0.160″	55	0.200″	1⅝″	2″	0.38″	⅝″	9376K151	4.56
⅜″-16	M10 × 1.5	165	0.200″	45	0.200″	2″	2″	0.38″	1⅛″	9376K152	4.45
½″-13	M12 × 1.75	720	0.400″	140	0.300″	2¼″	3⅛″	0.54″	1¼″	9376K153	17.70
***(3) Cylindrical*—Female Threaded Insert on Each End (Natural Rubber or Neoprene)**											
8-32	M4 × 0.7	7	0.050″	0.75	0.038″	½″	⅜″	0.12″	____	9376K161	1.70
8-32	M4 × 0.7	25	0.030″	5	0.030″	½″	⅝″	0.18″	____	9376K162	1.82
¼″-20	M6 × 1	210	0.020″	30	0.050″	½″	1″	0.19″	____	9376K163	2.50
5⁄16″-18	M8 × 1.25	55	0.100″	8	0.100″	1″	1″	0.19″	____	9376K164	2.28
5⁄16″-24	M8 × 1.25	170	0.100″	40	0.150″	1″	1½″	0.20″	____	9376K165	3.58
⅜″-16	M10 × 1.5	165	0.160″	55	0.200″	1⅝″	2″	0.38″	____	9376K166	4.30
½″-13	M12 × 1.75	720	0.400″	140	0.300″	2¼″	3⅛″	0.54″	____	9376K167	15.83
***(4) Cylindrical with Recessed Surface*—Female Threaded Insert on Each End (Neoprene Only)**											
½″-13	____	150	0.08″	60	0.200″	1¾″	2″	0.46″	____	64885K42•	7.09
½″-13	____	310	0.08″	140	0.200″	1¾″	2″	0.46″	____	64885K44•	7.09
½″-13	____	90	0.12″	25	0.200″	2⅛″	2″	0.46″	____	64885K51•	7.19
½″-13	____	130	0.12″	45	0.200″	2⅛″	2″	0.46″	____	64885K52•	7.19
½″-13	____	210	0.12″	70	0.200″	2⅛″	2″	0.46″	____	64885K53•	7.19
½″-13	____	310	0.12″	100	0.200″	2⅛″	2″	0.46″	____	64885K54•	7.19
***(5) Square*—Male Threaded Stud on Each End (Natural Rubber or Neoprene)**											
6-32	____	3	0.025″	___	____	¼″	13⁄64″	____	½″	9376K181•	2.17
10-32	____	8	0.050″	___	____	½″	⅜″	____	½″	9376K183•	2.33

• Inch threads only.