

### COMPRESSION SHEAR MOUNTS

**CMSS** compression-shear cup/engine mounts provide excellent protection against vibration and shock in all directions. These mounts are designed so that the rubber element is in compression no matter the orientation of the load.

Fail-safe construction is accomplished by interlocking the metal base which contains the rubber element and the metal top cap. Models **CMSS** are made of stainless steel.. Due to each mount's ability to isolate vertical and horizontal forces, they are used in a wide variety of industrial applications.



### Recommended for:

Industrial machinery, centrifuges, blowers, transformers, combustion engines, motors, marine equipment, industrial diesel generator sets, pumps, HVAC equipment, factory production equipment, and applications where anchoring is required.

### Features:

- ✓ Excellent vibration-dampening characteristics under vertical compression and shear loads.
- ✓ Cup-shaped top cap protects elastomer (rubber) from oils, industrial solvents and chemicals.
- ✓ Available in stainless steel.
- ✓ Fail-safe construction allows mild vertical tensile forces.
- ✓ Low profile compact design.

CMSS-40/60/1/2/3/4



**Diamond Base**

CMSS-7/8

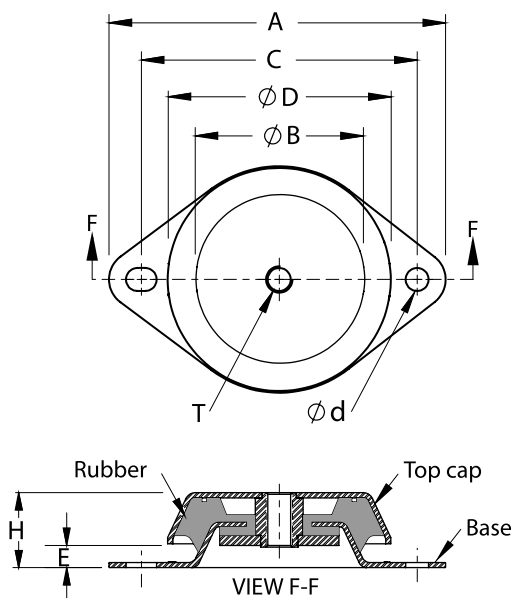


**Square Base**

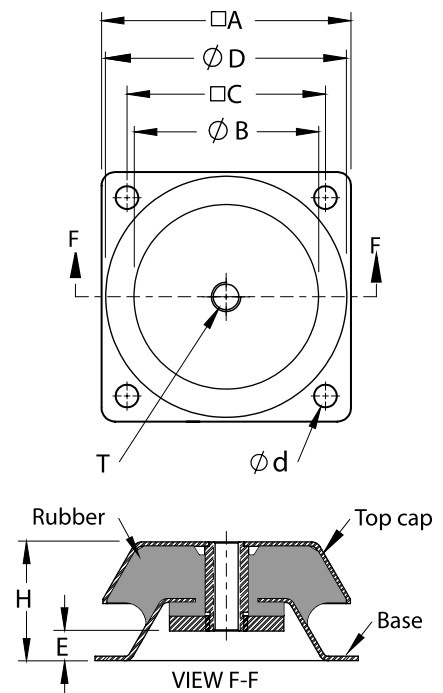
## COMPRESSION SHEAR MOUNTS

Model	Compression load (lbs)		Overall dimensions in inches (in)							
	Non-Impact	Impact	Width A	B	Hole Spacing C	D	Height H	Hole Ø d	E	Thread T
CMSS-40	150	90	3-11/16	1-7/8	3	2-7/16	1-3/8	3/8	5/16	3/8-16
CMSS-60	300	180	3-11/16	1-7/8	3	2-7/16	1-3/8	3/8	5/16	3/8-16
CMSS-1	400	250	6	2-3/4	5	3-5/8	1-3/8	3/8	1/4	1/2-13
CMSS-2	700	450	6	2-3/4	5	3-5/8	1-3/8	3/8	1/4	1/2-13
CMSS-3	1,200	800	7-5/8	4	6-3/8	5-3/16	1-11/16	9/16	7/16	5/8-11
CMSS-4	2,100	1,500	7-5/8	4	6-3/8	5-3/16	1-11/16	9/16	7/16	5/8-11
CMSS-7	10,000	7,000	8-5/8	6	6-7/8	8-5/8	4-1/8	3/4	1	1-12
CMSS-8	15,000	10,000	8-5/8	6	6-7/8	8-5/8	4-1/8	3/4	1	1-12

### CMSS-40/60/1/2/3/4



### CMSS-7/8



### Notes:

1) Models CMSS are made of stainless steel.

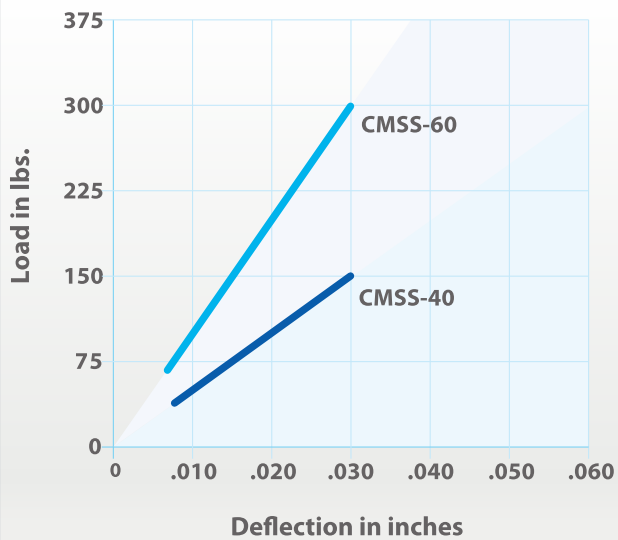
**3) Shear load should not exceed 30% of compression load.**

4) The compression shear mounts allow mild vertical tensile forces.

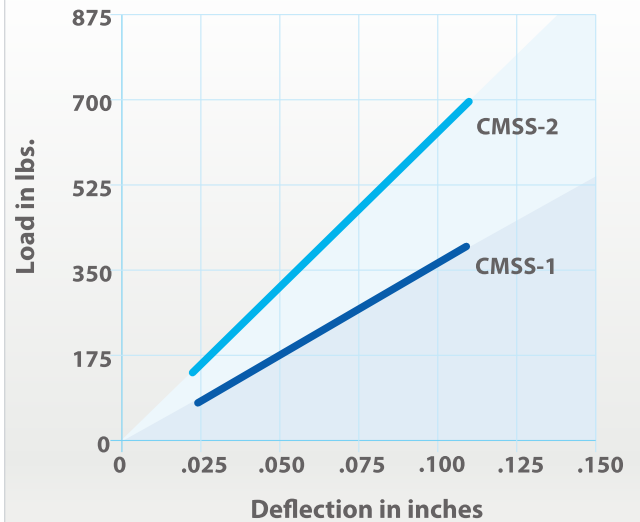
5) Optimal materials: For marine, onshore, corrosive environments and other environmental conditions, mounts are made of 316L stainless steel and EPDM rubber compound. For food, pharmaceutical and hygiene critical applications, mounts are made of 304 stainless steel and food grade rubber compounds. Contact Vibrasystems technical department for optimal material selection.

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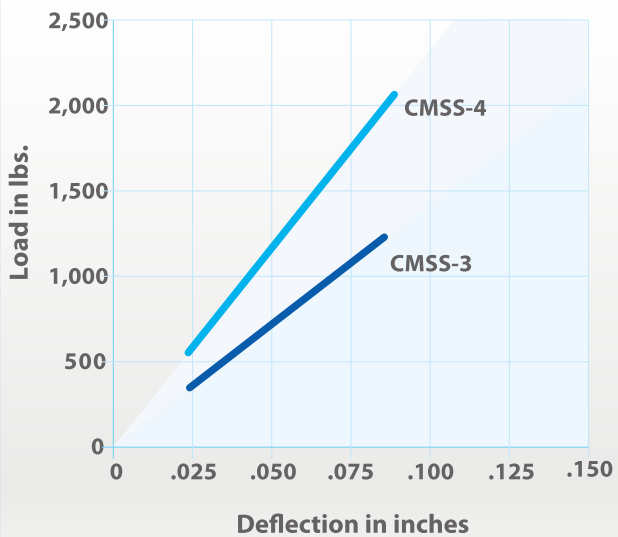
Compression Load Vs Deflection Chart



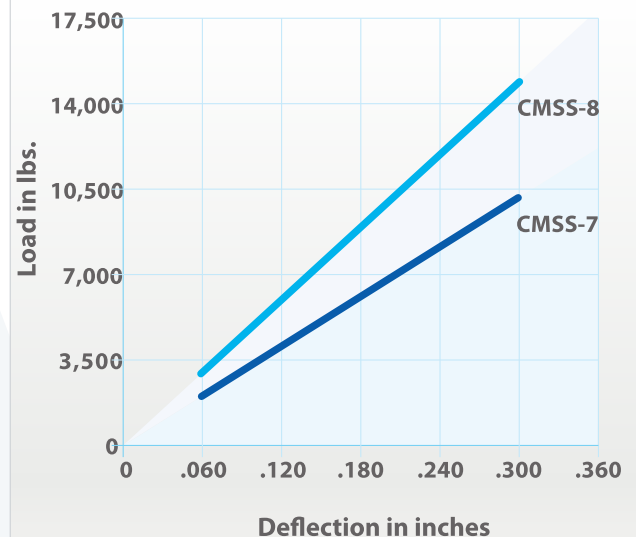
Compression Load Vs Deection Chart



Compression Load Vs Deflection Chart



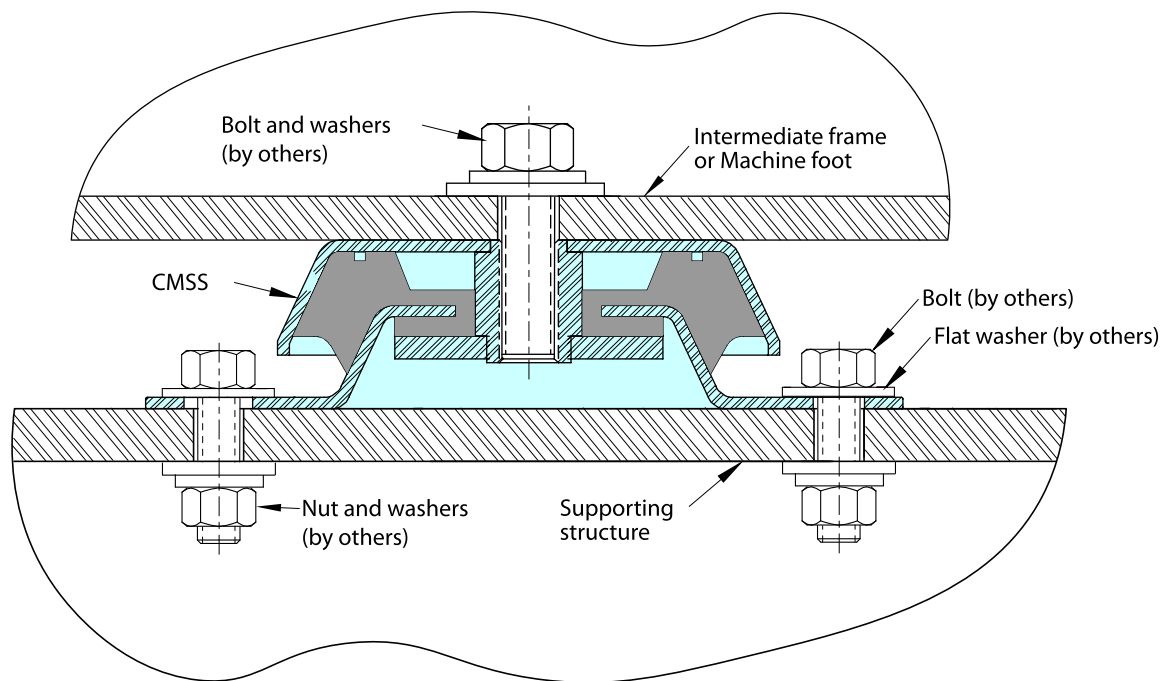
Compression Load Vs Deflection Chart



### COMPRESSION SHEAR MOUNTS

#### Recommendations for Installation:

- 1) CMSS mounts must be installed between two parallel and perfectly flat surfaces.
- 2) Do **not** use the CMSS mounts operating tilted or twisted.
- 3) Do **not** use the CMSS mounts in tensile direction.
- 4) The maximum allowed shearing load should be no more than 30% of the compression load.



Typical installation in compression