

Aerospace and Defense Elastomeric Isolation Mounts



ITT

ENGINEERED FOR LIFE

ENIDINE

With the newest innovations in technology, ITT Enidine Inc. offers the widest selection of energy absorption and vibration isolation products in the world. Protecting cabin interiors from noise and vibration to seat recline products, we are continually striving to improve the safety and comfort of passenger and crew.

Building on its heritage of innovation, ITT partners with its customers to deliver enduring solutions to the key industries that underpin our modern way of life. Founded in 1920, ITT is headquartered in White Plains, NY, with employees in more than fifteen countries and sales in more than 125 countries.

As part of our strategy to make the customer central to everything we do, our core technologies, engineering strength and global scale offers greater value for customers in terms of quality, cost and delivery.



**Industry Leading
Quality and Value –
On Time Every Time**

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Our Vision

ITT Enidine's vision is to provide the best in class, engineered elastomer solutions. We are recognized for our technical expertise and innovation for our products and applications.

Our goal is to deliver differentiated value to our customers. We strive for flawless execution, delivering quality work on time, every time.

Our vision statement below captures the essential elements of our approach:

This catalog describes engineered elastomer services and products that ITT Enidine offers. We offer standard products and our Team is structured to rapidly provide value added, custom solutions such as:

- Isolators developed and qualified to detailed specifications
- Isolators molded directly to associated brackets to save cost
- Isolators designed with value added features such as torque resistance



ITT Enidine is dedicated to conducting fundamental research to support a better understanding of your application, modeling, and simulation of elastomeric isolators and their associated systems. Our engineers regularly speak at and contribute papers to conferences and symposiums such as Internoise, Noise Con and SAVIAC.

**Our Goal is to deliver differentiated
value to our customers. We strive for
flawless execution, delivering quality
work on time, every time.**

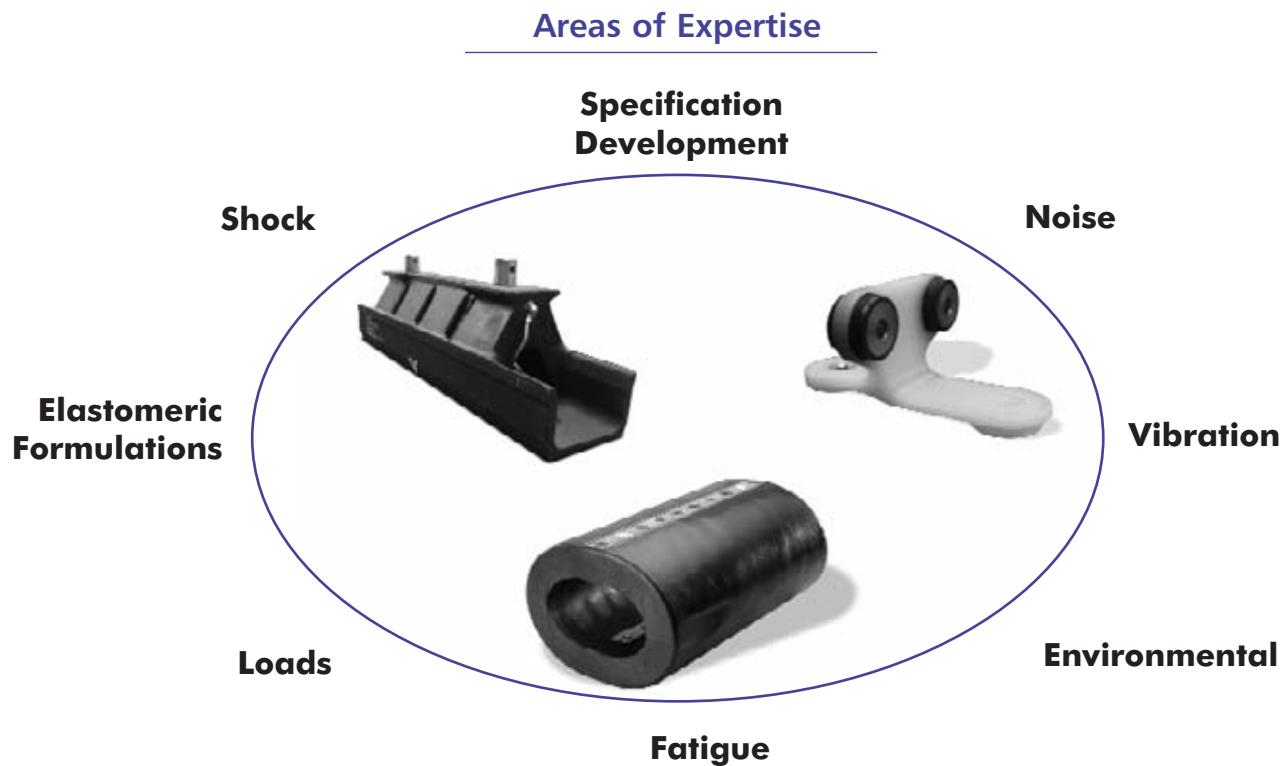
About ITT Corporation

ITT is a diversified leading manufacturer of highly engineered critical components and customized technology solutions for growing industrial end-markets in energy infrastructure, electronics, aerospace and transportation. Building on its heritage of innovation, ITT partners with its customers to deliver enduring solutions to the key industries that underpin our modern way of life.

Founded in 1920, ITT is headquartered in White Plains, NY, with employees in more than fifteen countries and sales in more than 125 countries. For more information please visit www.itt.com

Services

ITT Enidine is dedicated to providing technical expertise, innovation and differentiated value to our customers. Our areas of expertise encompass the full range of capabilities required to successfully develop an elastomeric isolation system.



With extensive capabilities in Analysis, Design, Qualification and Prototype Molding Cell resources, ITT Enidine is structured to rapidly provide value added, custom solutions to our customers.

Analysis	Design	Prototype Molding Cell	Qualification and Testing

Services

ITT Enidine is your partner for standard and custom elastomeric isolation systems for aircraft interior noise control. Successful isolation systems account for the properties of aircraft systems to which they attach. We have a proven engineering approach for high frequency noise attenuation, test capabilities, engineering capabilities and materials that allow us to develop and qualify your system.

As experts in the field of structure borne noise for aircraft interiors, ITT Enidine provides the following services:

Prediction of In-situ Attenuation of Isolator –

Classical mass-spring-damper approach cannot be used to predict high frequency noise attenuation. ITT Enidine uses the 4-pole method to capture the dynamic performance of the isolator and the attaching structure.

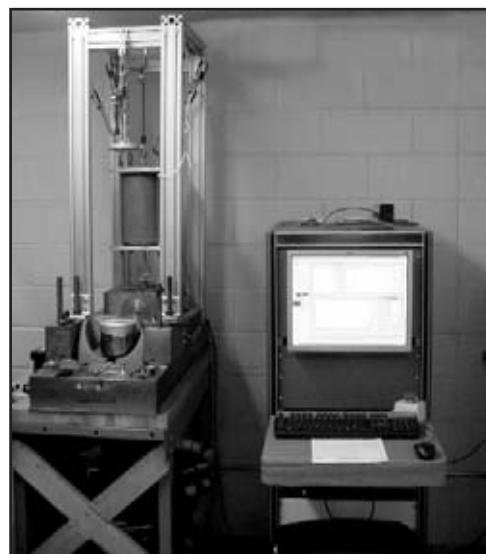


Elastomeric Material Development –

Proprietary compounds are formulated based on the requirement for the application. Desired noise attenuation, temperature extremes, loads, and fatigue life are important criteria when selecting and developing compounds for aircraft interior components.

Installation Requirements –

Installation requirements are extremely important. These isolators provide mechanical torque resistance to ensure that the elastomer does not tear during installation. ITT Enidine has also developed a number of isolators mated with plastic brackets to provide low weight, cost effective customer solutions.



Fatigue Life –

ITT Enidine understands the requirements to provide an isolation system with long life. Fatigue life for elastomeric isolators is directly related to frequency and amplitude. ITT Enidine has the expertise to design and test your isolation systems to ensure longevity.

Temperature Extremes –

The dynamic performance of the isolator is very dependent on the temperature at which it performs. ITT Enidine designs and tests the isolator at these specific temperature extremes.

Static and Ultimate Loads –

ITT Enidine's isolators are designed to provide optimal performance at specified static loads. The isolators also incorporate a fail safe mechanism to ensure the ability of the isolator to resist ultimate loads.



Custom Solutions –

ITT Enidine has a dedicated group of engineers, supported by the required analytical, manufacturing and testing resources focused on the design of aircraft interior isolators. We offer traditional metallic isolators and isolators using plastic materials. As a leader in this field, ITT Enidine can also partner with you on specification development for these isolators.

Aerospace

Product Overview

The desire to control aircraft interior noise for enhanced passenger/crew comfort has presented significant challenges for aircraft designers. Industry standard mounts often fail to take advantage of improved features and materials to optimize noise attenuation. Noise testing based on the 4-Pole Test method demonstrates that significant gains in noise isolation are available without sacrificing size, weight or load capacity.



Product Selection

ITT Enidine now offers a line of isolators to provide optimized noise/vibration attenuation for a variety of aircraft interior applications. These isolators provide significantly better noise attenuation compared to industry "standard" mounts.

Designed to accommodate a range of mounting configurations and load conditions, ITT Enidine Panel Isolators can be used for sidewall and ceiling panels, as well as for mounting IFE and other equipment.



Typical Applications

- Sidewall Panels
- Dado Panels
- Ceiling Panels
- Interior Trim / Door Panels

Features and Benefits

- Exceptional Noise Attenuation Performance
- Fail Safe Low-Profile Design
- Improved Composite Frame Noise Attenuation
- Interchangeable with Existing Isolators
- Multiple Elastomer Stiffnesses available in the same Envelope Size

Defense

Product Overview

ITT Enidine engineers remain at the forefront of new energy absorption and vibration isolation product development.

Our experienced team has designed custom solutions for a wide variety of challenging defense applications, including recoil buffer technologies and Counter I.E.D. Electronics Isolators, among others.

These custom application solutions have proven to be critical to our customers' success. Let ITT Enidine engineers do the same for you.



Typical Defense Applications

- COTS Equipment
- Marine Electronics
- Mission Critical Systems
- Piping, Pumps and Motors
- Deck Isolation
- Cabinet Isolation
- Off Road
- Smooth Highway
- Rail Transport
- NBC Compatible
- Military Shelters
- Low Frequency Deck Applications
- Shipping Containers
- Engine Transport
- Missile Systems
- Computers and Electronics
- Industrial Vehicles
- Equipment Support
- Structural Elements
- Military Electronics
- Disk Drives
- Computer Consoles
- Flat Panel Displays
- Communications Equipment
- APU (Military Vehicles)
- Turbines
- Internal Combustion Engines
- Motor/Generator Sets
- Off-Highway Equipment



Strut Integrated Isolator

ITT Enidine has developed a unique isolation solution for strut mounted equipment. The **Strut Integrated Isolator** incorporates an elastomeric isolator directly into the strut, eliminating the need for a large multi-axis isolator. This solution offers performance, weight and design flexibility advantages over traditional mounting systems.

Improved Performance –

Traditional mounting systems contain multiple struts converging at a large multi-axis isolator. These large multi-axis isolators must be sized to carry the complicated loads and moments associated with multiple struts. The **Strut Integrated Isolator** places the elastomeric working section directly into the strut where the isolator experiences only axial loading. The result is a simplified mounting system with a more linear stiffness.

Weight Savings –

The **Strut Integrated Isolator** system is 20 to 25% lighter than the traditional mounting due to the replacement of the strut material with the isolator and the reduced isolator size.

Improved Structural Reliability/Design Flexibility –

Isolator failure for a traditional mounting system will compromise multiple struts. This will require additional mounting points and isolation solutions for a redundant fail-safe system. With the **Strut Integrated Isolator**, the failure of a single isolator only compromises a single strut, possibly allowing the use of fewer struts to achieve a redundant, fail-safe system. Additionally, the elastomeric section can be located near the aircraft attachment point, as opposed to the component attachment, where there are more nominal temperatures and fewer fluid exposure issues, allowing for improved isolator performance and service life.

Fail-Safe Design –

The **Strut Integrated Isolator** has metal components that restrain the load in the event of elastomer failure, offering a fail-safe design.

With its inherent performance, weight and design flexibility advantages, the **Strut Integrated Isolator** is an excellent choice for all strut mounted equipment.

Typical Application –

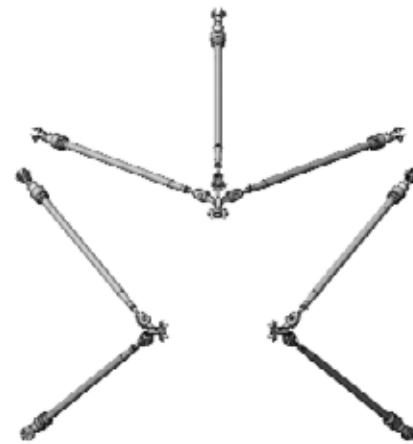
- Shipboard
- Mobile Electronics
- Engine Isolation
- Transportation Shipping



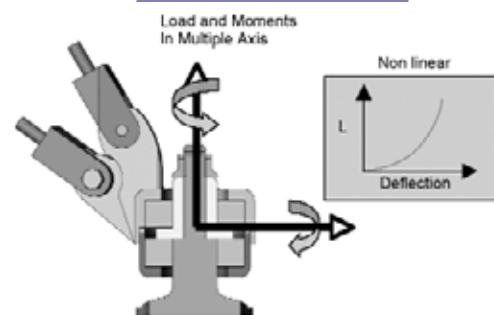
Traditional Mounting



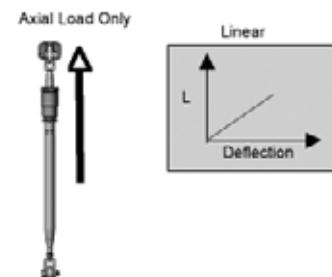
Strut Integrated Isolator



Traditional Mounting



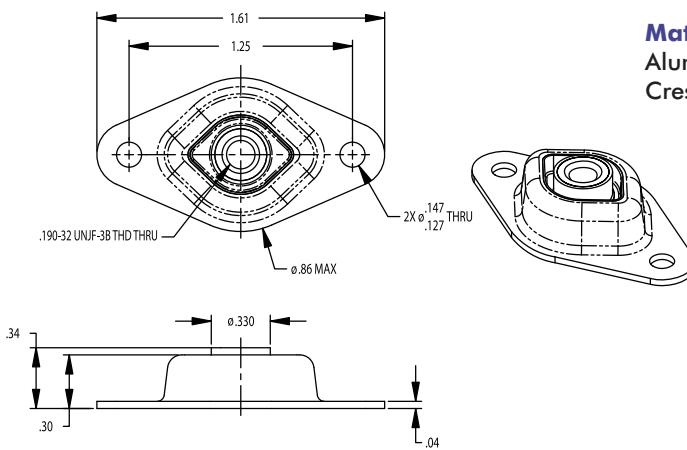
Strut Integrated Isolator



Panel Isolators

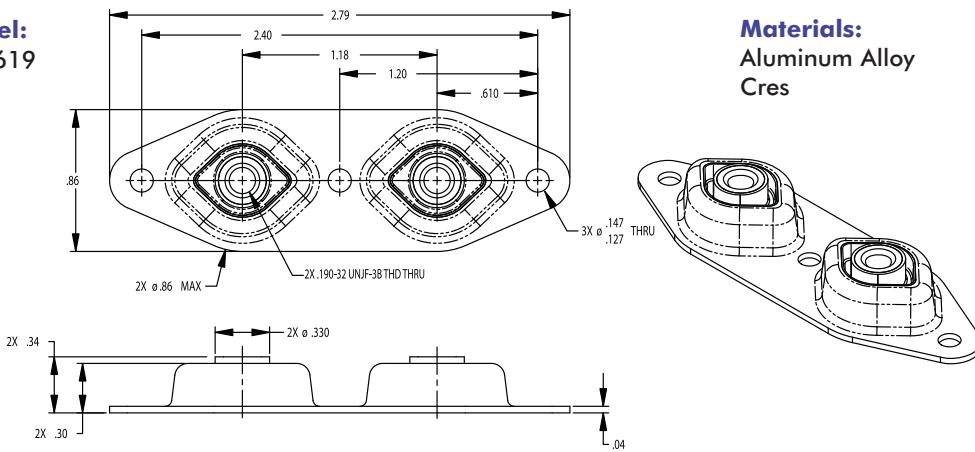
Product	Part Number	Thru Hole	Rated Load (lbs.)	Ultimate Load (lbs.)	Product	Part Number	Thru Hole	Rated Load (lbs.)	Ultimate Load (lbs.)
	EI11618	#10-32 UNJF-3B	4	100		EI11573	#10-32 UNF-2B Self Locking	9	200
	EI11619	#10-32 UNJF-3B	8	200		EI11588	#10-32 UNF-3B Self Locking	25	800
	EE11746	#10-32 UNJF-3B Self Locking	8	100		EI11589	#10-32 UNF-3B Self Locking	75	800
	EI11528	.209 Thru	9	200		EI11590	#10-32 UNF-3B Self Locking	150	800

Model:
EI11618



Materials:
Aluminum Alloy
Cres

Model:
EI11619

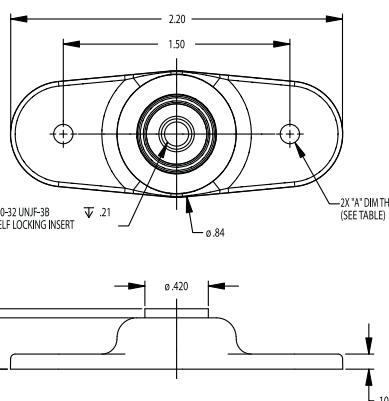


Materials:
Aluminum Alloy
Cres

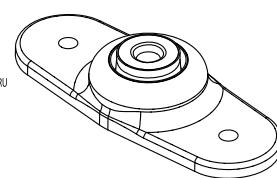
Panel Isolators

Model:
EE11746

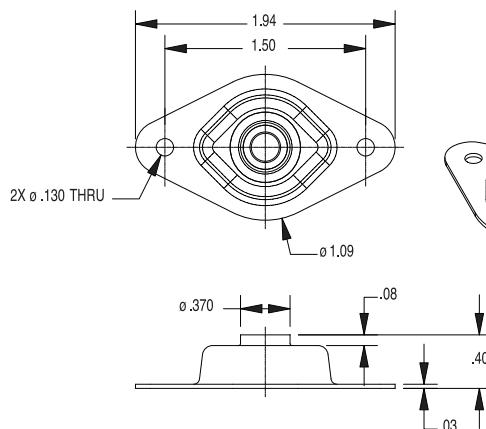
PART NUMBER	MTG HOLE ø ("A" DIM)
EE11746125	.125/.131
EE11746156	.156/.162
EE11746190	.190/.196
EE11746219	.219/.225
EE11746250	.250/.256



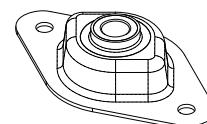
Materials:
Ultem
Cres



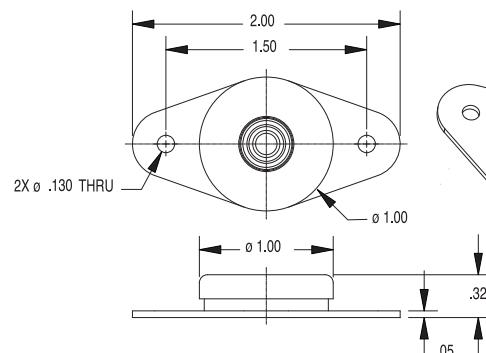
Models:
EI11528
EI11573



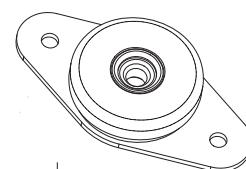
Materials:
Aluminum Alloy
Cres
Steel



Models:
EI11588
EI11589
EI11590



Materials:
Cres



Custom Solutions

ITT Enidine offers a full range of custom solutions, including both traditional metal and plastic housings. Please contact ITT Enidine to discuss your application.



Elastomeric Rod Ends

Commercial and defense aircraft manufacturers strive to build aircraft that offer durable support for interior service equipment. Overhead stowage bins and other structures need to accommodate changes in alignment while reducing in-flight structure-borne noise.



**Standard
Elastomeric Rod Ends**

To meet these and other application parameters, ITT Enidine has developed a family of elastomeric rod ends. Their versatile design supports the load, offers alignment forgiveness, resists radial push-out forces and reduces the transmission of structure-borne noise.



**Advanced
Elastomeric Rod Ends**

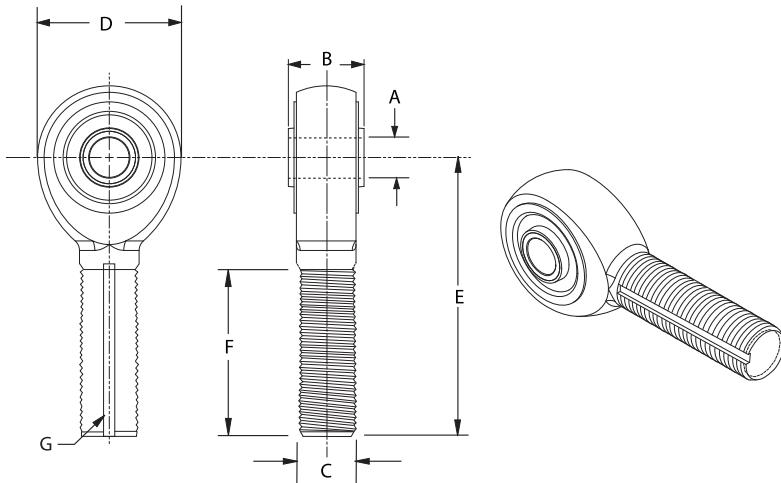
The Advanced Elastomeric Rod End offers a soft working section with a self-snubbing feature. This innovative patented design provides exceptional structure-borne noise attenuation and increased life.



**Optional
Configurations Available**

In addition to our standard product offerings, ITT Enidine also provides custom elastomeric isolators, including elastomeric rod ends with female attachments. Additional sizes, materials, finishes, thread size/type and keyway options are available as standard options. ITT Enidine's elastomeric rod ends can also be customized to meet specific application requirements. Please contact ITT Enidine for additional information.

Elastomeric Rod Ends



Base Number	A	B	C	D	E	F	Nominal Static Spring Rate (lbs./in.)	Max Static load (lbs.)	Min. Radial Ultimate Load (lbs.)	G
	Dia. (± .002 in.)	Width Max. (in.)	Thread UNJF - 3A	Dia. (in.)	Length Min. (in.)	Perfect Thread Min. (in.)				Keyway Feature
Advanced Elastomeric Rod Ends - Soft Working Section - Self Snubbing Design										
EI11662J	0.250	0.476	3/8-24	1.00	2.13	1.07	13,100	390	4,500	Yes
EI11662LJ	0.250	0.476	3/8-24L	1.00	2.13	1.07	13,100	390	4,500	Yes
EI11663J	0.250	0.476	3/8-24	1.00	2.13	1.07	6,600	165	4,500	Yes
EI11663LJ	0.250	0.476	3/8-24L	1.00	2.13	1.07	6,600	165	4,500	Yes
EI11664J	0.3125	0.571	3/8-24	1.13	2.22	1.07	18,000	550	8,000	Yes
EI11664LJ	0.3125	0.571	3/8-24L	1.13	2.22	1.07	18,000	550	8,000	Yes
EI11665J	0.3125	0.571	3/8-24	1.13	2.22	1.07	11,500	330	8,000	Yes
EI11665LJ	0.3125	0.571	3/8-24L	1.13	2.22	1.07	11,500	330	8,000	Yes
Standard Aluminum Elastomeric Rod Ends										
EI11352J	0.250	0.399	1/4-28	0.75	1.21	0.62	7,000	140	2,500	No
EI11353J	0.250	0.399	1/4-28L	0.75	1.21	0.62	7,000	140	2,500	No
EI11354J	0.250	0.399	1/4-28	0.75	1.49	0.85	4,000	80	2,200	No
EI11355J	0.250	0.399	1/4-28L	0.75	1.49	0.85	4,000	80	2,200	No
EI11356J	0.250	0.437	1/4-28	0.80	1.21	0.62	17,000	250	2,400	No
EI11357J	0.250	0.437	1/4-28L	0.80	1.21	0.62	17,000	250	2,400	No
EI11374J	0.250	0.476	3/8-24	0.90	1.74	1.05	4,000	80	5,600	No
EI11375J	0.250	0.476	3/8-24L	0.90	1.74	1.05	4,000	80	5,600	No
EI11376J	0.250	0.437	5/16-24	0.80	1.85	1.15	7,000	140	2,400	No
EI11377J	0.250	0.437	5/16-24L	0.80	1.85	1.15	7,000	140	2,400	No
EI11378J	0.250	0.476	5/16-24	0.90	2.01	1.30	7,000	140	3,600	No
EI11379J	0.250	0.476	5/16-24L	0.90	2.01	1.30	7,000	140	3,600	No
EI11380J	0.250	0.399	5/16-24	0.75	1.29	0.62	7,000	140	2,500	No
EI11395J	0.250	0.437	1/4-28	0.80	1.49	0.85	7,000	140	2,400	No
EI11396J	0.250	0.437	1/4-28L	0.80	1.49	0.85	7,000	140	2,400	No
EI11397J	0.312	0.476	3/8-24	0.90	2.14	1.30	4,000	80	4,800	No
EI11398J	0.312	0.476	3/8-24L	0.90	2.14	1.30	4,000	80	4,800	No
EI11399J	0.250	0.437	5/16-24	0.80	1.49	0.80	7,000	140	2,400	No
EI11401J	0.250	0.437	5/16-24L	0.80	1.49	0.80	7,000	140	2,400	No
EI11402J	0.250	0.476	5/16-24	0.90	1.49	0.80	7,000	140	3,600	No
EI11403J	0.250	0.476	5/16-24L	0.90	1.49	0.80	7,000	140	3,600	No
Standard CRES Elastomeric Rod Ends										
EI11495J	0.250	0.400	3/8-24	0.75	1.81	1.12	12,500	280	4,500	Yes
EI11497J	0.250	0.400	3/8-24	0.75	2.18	1.50	12,500	280	4,500	Yes
EI11503J	0.250	0.400	1/4-24	0.75	1.91	1.22	12,500	280	4,500	Yes
EI11540J	0.375	0.500	9/16-18	1.03	2.62	1.53	27,250	670	11,500	Yes
EI11541J	0.375	0.500	7/16-20	1.03	2.37	1.30	27,250	670	11,500	Yes

Elastomeric Cartridge Isolators



Typical Cartridge Isolator Installation

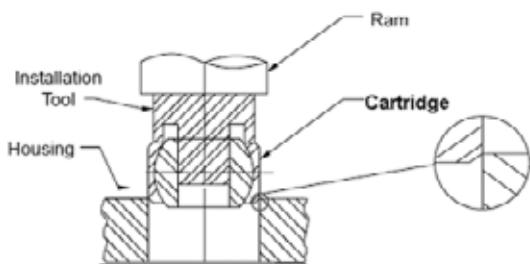


FIGURE 1

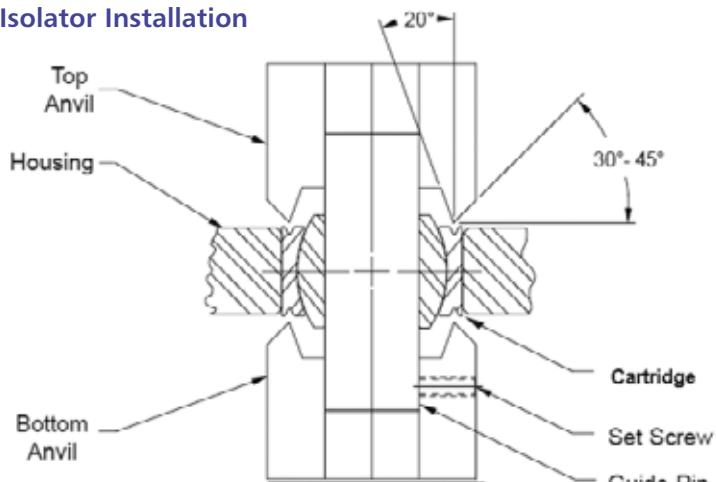


FIGURE 2

Proper installation of the cartridge is important to prevent cartridge failure as well as housing damage. Under no circumstances should a tool that induces shock or impact to the cartridge being used. The use of an arbor press or hydraulic press is recommended. A tool similar to the one shown in Figure 1 is advised. All force is to be applied on the cartridge face (not on elastomer or insert face). A lead chamfer or radius on the cartridge and/or housing is vital as seen below in Figure 3. The cartridges have grooves in each side of the cartridge face, leaving a small lip. Staking tools (as shown in Figure 2) are then used to stake the lip over the chamfer edges of the housing. A typical arrangement consists of two identical anvils and one guide pin which is secured by a set screw in the bottom anvil.

Supporting Housing Chamfer

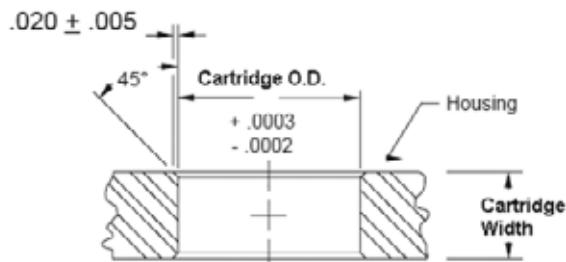
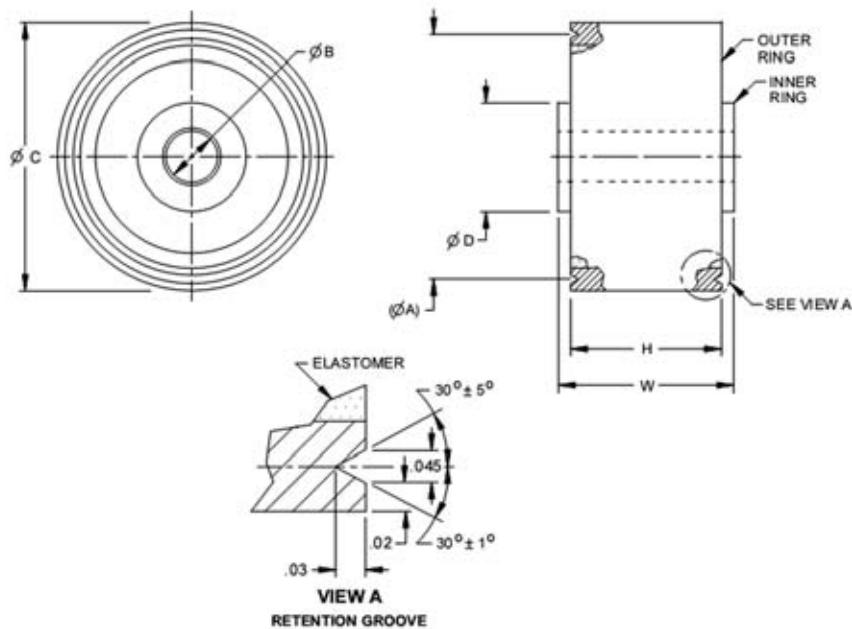


FIGURE 3

Elastomeric Cartridge Isolators



Part Number Ordering Code

For Material Options

EE12032 CP

	Material	[] - AL ALY
	Base Number Per Table	[CP] - CRES

Base Number	A	B	C	D	H	W	Nominal Spring Rate (lbs./in.)	Min. Radial Ultimate Load (lbs.)	Max Static load (lbs.)
	Groove Dia. (in.) (Ref.)	Thru Hole Dia. (in.) + .0010 - .0000	Outer Dia. (in.) + .0000 - .0005	Inner Dia. (in.) ± .01	Outer Ring Max. Width (in.)	Inner Ring Max. Width (in.)			
EE12032	0.92	0.2500	1.0000	0.64	0.405	0.476	8,800	2,600	390
EE12033	0.92	0.2500	1.0000	0.64	0.405	0.476	3,800	1,100	165
EE12034	1.05	0.3125	1.1250	0.77	0.404	0.571	12,200	5,500	550
EE12035	1.05	0.3125	1.1250	0.77	0.404	0.571	7,300	3,300	330
EE12036	1.17	0.3750	1.2500*	0.80	0.655	0.755	52,000	10,800	1,200

*Note: Outer diameter tolerance is +.0000/-0.0010

Fail-Safe Compression Mounts

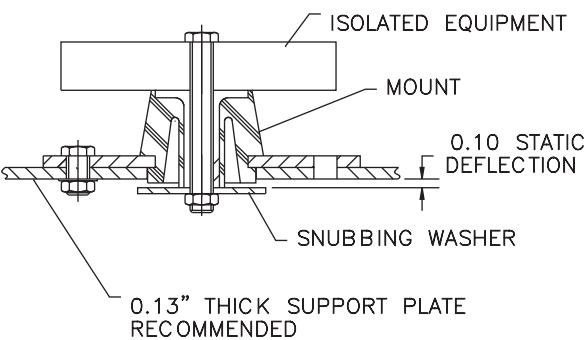


These fail-safe* isolators are ideal for the isolation of diesel engines and generators used in construction equipment, recreational vehicles and off-road equipment. Their low natural frequency allows them to be used for computer and electronic equipment when there is a need for a "ruggedized" installation. They are also excellent isolators for compressors, motors, pumps and other machinery when skid mounted.

These mounts offer a wide load range of 50 to 420 lbs., and have a high stiffness ratio of 6:1 axial-to-radial.

The standard elastomer is constructed of neoprene, which is resistant to ozone, fuel and oils. It performs well at a temperature range of -20°F (-29°C) to +180°F (82°C). Optional materials such as nitrile, butyl, silicone and others are available to meet your environmental conditions or military specifications.

INSTALLATION

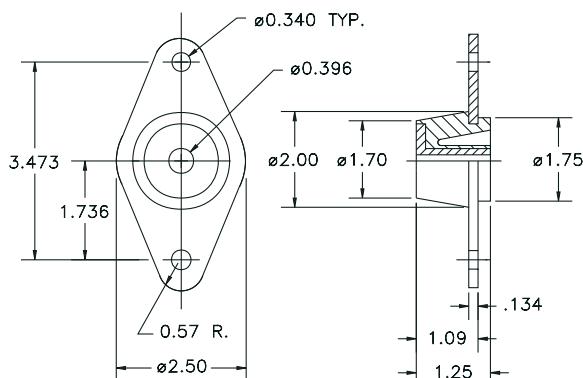


* These mounts are fail-safe when used with snubbing washers and installed as shown. See page 53 for more information on snubbing washers.

Fail-Safe Compression Mounts

Dimensions and Performance Characteristics

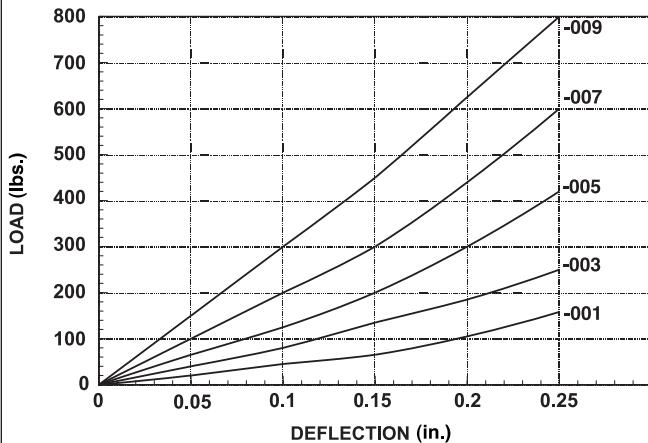
ET5170-0xx Series



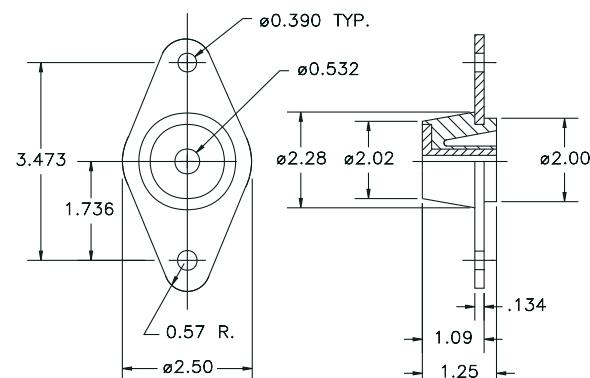
Part No.	Axial Static Load Range: Nominal (lbs.)	Color Code
ET5170-001	50	Yellow & Gold
ET5170-003	90	Red & Gold
ET5170-005	150	Green & Gold
ET5170-007	215	Blue & Gold
ET5170-009	300	White & Gold

ET5170-0xx Series

Axial Load vs. Deflection



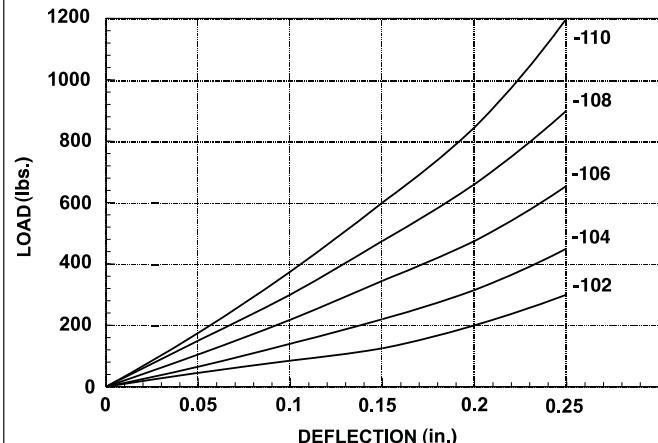
ET5164-1xx Series



Part No.	Axial Static Load Range: Nominal (lbs.)	Color Code
ET5164-102	100	Yellow & Gold
ET5164-104	155	Red & Gold
ET5164-106	230	Green & Gold
ET5164-108	320	Blue & Gold
ET5164-110	420	White & Gold

ET5164-1xx Series

Axial Load vs. Deflection



Compression Mounts

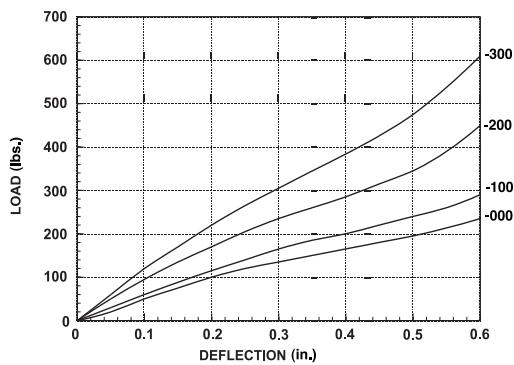


ET5216 Series

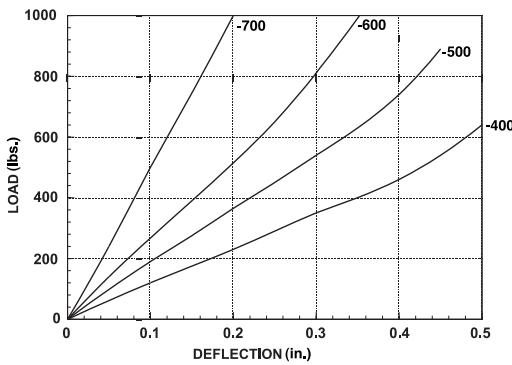
These rugged, high-performance mounts are normally used for vertically applied loads to prevent the transmission of vibration and noise caused by the rotation of unbalanced equipment such as centrifuges, blowers, pumps, vibrators and air handling systems.

They effectively isolate disturbing frequencies as low as 900 rpm (15 Hz), providing up to 90% isolation at 1,500 rpm (25 Hz). Their elastomer in-compression design effectively interrupts noise transmission paths to prevent sounding board effects. Cold-rolled steel and a neoprene elastomer resist ozone and oils in an operational temperature range of -20°F (-29°C) to +180°F (82°C).

Axial Load vs. Deflection



Axial Load vs. Deflection



Part No.	Color Code	Load Range (lbs.)	W(in.)	Part No.	Color Code	Load Range (lbs.)	W(in.)
ET5216-000	Yellow	20-60	2	ET5216-400	Red	70-200	4
ET5216-100	Red	40-100	2	ET5216-500	Green	140-280	4
ET5216-200	Green	60-150	2	ET5216-600	Blue	240-500	4
ET5216-300	Blue	80-200	2	ET5216-700	White	450-700	4

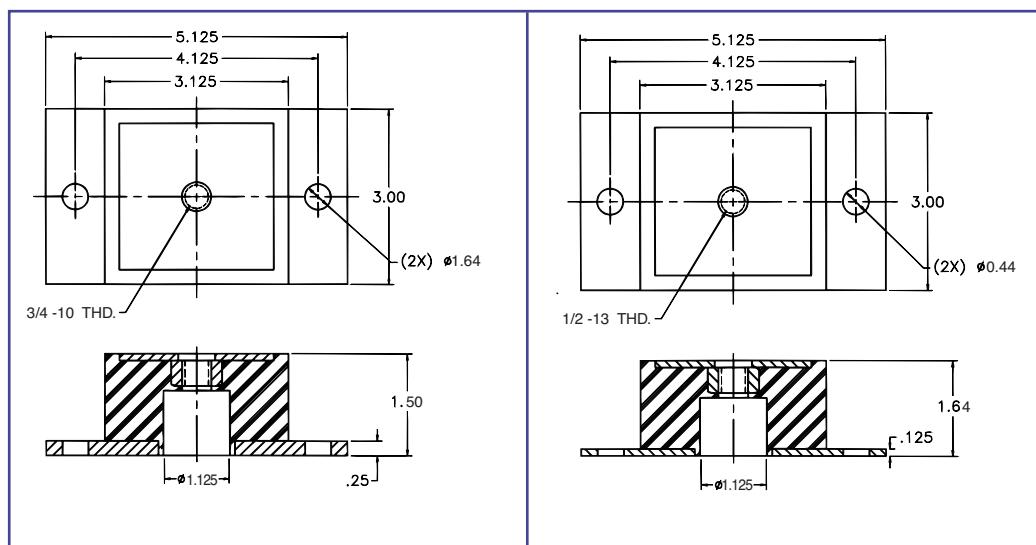
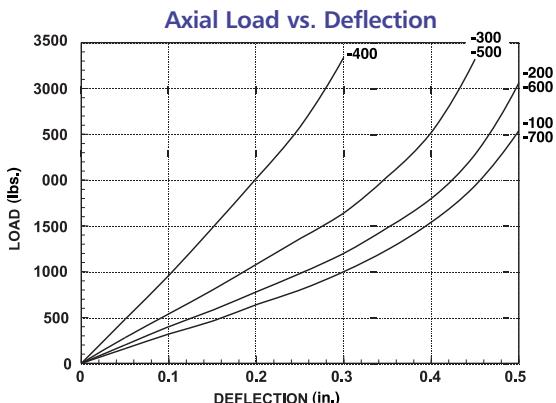
Compression Mounts



ET5213 and ET5217 Series

Heavy Duty

This Compression Mount design is for applications under heavy industrial machinery requiring efficient vibration, noise and shock isolation. The ITT Enidine Compression Mount's natural operating frequency of 8-15 Hz provides efficient isolation for machine speeds as low as 750 rpm. Tandem pairs provide even lower natural frequencies (approximately 6-10 Hz) for speeds down to 525 rpm.



Part No.	Color Code	Max. Load (lbs.)	Part No.	Color Code	Max. Load (lbs.)
ET5213-500	White	1,500	ET5217-100	Red	700
ET5213-600	Green	1,000	ET5217-200	Green	1,000
ET5213-700	Red	700	ET5217-300	Blue	1,500
			ET5217-400	White	2,500

Compression Mounts-Standard Deflection



Standard Deflection

These mounts offer natural frequencies as low as 6 Hz at maximum load. Materials are neoprene and steel. Metric sizes available.

Standard Deflection Dimensions

NO RECESS IN PART NUMBERS
ET5256101 THRU ET5256401

Part No.	Color Code	Max. Load (lbs.)	Deflection (in.)	L (in.)	W (in.)	H (in.)	A (in.)	B (in.)	C (in.)	D (in.)	E (in.)
ET5250-100	Blue	35									
ET5250-200	Black	45									
ET5250-300	Red	70									
ET5250-400	Green	120									
ET5252-100	Blue	135									
ET5252-200	Black	170									
ET5252-300	Red	240									
ET5252-400	Green	380									
ET5252-500	Gray	550									
ET5254-100	Black	250									
ET5254-200	Red	525									
ET5254-300	Green	750									
ET5254-400	Gray	1,100									
ET5256-101*	Black	1,500									
ET5256-201*	Red	2,250									
ET5256-301*	Green	3,000									
ET5256-401*	Gray	4,000									

*Rectangular Base Plate

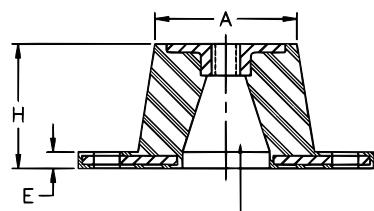
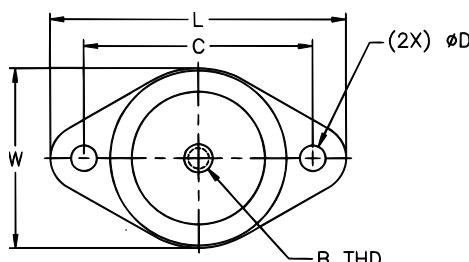
Compression Mounts-Double Deflection



Double Deflection

These mounts offer natural frequencies as low as 4.5 Hz at maximum load. Materials are neoprene and steel. Metric sizes available.

Double Deflection Dimensions



**NO RECESS IN PART NUMBERS
ET5257101 THRU ET5257401**

Part No.	Color Code	Max. Load (lbs.)	Deflection (in.)	L (in.)	W (in.)	H (in.)	A (in.)	B (in.)	C (in.)	D (in.)	E (in.)
ET5251-100	Blue	35									
ET5251-200	Black	45									
ET5251-300	Red	70									
ET5251-400	Green	120									
ET5253-100	Blue	135									
ET5253-200	Black	170									
ET5253-300	Red	240									
ET5253-400	Green	380									
ET5253-500	Gray	550									
ET5255-100	Black	250									
ET5255-200	Red	525									
ET5255-300	Green	750									
ET5255-400	Gray	1,100									
ET5257-101*	Black	1,500									
ET5257-201*	Red	2,250									
ET5257-301*	Green	3,000									
ET5257-401*	Gray	4,000									

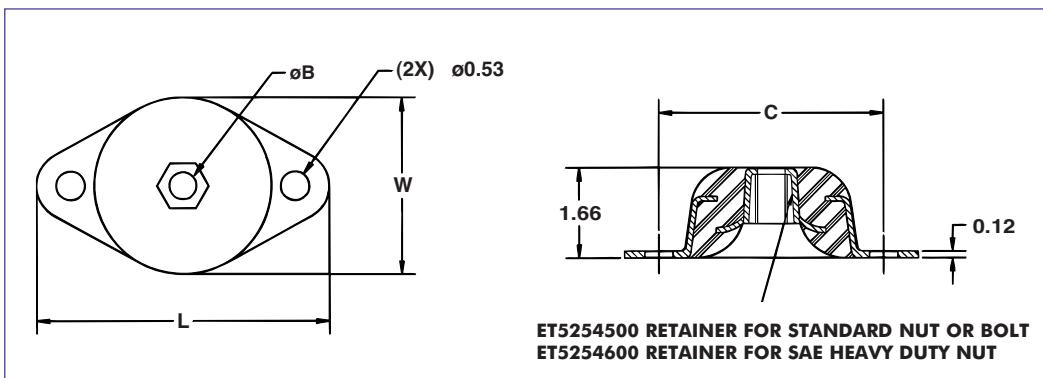
*Rectangular Base Plate

Dome Mounts



The interlocking metals of the Dome Mount series result in a fail-safe mount. This capability and low stiffness make them ideal for isolating medium to large sized engines as well as fans, blowers, pumps and air handling equipment.

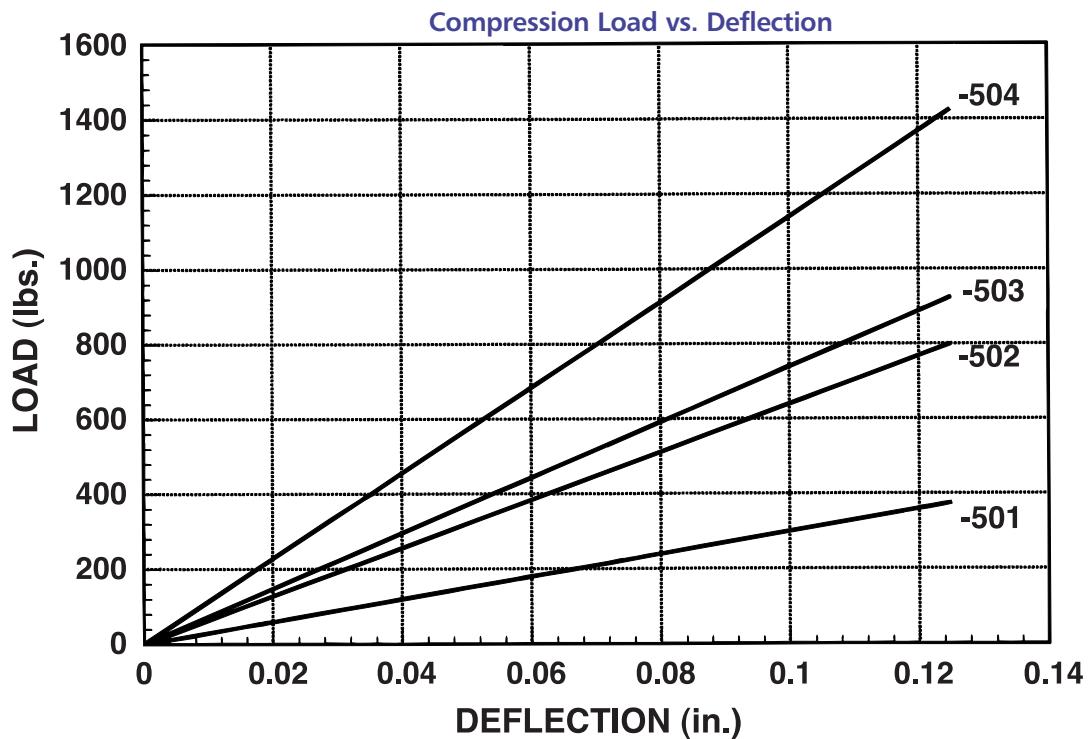
These elastomers have an approximate natural frequency of 9 Hz at maximum load and are comprised of neoprene material and metal that is zinc-plated steel.



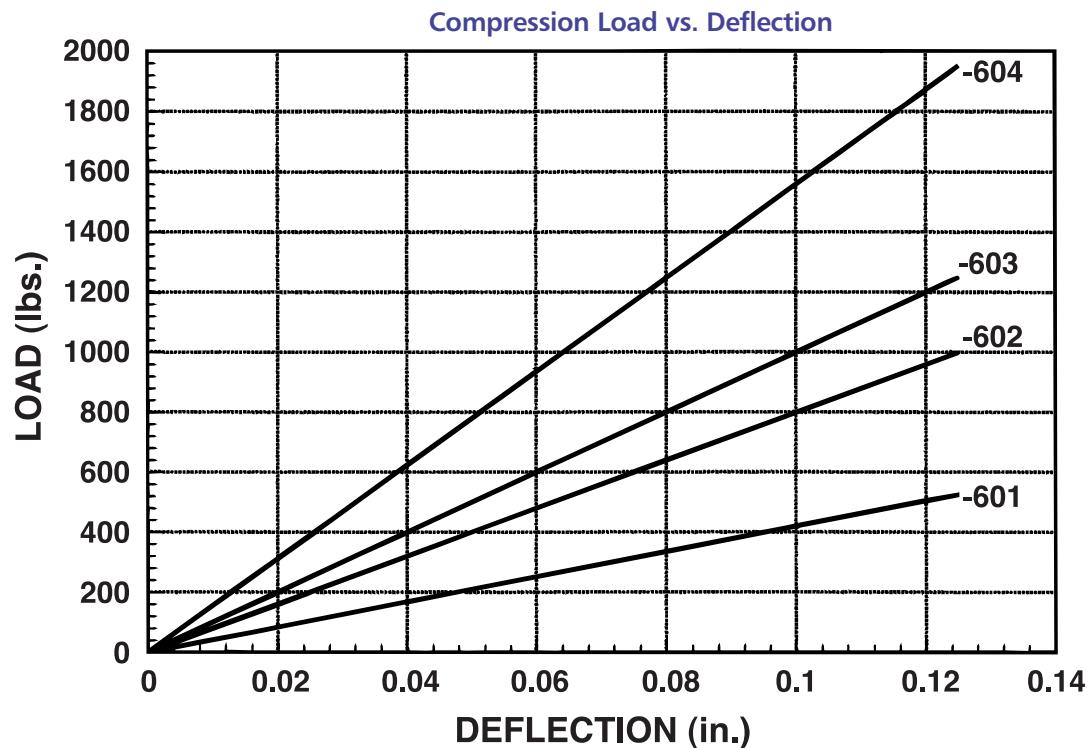
Part No.	Color Code	Max. Load (lbs.)	Spring Rate (lbs./in.)	L (in.)	W (in.)	C (in.)	B (in.)
ET5254-501	Red	375	3,000	5 ³ / ₈	3 ¹ / ₄	4.12	1/2
ET5254-502	Green	800	6,400	5 ³ / ₈	3 ¹ / ₄	4.12	1/2
ET5254-503	Blue	925	7,400	5 ³ / ₈	3 ¹ / ₄	4.12	1/2
ET5254-504	White	1,425	11,500	5 ³ / ₈	3 ¹ / ₄	4.12	1/2
ET5254-601	Red	525	4,150	6 ¹ / ₄	3 ¹⁵ / ₁₆	5.00	3/4
ET5254-602	Green	1,000	8,300	6 ¹ / ₄	3 ¹⁵ / ₁₆	5.00	3/4
ET5254-603	Blue	1,250	10,000	6 ¹ / ₄	3 ¹⁵ / ₁₆	5.00	3/4
ET5254-604	White	1,950	15,600	6 ¹ / ₄	3 ¹⁵ / ₁₆	5.00	3/4

Dome Mounts

ET5254-5xx Series



ET5254-6xx Series



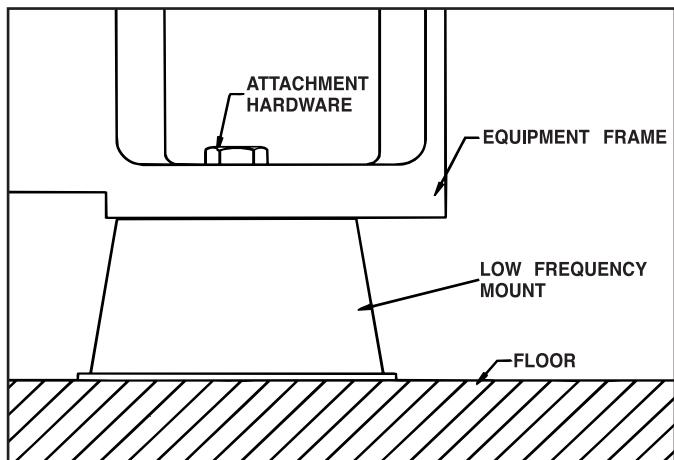
Low Frequency Mounts



ITT Enidine Low Frequency Mounts have a unique design which bonds a steel spring inside a matrix of oil/ozone-resistant neoprene. The springs absorb low frequency vibrations, slowing and passing them onto the resilient neoprene. This material—made even more stable by the springs—interrupts the sound path, prevents noise amplification caused by sounding board effects and stops vibrations from being transmitted to the floor or work surface.

Low Frequency Mounts are made for your toughest vibration applications. They tame the effects of paint mixers, air conditioning units, air compressors and more, indoors and out. There are several models for loads from 50 to 4,700 lbs. which exhibit 3.5 Hz natural frequency at maximum load.

Typical Mounting Application

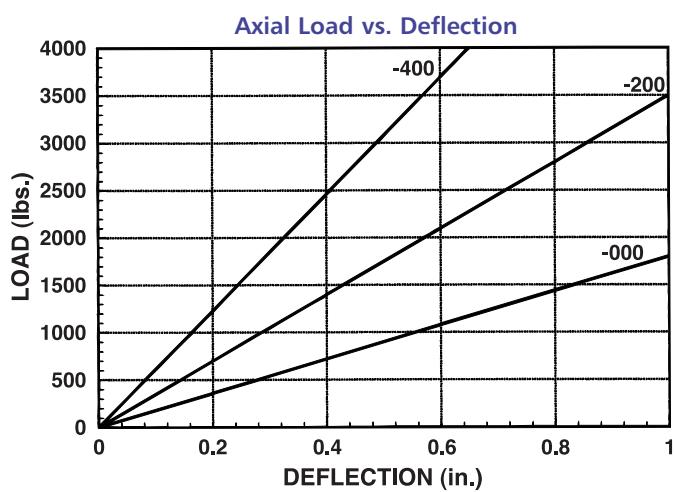


Low Frequency Mounts

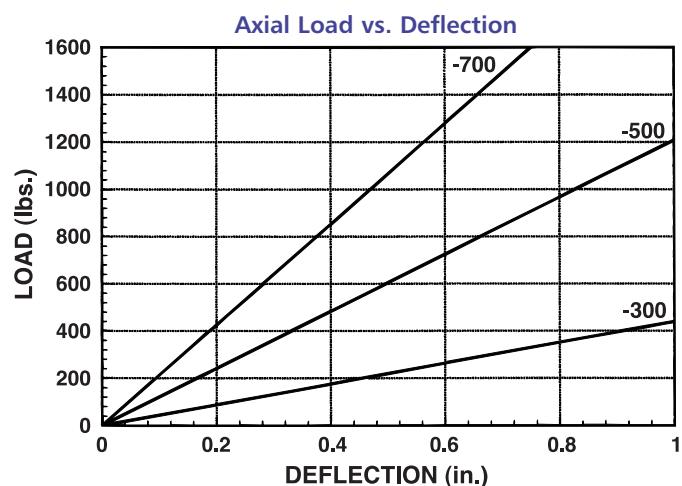
Dimensions and Specifications

Part No.	Color Code	Min. Load (lbs.)	Approx. Defl. (in.)	Max. Load (lbs.)	Approx. Defl. (in.)
ET6106-000	Yellow	150	0.1	1,800	1.0
ET6106-200	Green	500	0.15	3,100	0.9
ET6106-400	White	1,200	0.2	4,700	0.8
Part No.	Color Code	Min. Load (lbs.)	Approx. Defl. (in.)	Max. Load (lbs.)	Approx. Defl. (in.)
ET6150-300	Yellow	50	0.1	400	0.9
ET6150-500	Green	100	0.1	1,100	0.9
ET6150-700	White	250	0.1	2,600	0.9

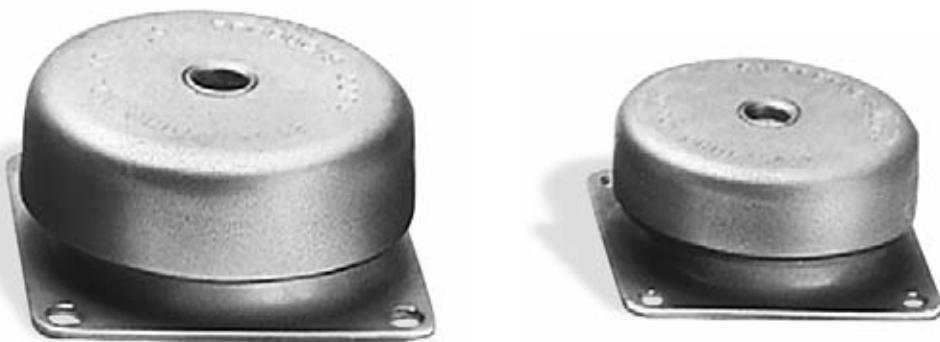
ET6106 Series



ET6150 Series



Cupmounts



Three Way Protection

Help your sensitive equipment defend itself against high-impact shock by installing ITT Enidine Cupmounts. These rugged and versatile mounts also control vibration and interrupt structure-borne noise. Under normal loading conditions, they exhibit natural frequencies of approximately 25 Hz and isolate disturbing frequencies above 35 Hz.

Fail-safe Construction

Available in two basic sizes, these compact, low-profile isolators have interlocking components of steel (other metals available) and standard neoprene or high damped silicone elastomers. They can be used to mount your equipment in compression, tension and shear applications. No matter how the mount is oriented or the load is directed, the elastomer is in compression.

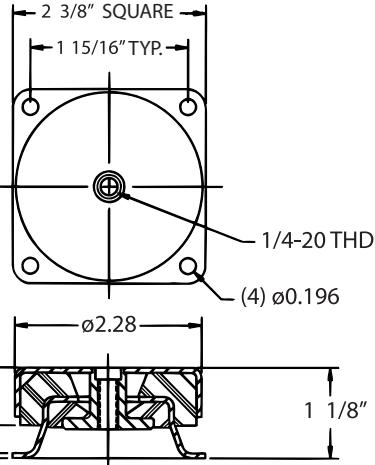
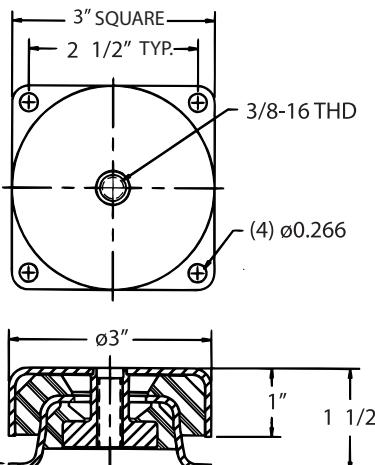
Land, Sea and Air Uses

Great resistance to severe shock makes cupmounts ideal for protecting sensitive equipment used on rough-terrain, off-road vehicles or railroad cars. Industrial manufacturers use cupmounts for everything from numerically controlled machinery, electronic control panels to blowers. They stand guard against shock on shipboard equipment, shipping containers, and both aircraft and missile electronics. Oil resistant standard cupmounts operate over a temperature range of -20°F (-29°C) to +180°F (82°C). For more severe environments, choose optional silicone elastomers to provide increased corrosion resistance and operation over an even wider temperature range.

Cupmounts

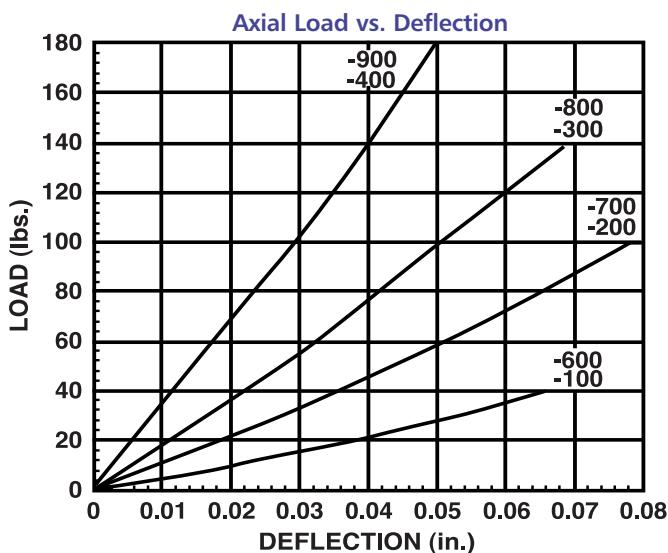
All models are available with thru center holes or metric thread sizes, in addition to the tapped hole dimension shown below.

Standard models have metal parts of cold rolled steel (zinc plated) and a neoprene elastomer; other metals may be requested, in addition high damped silicone is an optional elastomer for special applications.

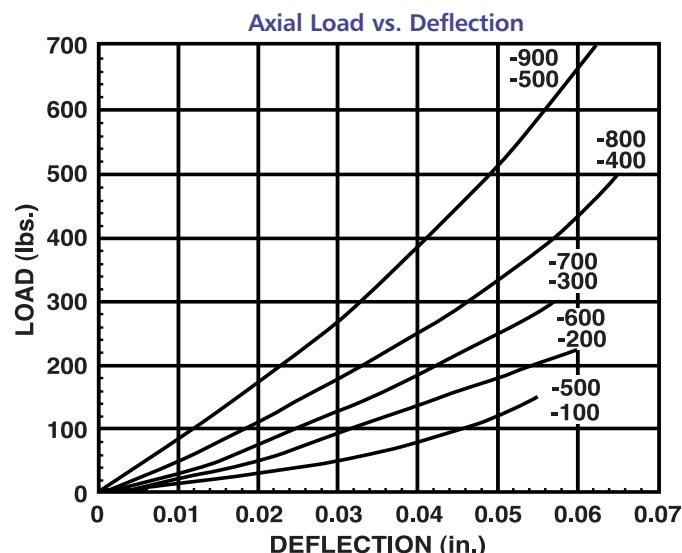
Size 1* 	Size 2 																																												
<table border="1"> <thead> <tr> <th>Standard Neoprene Elastomer Part No.</th> <th>Optional High Damped Silicone Elast. Part No.</th> <th>Maximum Stationary Load (lbs.)</th> <th>Vehicular Load Range (lbs.)</th> </tr> </thead> <tbody> <tr> <td>ET5206-100</td> <td>ET5206-600</td> <td>20</td> <td>8-14</td> </tr> <tr> <td>ET5206-200</td> <td>ET5206-700</td> <td>40</td> <td>14-26</td> </tr> <tr> <td>ET5206-300</td> <td>ET5206-800</td> <td>70</td> <td>26-38</td> </tr> <tr> <td>ET5206-400</td> <td>ET5206-900</td> <td>100</td> <td>38-62</td> </tr> </tbody> </table>	Standard Neoprene Elastomer Part No.	Optional High Damped Silicone Elast. Part No.	Maximum Stationary Load (lbs.)	Vehicular Load Range (lbs.)	ET5206-100	ET5206-600	20	8-14	ET5206-200	ET5206-700	40	14-26	ET5206-300	ET5206-800	70	26-38	ET5206-400	ET5206-900	100	38-62	<table border="1"> <thead> <tr> <th>Standard Neoprene Elastomer Part No.</th> <th>Optional High Damped Silicone Elast. Part No.</th> <th>Maximum Stationary Load (lbs.)</th> <th>Vehicular Load Range (lbs.)</th> </tr> </thead> <tbody> <tr> <td>ET5208-100</td> <td>ET5209-500</td> <td>50</td> <td>15-30</td> </tr> <tr> <td>ET5208-200</td> <td>ET5209-600</td> <td>100</td> <td>30-50</td> </tr> <tr> <td>ET5208-300</td> <td>ET5209-700</td> <td>150</td> <td>50-80</td> </tr> <tr> <td>ET5208-400</td> <td>ET5209-800</td> <td>250</td> <td>80-110</td> </tr> <tr> <td>ET5208-500</td> <td>ET5209-900</td> <td>400</td> <td>110-160</td> </tr> </tbody> </table>	Standard Neoprene Elastomer Part No.	Optional High Damped Silicone Elast. Part No.	Maximum Stationary Load (lbs.)	Vehicular Load Range (lbs.)	ET5208-100	ET5209-500	50	15-30	ET5208-200	ET5209-600	100	30-50	ET5208-300	ET5209-700	150	50-80	ET5208-400	ET5209-800	250	80-110	ET5208-500	ET5209-900	400	110-160
Standard Neoprene Elastomer Part No.	Optional High Damped Silicone Elast. Part No.	Maximum Stationary Load (lbs.)	Vehicular Load Range (lbs.)																																										
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ET5208-100	ET5209-500	50	15-30																																										
ET5208-200	ET5209-600	100	30-50																																										
ET5208-300	ET5209-700	150	50-80																																										
ET5208-400	ET5209-800	250	80-110																																										
ET5208-500	ET5209-900	400	110-160																																										

*Size 1 cupmounts also available with 5/16-18 tapped hole.

ET5206 Series

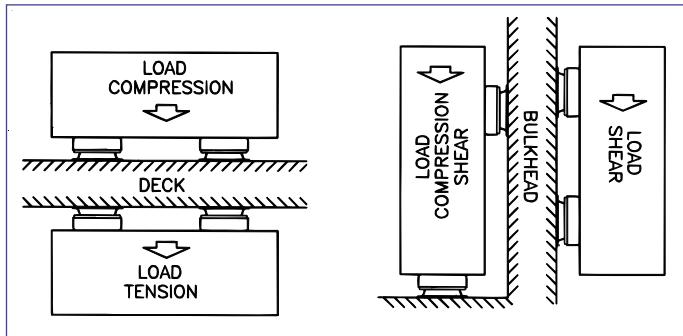


ET5209 Series (TOP) ET5208 Series (BOTTOM)



Cupmounts

Mounting Positions



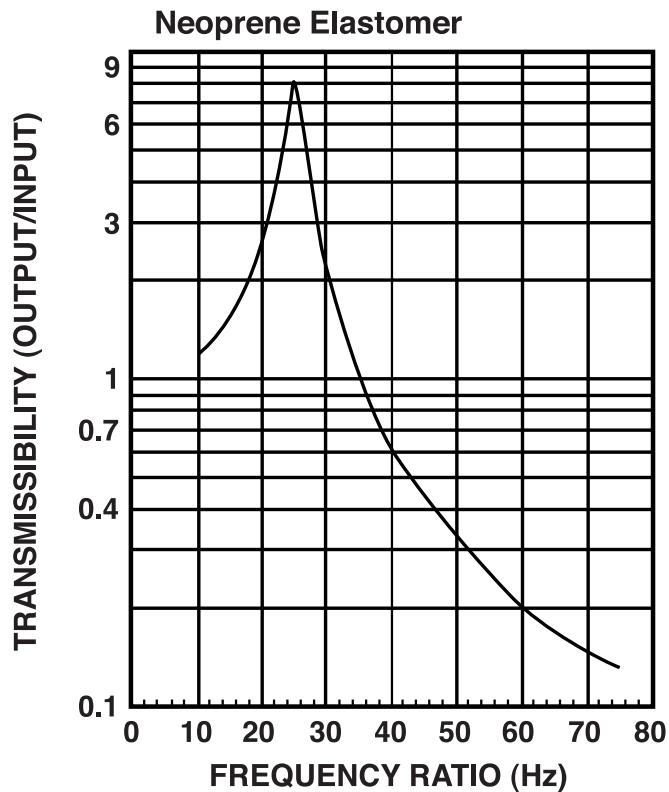
ITT Enidine Cupmounts

Preferred for:

- Protection against vibration, shock and noise
- Multi-directional loading
- Fail-safe construction
- Rugged, compact design
- Load ranges up to 1,800 lbs.
- Choice of elastomers

Since the elastomer is always in compression, ITT Enidine Cupmounts operate with equal efficiency in upright, inverted or bulkhead mounting positions, regardless of how the mount is oriented or the load directed.

Typical Transmissibility



Elastomer Data

Environment	Neoprene	Silicone
Temperature	-20°F (-29°C) to +180°F (82°C)	-80°F (-62°C) to +300°F (149°C)
Ozone Resistance	Good	Excellent
Oil Resistance	Excellent	Good
Heat Aging	Good	Excellent

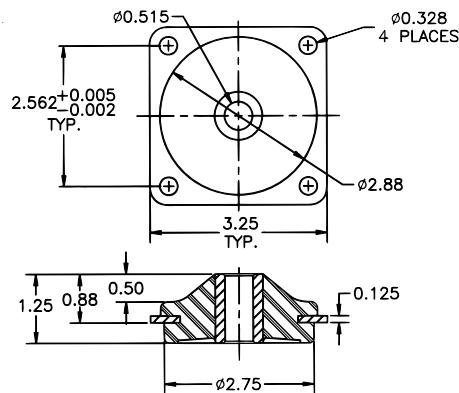
Heavy Duty Plate Mounts



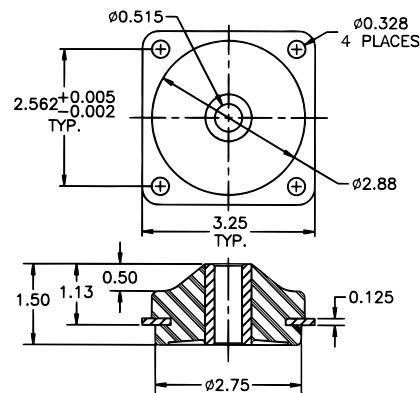
ITT Enidine Heavy Duty Plate Mounts provide excellent vibration isolation for applications where low natural frequency is required. At the rated loads, these mounts provide a natural frequency below 7 Hz. When used with snubbing washers, these mounts are fail-safe and can be used in very abusive applications.

Typical applications include gas and diesel engines, generator sets, pumps, compressors, and many other types of mobile equipment. Materials include oil and ozone resistant neoprene, and low carbon steel. Other elastomers are available, including silicone, natural rubber, and butyl.

ET6159-1xx Series



ET6159-2xx Series



Part Number	Max. Axial Load (lbs.)	Color Code	Part Number	Max. Axial Load (lbs.)	Color Code
ET6159-101	85	Yellow	ET6159-201	150	Red
ET6159-102	120	Red	ET6159-202	185	Green
ET6159-103	155	Green	ET6159-203	320	Blue
ET6159-104	275	Blue	ET6159-204	425	White

Deflection at Maximum Load = 0.25 in.
Radial Stiffness = 2.5 x Axial Stiffness

Stable-Flex Mounts



ITT Enidine Stable-Flex Mounts are specifically engineered to isolate lightweight, low-speed equipment. The complex geometry of the elastomer element in the mount provides a low-axial stiffness and excellent lateral stability.

These fail-safe isolators yield an axial natural frequency of approximately 8 Hz at the rated loads for effective isolation of low speeds. They are constructed of zinc-plated, low-carbon steel, bonded to neoprene for superior ozone and oil resistance.

Other specialty elastomers are available, including high-damped silicone.

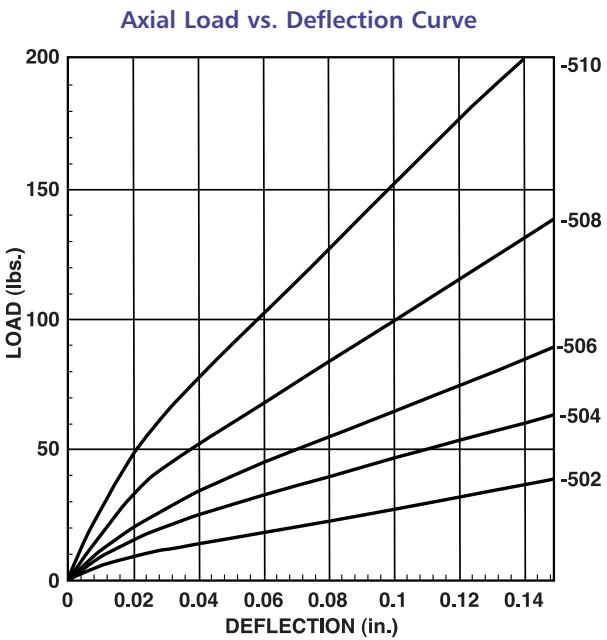
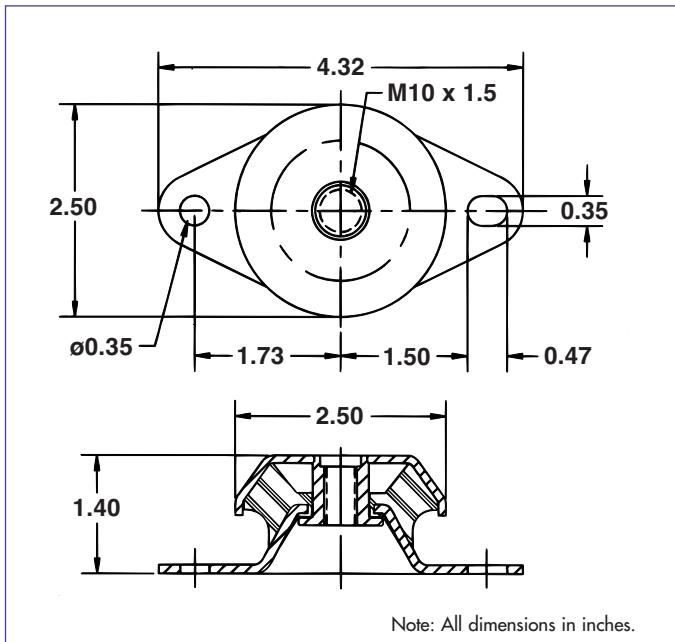
SPECIAL FEATURES

- Low Axial Natural Frequency
- Increased Lateral Stability
- Rugged Construction
- Ease of Installation
- Fail-Safe Design

COMMON APPLICATIONS

- Small Engines
- Generators
- Compressors
- Pumps
- Other Industrial Equipment
- Various Mobile Applications

Stable-Flex Mounts



Part No.	Rated Axial Load (lbs.)	Color Code
ET5204-502	30	Yellow
ET5204-504	55	Red
ET5204-506	75	Green
ET5204-508	120	Blue
ET5204-510	180	White

Note: For $\frac{3}{8}$ -16 Thread add "A" to part number.

Universal Mounts

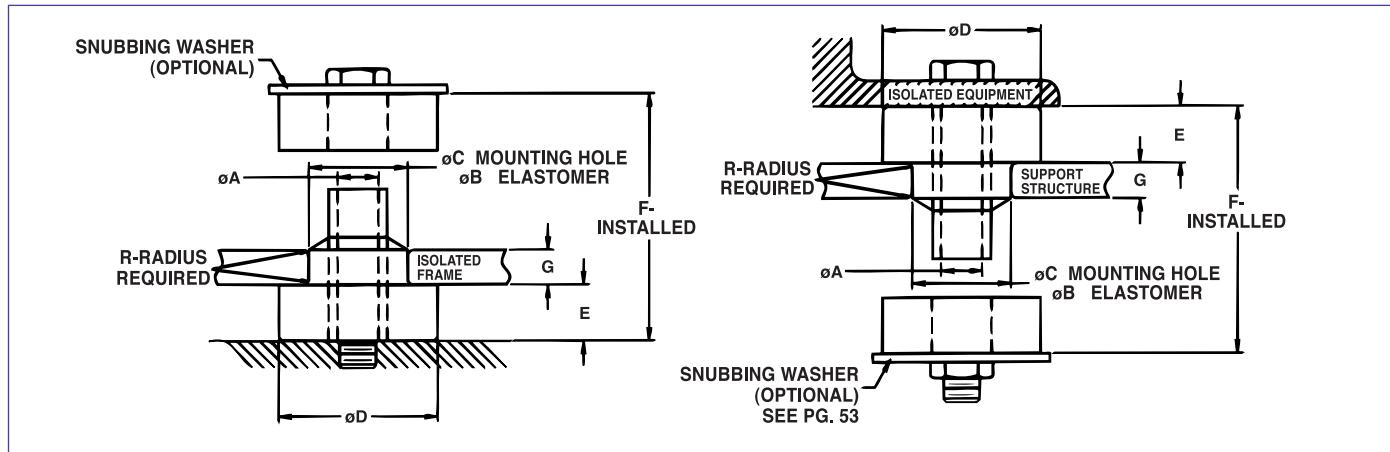


Stop Vibration, Noise and Shock

Low-cost, easy-to-install Universal Mounts provide fail-safe, all-attitude isolation for vehicle cabs, engines, transmissions and other equipment up to 4,550 lbs. in mobile applications. Consisting of two parts—an elastomeric ring and an elastomeric bushing bonded to a center metal spacer—universal mounts are held in

place with a through bolt. With an operating temperature range of -20°F (-29°C) to +180°F (82°C), the standard neoprene elastomer resists ozone, oils and fuels while providing adequate rebound protection. Other elastomers are also available.

Dimensions



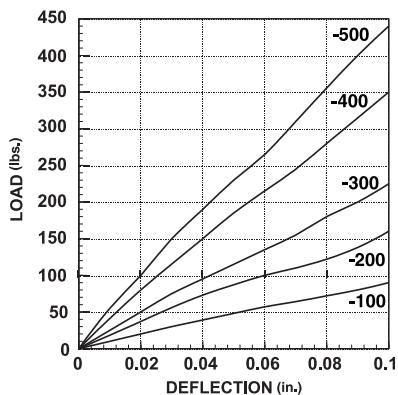
Part No.	A (in.)	B (in.)	C (in.)	D (in.)	E (in.)	F (in.)	G		R (in.)
							Thin Support	Thick Support	
ET6001-100 through -500	0.39	0.78	0.75	1.25	0.50	1.25	0.37	N/A	0.03
ET6002-100 through -500	0.53	1.31	1.25	1.87	0.78	1.94	0.50	0.56	0.06
ET6003-100 through -500	0.64	1.55	1.50	2.53	0.90	2.45	0.75	0.88	0.08
ET6004-100 through -500	0.94	2.30	2.25	3.50	1.00	2.88	1.00	1.12	0.12
ET6005-100 through -500	1.06	2.55	2.50	4.88	1.25	3.38	1.00	1.25	0.12
ET6016-501 through -505	0.64	1.55	1.50	2.53	0.90	1.83	0.25	0.25	0.08
ET6016-601 through -505	0.39	0.78	0.75	1.25	0.50	1.06	0.186	0.186	0.032

For thick support information, contact Enidine.

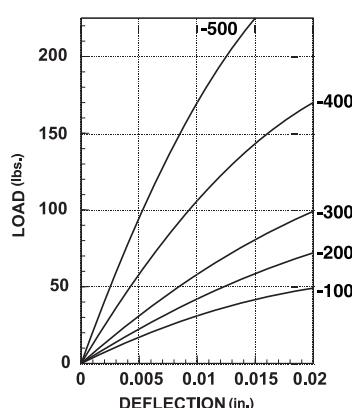
Universal Mounts

ET6001-100 through ET6001-500 Series

Axial Load vs. Deflection



Radial Load vs. Deflection



Curves are for Thin Support

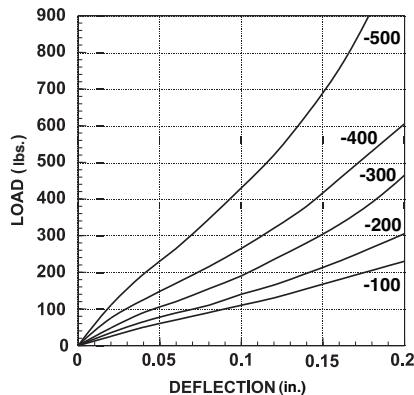
Static Load Rating (lbs.)

Part No.	Color Code	Thin Support	
		Axial	Radial
ET6001-100	Yellow	35	18
ET6001-200	Red	80	27
ET6001-300	Green	130	36
ET6001-400	Blue	235	45
ET6001-500	White	280	55

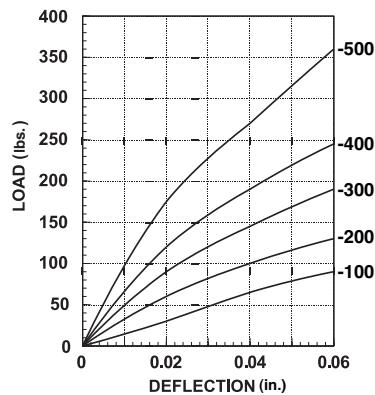
Part No.	Color Code	Thick Support	
		Axial	Radial
ET6001-100	Yellow	N/A	N/A
ET6001-200	Red	N/A	N/A
ET6001-300	Green	N/A	N/A
ET6001-400	Blue	N/A	N/A
ET6001-500	White	N/A	N/A

ET6002-100 through ET6002-500 Series

Axial Load vs. Deflection



Radial Load vs. Deflection



Curves are for Thin Support

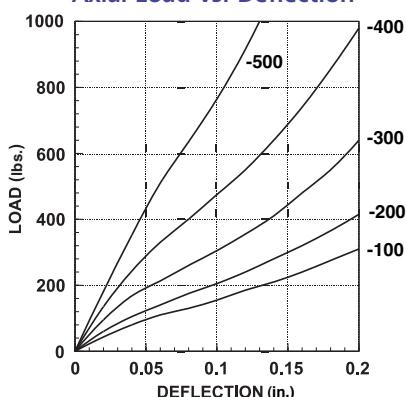
Static Load Rating (lbs.)

Part No.	Color Code	Thin Support	
		Axial	Radial
ET6002-100	Yellow	65	45
ET6002-200	Red	125	80
ET6002-300	Green	170	125
ET6002-400	Blue	275	190
ET6002-500	White	390	290

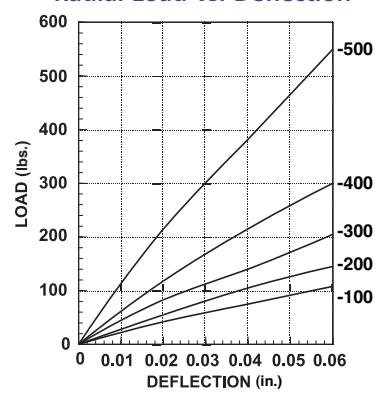
Part No.	Color Code	Thick Support	
		Axial	Radial
ET6002-100	Yellow	135	55
ET6002-200	Red	180	85
ET6002-300	Green	240	130
ET6002-400	Blue	380	190
ET6002-500	White	630	290

ET6003-100 through ET6003-500 Series

Axial Load vs. Deflection



Radial Load vs. Deflection



Curves are for Thin Support

Static Load Rating (lbs.)

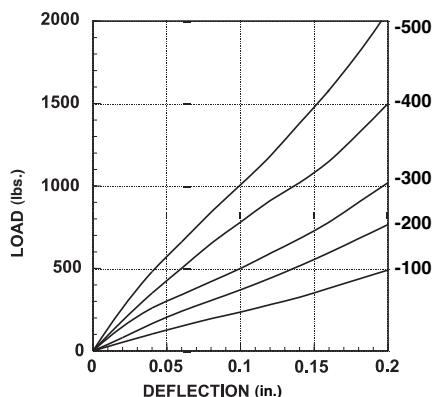
Part No.	Color Code	Thin Support	
		Axial	Radial
ET6003-100	Yellow	100	80
ET6003-200	Red	180	120
ET6003-300	Green	250	175
ET6003-400	Blue	350	265
ET6003-500	White	500	370

Part No.	Color Code	Thick Support	
		Axial	Radial
ET6003-100	Yellow	215	90
ET6003-200	Red	360	140
ET6003-300	Green	490	225
ET6003-400	Blue	860	385
ET6003-500	White	1,330	690

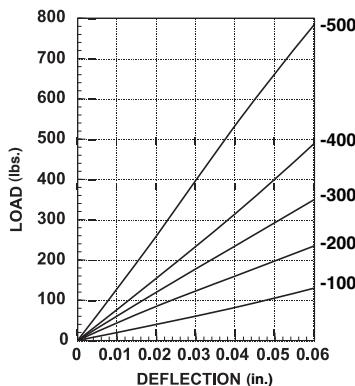
Universal Mounts

ET6004-100 through ET6004-500 Series

Axial Load vs. Deflection



Radial Load vs. Deflection



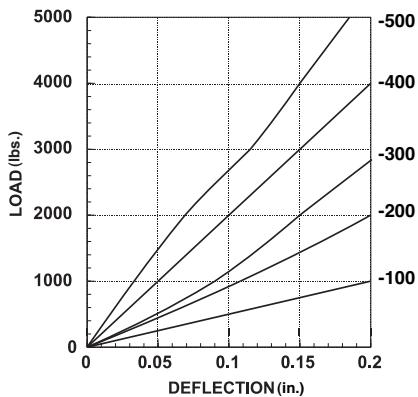
Curves are for Thin Support

Static Load Rating (lbs.)

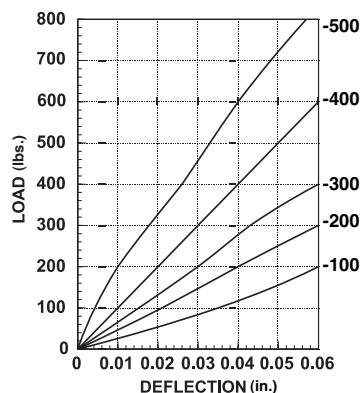
Part No.	Color Code	Thin Support	
		Axial	Radial
ET6004-100	Yellow	160	100
ET6004-200	Red	300	200
ET6004-300	Green	410	310
ET6004-400	Blue	520	420
ET6004-500	White	610	570
Part No.	Color Code	Thick Support	
		Axial	Radial
ET6004-100	Yellow	270	130
ET6004-200	Red	500	210
ET6004-300	Green	760	330
ET6004-400	Blue	1,150	550
ET6004-500	White	2,070	955

ET6005-100 through ET6005-500 Series

Axial Load vs. Deflection



Radial Load vs. Deflection

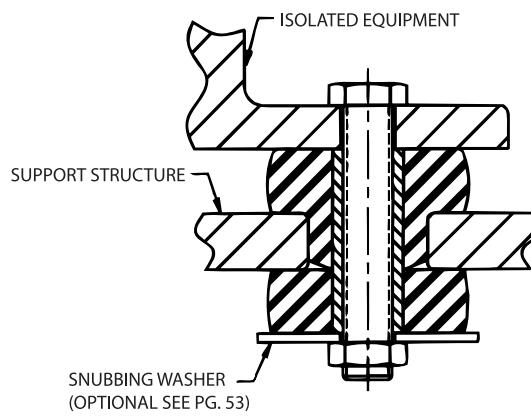
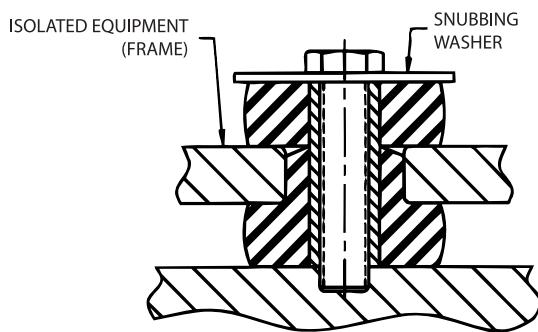


Curves are for Thin Support

Static Load Rating (lbs.)

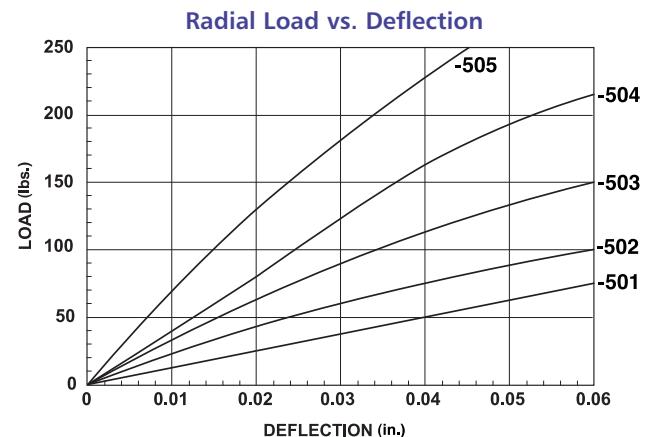
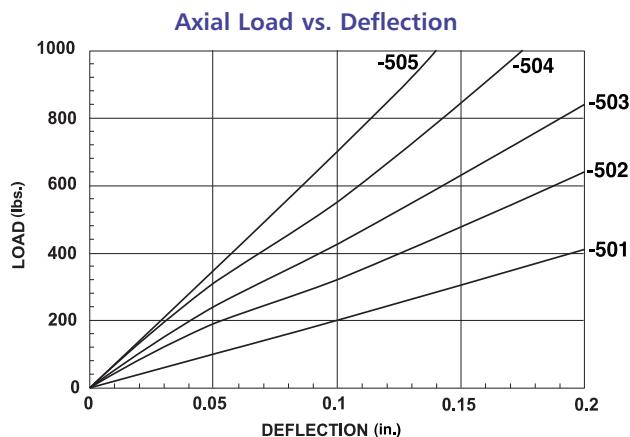
Part No.	Color Code	Thin Support	
		Axial	Radial
ET6005-100	Yellow	300	150
ET6005-200	Red	500	220
ET6005-300	Green	700	300
ET6005-400	Blue	900	470
ET6005-500	White	1,200	660
Part No.	Color Code	Thick Support	
		Axial	Radial
ET6005-100	Yellow	1,150	250
ET6005-200	Red	1,925	350
ET6005-300	Green	2,575	600
ET6005-400	Blue	3,550	900
ET6005-500	White	4,550	1,400

Mounting Configurations



Universal Mounts

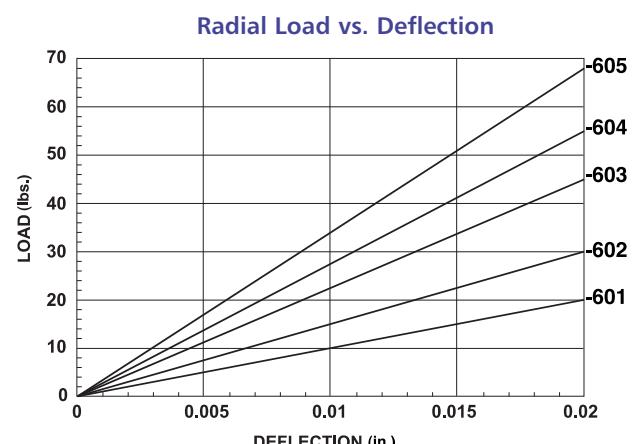
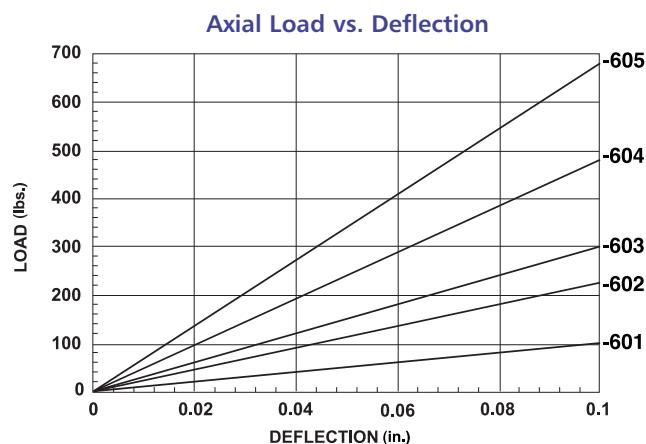
ET6016-501 through -505 Series



Static Load Rating (lbs.)

Part No.	Color Code	Axial	Radial
ET6016-501	Yellow	215	40
ET6016-502	Red	360	60
ET6016-503	Green	490	88
ET6016-504	Blue	860	133
ET6016-505	White	1,330	185

ET6016-601 through -605 Series



Static Load Rating (lbs.)

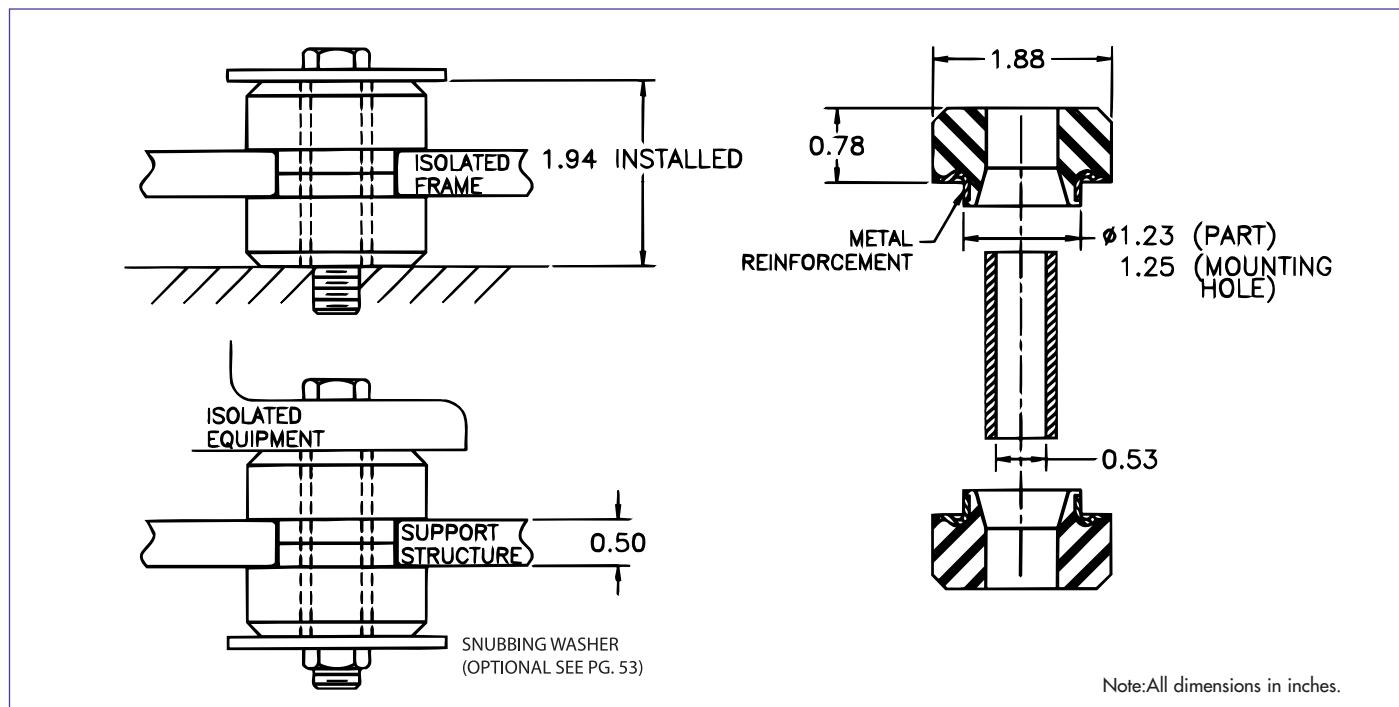
Part No.	Color Code	Axial	Radial
ET6016-601	Yellow	35	9
ET6016-602	Red	80	14
ET6016-603	Green	130	18
ET6016-604	Blue	235	23
ET6016-605	White	280	28

Armor Plated Universal Mounts



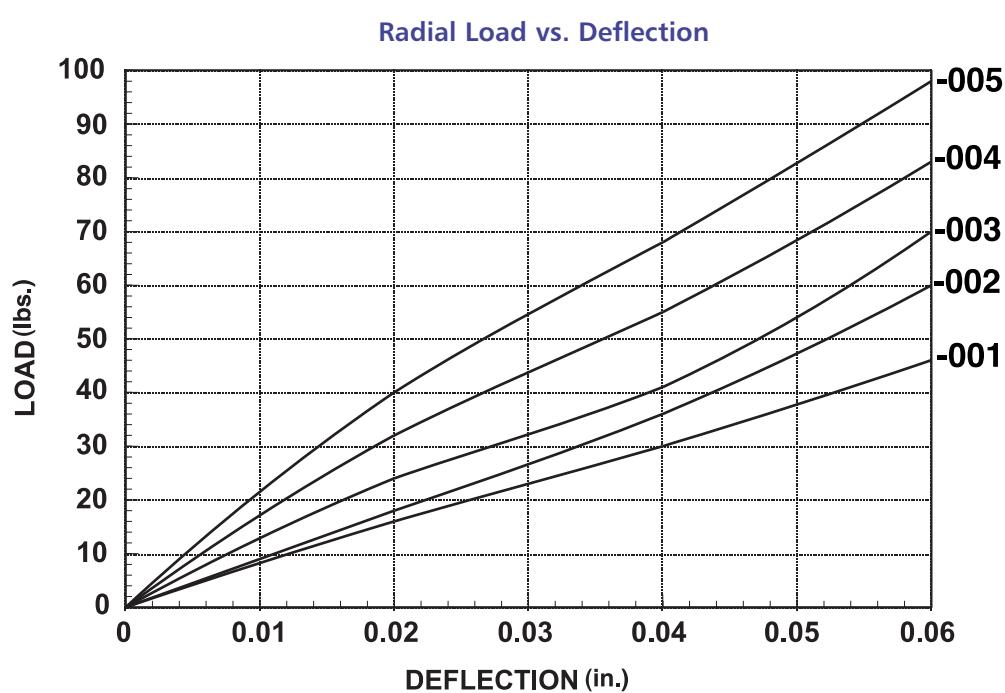
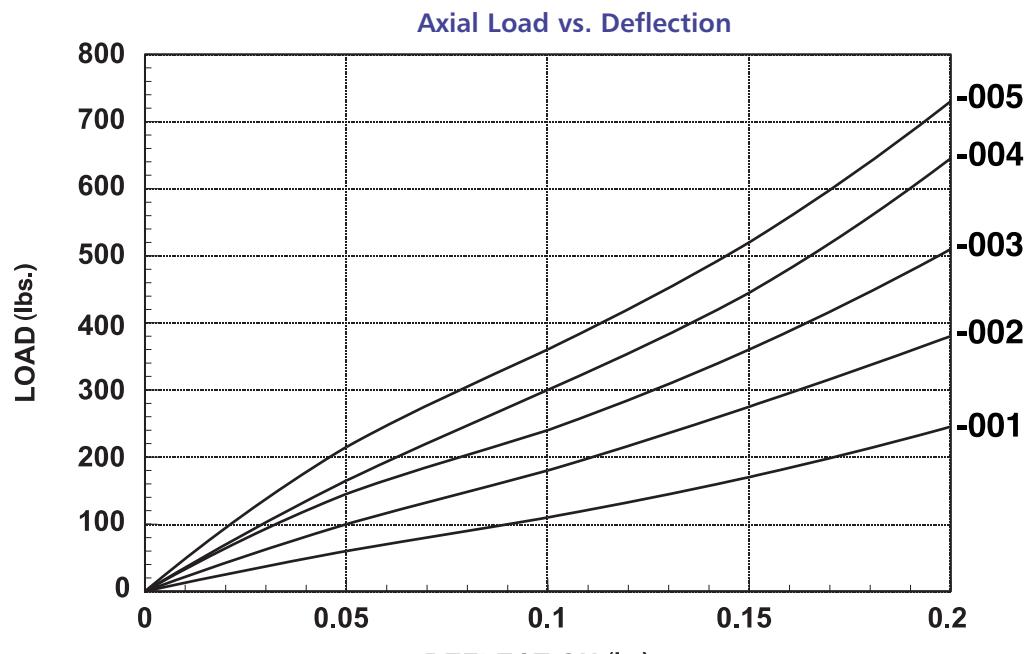
The Armor Plated Universal Mount can be used in the same applications as the standard Universal Mount, however, since it has bonded-in steel wear surfaces, it can be used in more extreme environments. The steel wear surfaces eliminate the need for machining a radius in the support structure.

Part No.	Color	Max. Shear Load (lbs.)	Max. Comp. Load (lbs.)
ET6027-001	Yellow	16	100
ET6027-002	Red	20	150
ET6027-003	Green	25	200
ET6027-004	Blue	32	250
ET6027-005	White	40	300



Armor Plated Universal Mounts

ET6027-001 through -005 Series



ET515 Series Mounts



Compact ET515 Series all-attitude mounts are a money-saving way to protect equipment from shock and vibration. High load capacity, stability and the ability to be installed at any mounting angle make them ideal for a wide variety of applications, including vehicle cabs, truck, bus and marine engines, generators, air conditioning units, motors and electronic equipment.

Available in seven basic sizes from 2 to 4¹/₂ in. diameter, ET515 Series mounts handle axial loads of 100 to 2,700 lbs. and can be installed at any convenient mounting angle thanks to their "shouldered" core design that makes optimum use of the neoprene elastomer shear and compressive properties. They offer a fail-safe installation when the proper snubbing washers are used.

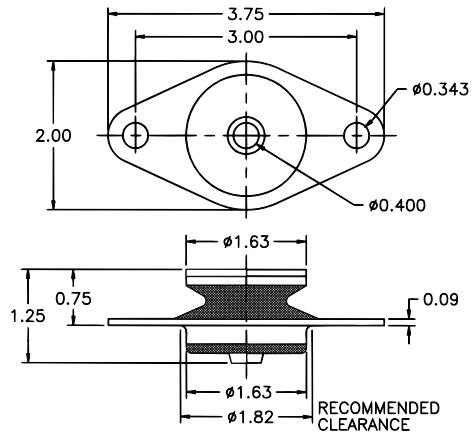
Oil, fuel and solvent-resistant neoprene—with a temperature range of -20°F (-29°C) to +180°F (82°C)—provides isolation in all planes, regardless of the direction of the exciting forces.

At maximum load, the natural frequency of the ET515 is about 8.5 Hz, providing effective isolation from disturbing frequencies of 12 Hz and above.

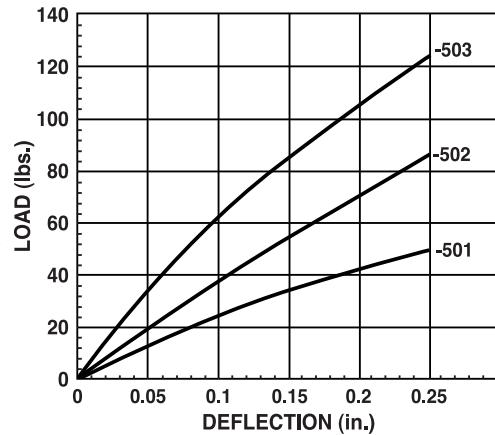
Part Number	Color Code	Max. Axial Load (lbs.)	Max. Radial Load (lbs.)
ET5150-501	Yellow	38	N/A
ET5150-502	Red	60	N/A
ET5150-503	Green	90	N/A
ET5150-601	Yellow	75	N/A
ET5150-602	Red	105	N/A
ET5150-603	Green	150	N/A
ET5150-701	Red	150	100
ET5150-702	Green	200	150
ET5150-703	Blue	270	180
ET5150-704	White	330	220
ET5150-801	Yellow	270	180
ET5150-802	Red	330	220
ET5150-803	Green	390	260
ET5150-804	Blue	480	320
ET5150-805	White	570	380
ET5151-001	Yellow	480	320
ET5151-002	Red	570	380
ET5151-003	Green	690	460
ET5151-004	Blue	840	560
ET5151-005	White	1,020	680
ET5151-201	Yellow	690	460
ET5151-202	Red	840	560
ET5151-203	Green	1,020	680
ET5151-204	Blue	1,245	830
ET5151-205	White	1,500	1,000
ET5151-601	Red	1,350	800
ET5151-602	Green	1,600	1,000
ET5151-603	Blue	1,900	1,400
ET5151-604	White	2,600	1,800

ET515 Series Mounts

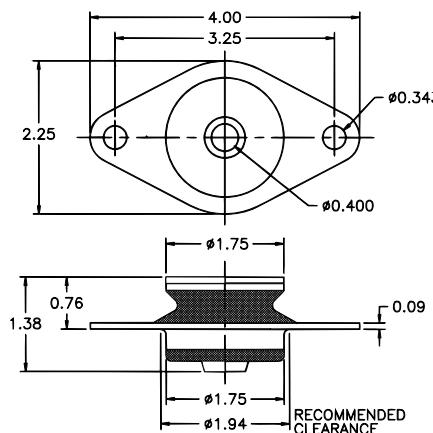
ET5150-501 through -503 Series



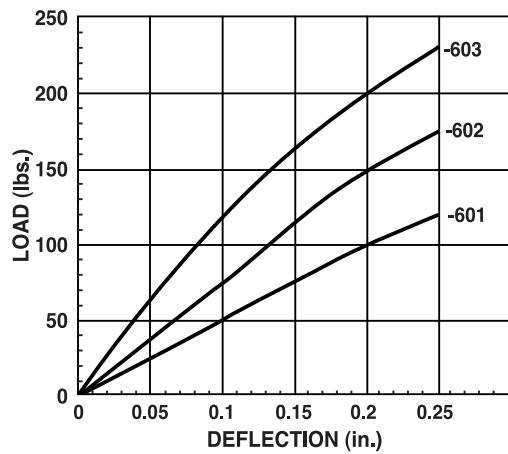
Axial Load vs. Deflection



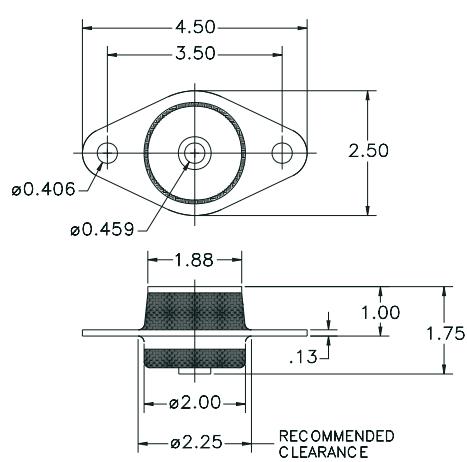
ET5150-601 through -603 Series



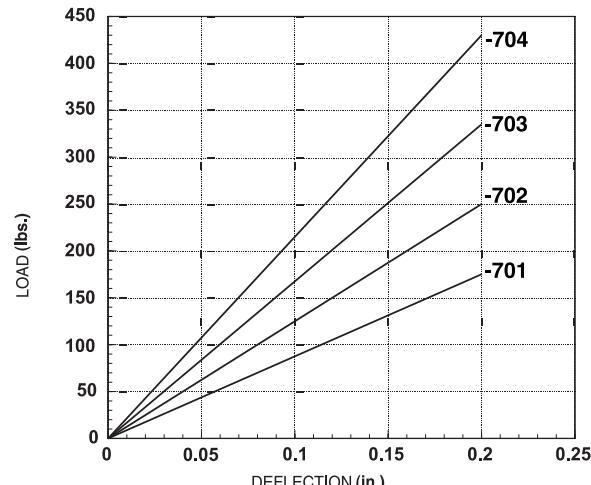
Axial Load vs. Deflection



ET5150-701 through -704 Series

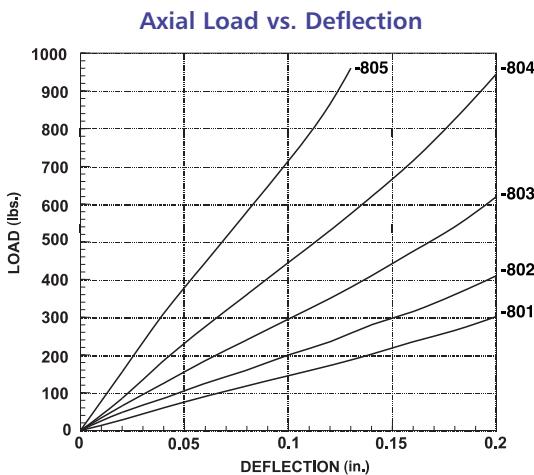
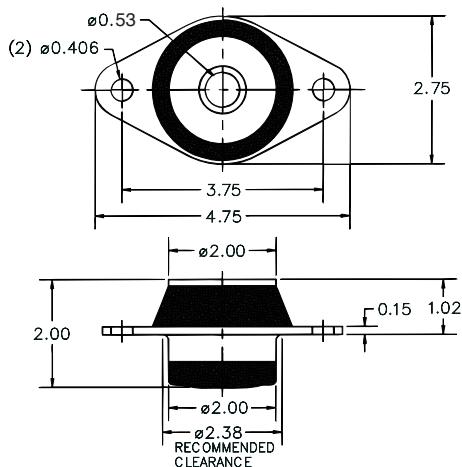


Axial Load vs. Deflection

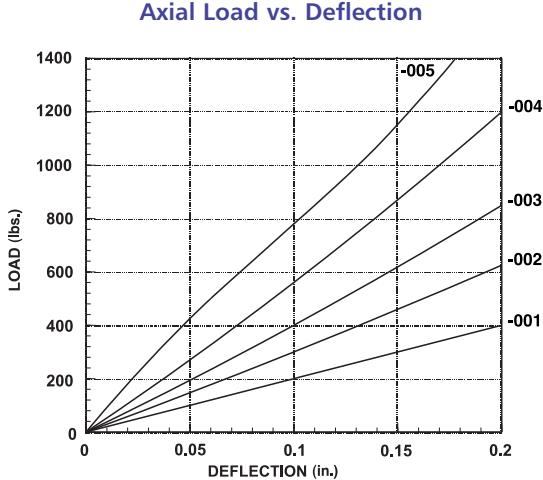
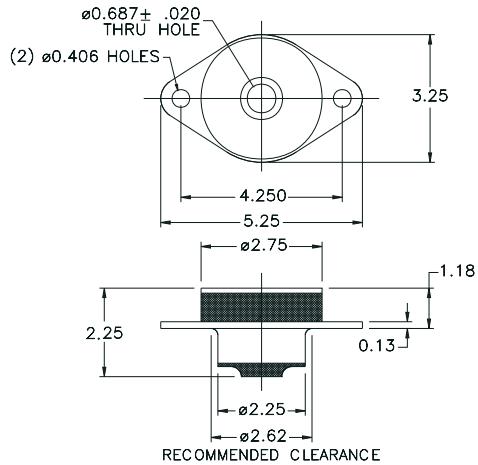


ET515 Series Mounts

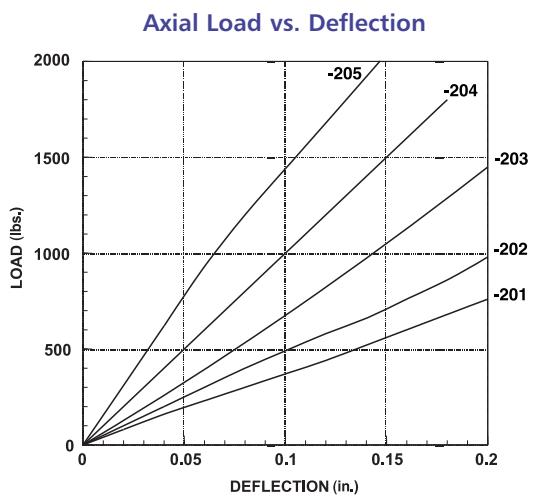
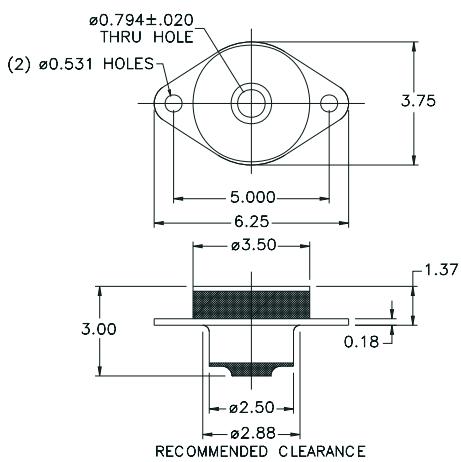
ET5150-801 through -805 Series



ET5151-001 through -005 Series

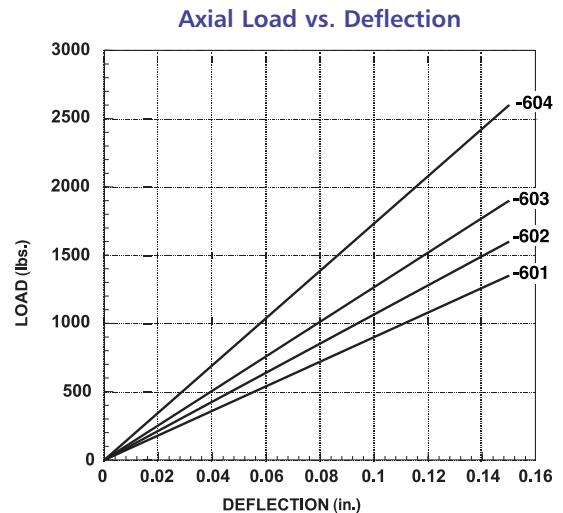
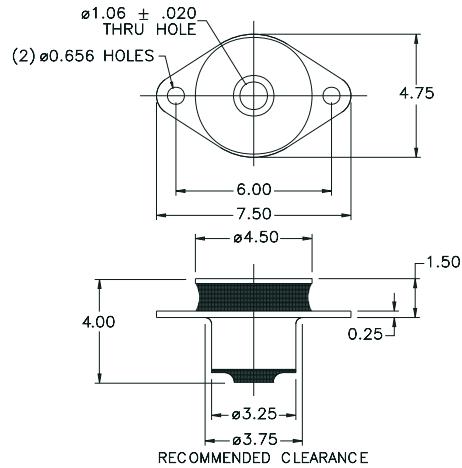


ET5151-201 through -205 Series

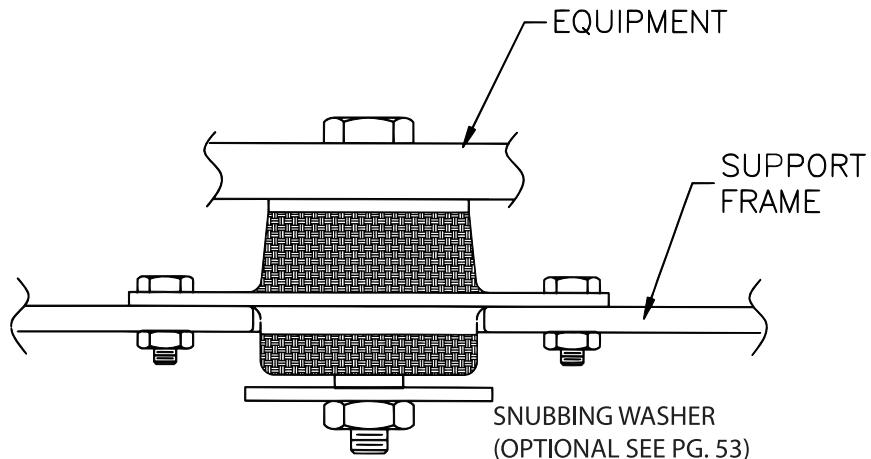


ET515 Series Mounts

ET5151-601 through -604 Series



Typical Mounting Configuration



Center Bushing Mounts

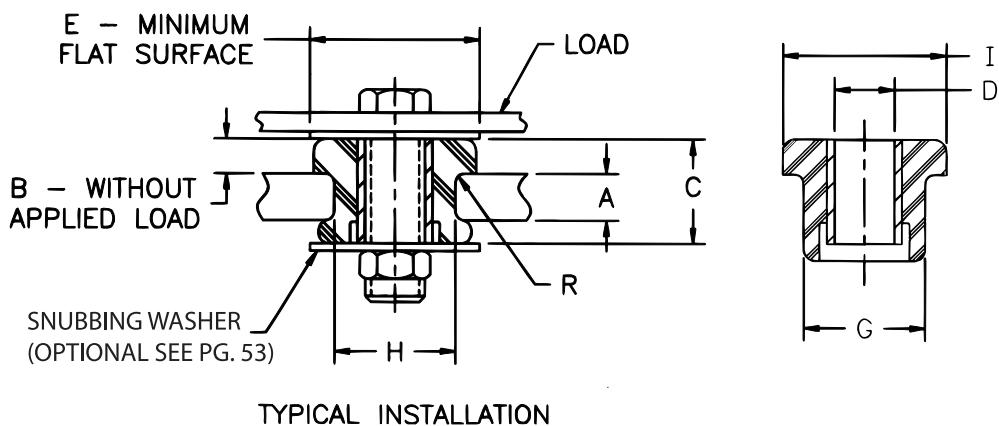


Here's the answer to fail-safe, multi-directional isolation in heavy-duty applications. During installation, a self-contained rebound is formed when a Center Bushing Mount's resilient element spreads under compression and the internal steel bushing serves as a positive spacer.

These low-deflection, one-piece safety mounts are rated by static load in the axial direction and can handle dynamic loads of up to three times their static load rating.

Versatile Center Bushing Mounts will also take dynamic radial loads, but we recommend against using them for static radial loads.

Neoprene elastomers operate over a temperature range of -20°F (-29°C) to +180°F (82°C).



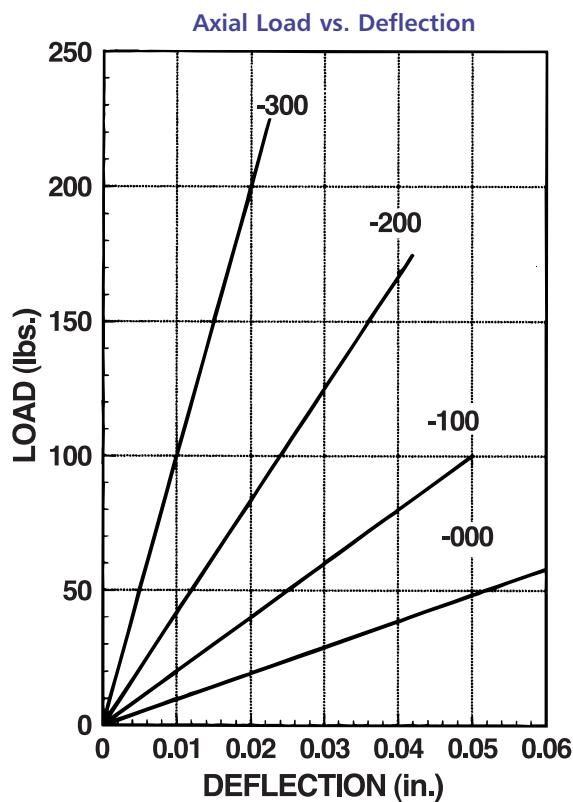
Part No.	A (in.)	B (in.)	C (in.)	D (in.)	E(min.)	F(min.)	G (in.)	H (in.)	I (in.)	R(min.)
ET6022-000 through -300	0.31	0.23	0.69	0.40	1.25	1.10	0.81	0.75	1.09	0.06
ET6023-000 through -300	0.38	0.41	1.00	0.47	2.00	1.50	1.24	1.12	1.75	0.06
ET6023-500 through -800	0.62	0.53	1.38	0.53	2.25	1.70	1.35	1.25	2.00	0.06
ET6024-000 through -300	0.62	0.53	1.38	0.64	2.25	1.70	1.35	1.25	2.00	0.06
ET6024-500 through -800	0.75	0.62	1.75	0.64	2.85	2.20	1.61	1.50	2.50	0.06
ET6025-000 through -300	0.93	0.80	2.00	0.64	3.50	2.50	1.96	1.81	2.97	0.12
ET6026-000 through -300	0.75	1.13	2.12	0.77	4.25	2.70	2.20	2.00	3.68	0.12

Center Bushing Mounts

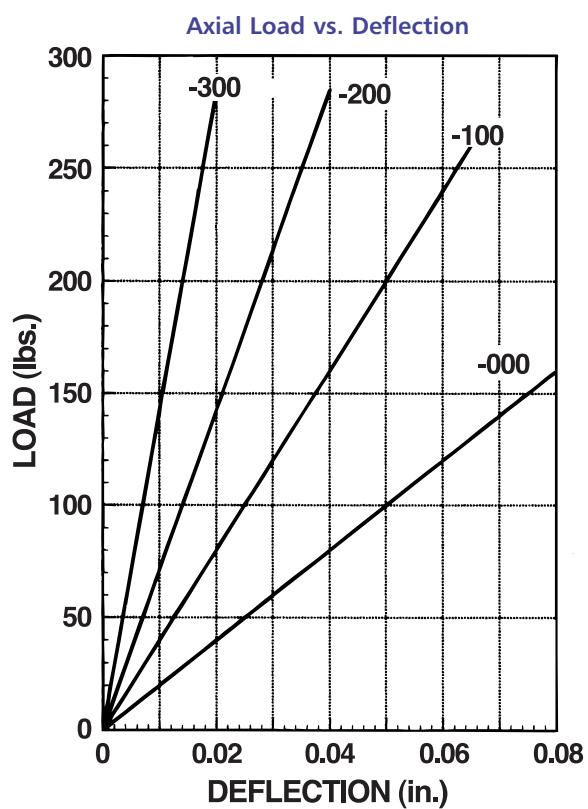
Part No.	Color Code	Max. Load (lbs.)
ET6022-000	Red	30
ET6022-100	Green	50
ET6022-200	Blue	80
ET6022-300	White	140

Part No.	Color Code	Max. Load (lbs.)
ET6023-000	Red	130
ET6023-100	Green	190
ET6023-200	Blue	300
ET6023-300	White	520

ET6022 Series



ET6023 Series



Center Bushing Mounts

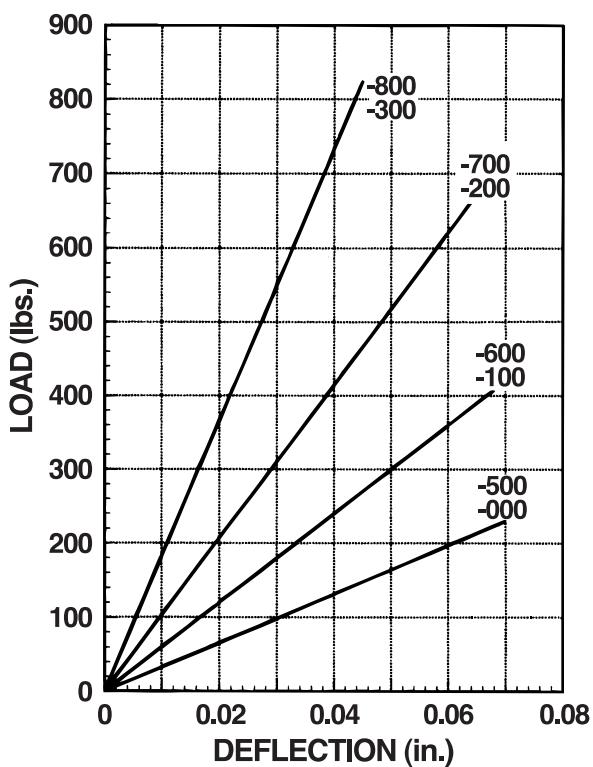
Part No.	Color Code	Max. Load (lbs.)
ET6023-500/ET6024-000	Red	230
ET6023-600/ET6024-100	Green	360
ET6023-700/ET6024-200	Blue	520
ET6023-800/ET6024-300	White	720

Part No.	Color Code	Max. Load (lbs.)
ET6024-500	Red	400
ET6024-600	Green	540
ET6024-700	Blue	750
ET6024-800	White	1,100

ET6023 Series (TOP)

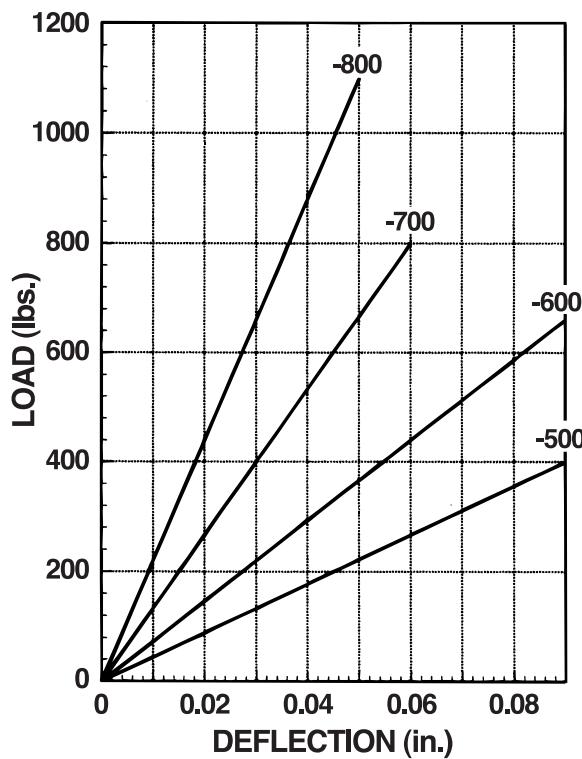
ET6024 Series (BOTTOM)

Axial Load vs. Deflection



ET6024 Series

Axial Load vs. Deflection



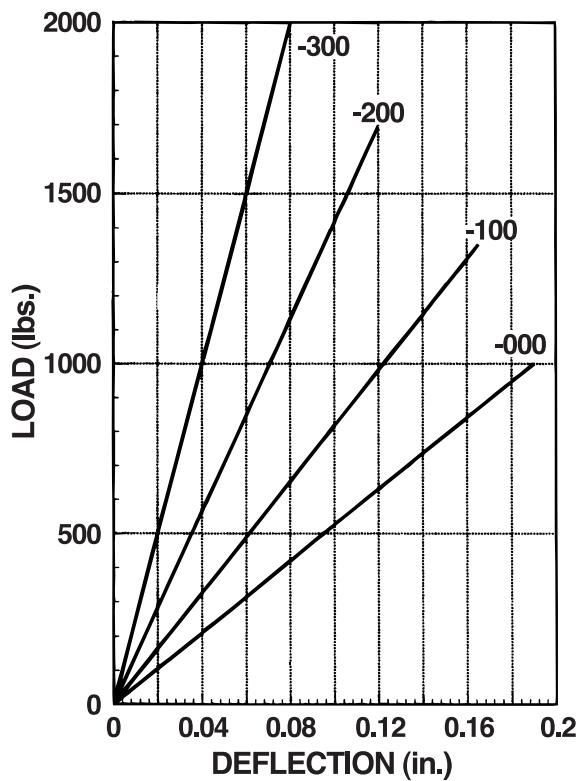
Center Bushing Mounts

Part No.	Color Code	Max. Load (lbs.)
ET6025-000	Red	600
ET6025-100	Green	800
ET6025-200	Blue	1,100
ET6025-300	White	1,500

Part No.	Color Code	Max. Load (lbs.)
ET6026-000	Red	950
ET6026-100	Green	1,300
ET6026-200	Blue	1,850
ET6026-300	White	2,400

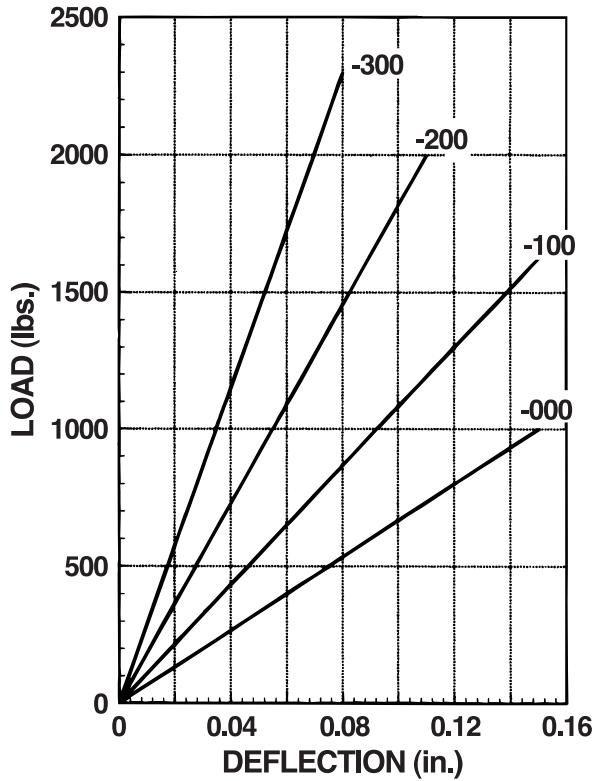
ET6025 Series

Axial Load vs. Deflection



ET6026 Series

Axial Load vs. Deflection



Ring and Bushing Mounts

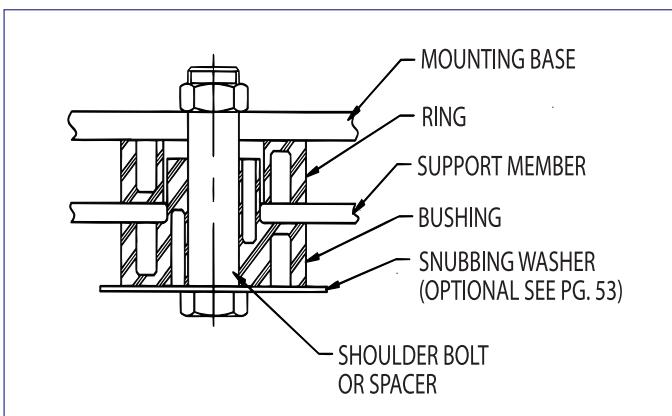


Neoprene Ring and Bushing Mounts are incorporated directly into the structural components of equipment such as office machines, motors and pumps, as well as air conditioning, electronic and scientific equipment. They offer fail-safe operation when installed in pairs.

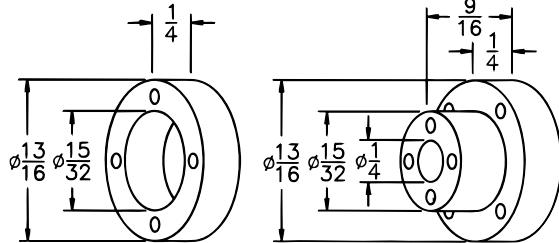
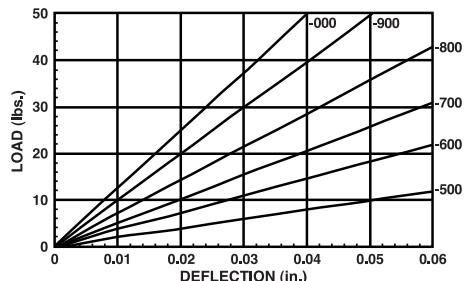
Opposing holes in the elastomer provide excellent low-frequency isolation. The location of the holes isolates vibration and cushions shock parallel to the mount axis. The bushing's holes isolate vibration perpendicular to its axis.

Even if the elastomer is somehow damaged or destroyed, the mounted member stays securely on the supporting structure when properly installed. Neoprene offers temperature range operation of -20°F (-29°C) to +180°F (82°C).

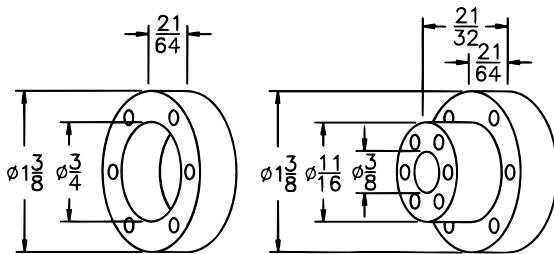
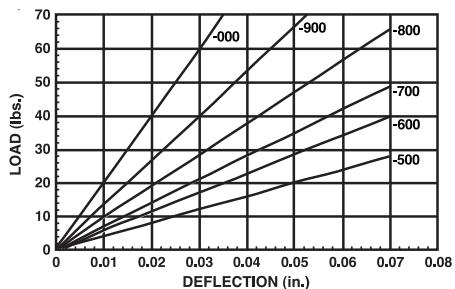
Typical Mounting Application



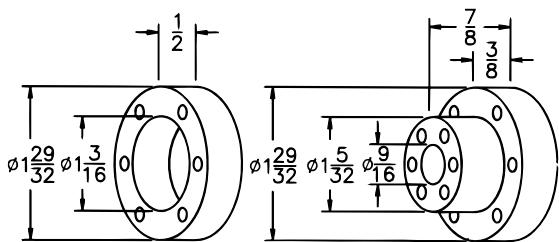
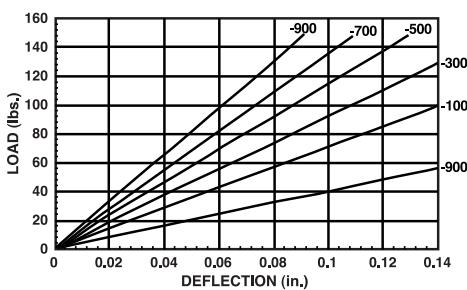
Ring and Bushing Mounts



Ring Part No.	Bushing Part No.	Color Code	Min. Load (lbs.)	Max. Load (lbs.)
ET5180-500	ET5182-000	Silver	1	5
ET5180-600	ET5182-100	Yellow	2	10
ET5180-700	ET5182-200	Red	4	15
ET5180-800	ET5182-300	Green	6	20
ET5180-900	ET5182-400	Blue	8	25
ET5181-000	ET5182-500	White	10	30



Ring Part No.	Bushing Part No.	Color Code	Min. Load (lbs.)	Max. Load (lbs.)
ET5183-500	ET5185-000	Silver	4	20
ET5183-600	ET5185-100	Yellow	8	25
ET5183-700	ET5185-200	Red	10	35
ET5183-800	ET5185-300	Green	14	45
ET5183-900	ET5185-400	Blue	18	55
ET5184-000	ET5185-500	White	22	65



Ring Part No.	Bushing Part No.	Color Code	Min. Load (lbs.)	Max. Load (lbs.)
ET5186-900	ET5187-000	Silver	10	30
ET5187-100	ET5187-200	Yellow	14	40
ET5187-300	ET5187-400	Red	25	50
ET5187-500	ET5187-600	Green	35	65
ET5187-700	ET5187-800	Blue	45	85
ET5187-900	ET5188-000	White	50	100

All-Attitude Mounts



ITT Enidine's ET5642-1xx Series elastomeric mounts have an aluminum center plate suited for built-in electronics. The ET5642-2xx Series is a holder style, where a base mounted configuration is needed.

Three models carry maximum load ratings of 4.5, 7 and 10 lbs., based on 0.036" double-amplitude input.

An elastomer-in-compression design assures effective isolation in all directions. Fail-safe construction retains the equipment under a 30G, 11 millisecond shock input at rated loads, even if the elastomer is destroyed.

The highly damped silicone elastomer provides optimum vibration isolation over a temperature range of -65°F (-54°C) to +300°F (149°C) and low transmissibility at a resonance of about 3.5 maximum. Radial to axial stiffness ratio is approximately 0.6.

All models meet the environmental requirements of MIL-E-5400, with mounting hole patterns conforming to MIL-Size 0. They are unaffected by ozone, fungus or high humidity.

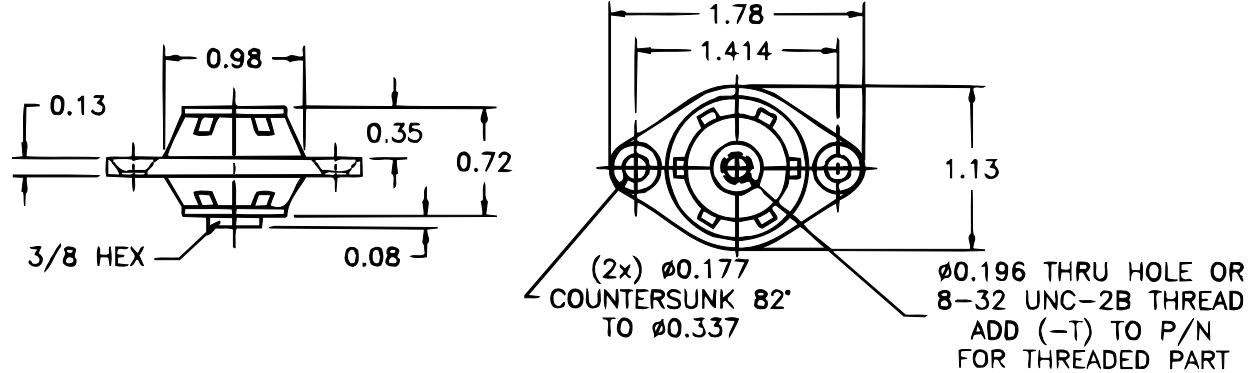
Part No.	Color Code	Max. Stationary Load (lbs.)
ET5642-140	Red	4.5
ET5642-150	Yellow	7.0
ET5642-160	Green	10.0

Holder Style

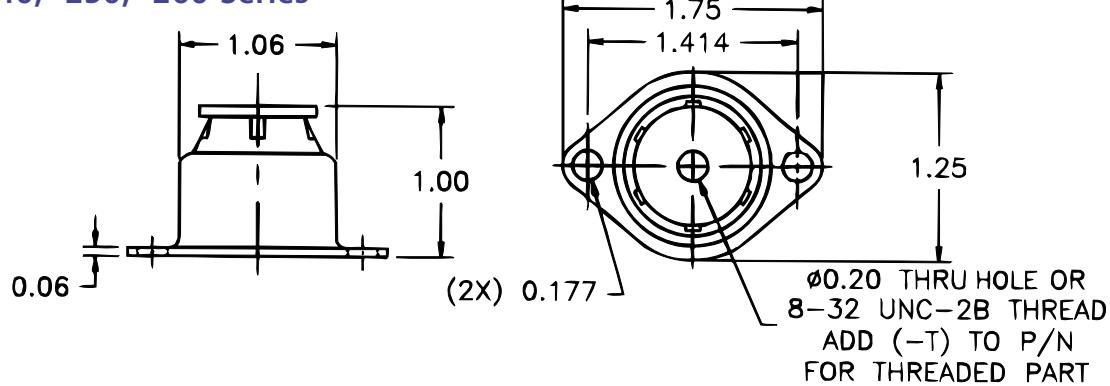
Part No.	Color Code	Max. Stationary Load (lbs.)
ET5642-240	Red	4.5
ET5642-250	Yellow	7.0
ET5642-260	Green	10.0

All-Attitude Mounts

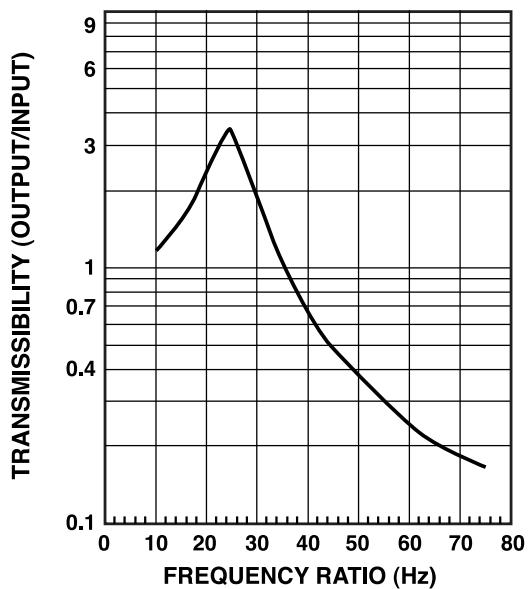
ET5642-140, -150, -160 Series



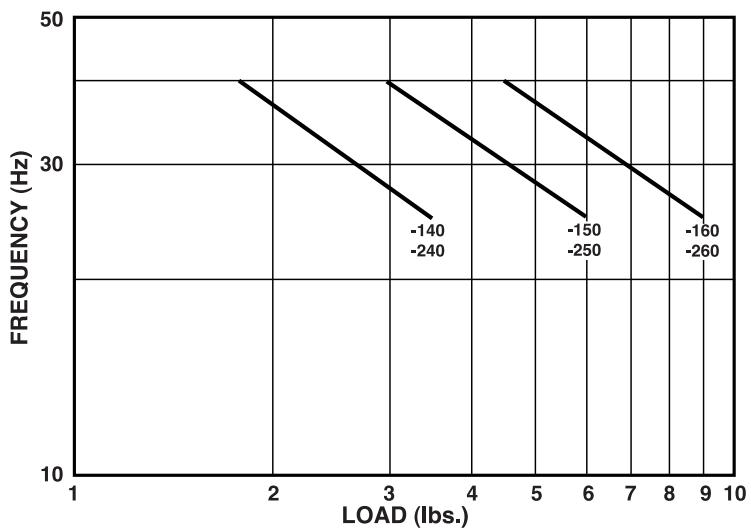
ET5642-240, -250, -260 Series



Transmissibility



Load vs. Frequency



All-Attitude Mounts

ET5220 Series



ET5220 Series All-Attitude isolators protect stationary loads of 15-50 lbs. and vehicular loads up to 30 lbs. from vibration, shock and noise.

An elastomer-in-compression design provides effective, fail-safe protection in any mounting position, even if the elastomer is destroyed.

The ET5220 Series plate style elastomer is for low profile use. The neoprene elastomer is standard, but high damped silicone (HD) is also available to meet your specific application needs.

HD models—which meet MIL-E-5400 vibration and shock requirements—have a temperature range of -65°F (-54°C) to +300°F (149°C) and a maximum transmissibility of about 3.5. Neoprene models have a temperature range of -20°F (-29°C) to +180°F (82°C) with excellent resistance to oil and ozone. Radial to axial stiffness ratio on all models is approximately 0.6.

Part No.	Color Code	Max. Stationary Load (lbs.)	Max. Vehicular Load (lbs.)
ET5220-500	Red	15	4-7
ET5220-600	Green	25	8-11
ET5220-700	Yellow	35	12-17
ET5220-800	Blue	50	18-30

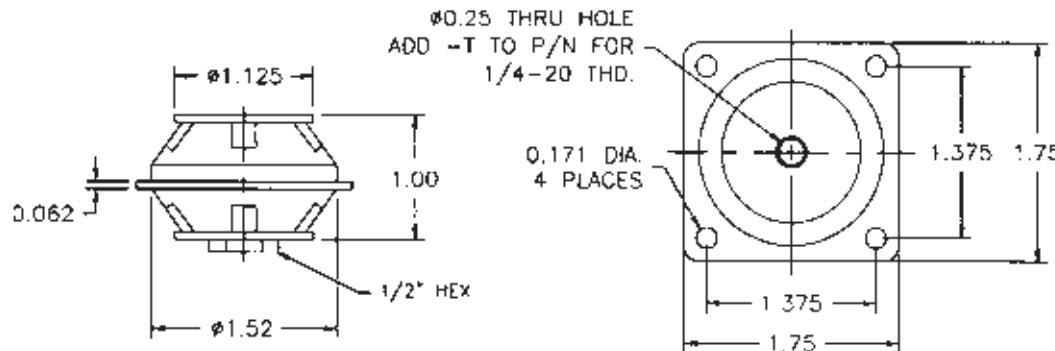
Add HD to part number when high damped silicone elastomers are required.

Holder Style

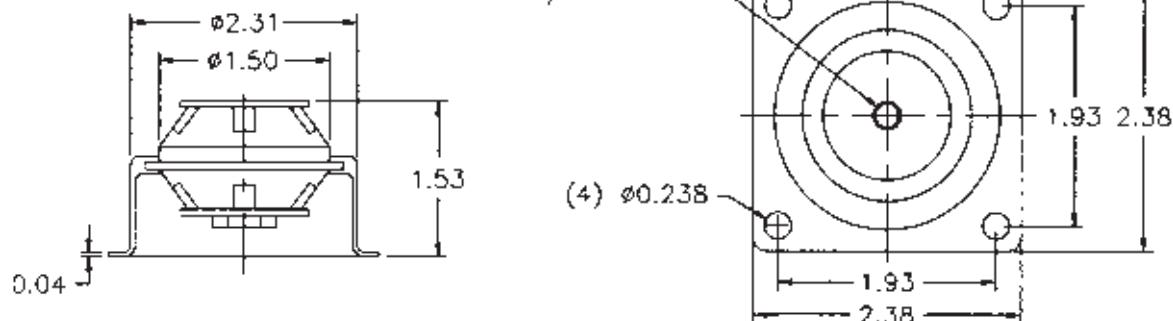
Part No.	Color Code	Max. Stationary Load (lbs.)	Max. Vehicular Load (lbs.)
ET5220-50H	Red	15	4-7
ET5220-60H	Green	25	8-11
ET5220-70H	Yellow	35	12-17
ET5220-80H	Blue	50	18-30

All-Attitude Mounts

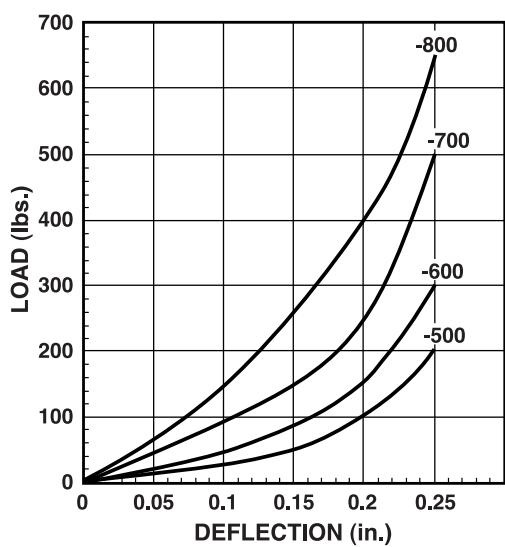
ET5220 Series



Holder Style



Load vs. Deflection



Load vs. Natural Frequency

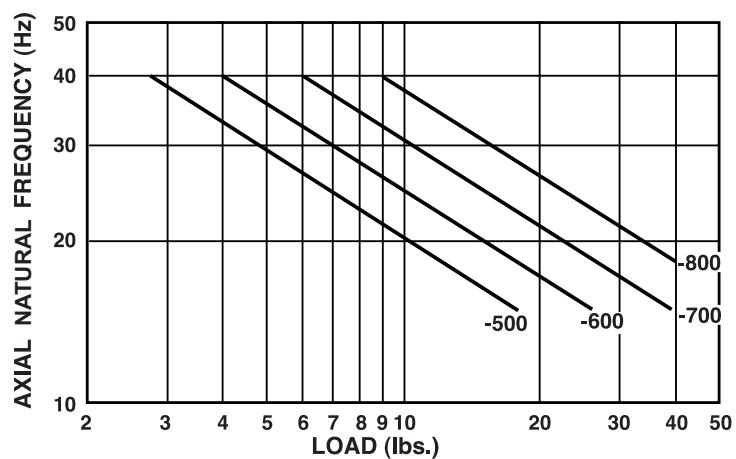


Plate Mounts



ITT Enidine Plate Mounts offer fail-safe operation of electronic and electro-mechanical equipment, appliances, office machines and transportation equipment.

Designed for light to medium loads, they isolate mounted equipment from external vibration and/or isolate vibration produced by the mounted equipment itself.

Plate mounts feature steel and natural rubber which operate at temperatures of -20°F (-29°C) to $+180^{\circ}\text{F}$ (82°C). You may use them in series or parallel combinations.

Part numbers shown are for steel plates. Aluminum plates and neoprene elastomer are available options.

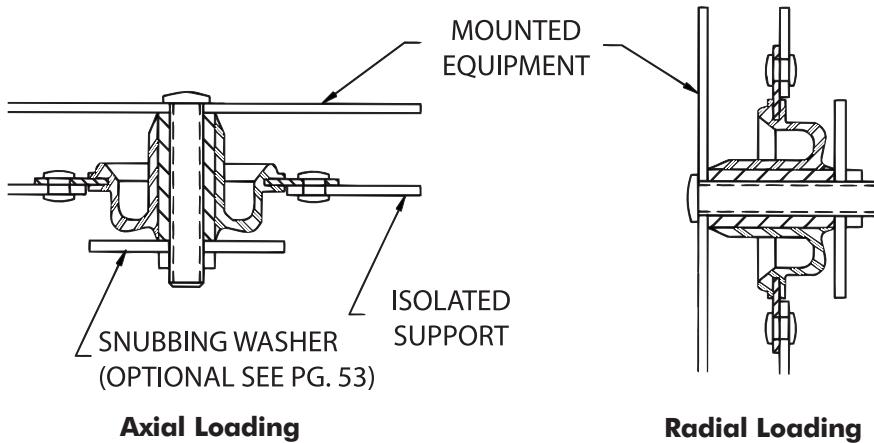
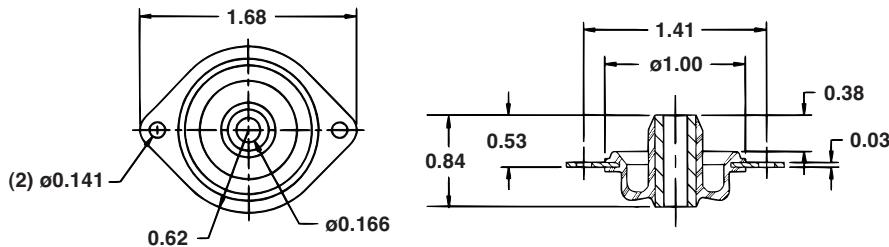
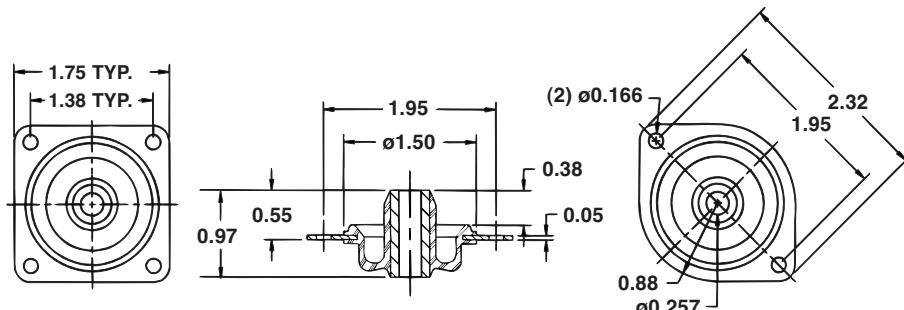


Plate Mounts



Part No.	Color Code	Max. Load (lbs.)
ET6243-301	Yellow	1
ET6243-302	Red	2
ET6243-303	Green	3
ET6243-304	Blue	4
ET6243-306	White	6

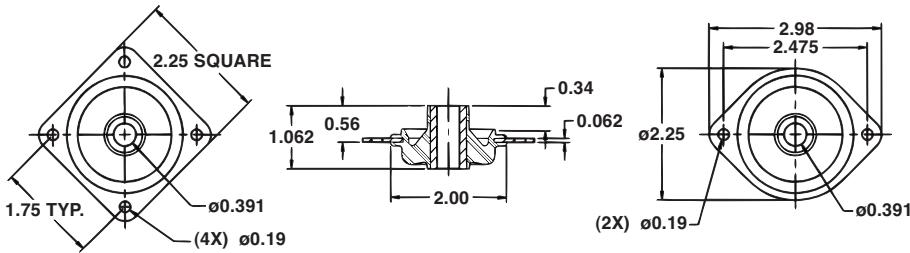
Deflection at Max. Load = .18



Square Shape			Diamond Shape		
Part No.	Color Code	Max. Load (lbs.)	Part No.	Color Code	Max. Load (lbs.)
ET6243-406P	Yellow	6	ET6243-406	Yellow	6
ET6243-409P	Red	9	ET6243-409	Red	9
ET6243-413P	Green	13	ET6243-413	Green	13
ET6243-416P	Blue	16	ET6243-416	Blue	16

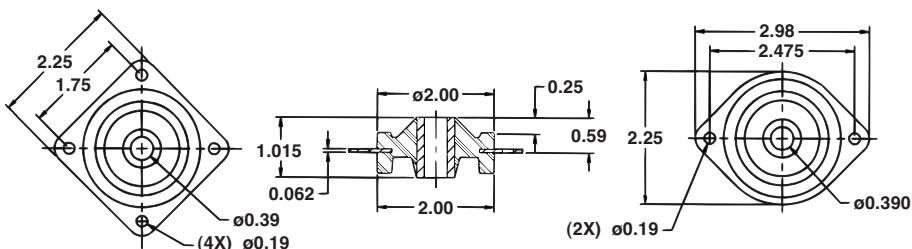
Deflection at Max. Load = .18

Plate Mounts



Square Shape			Diamond Shape		
Part No.	Color Code	Max. Load (lbs.)	Part No.	Color Code	Max. Load (lbs.)
ET6221-200	Yellow	12	ET6223-200	Yellow	12
ET6222-000	Red	20	ET6223-900	Red	20
ET6223-000	Green	30	ET6225-000	Green	30
ET6224-500	Blue	45	ET6226-500	Blue	45
ET6226-000	Blue-White	60	ET6228-000	Blue-White	60

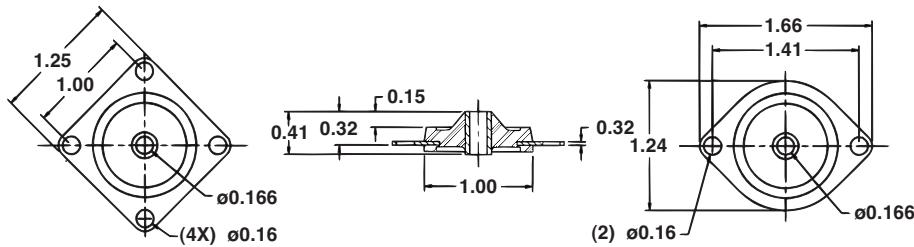
Deflection at Max. Load = .185



Square Shape			Diamond Shape		
Part No.	Color Code	Max. Load (lbs.)	Part No.	Color Code	Max. Load (lbs.)
ET6233-000	Red	30	ET6233-200	Red	30
ET6234-000	Red-Green	40	ET6234-200	Red-Green	40
ET6235-000	Green	50	ET6235-200	Green	50
ET6237-000	Green-Blue	70	ET6237-200	Green-Blue	70
ET6239-000	Blue	90	ET6239-200	Blue	90

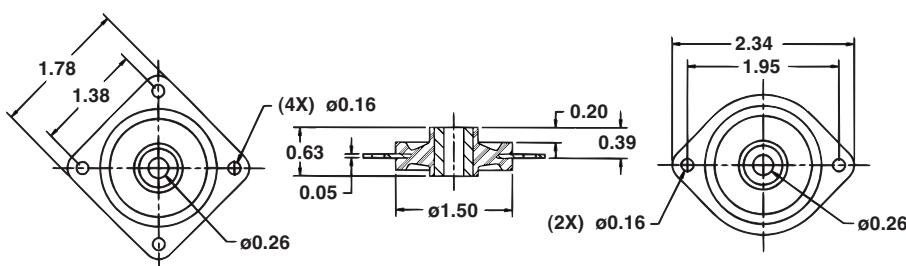
Deflection at Max. Load = .13

Plate Mounts



Square Shape			Diamond Shape		
Part No.	Color Code	Max. Load (lbs.)	Part No.	Color Code	Max. Load (lbs.)
ET6249-00A	Yellow	.5	ET6249-10A	Yellow	.5
ET6249-001	Red	1	ET6249-101	Red	1
ET6249-002	Green	2	ET6249-102	Green	2
ET6249-004	Blue	4	ET6249-104	Blue	4
ET6249-006	White	6	ET6249-106	White	6

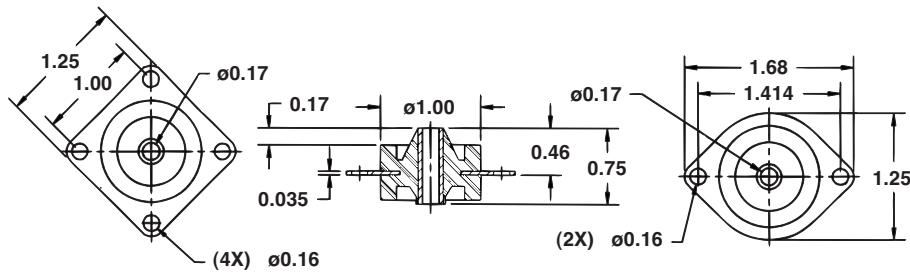
Deflection at Max. Load = .06



Square Shape			Diamond Shape		
Part No.	Color Code	Max. Load (lbs.)	Part No.	Color Code	Max. Load (lbs.)
ET6210-300	Yellow	3	ET6212-300	Yellow	3
ET6210-600	Red	6	ET6216-600	Red	6
ET6210-900	Red-Green	9	ET6212-900	Red-Green	9
ET6211-200	Green	12	ET6213-200	Green	12
ET6211-400	Green-Blue	14	ET6213-400	Green-Blue	14
ET6211-700	Blue	17	ET6213-700	Blue	17
ET6212-000	Blue-White	20	ET6214-000	Blue-White	20
ET6212-600	Blue-Yellow	26	ET6214-600	Blue-Yellow	26

Deflection at Max. Load = .09

Plate Mounts

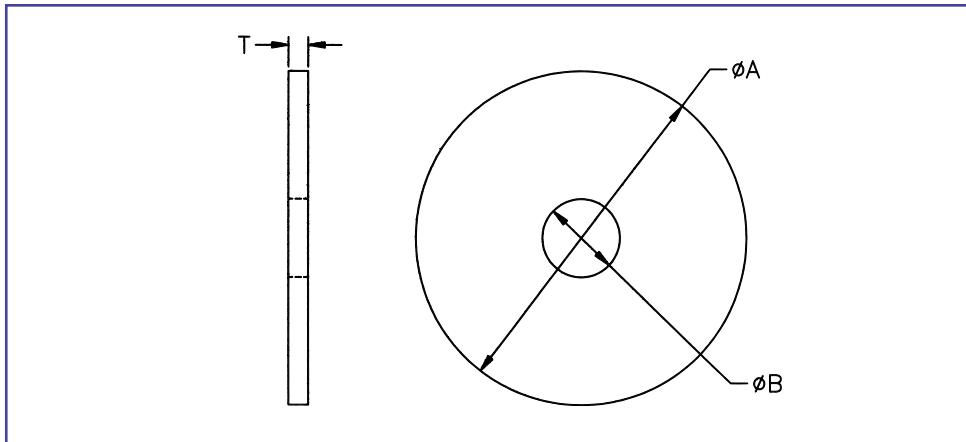


Square Shape			Diamond Shape		
Part No.	Color Code	Max. Load (lbs.)	Part No.	Color Code	Max. Load (lbs.)
ET6200-400	Yellow	4	ET6202-400	Yellow	4
ET6200-800	Red	8	ET6202-800	Red	8
ET6201-200	Green	12	ET6203-200	Green	12
ET6202-000	Blue	20	ET6204-000	Blue	20

Deflection at Max. Load = .06

Snubbing Washers

For use with all Universal, Short Hub Universal, Armor Plated Universal, Center Bushing and ET515 Series mounts. Material: zinc-plated steel.



Part Number	Washer Number	A	B	T
ET5150-5xx	ET0018-100	1.56	.391	.090
ET5150-6xx	ET0018-101	2.00	.450	.125
ET5150-7xx	ET0018-101	2.00	.450	.125
ET5150-8xx	ET0030-801	2.00	.510	.130
ET5151-0xx	ET0030-802	2.25	.635	.150
ET5151-2xx	ET0030-803	2.50	.760	.190
ET5164-1xx	ET0018-200	2.13	.532	.134
ET5170-0xx	ET0018-101	2.00	.450	.125
ET6001-100 to ET6001-500	ET0018-100	1.56	.391	.090
ET6002-100 to ET6002-500	ET0018-200	2.13	.532	.134
ET6003-100 to ET6003-500	ET0018-300	2.81	.657	.188
ET6004-100 to ET6004-500	ET0018-400	3.88	.938	.250
ET6005-100 to ET6005-500	ET0018-600	6.13	1.06	.250
ET6016-5xx	ET0018-300	2.81	.657	.188
ET6016-6xx	ET0018-100	1.56	.391	.090
ET6022-000 to ET6022-300	ET0018-100	1.56	.391	.090
ET6023-000 to ET6023-300	ET0018-200	2.13	.532	.134
ET6023-500 to ET6023-800	ET0018-200	2.13	.532	.134
ET6024-000 to ET6024-300	ET0018-300	2.81	.657	.188
ET6024-500 to ET6024-800	ET0018-300	2.81	.657	.188
ET6025-000 to ET6025-300	ET0018-300	2.81	.657	.188
ET6026-000 to ET6026-300	ET0018-400	3.88	.938	.250
ET6027-0xx	ET0018-200	2.13	.532	.134

Stud/Plate Mounts



On the following pages you will find one of the industry's largest selections of multi-purpose mounts.

Known by many names (including bumpers, snubbers, feet, sandwich mounts, attachments, shockmounts, shearmounts, cylindrical mounts, isolators, levelers and insulators), they offer solutions to thousands of vibration and noise problems.

The configurations shown are normally available from stock. Other variables—such as materials, durometer, diameters, thread sizes, lengths or depths—are also available.

Standard material is natural rubber. Neoprene is available and is identified by an asterisk.

Maximum shear load and maximum compression load are in pounds per isolator.

Stud/Stud (SS) — Both ends

Plate/Stud (PS) — Each end

Stud (S) or Plate (P) — One end only

Plate/Plate (PP) — Both ends

Metric Stud/Plate Mounts

Bumpers

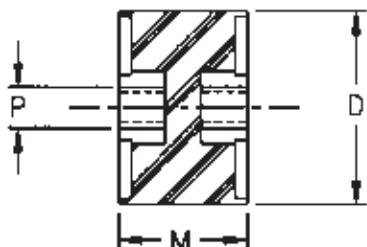
Custom Sizes Available

Maximum Recommended Tightening Torque	
Thread Size	(lbs.-in.)
6-32	10
8-32	15
10-32	25
1/4-20	53
5/16-18	105
3/8-16	192
1/2-13	600

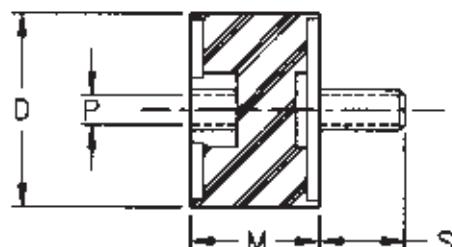
Stud/Plate Mounts

Thread Size — 6

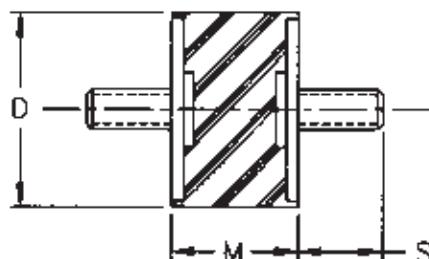
STYLE PP



STYLE PS



STYLE SS



Part No.	Style	D (in.)	M (in.)	6 - 32 x S (in.)	P (Depth)	Max. Shear (lbs.)	Max. Comp. (lbs.)
ET5090-300*	PP	5/16	1/2	—	6-32 (1/8)	4.5	9.5
ET5090-500*	PP	5/16	1/2	—	6-32 (1/8)	6	18
ET5090-700*	PP	5/16	1/2	—	6-32 (1/8)	9	26
ET5090-800	PP	3/8	1/2	—	6-32 (1/8)	3.5	4

*Neoprene

Part No.	Style	D (in.)	M (in.)	6 - 32 x S (in.)	P (Depth)	Max. Shear (lbs.)	Max. Comp. (lbs.)
ET5016-800*	PS	3/8	1/2	1/4	6-32 (5/32)‡	3.4	4.4
ET5016-900*	PS	3/8	5/16	1/4	6-32 (5/32)	3	4
ET5017-000*	PS	7/16	1/2	3/8	6-32 (5/32)‡	4.4	6
ET5017-100*	PS	7/16	1/2	3/8	6-32 (5/32)‡	3.5	4.5
ET5017-200*	PS	3/8	5/16	3/16	6-32 (5/32)	3	4
ET5017-600*	PS	7/16	1/2	1/4	6-32 (5/32)‡	4.4	6
ET5017-700*	PS	3/8	5/16	3/8	6-32 (5/32)	4	5
ET5018-100	PS	7/16	13/32	1/4	6-32 (1/8)	2.5	3.8
ET5018-400*	PS	7/16	13/32	1/4	6-32 (1/8)	3.4	4.4
ET5019-400*	PS	7/16	13/32	1/4	6-32 (1/8)	6.5	14.5

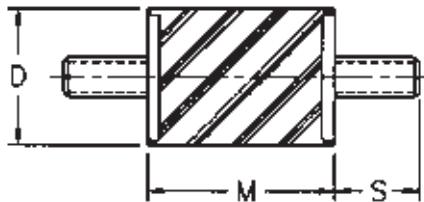
*Neoprene

‡Blind hole

Part No.	Style	D (in.)	M (in.)	6 - 32 x S (in.)	P (Depth)	Max. Shear (lbs.)	Max. Comp. (lbs.)
ET5017-800	SS	7/16	13/32	1/4	—	3	4
ET5017-900	SS	7/16	13/32	1/4	—	3.2	5
ET5019-600	SS	7/16	13/32	1/4 - 3/8	—	3	4

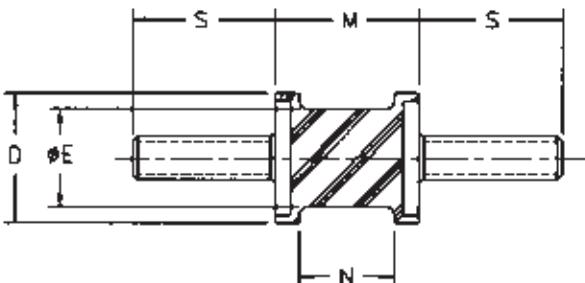
Stud/Plate Mounts

Thread Size — 8



Part No.	D (Square) (in.)	M (in.)	8-32 x S (in.)	Max. Shear (lbs.)	Max. Comp. (lbs.)
ET5100-100	3/8	1/2	3/8	3	5
ET5100-200	3/8	1/2	3/8	3.6	6.2
ET5100-300	3/8	1/2	3/8	5.7	10
ET5100-400	3/8	1/2	3/8	7	13.5
ET5100-600	3/8	1/2	1/2	3.8	4.5
ET5100-700*	3/8	5/16	3/8	4	6.2
ET5100-800	3/8	1/2	1/2	4.5	6.2
ET5100-900	3/8	5/16	1/16	3	4.5
ET5101-000	3/8	5/16	7/32	9	13
ET5101-100	3/8	5/16	7/32	3	4.5
ET5101-300	3/8	5/16	7/32	4	6.2
ET5101-400*	3/8	5/16	3/8 - 1/16	8	11.8
ET5101-500*	3/8	5/16	7/32	3	4.5
ET5101-600	3/8	5/16	1/2	3	4.5
ET5101-700	3/8	5/16	3/8	3.5	5.2
ET5101-800	3/8	5/16	1/2	4	6.2
ET5101-900	3/8	5/16	3/8	3	4.5
ET5102-500*	3/8	5/16	7/32	4	6.2
ET5102-600	3/8	5/16	7/32 - 1/16	8	11.8
ET5140-700	3/8	1/2	7/32	3	5

*Neoprene

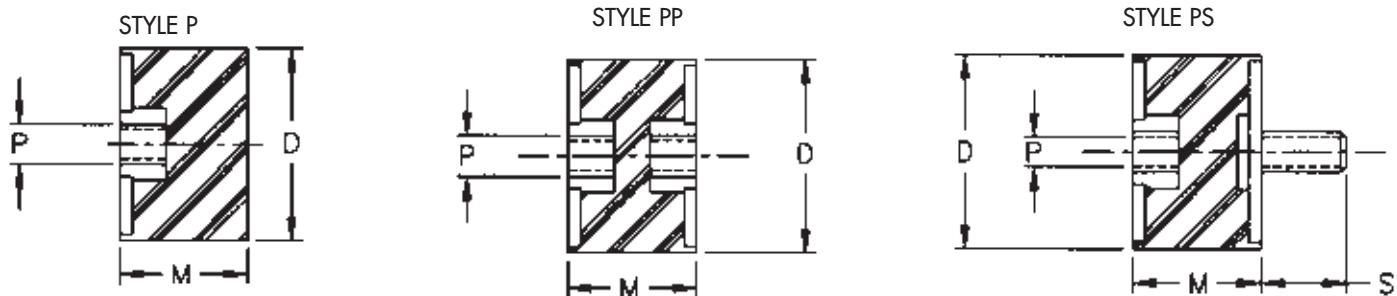


Part No.	D (Square) (in.)	E (Dia.) (in.)	M (in.)	N (in.)	8-32 x S (in.)	Max. Shear (lbs.)	Max. Comp. (lbs.)
ET5102-100	1/2	3/8	5/16	3/8	5/16	2.8	6.8
ET5102-200	1/2	3/8	5/16	3/8	5/16	3.3	8.5
ET5102-300*	1/2	3/8	5/16	3/8	5/16	5.3	12
ET5102-400*	1/2	3/8	5/16	3/8	5/16	7.5	14.5

*Neoprene

Stud/Plate Mounts

Thread Size — 8



Part No.	Style	D (in.)	M (in.)	8 - 32 x S (in.)	P	Max. Shear (lbs.)	Max. Comp. (lbs.)
ET5106-000	P	9/16	1/2	—	8 - 32	—	9.5
ET5106-200	P	9/16	1/2	—	8 - 32	—	18
ET5111-000	P	7/16	1/2	—	8 - 32	—	4.5
ET5111-200	P	7/16	1/2	—	8 - 32	—	8

P Thread Depth Is Min. One Thread Dia.

Part No.	Style	D (in.)	M (in.)	8 - 32 x S (in.)	P	Max. Shear (lbs.)	Max. Comp. (lbs.)
ET5105-000	PP	9/16	1/2	—	8 - 32	4.5	9.5
ET5105-200	PP	9/16	1/2	—	8 - 32	6	18
ET5107-400	PP	5/8	1/2	—	8 - 32	5.5	11
ET5110-000	PP	7/16	1/2	—	8 - 32	3.3	4.5
ET5110-200	PP	7/16	1/2	—	8 - 32	4.8	8

P Thread Depth Is Min. One Thread Dia.

Part No.	Style	D (in.)	M (in.)	8 - 32 x S (in.)	P	Max. Shear (lbs.)	Max. Comp. (lbs.)
ET5104-000	PS	9/16	1/2	1/4	8 - 32	4.5	9.5
ET5104-100	PS	9/16	1/2	1/4	8 - 32	5.4	14
ET5104-200	PS	9/16	1/2	3/8	8 - 32	6	18
ET5104-400	PS	9/16	1/2	3/8	8 - 32	4.5	9.5
ET5104-600*	PS	9/16	7/16	1/4	8 - 32	—	—
ET5105-600*	PS	9/16	1/2	3/8	8 - 32	6	18
ET5105-800	PS	9/16	1/2	3/8	8 - 32‡	4.5	9.5
ET5106-700*	PS	9/16	1/2	3/8	8 - 32	4.5	9.5
ET5107-100*	PS	9/16	3/4	1/4	8 - 32	2	9
ET5107-300*	PS	9/16	3/4	1/8	8 - 32	2.5	12
ET5109-000	PS	7/16	1/2	3/8	8 - 32	3.3	4.5
ET5109-200	PS	7/16	1/2	3/8	8 - 32	4.8	8

*Neoprene

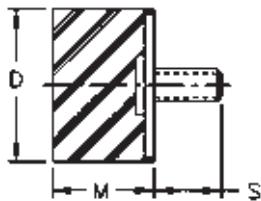
‡Blind Hole

P Thread Depth Is Min. One Thread Dia.

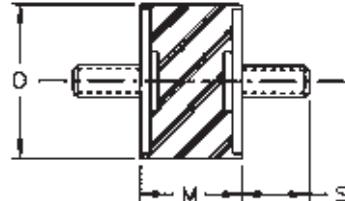
Stud/Plate Mounts

Thread Size — 8

STYLE S



STYLE SS



Part No.	Style	D (in.)	M (in.)	8 - 32 x S (in.)	P	Max. Shear (lbs.)	Max. Comp. (lbs.)
ET5107-000	S	7/16	1/2	3/8	—	—	9.5
ET5107-200	S	7/16	1/2	3/8	—	—	18
ET5112-000	S	7/16	1/2	3/8	—	—	4.5
ET5112-200	S	7/16	1/2	3/8	—	—	8

Part No.	Style	D (in.)	M (in.)	8 - 32 x S (in.)	P	Max. Shear (lbs.)	Max. Comp. (lbs.)
ET5091-200	SS	3/8	1/2	3/8	—	1.5	10
ET5091-300	SS	3/8	1/2	3/8	—	3	17
ET5091-400	SS	3/8	1/2	3/8	—	2	13
ET5091-500	SS	3/8	1/2	3/8	—	1	7
ET5091-600*	SS	3/8	1/2	3/8	—	.5	4
ET5091-700*	SS	3/8	1/2	3/8	—	1	7
ET5091-800*	SS	3/8	1/2	3/8	—	1.5	10
ET5091-900*	SS	3/8	1/2	3/8	—	3	17
ET5092-000*	SS	3/8	1/2	3/8	—	4.5	23
ET5103-100	SS	7/16	1/2	3/8	—	4.5	9.5
ET5103-200	SS	7/16	1/2	3/8	—	5.2	13
ET5103-300*	SS	7/16	1/2	3/8	—	6	18
ET5103-400*	SS	7/16	1/2	3/8	—	13	25
ET5103-600	SS	7/16	1/2		—	4.5	9.5
ET5105-500*	SS	7/16	1/2		—	13	25
ET5108-100	SS	7/16	1/2	3/8	—	3.3	4.5
ET5108-200	SS	7/16	1/2	3/8	—	3.9	6.4
ET5108-300*	SS	7/16	1/2	3/8	—	4.8	8
ET5108-400*	SS	7/16	1/2	3/8	—	3.3	4.5
ET5108-900**	SS	7/16		3/8	—	6	13

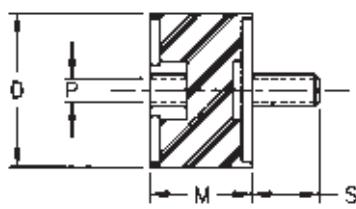
*Neoprene

**Nitrile

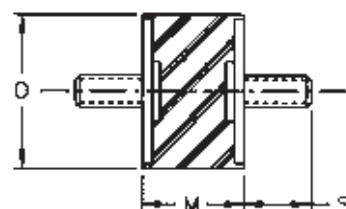
Stud/Plate Mounts

Thread Size —10

STYLE PS



STYLE SS



Part No.	Style	D (in.)	M (in.)	S'	S (in.)	P	Max. Shear (lbs.)	Max. Comp. (lbs.)
ET5104-500	PS	5/16	1/2	—	8 - 32 x 3/8	10 - 32	4.5	9.5
ET5104-700	PS	5/16	1/2	—	10 - 32 x 3/8	10 - 32	6	18
ET5105-900*	PS	5/16	1/2	—	10 - 32 x 3/8	10 - 32	5	16
ET5106-400	PS	5/16	1/2	—	10 - 24 x 3/8	8 - 32	4.5	9.5
ET5106-600	PS	5/16	1/2	—	10 - 32 x 3/8	8 - 32	4.5	9.5
ET5106-800	PS	5/16	1/2	—	10 - 32 x 3/8	8 - 32	6	18
ET5113-600	PS	1	3/4	—	10 - 32 x 3/8	10 - 32	24	55

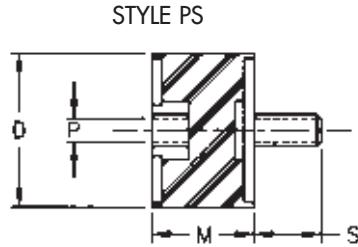
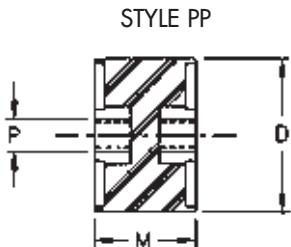
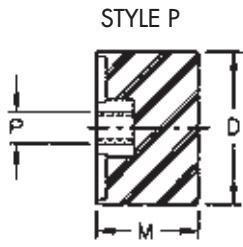
*Neoprene

P Thread Depth Is Min. One Thread Dia.

Part No.	Style	D (in.)	M (in.)	S' (in.)	S (in.)	P	Max. Shear (lbs.)	Max. Comp. (lbs.)
ET5103-700	SS	5/16	1/2	10 - 32 x 3/8	10 - 32 x 3/8	—	6	18
ET5104-800	SS	5/16	1/2	10 - 32 x 3/16	10 - 32 x 3/8	—	6	18
ET5105-700	SS	5/16	1/2	10 - 32 x 3/8	10 - 32 x 3/8	—	5	16
ET5113-500	SS	1	3/4	10 - 32 x 3/8	10 - 32 x 3/8	—	15	44

Stud/Plate Mounts

Thread Size — $\frac{1}{4}$



Part No.	Style	D (in.)	M (in.)	$\frac{1}{4} - 20 \times S$ (in.)	P	Max. Shear (lbs.)	Max. Comp. (lbs.)
ET5120-500*	P	$\frac{3}{4}$	$\frac{1}{2}$	—	$\frac{1}{4} - 20$	—	34
ET5118-100	P	1	$\frac{3}{4}$	—	$\frac{1}{4} - 20$	—	45
ET5092-400*	P	1	$\frac{3}{4}$	—	$\frac{1}{4} - 20$	—	65
ET5093-800*	P	1	$\frac{17}{32}$	—	$\frac{1}{4} - 20$	—	70

*Neoprene

P Thread Depth Is Min. One Thread Dia.

Part No.	Style	D (in.)	M (in.)	$\frac{1}{4} - 20 \times S$ (in.)	P	Max. Shear (lbs.)	Max. Comp. (lbs.)
ET5117-200	PP	1	$\frac{3}{4}$	—	$\frac{1}{4} - 20$	20	55

P Thread Depth Is Min. One Thread Dia.

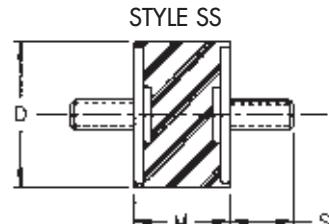
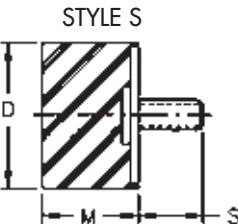
Part No.	Style	D (in.)	M (in.)	$\frac{1}{4} - 20 \times S$ (in.)	P	Max. Shear (lbs.)	Max. Comp. (lbs.)
ET5112-900*	PS	1	$\frac{17}{32}$	$\frac{1}{2}$	$\frac{1}{4} - 20$	32	45
ET5113-700	PS	1	1	$\frac{1}{2}$	$\frac{1}{4} - 20$	10	30
ET5114-500*	PS	1	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{1}{4} - 20$	18	50
ET5115-100*	PS	1	$\frac{3}{4}$	$\frac{3}{8}$	$\frac{1}{4} - 20$	24	55
ET5115-600*	PS	1	$\frac{3}{4}$	$\frac{3}{8}$	$\frac{1}{4} - 20$	28	65
ET5116-100	PS	1	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{1}{4} - 20$	18	45
ET5116-200	PS	1	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{1}{4} - 20$	20	50
ET5116-300	PS	1	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{1}{4} - 20$	21	55
ET5116-600*	PS	1	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{1}{4} - 20$	35	75
ET5118-800*	PS	1	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{1}{4} - 20$	30	65
ET5118-200	PS	1	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{1}{4} - 20$	18	45
ET5119-800*	PS	1	1	$\frac{1}{2}$	$\frac{1}{4} - 20$	20	50
ET5120-100*	PS	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{4} - 20$	8	21
ET5120-200*	PS	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{4} - 20$	12	28
ET5120-300*	PS	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{4} - 20$	16	34
ET5120-400*	PS	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{4} - 20$	20	40

*Neoprene

P Thread Depth Is Min. One Thread Dia.

Stud/Plate Mounts

Thread Size — $\frac{1}{4}$



Part No.	Style	D (in.)	M (in.)	$\frac{1}{4} - 20 \times S$ (in.)	Max. Shear (lbs.)	Max. Comp. (lbs.)
ET5088-900*	S	1	1	$\frac{3}{4}$	—	70
ET5113-800	S	1	$\frac{17}{32}$	$\frac{3}{8}$	—	40
ET5113-900	S	1	$\frac{17}{32}$	$\frac{3}{8}$	—	70
ET5114-000	S	1	$\frac{17}{32}$	$\frac{3}{8}$	—	100
ET5117-600*	S	$1\frac{1}{4}$	1	$\frac{1}{4}$	—	70
ET5118-500	S	1	$\frac{3}{4}$	$\frac{1}{2}$	—	44
ET5118-700	S	1	$\frac{3}{4}$	$\frac{1}{2}$	—	55
ET5119-100*	S	1	$\frac{3}{4}$	$\frac{7}{8}$	—	55
ET5119-500*	S	1	1	$\frac{1}{2}$	—	50
ET5119-600	S	1	1	$\frac{3}{8}$	—	70
ET5119-700	S	1	1	$\frac{1}{4}$	—	70
ET5158-100	S	1	$4\frac{1}{64}$	$\frac{1}{2}$	—	35

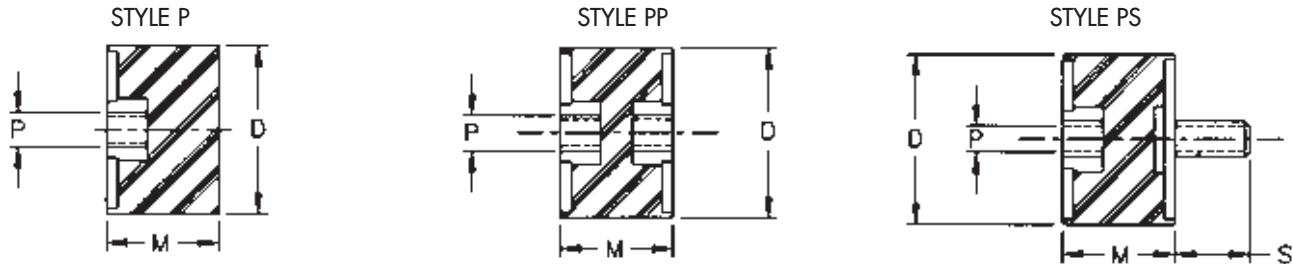
*Neoprene

Part No.	Style	D (in.)	M (in.)	$\frac{1}{4} - 20 \times S$ (in.)	Max. Shear (lbs.)	Max. Comp. (lbs.)
ET5112-300*	SS	1	$\frac{17}{32}$	$\frac{1}{2}$	30	45
ET5112-700	SS	1	$\frac{7}{32}$	$\frac{3}{8}$	30	45
ET5112-800	SS	1	$\frac{7}{32}$	$\frac{3}{8}$	34	70
ET5113-000	SS	1	$\frac{7}{32}$	$\frac{1}{2} - \frac{1}{4}$	32	45
ET5113-100	SS	1	$\frac{7}{32}$	$\frac{1}{2}$	15	44
ET5113-200	SS	1	$\frac{7}{32}$	$\frac{1}{2}$	30	45
ET5113-300	SS	1	$\frac{7}{32}$	$\frac{1}{2}$	34	70
ET5113-400	SS	1	$\frac{7}{32}$	$1\frac{1}{4}$	30	55
ET5114-100	SS	1	$\frac{3}{4}$	$\frac{1}{2}$	15	44
ET5114-200	SS	1	$\frac{3}{4}$	$\frac{1}{2}$	18	50
ET5114-300	SS	1	$\frac{3}{4}$	$\frac{1}{2}$	21	55
ET5114-400*	SS	1	$\frac{3}{4}$	$\frac{1}{2}$	18	50
ET5114-600*	SS	1	$\frac{3}{4}$	$\frac{1}{2}$	21	55
ET5114-700	SS	1	$\frac{3}{4}$	$\frac{5}{8}$	18	50
ET5114-800*	SS	1	$\frac{3}{4}$	$\frac{5}{8}$	25	60
ET5115-000*	SS	1	$\frac{3}{4}$	$\frac{3}{4}$	15	44
ET5115-200	SS	1	$\frac{3}{4}$	$\frac{3}{4}$	21	55
ET5115-300*	SS	1	$\frac{3}{4}$	$\frac{3}{4}$	21	55
ET5115-400*	SS	1	$\frac{3}{4}$	$\frac{3}{8}$	21	55
ET5115-500*	SS	1	$\frac{3}{4}$	$\frac{5}{8} - \frac{1}{4}$	25	60
ET5115-700*	SS	1	$\frac{3}{4}$	$\frac{3}{4} - \frac{1}{2}$	25	60
ET5115-800	SS	1	$\frac{3}{4}$	$\frac{3}{4}$	18	50
ET5115-900	SS	1	$\frac{3}{4}$	$\frac{1}{2} - 1$	30	70
ET5116-000*	SS	1	$\frac{3}{4}$	$\frac{3}{4}$	25	60
ET5116-400*	SS	1	1	$\frac{1}{2}$	12	35
ET5117-300*	SS	1	$\frac{3}{4}$	$\frac{1}{2}$	15	44
ET5118-400*	SS	1	$\frac{3}{4}$	$\frac{1}{2} - \frac{3}{4}$	15	44
ET5118-600*	SS	1	$\frac{3}{4}$	$\frac{3}{8}$	25	60
ET5121-500*	SS	$\frac{3}{4}$	$\frac{3}{8}$	$\frac{1}{16} - 1$	20	40
ET5122-300*	SS	$\frac{3}{4}$	$\frac{3}{8}$	$\frac{3}{8} - \frac{1}{16}$	15	32
ET5122-400*	SS	$\frac{3}{4}$	$\frac{3}{8}$	$\frac{13}{32}$	8	22
ET5122-500*	SS	$\frac{3}{4}$	$\frac{3}{8}$	$\frac{13}{32}$	12	28
ET5122-600*	SS	$\frac{3}{4}$	$\frac{3}{8}$	$\frac{13}{32}$	16	34
ET5122-700*	SS	$\frac{3}{4}$	$\frac{3}{8}$	$\frac{13}{32}$	20	40
ET5122-800	SS	$\frac{3}{4}$	$\frac{3}{8}$	$\frac{9}{16}$	8	22
ET5128-900	SS	1	$\frac{3}{4}$	$\frac{1}{2} - \frac{3}{8}$	30	70
ET5129-000*	SS	$1\frac{1}{8}$	$1\frac{1}{2}$	$\frac{5}{8}$	10	20

*Neoprene

Stud/Plate Mounts

Thread Size — $5/16$



Part No.	Style	D (in.)	M (in.)	$5/16 - 18 \times S$ (in.)	P	Max. Shear (lbs.)	Max. Comp. (lbs.)
ET5125-400	P	1	$3/4$	—	$5/16 - 18$	—	44
ET5133-500	P	$1\frac{1}{4}$	$3/4$	—	$5/16 - 18$	—	120

P Thread Depth Is Min. One Thread Dia.

Part No.	Style	D (in.)	M (in.)	$5/16 - 18 \times S$ (in.)	P	Max. Shear (lbs.)	Max. Comp. (lbs.)
ET5013-700*	PP	$1\frac{3}{8}$	1	—	$5/16 - 18$	90	125
ET5127-200*	PP	1	1	—	$5/16 - 18$	10	25
ET5127-500*	PP	1	1	—	$5/16 - 18$	28	65
ET5131-800	PP	$1\frac{1}{4}$	$1\frac{1}{4}$	—	$5/16 - 18$	24	42
ET5132-300	PP	$1\frac{1}{4}$	$1\frac{1}{4}$	—	$5/16 - 18$	27	76
ET5132-400	PP	$1\frac{1}{4}$	$1\frac{1}{4}$	—	$5/16 - 18$	34	86

*Neoprene

P Thread Depth Is Min. One Thread Dia.

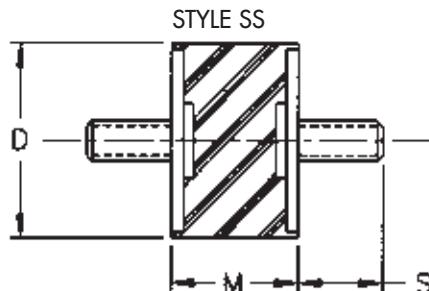
Part No.	Style	D (in.)	M (in.)	$5/16 - 18 \times S$ (in.)	P	Max. Shear (lbs.)	Max. Comp. (lbs.)
ET5092-800*	PS	$1\frac{3}{8}$	$1\frac{1}{2}$	$5/8$	$5/16 - 18$	55	100
ET5123-400	PS	1	$3/4$	$1/2$	$5/16 - 18$	16	45
ET5125-800	PS	1	$3/4$	$9/16$	$5/16 - 18$	40	80
ET5127-600*	PS	1	$3/4$	$5/16$	$5/16 - 18$	16	45
ET5127-700*	PS	1	$3/4$	$5/16$	$5/16 - 18$	19	52
ET5127-800*	PS	1	$3/4$	$5/16$	$5/16 - 18$	25	62
ET5127-900*	PS	1	$3/4$	$5/16$	$5/16 - 18$	31	70
ET5128-300*	PS	1	$1/2$	$9/16$	$5/16 - 18$	16	40
ER5128-400*	PS	1	$1/2$	$9/16$	$5/16 - 18$	22	45
ET5128-500*	PS	1	$1/2$	$9/16$	$5/16 - 18$	35	70
ET5128-600*	PS	1	$1/2$	$9/16$	$5/16 - 18$	40	78
ET5131-300*	PS	$1\frac{1}{4}$	1	$3/4$	$5/16 - 18$	25	72
ET5131-400*	PS	$1\frac{1}{4}$	1	$3/4$	$5/16 - 18$	38	92
ET5132-700*	PS	$1\frac{1}{4}$	$1\frac{1}{4}$	$9/16$	$5/16 - 18$	21	41
ET5132-800*	PS	$1\frac{1}{4}$	$1\frac{1}{4}$	$9/16$	$5/16 - 18$	31	64
ET5132-900*	PS	$1\frac{1}{4}$	$1\frac{1}{4}$	$9/16$	$5/16 - 18$	45	86
ET5133-000*	PS	$1\frac{1}{4}$	$1\frac{1}{4}$	$9/16$	$5/16 - 18$	63	120
ET5135-200	PS	$1\frac{3}{8}$	1	$9/16$	$5/16 - 18$	66	96
ET5137-600	PS	$1\frac{1}{2}$	1	$9/16$	$5/16 - 18$	30	95
ET5137-700	PS	$1\frac{1}{2}$	1	$9/16$	$5/16 - 18$	40	135
ET5137-800	PS	$1\frac{1}{2}$	1	$9/16$	$5/16 - 18$	50	185
ET5137-900	PS	$1\frac{1}{2}$	1	$9/16$	$5/16 - 18$	65	210
ET5140-000*	PS	$1\frac{1}{2}$	1	$5/8$	$5/16 - 18$	45	185
ET5154-200*	PS	$1\frac{1}{2}$	1	$9/16$	$5/16 - 18$	40	135

*Neoprene

P Thread Depth Is Min. One Thread Dia.

Stud/Plate Mounts

Thread Size — $\frac{5}{16}$



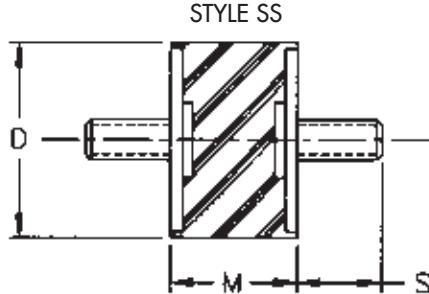
Part No.	Style	D (in.)	M (in.)	$\frac{5}{16} - 18 \times S$ (in.)	Max. Shear (lbs.)	Max. Comp. (lbs.)
ET5013-600*	SS	$1\frac{1}{8}$	1	$1\frac{1}{4}$	87	125
ET5013-800*	SS	$1\frac{1}{8}$	1	$1\frac{1}{16} - 1\frac{1}{8}$	87	125
ET5123-800	SS	1	$\frac{3}{4}$	$1\frac{1}{2} - 1\frac{1}{4}$	15	44
ET5123-900	SS	1	$\frac{3}{4}$	$\frac{3}{8}$	22	55
ET5124-000*	SS	1	$\frac{3}{4}$	$\frac{3}{8}$	22	58
ET5124-100	SS	1	$\frac{3}{4}$	$\frac{9}{16}$	15	44
ET5124-200	SS	1	$\frac{3}{4}$	$\frac{9}{16}$	18	50
ET5124-300	SS	1	$\frac{3}{4}$	$\frac{9}{16}$	22	58
ET5124-700	SS	1	$\frac{3}{4}$	$\frac{5}{8}$	15	44
ET5125-100	SS	1	$\frac{3}{4}$	$\frac{3}{4}$	15	44
ET5125-200	SS	1	$\frac{3}{4}$	$\frac{3}{4}$	18	50
ET5125-300	SS	1	$\frac{3}{4}$	$\frac{3}{4}$	22	58
ET5125-700*	SS	1	$\frac{3}{4}$	$\frac{9}{16}$	22	58
ET5126-000*	SS	1	$\frac{3}{4}$	$1\frac{1}{2} - 7\frac{7}{8}$	22	50
ET5126-200*	SS	1	1	$\frac{9}{16}$	12	35
ET5126-300	SS	1	1	$\frac{9}{16}$	16	42
ET5126-500	SS	1	1	$\frac{3}{4}$	35	70
ET5126-600	SS	1	1	$\frac{3}{4}$	8	25
ET5126-700	SS	1	1	$\frac{3}{4}$	12	35
ET5126-900**	SS	1	1	$\frac{5}{16} - \frac{9}{16}$	8	25
ET5127-000	SS	1	1	$1\frac{1}{2} - 3\frac{3}{4}$	12	35
ET5127-100**	SS	1	1	$\frac{5}{16} - \frac{9}{16}$	16	42
ET5128-000*	SS	1	$\frac{3}{4}$	$1\frac{1}{2} - 7\frac{7}{8}$	18	50
ET5128-200*	SS	1	$\frac{3}{4}$	$1\frac{1}{2} - 7\frac{7}{8}$	25	60
ET5128-800	SS	1	$\frac{3}{4}$	$\frac{9}{16} - 1\frac{1}{4}$	25	60
ET5129-100	SS	1	1	$\frac{5}{16} - \frac{9}{16}$	8	25
ET5129-600	SS	1	$1\frac{1}{2}$	$\frac{5}{8}$	20	45
ET5129-601	SS	1	$1\frac{1}{2}$	$\frac{5}{8}$	28	60
ET5129-700*	SS	$1\frac{1}{4}$	$1\frac{1}{4}$	$\frac{5}{8}$	27	76
ET5129-800*	SS	$1\frac{1}{4}$	$1\frac{1}{4}$	$\frac{5}{8}$	34	86
ET5129-900*	SS	$1\frac{1}{4}$	$1\frac{1}{4}$	$\frac{5}{8}$	60	120
ET5130-100	SS	$1\frac{1}{4}$	$\frac{3}{4}$	$\frac{9}{16}$	36	87
ET5130-200	SS	$1\frac{1}{4}$	$\frac{3}{4}$	$\frac{9}{16}$	43	98
ET5130-300	SS	$1\frac{1}{4}$	$\frac{3}{4}$	$\frac{9}{16}$	52	120
ET5130-400	SS	$1\frac{1}{4}$	$\frac{3}{4}$	$\frac{9}{16}$	45	93
ET5130-500*	SS	$1\frac{1}{4}$	$\frac{3}{4}$	$1\frac{1}{2} - 3\frac{3}{4}$	45	93
ET5130-600	SS	$1\frac{1}{4}$	$\frac{3}{4}$	$\frac{3}{4}$	36	87
ET5130-700	SS	$1\frac{1}{4}$	$\frac{3}{4}$	$\frac{3}{4}$	43	98
ET5130-800	SS	$1\frac{1}{4}$	$\frac{3}{4}$	$\frac{3}{4}$	52	120

*Neoprene

** $\frac{5}{16}$ - 24 THD

Stud/Plate Mounts

Thread Size — $5/16$

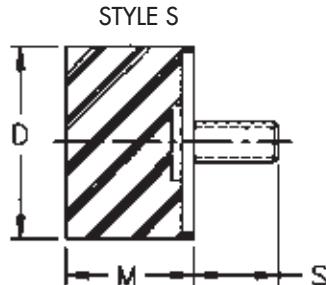


Part No.	Style	D (in.)	M (in.)	$5/16 - 18 \times S$ (in.)	Max. Shear (lbs.)	Max. Comp. (lbs.)
ET5131-000	SS	1 $\frac{1}{4}$	$\frac{3}{4}$	$\frac{5}{8}$	43	98
ET5131-100	SS	1 $\frac{1}{4}$	1	$\frac{9}{16}$	31	81
ET5131-200	SS	1 $\frac{1}{4}$	1	$\frac{9}{16}$	38	92
ET5131-500	SS	1 $\frac{1}{4}$	1	$\frac{3}{4}$	31	81
ET5131-600	SS	1 $\frac{1}{4}$	1	$\frac{3}{4}$	38	92
ET5132-000	SS	1 $\frac{1}{4}$	1 $\frac{1}{4}$	$\frac{9}{16}$	21	42
ET5132-100	SS	1 $\frac{1}{4}$	1 $\frac{1}{4}$	$\frac{9}{16}$	27	76
ET5132-200	SS	1 $\frac{1}{4}$	1 $\frac{1}{4}$	$\frac{9}{16}$	34	86
ET5132-500	SS	1 $\frac{1}{4}$	1 $\frac{1}{4}$	$\frac{3}{4}$	27	76
ET5132-600	SS	1 $\frac{1}{4}$	1 $\frac{1}{4}$	$\frac{3}{4}$	34	86
ET5133-700*	SS	1 $\frac{1}{4}$	1 $\frac{1}{4}$	$\frac{9}{16}$	60	120
ET5133-800	SS	1 $\frac{1}{4}$	1 $\frac{1}{4}$	$\frac{11}{16}$	27	76
ET5133-900	SS	1 $\frac{1}{4}$	1 $\frac{1}{4}$	$\frac{11}{16}$	27	76
ET5134-000	SS	1 $\frac{3}{8}$	1	$\frac{9}{16}$	27	47
ET5134-100	SS	1 $\frac{3}{8}$	1	$\frac{9}{16}$	41	74
ET5134-200	SS	1 $\frac{3}{8}$	1	$\frac{9}{16}$	66	96
ET5134-300	SS	1 $\frac{3}{8}$	1	$\frac{9}{16}$	76	105
ET5134-400*	SS	1 $\frac{1}{4}$	1 $\frac{1}{4}$	$\frac{7}{8}$	27	76
ET5134-500	SS	1 $\frac{1}{4}$	1 $\frac{1}{4}$	$\frac{7}{8}$	34	86
ET5134-800	SS	1 $\frac{3}{8}$	1	$\frac{7}{8} - 1$	66	96
ET5134-900	SS	1 $\frac{1}{4}$	1 $\frac{1}{4}$	$\frac{11}{16}$	60	120
ET5135-000	SS	1 $\frac{3}{8}$	1	$\frac{9}{16} - \frac{3}{8}$	76	105
ET5135-300*	SS	1 $\frac{3}{8}$	1	$\frac{3}{4}$	27	47
ET5135-400*	SS	1 $\frac{3}{8}$	1	$\frac{3}{4}$	41	74
ET5135-500*	SS	1 $\frac{3}{8}$	1	$\frac{3}{4}$	66	96
ET5135-600*	SS	1 $\frac{3}{8}$	1	$\frac{3}{4}$	76	105
ET5135-700*	SS	1 $\frac{3}{8}$	1	$\frac{3}{4}$	87	125
ET5135-800	SS	1 $\frac{3}{8}$	1	$\frac{3}{4}$	76	105
ET5140-100*	SS	1 $\frac{1}{2}$	1	$\frac{5}{8}$	45	185
ET5146-000*	SS	2	1 $\frac{1}{4}$	$\frac{5}{8}$	50	150
ET5146-200*	SS	2	1 $\frac{1}{4}$	$\frac{5}{8}$	100	250
ET5146-400*	SS	2	1 $\frac{1}{4}$	$\frac{5}{8}$	150	325
ET5148-000*	SS	1 $\frac{3}{8}$	$\frac{5}{8}$	$\frac{5}{8}$	35	85
ET5148-100*	SS	1 $\frac{3}{8}$	$\frac{5}{8}$	$\frac{5}{8}$	45	120
ET5148-200*	SS	1 $\frac{3}{8}$	$\frac{5}{8}$	$\frac{5}{8}$	55	155
ET5148-300*	SS	1 $\frac{3}{8}$	$\frac{5}{8}$	$\frac{5}{8}$	65	185
ET5148-400*	SS	1 $\frac{3}{8}$	$\frac{5}{8}$	$\frac{5}{8}$	75	225

*Neoprene

Stud/Plate Mounts

Thread Size — $\frac{5}{16}$



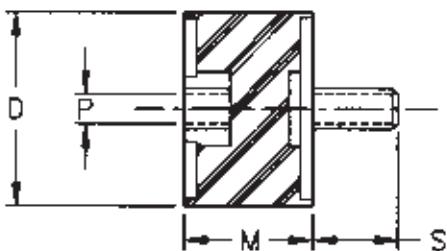
Part No.	Style	D (in.)	M (in.)	$\frac{5}{16} - 18 \times S$ (in.)	Max. Comp. (lbs.)
ET5124-400	S	1	$\frac{3}{4}$	$\frac{5}{8}$	58
ET5124-500	S	1	$\frac{9}{16}$	$\frac{5}{8}$	58
ET5125-500	S	1	$\frac{17}{32}$	$\frac{9}{16}$	50
ET5125-600	S	1	$\frac{3}{4}$	$1\frac{1}{4}$	45
ET5131-900*	S	$1\frac{1}{4}$	1	$\frac{9}{16}$	120
ET5133-100	S	$1\frac{1}{4}$	$\frac{3}{4}$	$\frac{3}{4}$	100
ET5133-200	S	$1\frac{1}{4}$	$\frac{3}{4}$	$\frac{3}{4}$	120
ET5133-400*	S	$1\frac{1}{4}$	$\frac{3}{4}$	$\frac{9}{16}$	120
ET5133-600*	S	$1\frac{1}{4}$	$\frac{3}{4}$	$1\frac{1}{2}$	120
ET5146-600	S	2	$1\frac{3}{4}$	$\frac{3}{4}$	150
ET5146-700	S	2	$1\frac{3}{4}$	$\frac{3}{4}$	200
ET5146-800	S	2	$1\frac{3}{4}$	$\frac{3}{4}$	250
ET5146-900	S	2	$1\frac{3}{4}$	$\frac{3}{4}$	290
ET5147-000	S	2	$1\frac{3}{4}$	$\frac{3}{4}$	325

*Neoprene

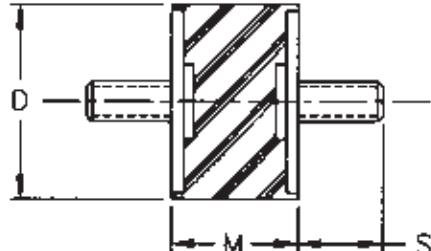
Stud/Plate Mounts

Thread Size — $\frac{3}{8}$

STYLE PS



STYLE SS



Part No.	Style	D (in.)	M (in.)	$\frac{3}{8} - 16 \times S$ (in.)	P	Max. Shear (lbs.)	Max. Comp. (lbs.)
ET5138-000	PS	1 $\frac{1}{2}$	1	$\frac{5}{8}$	$\frac{3}{8} - 16$	30	95
ET5138-100	PS	1 $\frac{1}{2}$	1	$\frac{5}{8}$	$\frac{3}{8} - 16$	40	135
ET5138-200	PS	1 $\frac{1}{2}$	1	$\frac{5}{8}$	$\frac{3}{8} - 16$	50	185
ET5138-300	PS	1 $\frac{1}{2}$	1	$\frac{5}{8}$	$\frac{3}{8} - 16$	65	210
ET5138-400	PS	1 $\frac{1}{2}$	1	$\frac{5}{8}$	$\frac{3}{8} - 16$	80	270
ET5158-800*	PS	1 $\frac{1}{2}$	$\frac{7}{8}$	$\frac{5}{8}$	$\frac{3}{8} - 16$	70	250

*Neoprene

P Thread Depth Is Min. One Thread Dia.

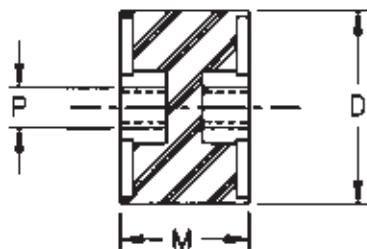
Part No.	Style	D (in.)	M (in.)	$\frac{3}{8} - 16 \times S$ (in.)	Max. Shear (lbs.)	Max. Comp. (lbs.)
ET5139-000	SS	1 $\frac{1}{2}$	1	$\frac{5}{8}$	30	95
ET5139-100	SS	1 $\frac{1}{2}$	1	$\frac{5}{8}$	40	135
ET5139-200	SS	1 $\frac{1}{2}$	1	$\frac{5}{8}$	50	185
ET5139-300	SS	1 $\frac{1}{2}$	1	$\frac{5}{8}$	65	210
ET5139-400	SS	1 $\frac{1}{2}$	1	$\frac{5}{8}$	80	270
ET5139-500	SS	1 $\frac{1}{2}$	1	$\frac{3}{4}$	30	95
ET5139-600	SS	1 $\frac{1}{2}$	1	$\frac{3}{4}$	40	135
ET5139-700	SS	1 $\frac{1}{2}$	1	$\frac{3}{4}$	50	185
ET5139-800*	SS	1 $\frac{1}{2}$	1	$\frac{3}{4}$	65	210
ET5139-900*	SS	1 $\frac{1}{2}$	1	$\frac{3}{4}$	80	270
ET5162-001	SS	2 $\frac{1}{2}$	1	$\frac{7}{8}$	85	200
ET5162-002	SS	2 $\frac{1}{2}$	1	$\frac{7}{8}$	110	250
ET5162-003	SS	2 $\frac{1}{2}$	1	$\frac{7}{8}$	150	325
ET5162-004	SS	2 $\frac{1}{2}$	1	$\frac{7}{8}$	190	425
ET5162-005	SS	2 $\frac{1}{2}$	1	$\frac{7}{8}$	220	500

*Neoprene

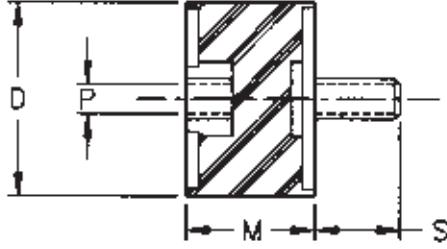
Stud/Plate Mounts

Thread Size — $\frac{1}{2}$

STYLE PP



STYLE PS



Part No.	Style	D (in.)	M (in.)	P (Depth)	Max. Shear (lbs.)	Max. Comp. (lbs.)
ET5141-500*	PP	2	$1\frac{1}{16}$	$\frac{1}{2} - 13 (\frac{1}{2})\ddagger$	80	180
ET5141-600*	PP	2	$1\frac{1}{16}$	$\frac{1}{2} - 13 (\frac{1}{2})\ddagger$	100	210
ET5141-700*	PP	2	$1\frac{1}{16}$	$\frac{1}{2} - 13 (\frac{1}{2})\ddagger$	150	275
ET5141-800*	PP	2	$1\frac{1}{16}$	$\frac{1}{2} - 13 (\frac{1}{2})\ddagger$	200	340
ET5141-900*	PP	2	$1\frac{1}{16}$	$\frac{1}{2} - 13 (\frac{1}{2})\ddagger$	240	420
ET5155-301	PP	$3\frac{1}{8}$	$1\frac{1}{2}$	$\frac{1}{2} - 13 (\frac{1}{2})$	60	450
ET5155-302	PP	$3\frac{1}{8}$	$1\frac{1}{2}$	$\frac{1}{2} - 13 (\frac{1}{2})$	90	660
ET5155-303	PP	$3\frac{1}{8}$	$1\frac{1}{2}$	$\frac{1}{2} - 13 (\frac{1}{2})$	130	950
ET5155-304	PP	$3\frac{1}{8}$	$1\frac{1}{2}$	$\frac{1}{2} - 13 (\frac{1}{2})$	175	1,260
ET5155-305	PP	$3\frac{1}{8}$	$1\frac{1}{2}$	$\frac{1}{2} - 13 (\frac{1}{2})$	220	1,550
ET5155-501	PP	$3\frac{1}{8}$	3	$\frac{1}{2} - 13 (\frac{1}{2})$	38	250
ET5155-502	PP	$3\frac{1}{8}$	3	$\frac{1}{2} - 13 (\frac{1}{2})$	65	410
ET5155-503	PP	$3\frac{1}{8}$	3	$\frac{1}{2} - 13 (\frac{1}{2})$	105	690
ET5155-504	PP	$3\frac{1}{8}$	3	$\frac{1}{2} - 13 (\frac{1}{2})$	140	910
ET5155-505	PP	$3\frac{1}{8}$	3	$\frac{1}{2} - 13 (\frac{1}{2})$	185	1,190

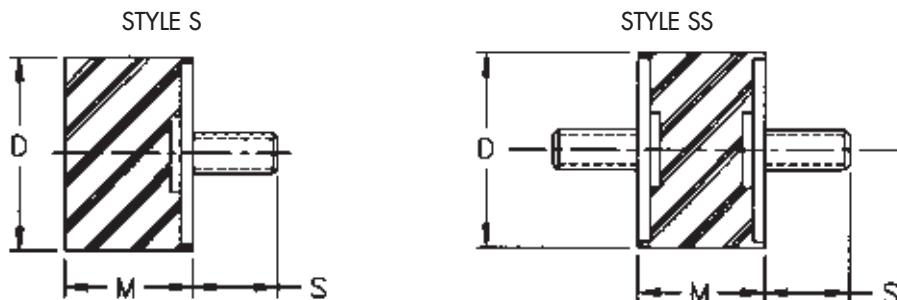
*Neoprene ‡Blind Hole P Thread Depth Is Min. One Thread Dia.

Part No.	Style	D (in.)	M (in.)	$\frac{1}{2} - 13 \times S$ (in.)	P (Depth)	Max. Shear (lbs.)	Max. Comp. (lbs.)
ET5138-600*	PS	$1\frac{1}{4}$	$1\frac{1}{4}$	$1\frac{1}{16}$	$\frac{1}{2} - 13 (\frac{3}{8})$	38	80
ET5138-800*	PS	$1\frac{1}{4}$	$1\frac{1}{4}$	$1\frac{1}{16}$	$\frac{1}{2} - 13 (\frac{3}{8})$	72	130
ET5140-300*	PS	$1\frac{1}{4}$	$\frac{3}{4}$	$\frac{7}{16}$	$\frac{1}{2} - 13 (\frac{3}{8})$	48	90
ET5140-400*	PS	$1\frac{1}{4}$	$\frac{3}{4}$	$1\frac{1}{16}$	$\frac{1}{2} - 13 (\frac{3}{8})$	48	90
ET5140-500*	PS	$1\frac{1}{4}$	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{1}{2} - 13 (\frac{3}{8})$	48	90
ET5140-600*	PS	$1\frac{1}{4}$	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{1}{2} - 13 (\frac{3}{8})$	82	150
ET5142-000*	PS	2	$1\frac{1}{16}$	$1\frac{1}{8}$	$\frac{1}{2} - 13 (\frac{1}{2})\ddagger$	70	160
ET5142-100*	PS	2	$1\frac{1}{16}$	$1\frac{1}{8}$	$\frac{1}{2} - 13 (\frac{1}{2})\ddagger$	90	200
ET5142-200*	PS	2	$1\frac{1}{16}$	$1\frac{1}{8}$	$\frac{1}{2} - 13 (\frac{1}{2})\ddagger$	140	260
ET5142-300*	PS	2	$1\frac{1}{16}$	$1\frac{1}{8}$	$\frac{1}{2} - 13 (\frac{1}{2})\ddagger$	185	340
ET5142-400*	PS	2	$1\frac{1}{16}$	$1\frac{5}{8}$	$\frac{1}{2} - 13 (\frac{1}{2})\ddagger$	225	410
ET5155-101	PS	$3\frac{1}{8}$	$1\frac{1}{2}$	$1\frac{5}{8}$	$\frac{1}{2} - 13 (\frac{1}{2})$	80	360
ET5155-102	PS	$3\frac{1}{8}$	$1\frac{1}{2}$	$1\frac{5}{8}$	$\frac{1}{2} - 13 (\frac{1}{2})$	110	540
ET5155-103	PS	$3\frac{1}{8}$	$1\frac{1}{2}$	$1\frac{5}{8}$	$\frac{1}{2} - 13 (\frac{1}{2})$	145	760
ET5155-104	PS	$3\frac{1}{8}$	$1\frac{1}{2}$	$1\frac{5}{8}$	$\frac{1}{2} - 13 (\frac{1}{2})$	215	980
ET5155-105	PS	$3\frac{1}{8}$	$1\frac{1}{2}$	$1\frac{5}{8}$	$\frac{1}{2} - 13 (\frac{1}{2})$	285	1,815
ET5155-701	PS	$3\frac{1}{8}$	3	$1\frac{5}{8}$	$\frac{1}{2} - 13 (\frac{1}{2})$	38	250
ET5155-702	PS	$3\frac{1}{8}$	3	$1\frac{5}{8}$	$\frac{1}{2} - 13 (\frac{1}{2})$	65	410
ET5155-703	PS	$3\frac{1}{8}$	3	$1\frac{5}{8}$	$\frac{1}{2} - 13 (\frac{1}{2})$	105	690
ET5155-704	PS	$3\frac{1}{8}$	3	$1\frac{5}{8}$	$\frac{1}{2} - 13 (\frac{1}{2})$	140	910
ET5155-705	PS	$3\frac{1}{8}$	3	$1\frac{5}{8}$	$\frac{1}{2} - 13 (\frac{1}{2})$	185	1,190

*Neoprene ‡Blind Hole P Thread Depth Is Min. One Thread Dia.

Stud/Plate Mounts

Thread Size — $\frac{1}{2}$



Part No.	Style	D (in.)	M (in.)	$\frac{1}{2} - 13 \times S$ (in.)	Max. Comp. (lbs.)
ET5012-100*	S	$1\frac{1}{4}$	$\frac{3}{4}$	$\frac{3}{4}$	90
ET5012-200*	S	$1\frac{1}{4}$	$\frac{3}{4}$	$\frac{3}{4}$	150

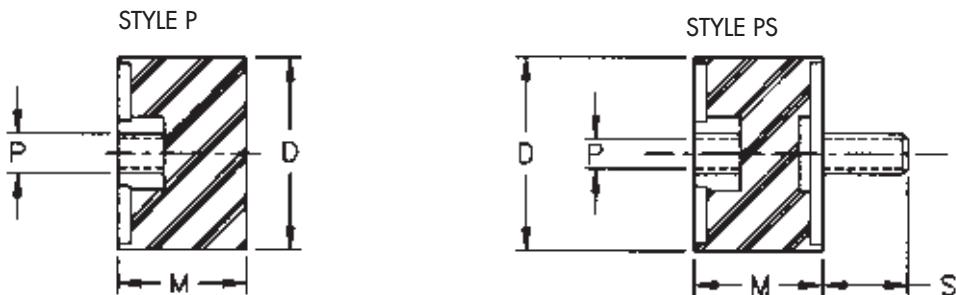
*Neoprene

Part No.	Style	D (in.)	M (in.)	$\frac{1}{2} - 13 \times S$ (in.)	Max. Shear (lbs.)	Max. Comp. (lbs.)
ET5138-500	SS	$1\frac{1}{4}$	$1\frac{1}{4}$	$\frac{11}{16}$	29	76
ET5138-700*	SS	$1\frac{1}{4}$	$1\frac{1}{4}$	$\frac{11}{16}$	63	120
ET5141-000*	SS	2	$1\frac{11}{16}$	$1\frac{1}{8}$	60	160
ET5141-100*	SS	2	$1\frac{11}{16}$	$1\frac{1}{8}$	80	200
ET5141-200*	SS	2	$1\frac{11}{16}$	$1\frac{1}{8}$	125	260
ET5141-300*	SS	2	$1\frac{11}{16}$	$1\frac{1}{8}$	175	335
ET5141-400*	SS	2	$1\frac{11}{16}$	$1\frac{1}{8}$	210	400
ET5155-201	SS	$3\frac{1}{8}$	$1\frac{1}{2}$	$1\frac{5}{8}$	90	360
ET5155-202	SS	$3\frac{1}{8}$	$1\frac{1}{2}$	$1\frac{5}{8}$	120	540
ET5155-203	SS	$3\frac{1}{8}$	$1\frac{1}{2}$	$1\frac{5}{8}$	155	760
ET5155-204	SS	$3\frac{1}{8}$	$1\frac{1}{2}$	$1\frac{5}{8}$	225	980
ET5155-205	SS	$3\frac{1}{8}$	$1\frac{1}{2}$	$1\frac{5}{8}$	295	1,815
ET5155-601	SS	$3\frac{1}{8}$	3	$1\frac{5}{8}$	38	250
ET5155-602	SS	$3\frac{1}{8}$	3	$1\frac{5}{8}$	65	410
ET5155-603	SS	$3\frac{1}{8}$	3	$1\frac{5}{8}$	105	690
ET5155-604	SS	$3\frac{1}{8}$	3	$1\frac{5}{8}$	140	910
ET5155-605	SS	$3\frac{1}{8}$	3	$1\frac{5}{8}$	185	1,190

*Neoprene

Stud/Plate Mounts

Thread Size — Metric



Part No.	Style	D (mm)	M (mm)	S (mm)	P	Maximum Shear (Kg)	Maximum Comp. (Kg)
ET5095-500*	P	19	13	—	M6 x 1.0	—	35
ET5107-500	P	19	13	—	M5 x 0.8	—	35

*Neoprene

P Thread Depth Is Min. One Thread Dia.

Part No.	Style	D (mm)	M (mm)	S (mm)	P	Maximum Shear (Kg)	Maximum Comp. (Kg)
ET5019-700*	PS	9,5	8	M3 x 0.5 x 4	6 - 32	3	4,5
ET5019-800*	PS	9,5	9,5	M3 x 0.5 x 4	6 - 32	3	4,5
ET5092-600*	PS	25	25	M6 x 1.0 x 11,5	M6 x 1.0	12	35
ET5094-200*	PS	25	25	M6 x 1.0 x 19	M6 x 1.0	12	35
ET5094-701*	PS	32	32	M8 x 1.25 x 14	M8 x 1.25	35	70
ET5094-702*	PS	32	32	M8 x 1.25 x 14	M8 x 1.25	50	92
ET5094-703*	PS	32	32	M8 x 1.25 x 14	M8 x 1.25	65	125
ET5095-200*	PS	25	25	M6 x 1.0 x 11,5	M6 x 1.0	35	70
ET5109-500	PS	11	13	M4 x 0.7 x 6	M4 x 0.7	5	8
ET5109-501	PS	11	13	M4 x 0.7 x 4	M4 x 0.7	5	8
ET5125-900	PS	25	19	M8 x 1.25 x 14	M8 x 1.25	40	80
ET5144-700*	PS	25	19	M6 x 1.0 x 13	M6 x 1.0	22	58
ET5145-200*	PS	35	25	M6 x 1.0 x 19	M6 x 1.0	66	96
ET5145-300*	PS	19	16	M4 x 0.7 x 10	M4 x 0.7	25	50
ET5155-001*	PS	79	38	M12 x 1.75 x 41	M12 x 1.75	80	360
ET5155-002*	PS	79	38	M12 x 1.75 x 41	M12 x 1.75	110	540
ET5155-003*	PS	79	38	M12 x 1.75 x 41	M12 x 1.75	145	760
ET5155-004*	PS	79	38	M12 x 1.75 x 41	M12 x 1.75	215	980
ET5155-005*	PS	79	38	M12 x 1.75 x 41	M12 x 1.75	285	1815
ET5155-401	PS	79	76	M12 x 1.75 x 41	M12 x 1.75	38	250
ET5155-402	PS	79	76	M12 x 1.75 x 41	M12 x 1.75	65	410
ET5155-403	PS	79	76	M12 x 1.75 x 41	M12 x 1.75	105	690
ET5155-404	PS	79	76	M12 x 1.75 x 41	M12 x 1.75	140	910
ET5155-405	PS	79	76	M12 x 1.75 x 41	M12 x 1.75	185	1190

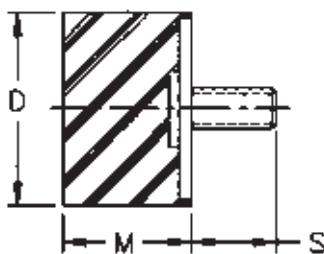
*Neoprene

P Thread Depth Is Min. One Thread Dia.

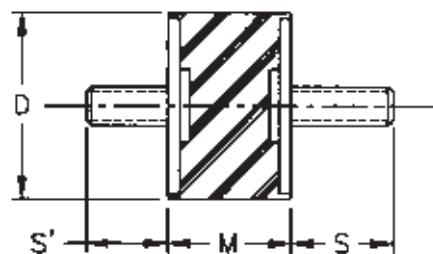
Stud/Plate Mounts

Thread Size —Metric

STYLE S



STYLE SS



Part No.	Style	D (mm)	M (mm)	S' (mm)	S	Maximum Shear (Kg)	Maximum Comp. (Kg)
ET5094-100*	S	25	21,5	M6 x 1.0 x 19	—	—	55
ET5144-600*	S	19	9,5	M6 x 1.0 x 13	—	—	34

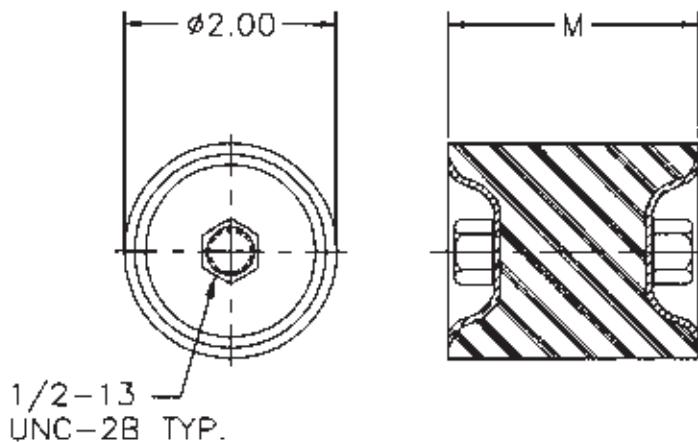
*Neoprene

Part No.	Style	D (mm)	M (mm)	S' (mm)	S	Maximum Shear (Kg)	Maximum Comp. (Kg)
ET5095-600*	SS	25	13	M6 x 1.0 x 19	M6 x 1.0 x 19	22	45
ET5095-700*	SS	11	10	M3 x 0.5 x 6	M3 x 0.5 x 6	3	5
ET5095-901*	SS	25	19	M6 x 1.0 x 12	M6 x 1.0 x 12	15	44
ET5095-902*	SS	25	19	M6 x 1.0 x 12	M6 x 1.0 x 12	18	50
ET5095-903*	SS	25	19	M6 x 1.0 x 12	M6 x 1.0 x 12	21	55
ET5095-904*	SS	25	19	M6 x 1.0 x 12	M6 x 1.0 x 12	25	60
ET5095-905*	SS	25	19	M6 x 1.0 x 12	M6 x 1.0 x 12	30	70
ET5109-800	SS	11	13	M4 x 0.7 x 6	M4 x 0.7 x 6	20	50
ET5128-100*	SS	25	19	M8 x 1.25 x 20	M8 x 1.25 x 20	20	54
ET5144-500*	SS	25	19	M8 x 1.25 x 14	M8 x 1.25 x 14	40	80
ET5148-700	SS	19	13	M6 x 1.0 x 14	M6 x 1.0 x 14	12	28
ET5154-901	SS	79	38	M12 x 1.75 x 41	M12 x 1.75 x 41	90	360
ET5154-902	SS	79	38	M12 x 1.75 x 41	M12 x 1.75 x 41	120	540
ET5154-903	SS	79	38	M12 x 1.75 x 41	M12 x 1.75 x 41	155	760
ET5154-904	SS	79	38	M12 x 1.75 x 41	M12 x 1.75 x 41	225	980
ET5154-905	SS	79	38	M12 x 1.75 x 41	M12 x 1.75 x 41	295	1815
ET5156-101	SS	79	76	M12 x 1.75 x 41	M12 x 1.75 x 41	38	250
ET5156-102	SS	79	76	M12 x 1.75 x 41	M12 x 1.75 x 41	65	410
ET5156-103	SS	79	76	M12 x 1.75 x 41	M12 x 1.75 x 41	105	690
ET5156-104	SS	79	76	M12 x 1.75 x 41	M12 x 1.75 x 41	140	910
ET5156-105	SS	79	76	M12 x 1.75 x 41	M12 x 1.75 x 41	185	1190

*Neoprene

Dish End Plate/Plate Mounts

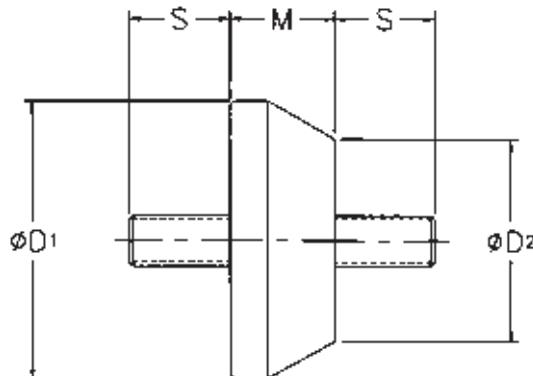
Thread Size — $\frac{1}{2}$



Part No.	M (in.)	Max. Shear Load (lbs.)	K _c (lbs./in.)	Max. Comp. Load (lbs.)	K _c (lbs./in.)
ET5149-601	1 $\frac{1}{4}$	45	210	95	1,200
ET5149-602	1 $\frac{1}{4}$	55	280	130	1,625
ET5149-603	1 $\frac{1}{4}$	85	420	190	2,375
ET5149-604	1 $\frac{1}{4}$	130	650	290	3,625
ET5149-701	2 $\frac{1}{8}$	30	150	90	735
ET5149-702	2 $\frac{1}{8}$	45	220	115	960
ET5149-703	2 $\frac{1}{8}$	60	290	165	1,375
ET5149-704	2 $\frac{1}{8}$	100	485	265	2,200
ET5149-801	2 $\frac{1}{8}$	20	100	85	520
ET5149-802	2 $\frac{1}{8}$	27	135	110	675
ET5149-803	2 $\frac{1}{8}$	37	180	170	1,050
ET5149-804	2 $\frac{1}{8}$	65	315	260	1,625

Stud/Plate Mounts

Thread Size — $\frac{1}{2}$



$\frac{1}{2}$ -13

Part No.	D ₁ (in.)	D ₂ (in.)	M (in.)	S (in.)	Max. Shear (lbs.)	Max. Comp. (lbs.)
ET5014-400*	$2\frac{3}{4}$	2	$1\frac{1}{32}$	$1\frac{1}{4}$	140	260
ET5014-500*				$1\frac{1}{4}$	165	340
ET5014-600*				$1\frac{1}{4}$	190	430
ET5015-100				1	140	260
ET5015-200				1	165	340
ET5015-300				1	190	430

* Neoprene

$\frac{1}{2}$ -20

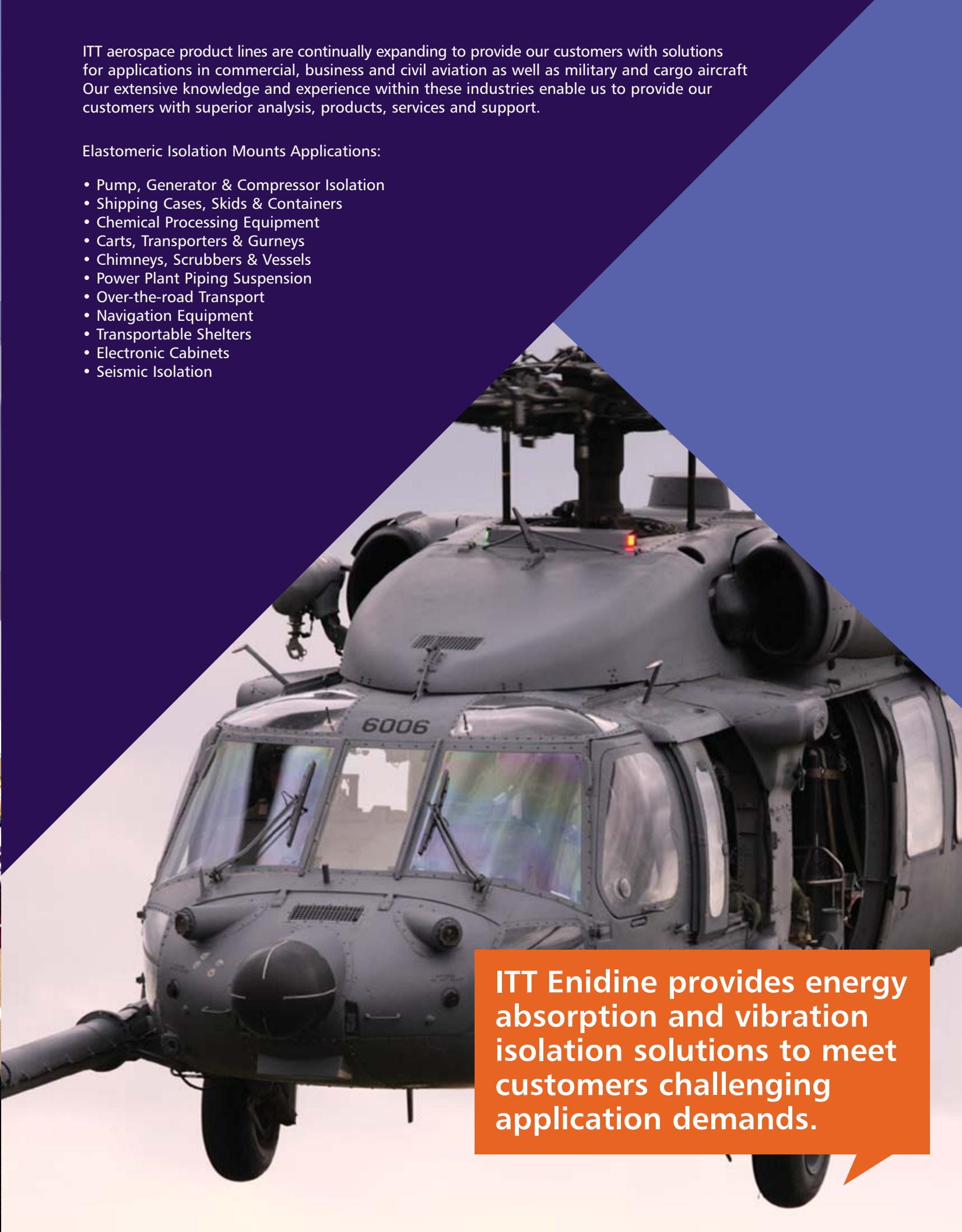
Part No.	D ₁ (in.)	D ₂ (in.)	M (in.)	S (in.)	Max. Shear (lbs.)	Max. Comp. (lbs.)
ET5014-800	$2\frac{3}{4}$	2	$1\frac{1}{32}$	$\frac{29}{32}$	140	260
ET5014-900				$\frac{29}{32}$	165	340
ET5015-000				$\frac{29}{32}$	190	430
ET5129-300**				$\frac{29}{32}$	—	340

** No Stud On 2" Dia. End

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