



Wire Rope Technology

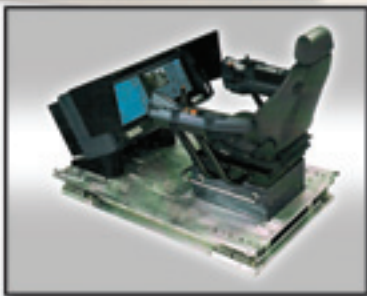
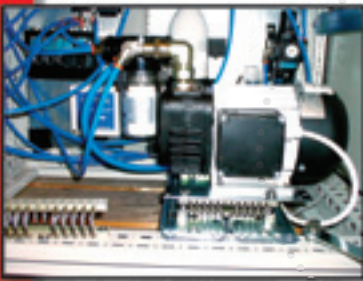


Energy Absorption • Vibration Isolation • Noise Attenuation

Wire Rope Isolator Series
Compact Rope Isolator Series
HERM (High Energy Rope Mounts)
Custom Engineered Products

ENIDINE

An **IMC** Company



WR and HERM Applications:

- Carts, Transporters & Gurneys
- Chemical Processing Equipment
- Chimneys, Scrubbers & Vessels
- Electronic Cabinets
- Navigation Equipment
- Over-the-road Transport
- Power Plant Piping Suspension
- Pump, Generator & Compressor Isolation
- Seismic Isolation
- Shipping Cases, Skids & Containers
- Transportable Shelters

CR Applications:

- Audio/Visual Equipment
- Catering Carts
- Communications Packages
- Medical Devices
- Sensitive Electronic Equipment
- Security Cameras
- Hard Drives / CD-ROM Drives
- Electronics Production



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Enidine, a preferred source for energy absorption and vibration isolation solutions, offers a full range of Wire Rope, Compact Wire Rope Isolator and HERM (High Energy Rope Mount) products, each designed to reduce the harmful effects of shock and vibration.



U.S. Patents 5,549,285
6,290,217
6,244,579

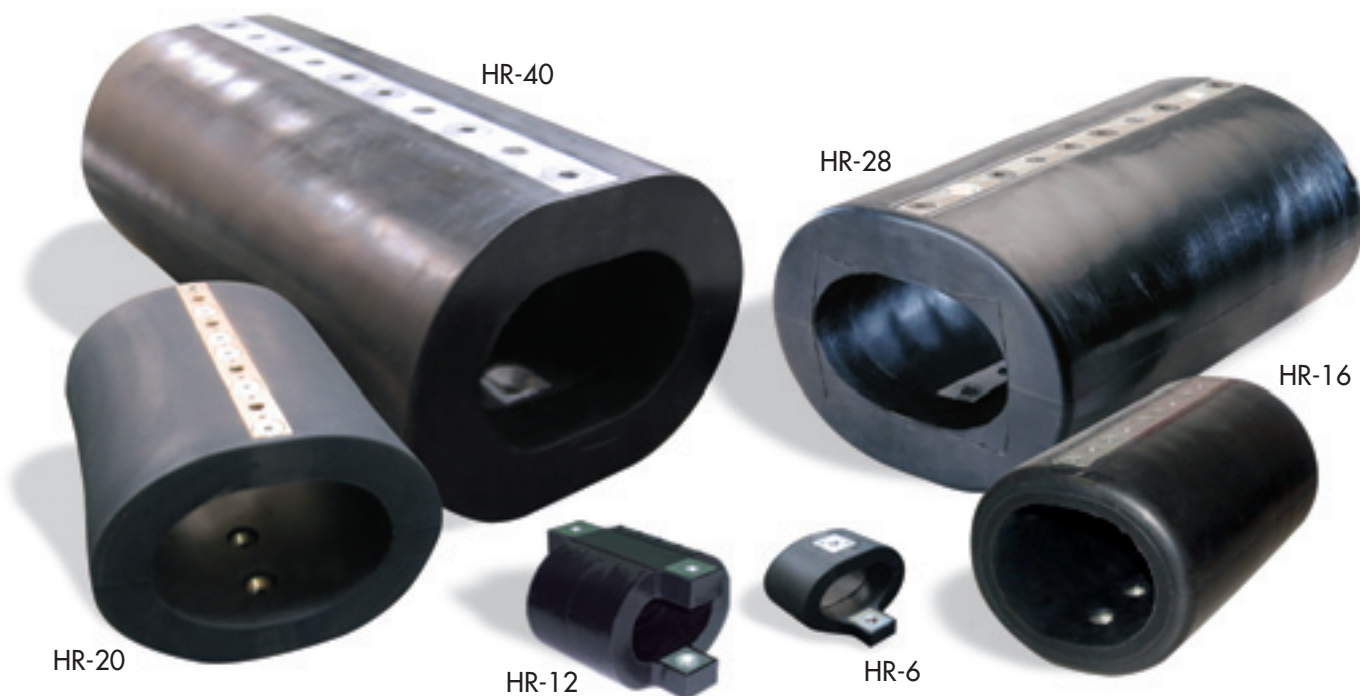
Need Assistance? Enidine is ready to answer your questions, feel free to contact us at:

Phone: Toll Free - 1.800.852.8508
Direct - 1.716.662.1900

Fax: General - 1.716.662.1909
Industrial -1.716.662.0406
Aerospace -1.716.662.1385

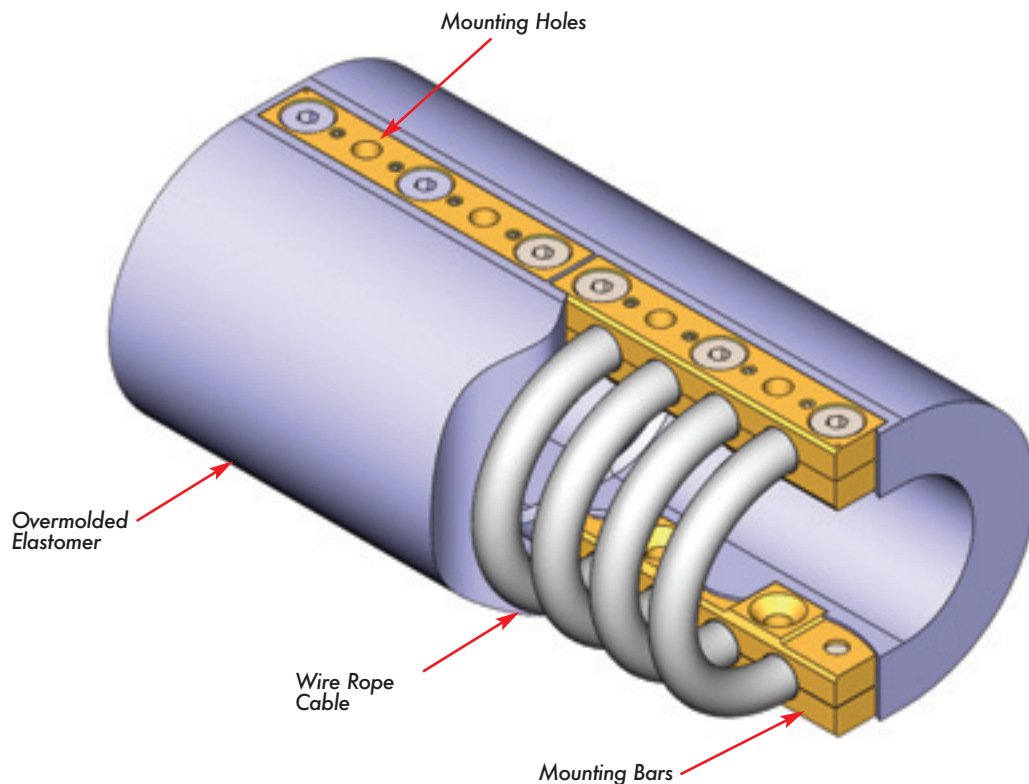
Email: industrialsales@enidine.com
aviationsales@enidine.com
defensesales@enidine.com

Online: www.enidine.com



The HERM isolator incorporates the use of a traditional Enidine helical wire rope isolator encased in a proprietary elastomeric compound. The stainless steel cable of the mount provides for a rugged construction, while the elastomer provides additional damping and stiffness. This unique design results in a fail safe mount with a higher stiffness and energy absorption capacity.

The mount is readily scalable and performance easily tuned by varying the wire diameter, loop size, number of loops and elastomeric properties. The HERM isolator has proven particularly strong in low natural frequency "soft deck" applications of 12-16 Hz, reducing output G's to below 15G's. Its sealed nature of construction also provides for easy NBC washdown. Since the mounting size of the HERM isolator is virtually identical to that of standard wire rope isolators used in many shipboard applications, equipment upgrades are both simple and seamless with drop-in replacement capability.

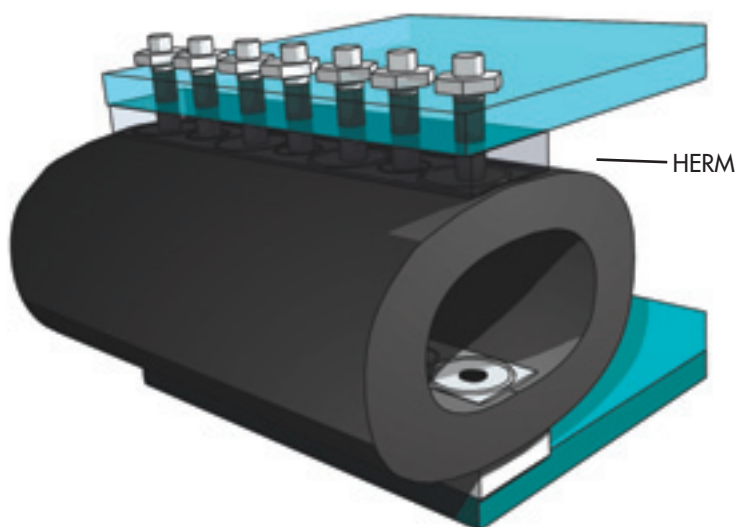


HERM Features:

- Lowest profile design for a 14 Hz deck solution
- A variety of material combinations available
- Mounting identical to traditional Wire Rope Isolators
- Readily "tunable" to meet a wide range of natural frequencies
- Greater load carrying capability

HERM Benefits:

- Easy retrofit on fielded equipment
- Fewer mounts required to support a given load
- Smaller "footprint" than other mounts
- Compatible with NBC wash down requirements
- Improved noise attenuation compared to standard Wire Rope Isolators



Materials and Finishes:

Standard: Elastomer: Proprietary Enidine Compound
Wire Rope: 302/304 Stainless Steel
Mount Bars: 6061-T6 Aluminum, Chemical Conversion Coated per MIL-C-5541, Class 1A
Hardware: Alloy Steel per ASTM F835, Zinc Plated (HR16, HR20, HR28 and HR40)

Optional: Mount Bars: 6061-T6 Aluminum, Anodized per MIL-A-8625, Type II, Class 1
302/304 Stainless Steel per ASTM A276, Passivated
Hardware: 302/304 Stainless Steel (when stainless steel bars are specified)

Special: Consult Enidine

Isolator Options:

Mounting: Enidine offers various mounting combinations of thru-hole, countersunk, and threaded bars depending upon the HERM model selected.
Consult Enidine if a preferred mounting configuration is not listed.

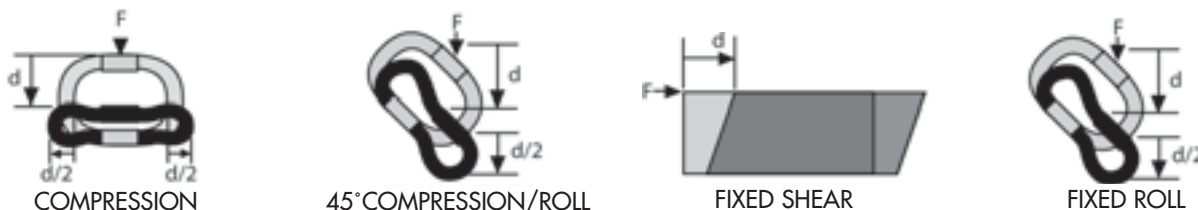
Performance:

Stiffness (Kv or Ks):

HERM's exhibit non-linear stiffness behavior. Small deflections, usually associated with vibration isolation, will have a different spring rate than larger shock deflections. Enidine publishes typical vibration stiffness values (Kv), and average shock stiffness values (Ks) within the catalog. These values can be used with the provided equations listed on Page 54 to predict system performance.

Isolator Axes:

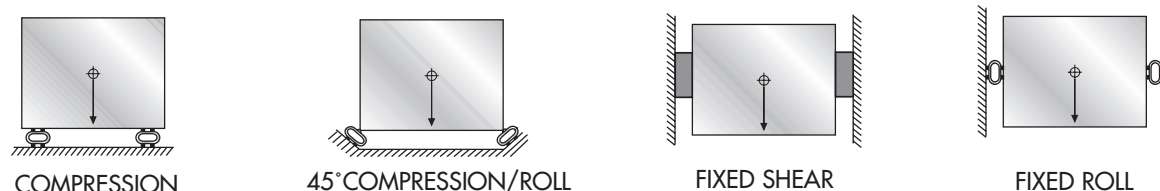
HERM are multi-axis isolators. The diagram below includes load axis definitions and deflection considerations.



Damping: Typically 15-25%, depending on size and input level. For specific damping considerations, please consult Enidine.

Mounting Orientation:

The diagrams below illustrate typical mounting orientations.



Stabilizers:

Stabilizers are used to control deflections of tall supported masses. Stabilizers are typically recommended when the height equals 2-times the width or depth dimension.

APPLICATION WORKSHEET - INPUTS IMPERIAL/METRIC

PART I: SYSTEM DATA:

- Total Supported Load (W_T):
 $W_T = \text{_____ lbs.}$
 $W_T = \text{_____ Kg} \times 9.81 = \text{_____ N}$
- Number of Isolators (n):
 $n = \text{_____}$
- Static Load per Isolator (W):
 $W = \frac{W_T}{n}$
 * Assumes a central CG
- Load Axis: Compression
 Shear or Roll
 45° Compression/Roll

$W = \text{_____ lbs.*}$

$W = \text{_____ N*}$

Load Axis

Load Axis

PART II: VIBRATION SIZING:

- Input Excitation Frequency
 $(f_i) = \text{_____ Hz} \left(= \frac{\text{rpm}}{60} \right)$
- System Response Natural Frequency for 80% isolation:
 $f_n = \frac{f_i}{3.0} = \text{_____ Hz}$
- Maximum Isolator Vibration Stiffness: (K_v)
 $K_v = \frac{W (2\pi f_n)^2}{g}$
 $g = 386 \text{ in./sec}^2 \text{ or } 9.81 \text{ m/sec}^2$
- Select an isolator by comparing calculated values with technical data for the desired load axis provided in tables for each isolator.
 a.) Calculated "W" must be less than the isolator's max static load
 and
 b.) Isolator's vibration stiffness must be less than the calculated maximum K_v

$K_v = \text{_____ lbs./in.}$

$K_v = \text{_____ N/m}$

PART III: SHOCK SIZING:

- Maximum Allowable Transmitted Acceleration:
 $A_T = \text{_____ G's}$
- Shock Input Velocity:
 $V = \text{_____ in./sec.}$
 $V = \text{_____ m/sec.}$
 Free Fall Impact:
 $V = \sqrt{2gh}$
 $g = 386 \text{ in./sec}^2 \text{ or } 9.81 \text{ m/sec}^2$
 $h = \text{Drop Height (in. or m)}$

- Min. Isolator Response Deflection:
 $D_{\min} = \frac{V^2}{g(A_T)}$

$D_{\min} = \text{_____ in.}$

$D_{\min} = \text{_____ m}$

- Maximum Isolator Shock Stiffness:
 $K_s = \frac{W(V/D_{\min})^2}{g}$

$K_s = \text{_____ lbs./in.}$

$K_s = \text{_____ N/m}$

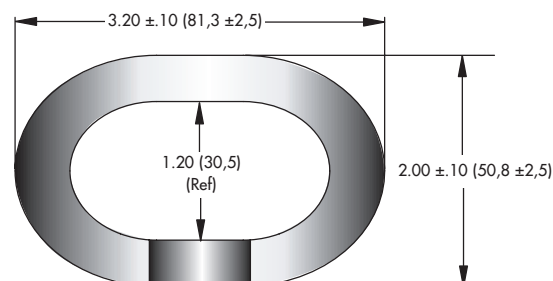
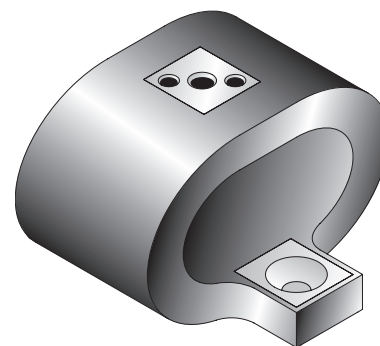
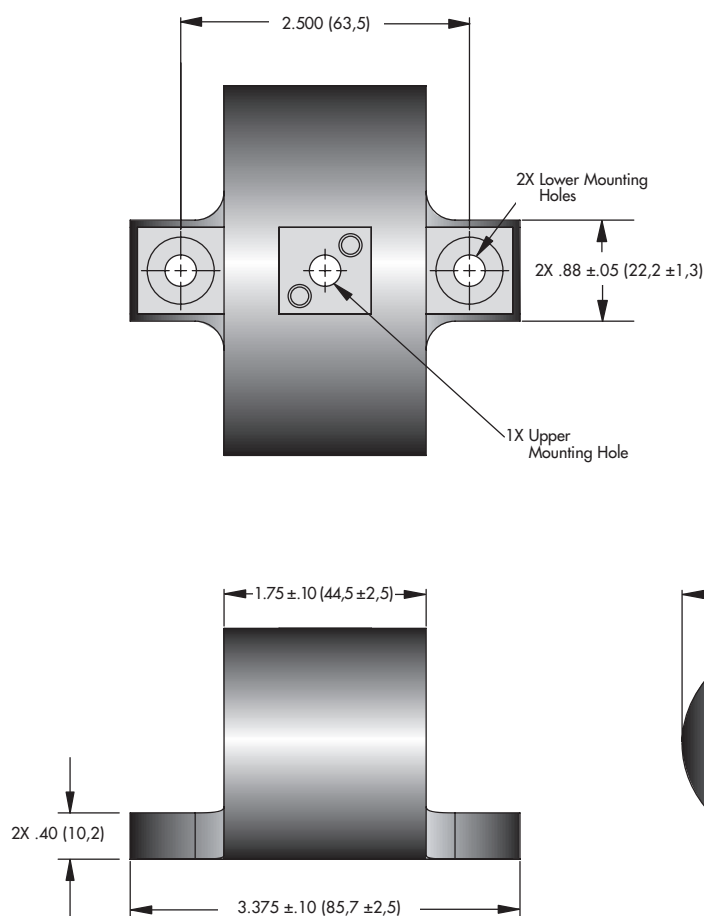
- Select an isolator by comparing calculated values with technical data for the desired load axis provided in tables for each isolator.
 a.) Calculated "W" must be less than the isolator's max static load
 and
 b.) Calculated D_{min} must be less than the isolator's max deflection
 Note: Metric deflections are calculated in meters (m) and technical data is in millimeters (mm).
 and
 c.) Isolator's shock stiffness must be less than calculated maximum "K_s"

- Check actual deflection using "K_s" from technical data to ensure that the isolator's max deflection is not exceeded.
 $D_{\text{actual}} = \sqrt{\frac{V}{K_s(\text{Isolator})g}}$

$D_{\text{actual}} = \text{_____ in.}$

$D_{\text{actual}} = \text{_____ m}$

- If isolator's max deflection is exceeded, select another isolator and repeat steps 5 and 6.



Note: Dimensions are in inches (mm) Tolerances are ± .010 (± .25mm)

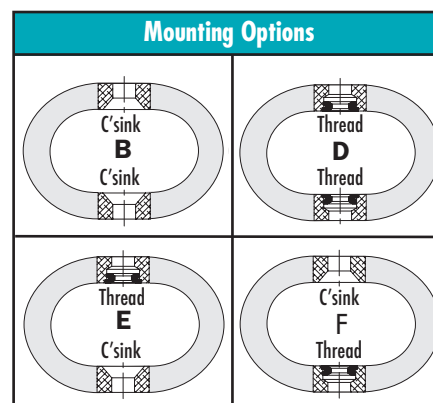
Size	Unit Weight lbs. (Kg)	Mounting Options	Thru Hole in. (mm)	Thread in. (mm)	C'sink Imperial (Metric)
HR6-600	0.4 (0,2)	B, D, E, F	Ø.272 (Ø6,9)	#1/4-20 UNF (M6 X 1,0)	82° (90°)
HR6-400	0.4 (0,2)				
HR6-200	0.4 (0,2)				

Model Number Ordering Code

HR6 - 200 - B L M P

- Mount Bar Options: *
- [] - 6061-T6 Aluminum (or Equiv.) Chem Conv. Coated
 - [Y] - 6061-T6 Aluminum (or Equiv.) Anodized
 - [P] - 302/304 Stainless Steel (or Equiv.) Passivated
- Add "M" for Metric All Mounting Options
- Threaded Hole Options:
- [H] - Helical, Free Running
 - [L] - Helical, Locking, Dry Film Lubricated
- Mounting Options: See Chart
- Isolator Model: See Sizing Table

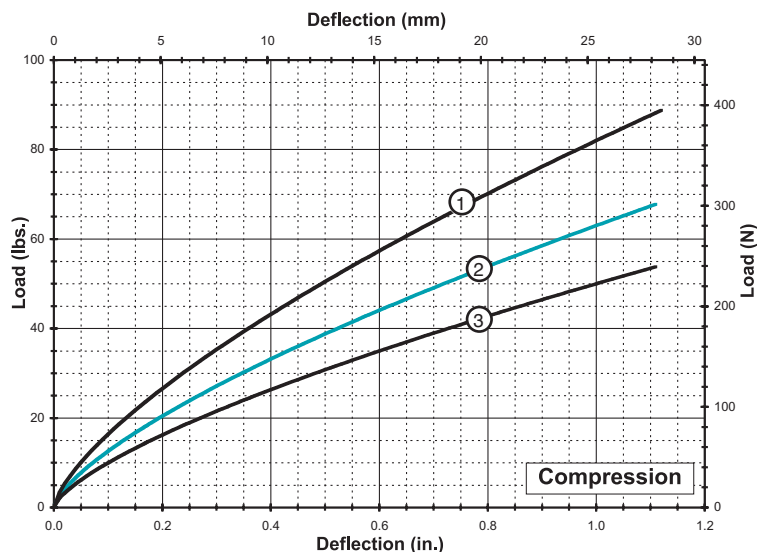
Mounting Options



• Meets environmental requirements of MIL-M-17185A

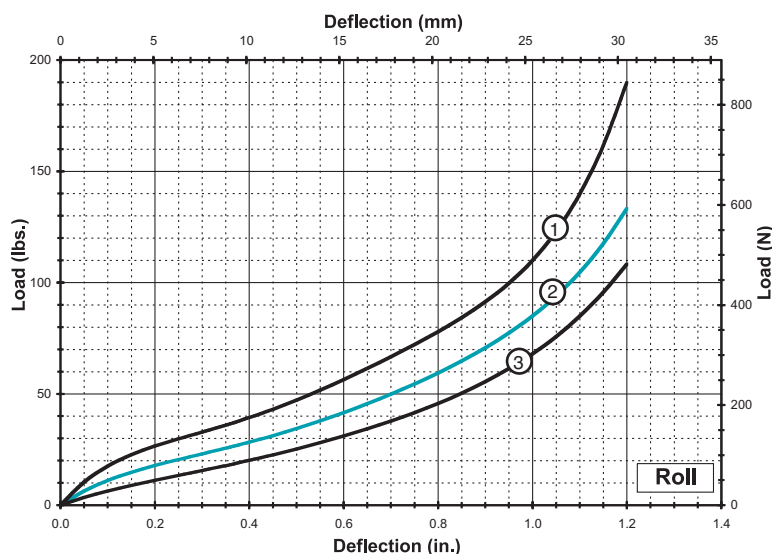
* Standard features. Any non-standard items may require longer lead times. Call for quotation.

Static Load vs. Deflection



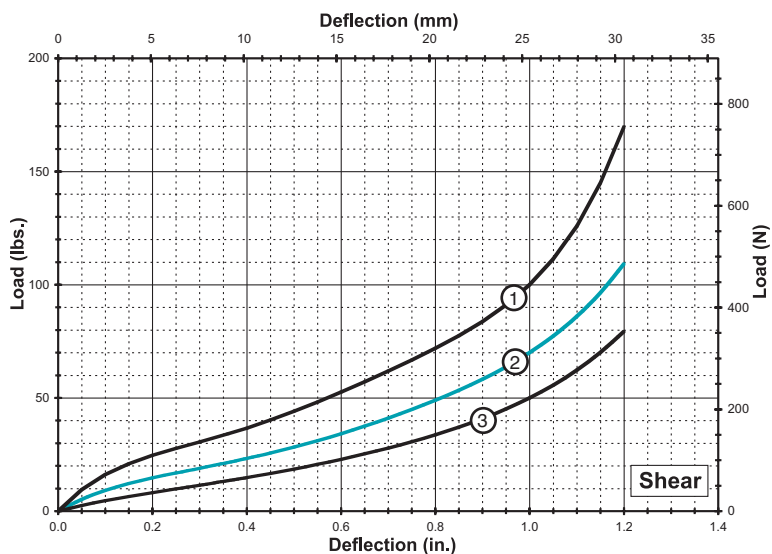
Compression

Curve	Model	Max Static Load Lbs. (N)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	HR6-600	24 (107)	1.12 (28,4)	215 (38)	140 (25)
2	HR6-400	18 (80)	1.12 (28,4)	165 (29)	110 (19)
3	HR6-200	14 (62)	1.12 (28,4)	130 (23)	85 (15)



Roll

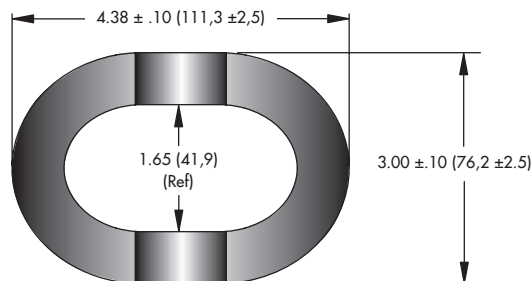
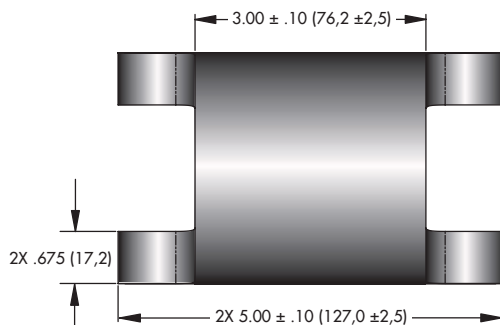
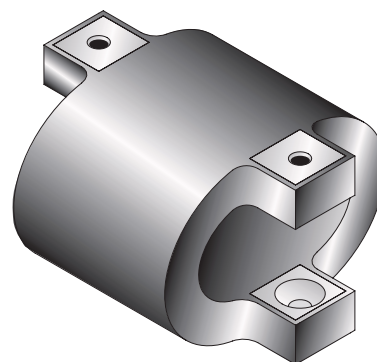
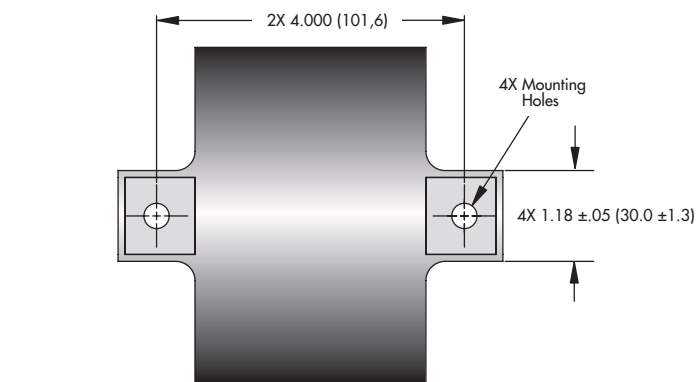
Curve	Model	Max Static Load Lbs. (N)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	HR6-600	36 (160)	1.20 (30,5)	230 (40)	165 (29)
2	HR6-400	26 (116)	1.20 (30,5)	145 (25)	125 (22)
3	HR6-200	18 (80)	1.20 (30,5)	80 (14)	95 (17)



Shear

Curve	Model	Max Static Load Lbs. (N)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	HR6-600	34 (151)	1.20 (30,5)	210 (37)	150 (26)
2	HR6-400	20 (89)	1.20 (30,5)	120 (21)	100 (18)
3	HR6-200	13 (58)	1.20 (30,5)	60 (11)	70 (12)

Note: Do not extrapolate plotted curves.



Note: Dimensions are in inches (mm) Tolerances are $\pm .010$ ($\pm .25\text{mm}$)

Size	Unit Weight lbs. (Kg)	Mounting Options	Thru Hole in. (mm)	Thread in. (mm)	C'sink Imperial (Metric)
HR12-600	1.8 (0,8)	B, D, E	$\emptyset.328 \pm.005$ ($\emptyset9,0 \pm0,13$)	#5/16-18 UNC (M8 X 1,25)	82° (90°)
HR12-400	1.8 (0,8)				
HR12-200	1.5 (0,8)				

Model Number Ordering Code

HR12-200 - B L M P

Mount Bar Options: * [] - 6061-T6 Aluminum (or Equiv.)
Chem Conv. Coated
[Y] - 6061-T6 Aluminum (or Equiv.)
Anodized
[P] - 302/304 Stainless Steel (or Equiv.)
Passivated

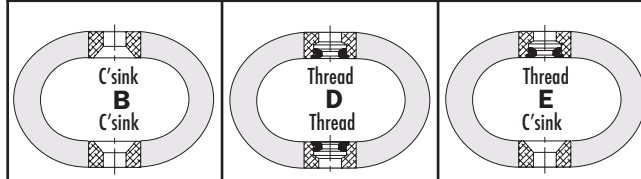
Add "M" for Metric All Mounting Options

Threaded Hole Options: [H] - Helical, Free Running
[L] - Helical, Locking, Dry Film Lubricated

Mounting Options: See Chart

Isolator Model: See Sizing Table

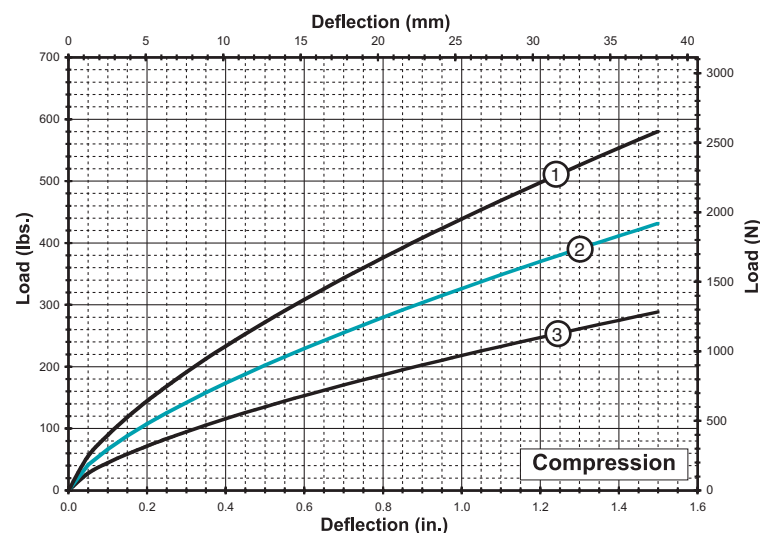
Mounting Options



• Meets environmental requirements of MIL-M-17185A

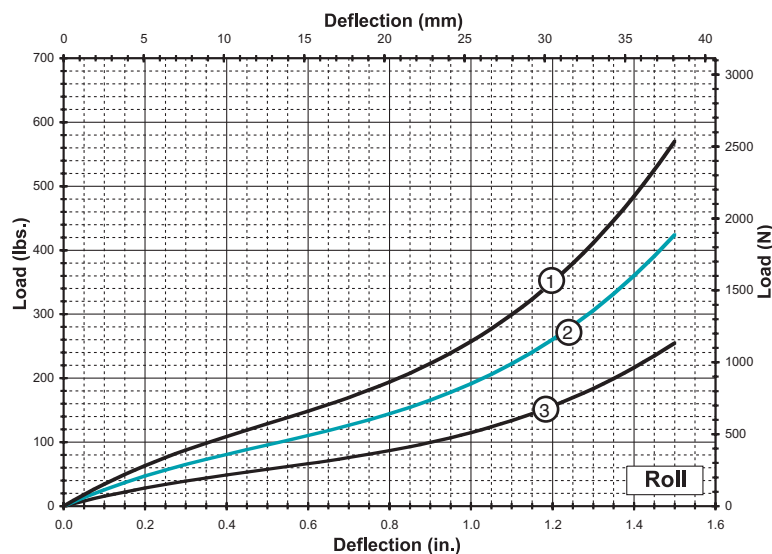
* Standard features. Any non-standard items may require longer lead times. Call for quotation.

Static Load vs. Deflection



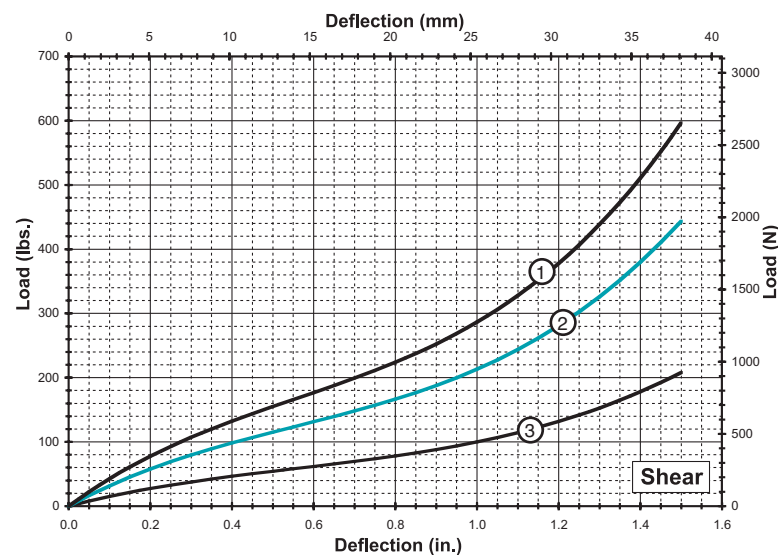
Compression

Curve	Model	Max Static Load Lbs. (N)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	HR12-600	155 (689)	1.50 (38,1)	1,165 (204)	690 (121)
2	HR12-400	115 (512)	1.50 (38,1)	865 (151)	510 (89)
3	HR12-200	80 (356)	1.50 (38,1)	580 (102)	340 (60)



Roll

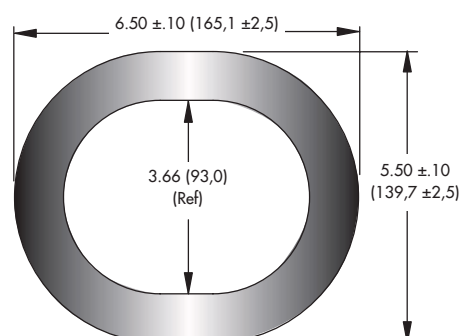
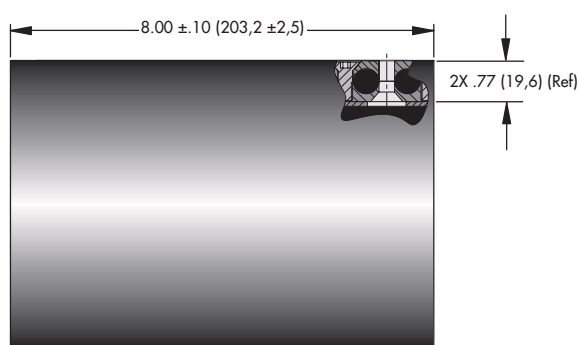
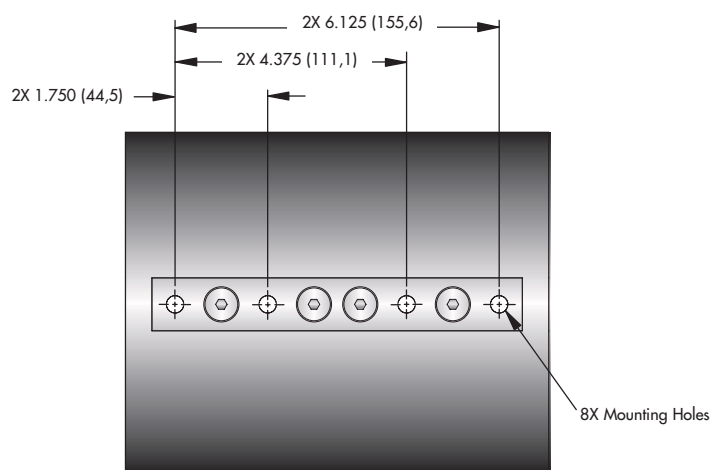
Curve	Model	Max Static Load Lbs. (N)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	HR12-600	120 (534)	1.50 (38,1)	450 (79)	430 (75)
2	HR12-400	90 (400)	1.50 (38,1)	335 (59)	325 (57)
3	HR12-200	55 (245)	1.50 (38,1)	200 (35)	195 (34)



Shear

Curve	Model	Max Static Load Lbs. (N)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	HR12-600	145 (645)	1.50 (38,1)	555 (97)	480 (84)
2	HR12-400	105 (467)	1.50 (38,1)	410 (72)	360 (63)
3	HR12-200	50 (222)	1.50 (38,1)	195 (34)	170 (30)

Note: Do not extrapolate plotted curves.



Note: Dimensions are in inches (mm) Tolerances are ± .010 (± .25mm)

Size	Unit Weight lbs. (Kg)	Mounting Option	Thru Hole in. (mm)	C'sink Imperial
HR16-606	8.8 (4,0)	B	0.328 ± 0.005	82°
HR16-406	7.5 (3,4)		± 0.015	
HR16-206	6.0 (2,7)		$(08,3 \pm 0,13)$ $\pm 0,38$	

Model Number Ordering Code

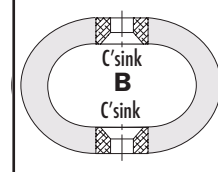
HR16 - 206 - B P

Mount Bar Options: * [] - 6061-T6 Aluminum (or Equiv.)
Chem Conv. Coated
[Y] - 6061-T6 Aluminum (or Equiv.)
Anodized
[P] - 302/304 Stainless Steel (or Equiv.)
Passivated

Mounting Option: See Chart

Isolator Model: See Sizing Table

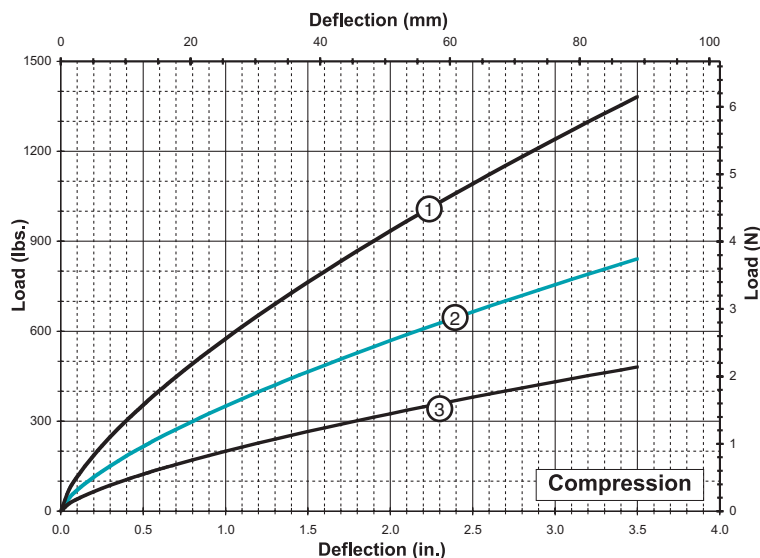
Mounting Option



• Meets environmental requirements of MIL-M-17185A

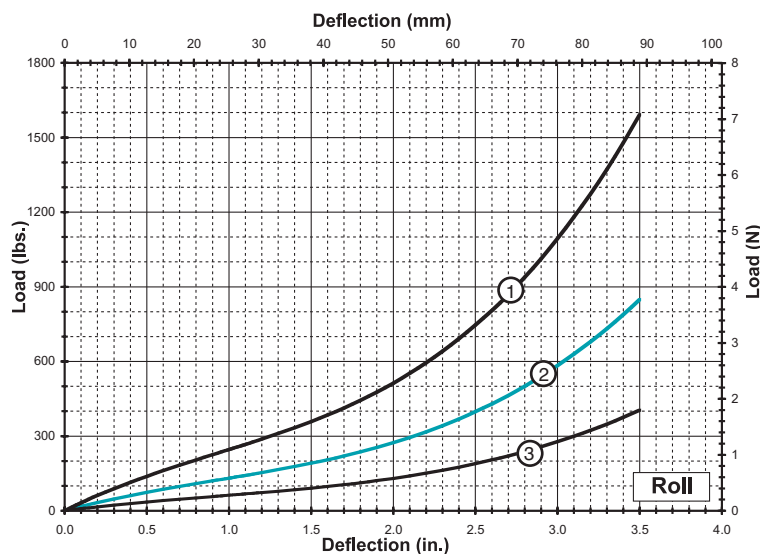
* Standard features. Any non-standard items may require longer lead times. Call for quotation.

Static Load vs. Deflection



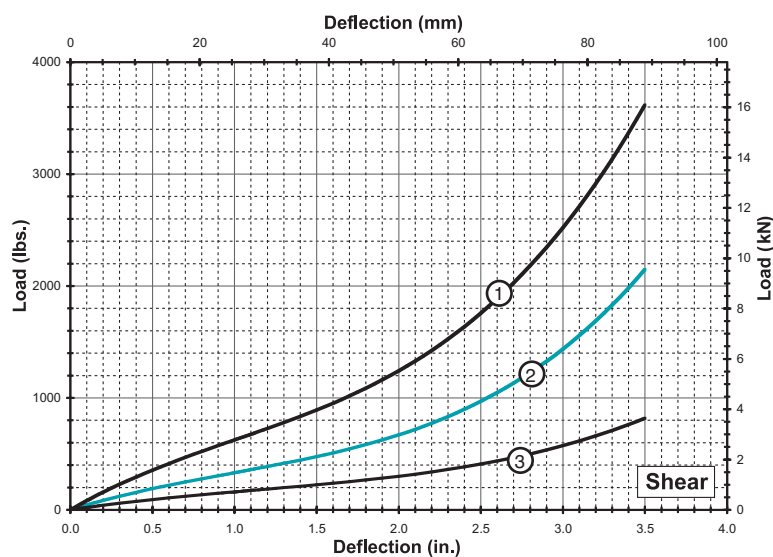
Compression

Curve	Model	Max Static Load Lbs. (N)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	HR16-606	365 (1 624)	3.50 (88,9)	1,490 (261)	700 (123)
2	HR16-406	225 (1 001)	3.50 (88,9)	910 (159)	425 (74)
3	HR16-206	125 (556)	3.50 (88,9)	520 (91)	245 (43)



Roll

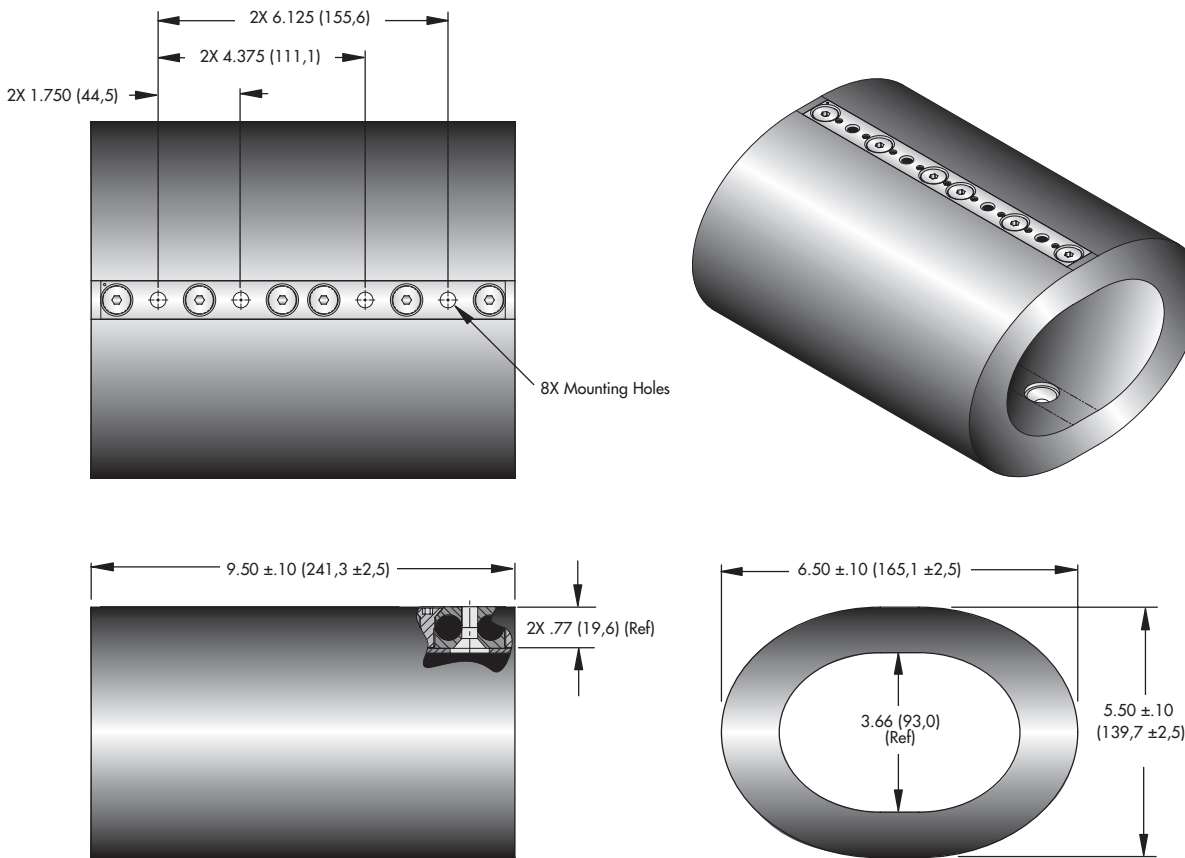
Curve	Model	Max Static Load Lbs. (N)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	HR16-606	255 (1 134)	3.50 (88,9)	415 (73)	475 (83)
2	HR16-406	135 (601)	3.50 (88,9)	220 (39)	250 (44)
3	HR16-206	65 (289)	3.50 (88,9)	105 (18)	120 (21)



Shear

Curve	Model	Max Static Load Lbs. (N)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	HR16-606	650 (2 891)	3.50 (88,9)	1,065 (187)	1,115 (195)
2	HR16-406	345 (1 535)	3.50 (88,9)	565 (99)	690 (121)
3	HR16-206	165 (734)	3.50 (88,9)	275 (48)	255 (45)

Note: Do not extrapolate plotted curves.



Note: Dimensions are in inches (mm) Tolerances are ± .010 (± .25mm)

Size	Unit Weight lbs. (Kg)	Mounting Option	Thru Hole in. (mm)	C'sink Imperial
HR16-600	10.5 (4,8)	B	Ø.328 ±.005 ±.015	82°
HR16-400	9.0 (4,1)		Ø.328 ±.005 ±.015	
HR16-200	7.5 (3,4)		(Ø8,3 ±0,13 ±0,38)	

Model Number Ordering Code

HR16 - 200 - B P

Mount Bar Options:

* [] - 6061-T6 Aluminum (or Equiv.)
 Chem Conv. Coated
 [Y] - 6061-T6 Aluminum (or Equiv.)
 Anodized
 [P] - 302/304 Stainless Steel (or Equiv.)
 Passivated

Mounting Option:

See Chart

Isolator Model:

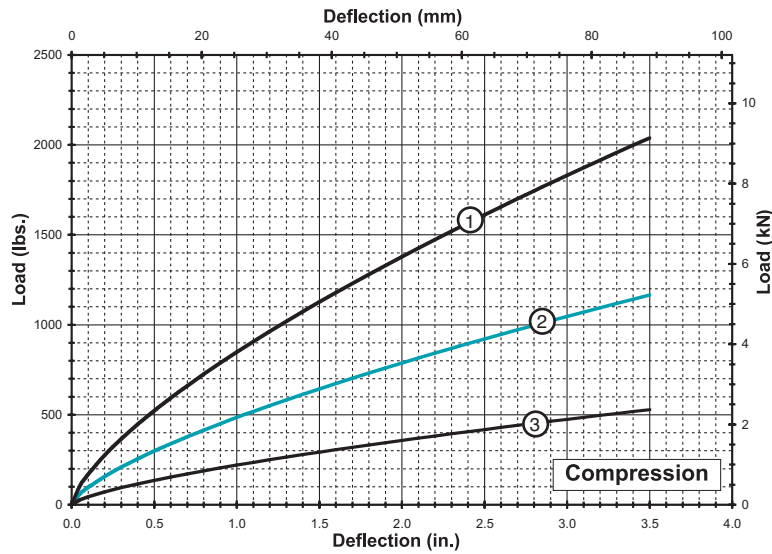
See Sizing Table

Mounting Option

• Meets environmental requirements of MIL-M-17185A

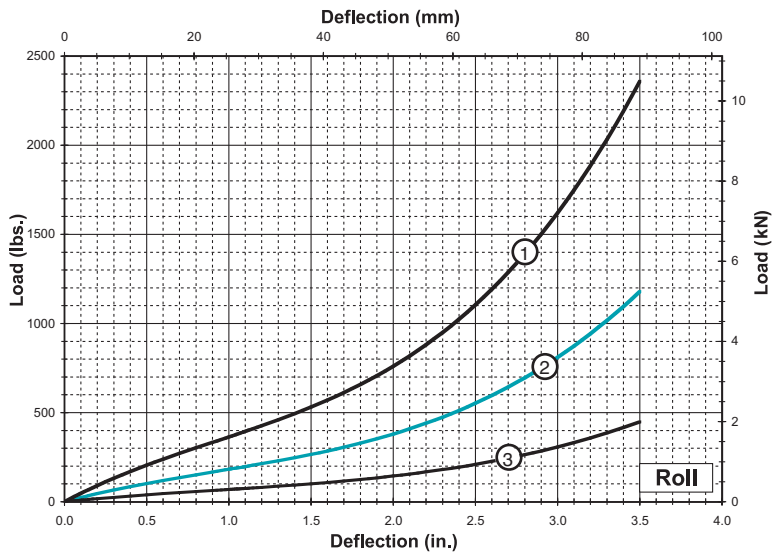
* Standard features. Any non-standard items may require longer lead times. Call for quotation.

Static Load vs. Deflection



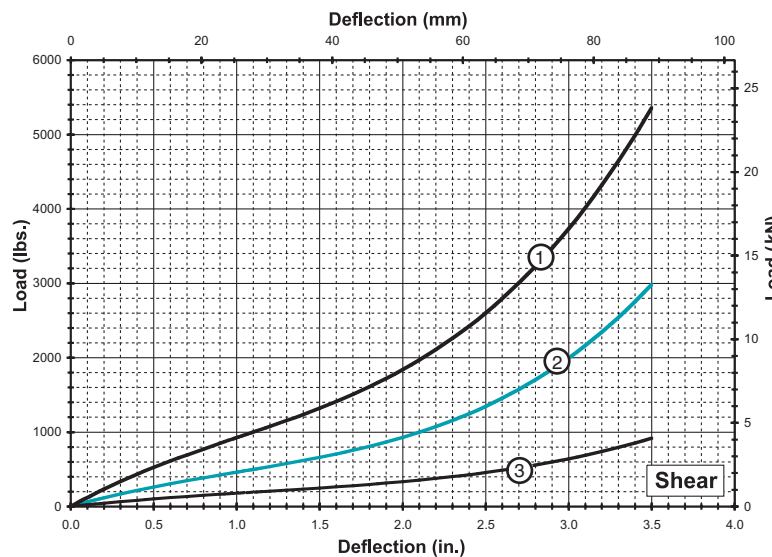
Compression

Curve	Model	Max Static Load Lbs. (N)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	HR16-600	545 (2 424)	3.50 (88,9)	2,220 (389)	1,035 (181)
2	HR16-400	310 (1 379)	3.50 (88,9)	1,260 (221)	590 (103)
3	HR16-200	140 (623)	3.50 (88,9)	570 (100)	270 (47)



Roll

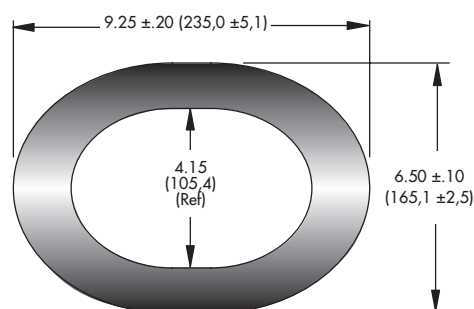
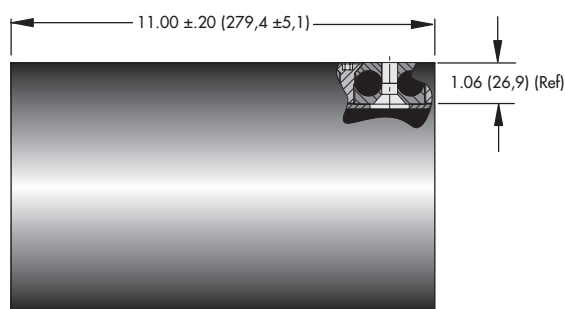
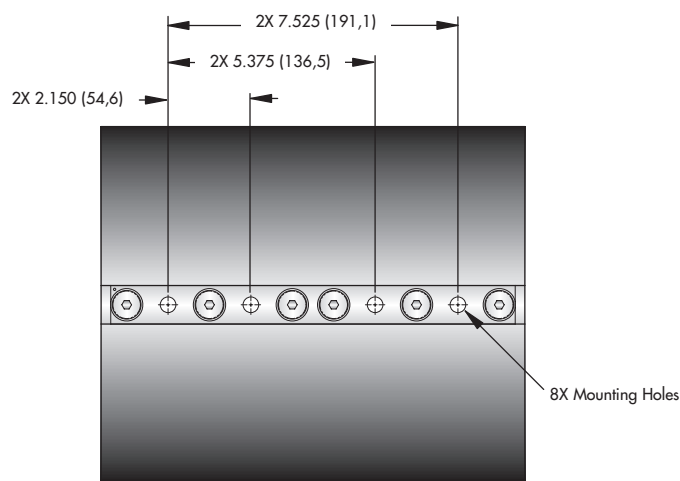
Curve	Model	Max Static Load Lbs. (N)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	HR16-600	375 (1 668)	3.50 (88,9)	615 (108)	700 (123)
2	HR16-400	185 (823)	3.50 (88,9)	305 (53)	350 (61)
3	HR16-200	70 (311)	3.50 (88,9)	115 (20)	135 (24)



Shear

Curve	Model	Max Static Load Lbs. (N)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	HR16-600	960 (4 270)	3.50 (88,9)	1,575 (276)	1,655 (290)
2	HR16-400	480 (2 135)	3.50 (88,9)	790 (138)	870 (152)
3	HR16-200	185 (823)	3.50 (88,9)	305 (53)	295 (52)

Note: Do not extrapolate plotted curves.



Note: Dimensions are in inches (mm) Tolerances are ± .010 (± .25mm)

Size	Unit Weight lbs. (Kg)	Mounting Option	Thru Hole in. (mm)	C'sink Imperial
HR20-600	21 (9,5)	B	Ø.406 ±.005 ±.015	82°
HR20-400	18 (8,2)			
HR20-200	14 (6,4)		(Ø10,3 ±0,13 ±0,38)	

Model Number Ordering Code

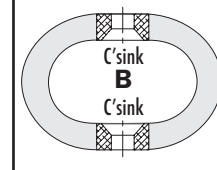
HR20 - 200 - B P

Mount Bar Options: * [] - 6061-T6 Aluminum (or Equiv.)
Chem Conv. Coated
[Y] - 6061-T6 Aluminum (or Equiv.)
Anodized
[P] - 302/304 Stainless Steel (or Equiv.)
Passivated

Mounting Option: See Chart

Isolator Model: See Sizing Table

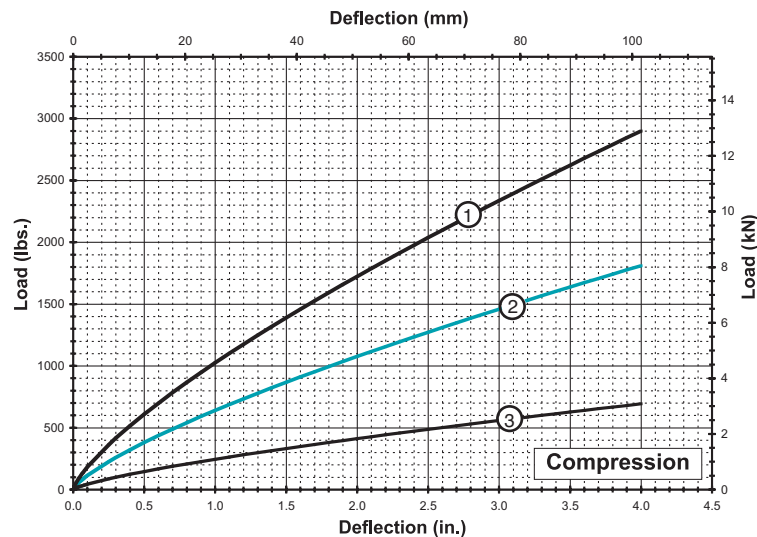
Mounting Option



• Meets environmental requirements of MIL-M-17185A

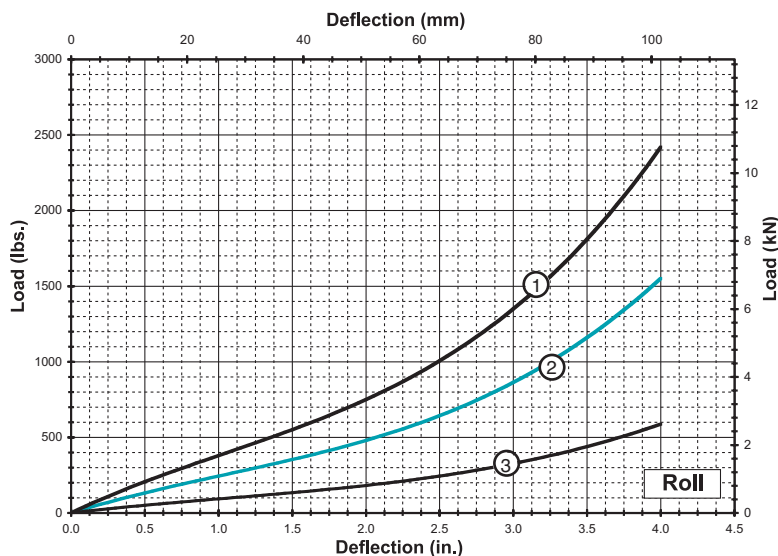
* Standard features. Any non-standard items may require longer lead times. Call for quotation.

Static Load vs. Deflection



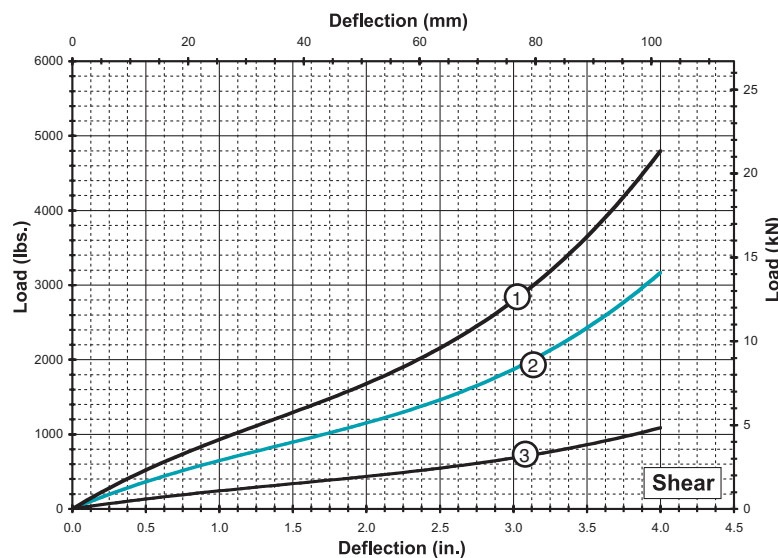
Compression

Curve	Model	Max Static Load Lbs. (N)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	HR20-600	700 (3 114)	4.00 (101,6)	2,370 (415)	1,245 (218)
2	HR20-400	435 (1 935)	4.00 (101,6)	1,480 (259)	777 (136)
3	HR20-200	165 (734)	4.00 (101,6)	565 (99)	295 (52)



Roll

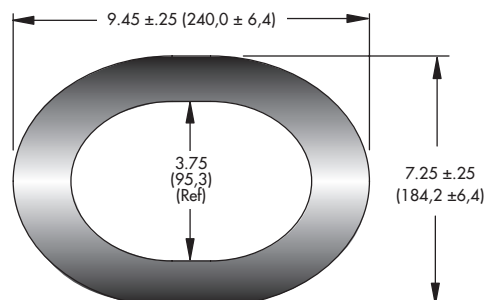
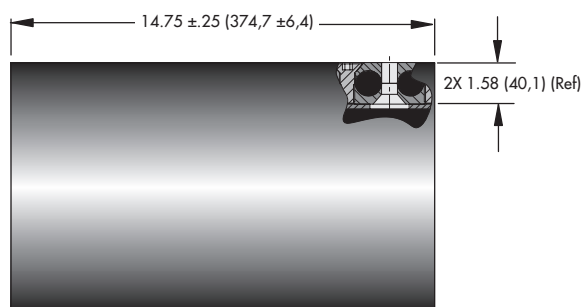
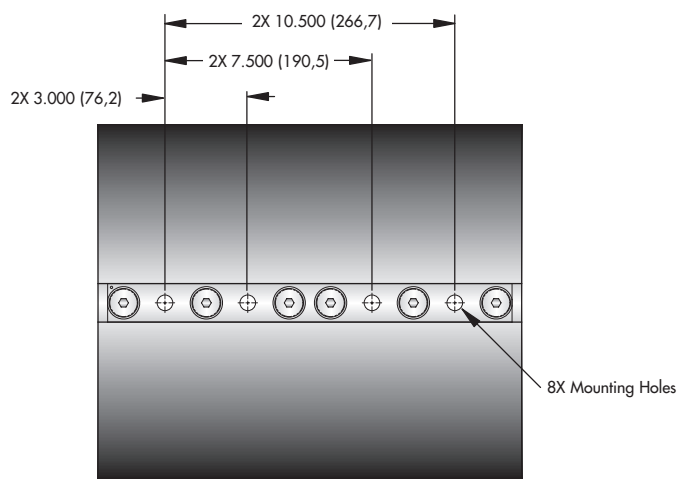
Curve	Model	Max Static Load Lbs. (N)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	HR20-600	360 (1 601)	4.00 (101,6)	590 (103)	675 (118)
2	HR20-400	230 (1 023)	4.00 (101,6)	380 (67)	435 (76)
3	HR20-200	90 (400)	4.00 (101,6)	145 (25)	165 (29)



Shear

Curve	Model	Max Static Load Lbs. (N)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	HR20-600	925 (4 115)	4.00 (101,6)	1,515 (265)	1,440 (252)
2	HR20-400	645 (2 869)	4.00 (101,6)	1,060 (186)	970 (170)
3	HR20-200	230 (1 023)	4.00 (101,6)	380 (67)	355 (62)

Note: Do not extrapolate plotted curves.



Note: Dimensions are in inches (mm) Tolerances are ± .010 (± .25mm)

Size	Unit Weight lbs. (Kg)	Mounting Option	Thru Hole in. (mm)	C'sink Imperial
HR28-600	50 (23)	B	Ø.531 ±.005 ±.015	82°
HR28-400	40 (18)		Ø.531 ±.005 ±.015	
HR28-200	30 (14)		Ø.531 ±.005 ±.015	

Model Number Ordering Code

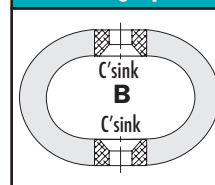
HR28 - 200 - B P N

Mount Bar Options: * [] - 6061-T6 Aluminum (or Equiv.)
Chem Conv. Coated
[Y] - 6061-T6 Aluminum (or Equiv.)
Anodized
[P] - 302/304 Stainless Steel (or Equiv.)
Passivated

Mounting Option: See Chart

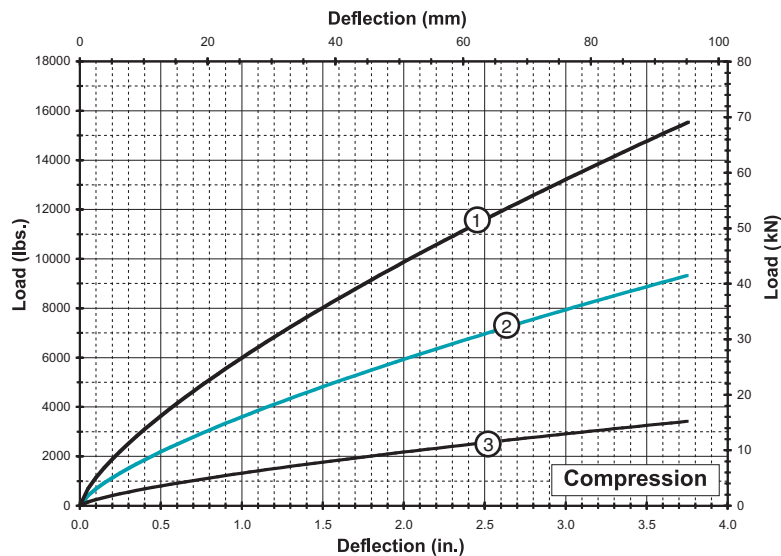
Isolator Model: See Sizing Table

Mounting Option



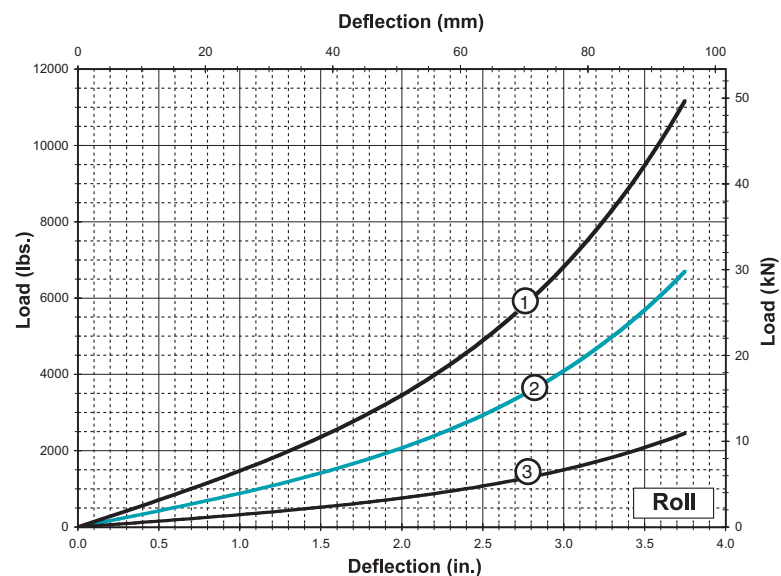
* Standard features. Any non-standard items may require longer lead times. Call for quotation.

Static Load vs. Deflection



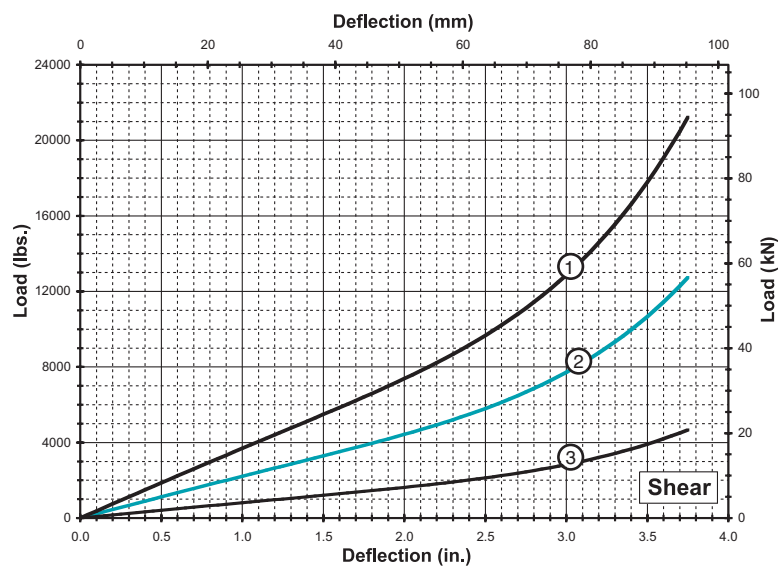
Compression

Curve	Model	Max Static Load Lbs. (kN)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	HR28-600	4,000 (17,79)	3.75 (95,3)	14,865 (2 603)	7,230 (1 266)
2	HR28-400	2,375 (10,56)	3.75 (95,3)	8,920 (1 562)	4,335 (759)
3	HR28-200	870 (3,87)	3.75 (95,3)	3,270 (573)	1,590 (278)



Roll

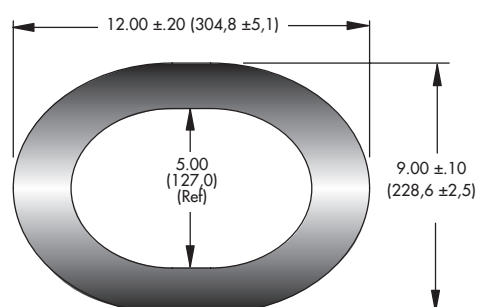
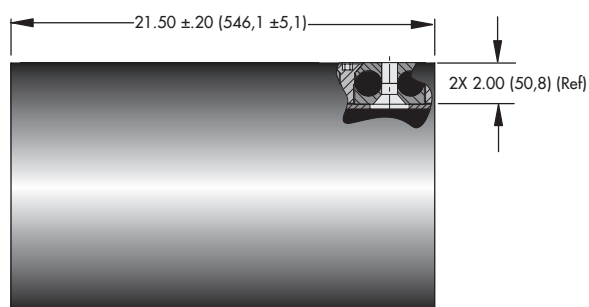
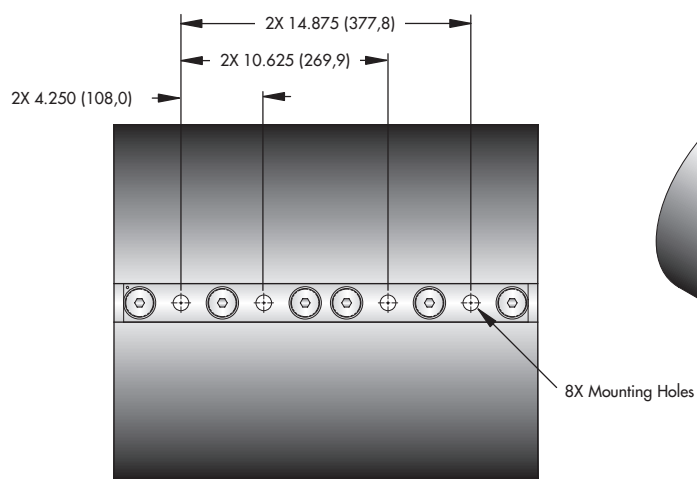
Curve	Model	Max Static Load Lbs. (kN)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	HR28-600	1,110 (4,94)	3.75 (95,3)	1,820 (319)	3,135 (549)
2	HR28-400	670 (2,98)	3.75 (95,3)	1,095 (192)	1,880 (329)
3	HR28-200	245 (1,09)	3.75 (95,3)	400 (70)	690 (121)



Shear

Curve	Model	Max Static Load Lbs. (kN)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	HR28-600	2,980 (13,26)	3.75 (95,3)	4,875 (854)	6,315 (1 106)
2	HR28-400	1,790 (7,96)	3.75 (95,3)	2,925 (512)	3,790 (664)
3	HR28-200	655 (2,91)	3.75 (95,3)	1,070 (187)	1,395 (244)

Note: Do not extrapolate plotted curves.



Note: Dimensions are in inches (mm) Tolerances are ± .010 (± .25mm)

Size	Unit Weight lbs. (Kg)	Mounting Option	Thru Hole in. (mm)	C'sink Imperial
HR40-600	100 (45)	B	0.781 ±.005	82°
HR40-400	83 (38)		±.015	
HR40-200	67 (30)		(0.781 ±.013 ±.038)	

Model Number Ordering Code

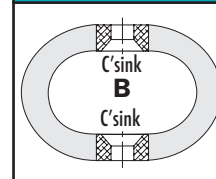
HR40 - 200 - B P

Mount Bar Options: * [] - 6061-T6 Aluminum (or Equiv.)
Chem Conv. Coated
[Y] - 6061-T6 Aluminum (or Equiv.)
Anodized
[P] - 302/304 Stainless Steel (or Equiv.)
Passivated

Mounting Option: See Chart

Isolator Model: See Sizing Table

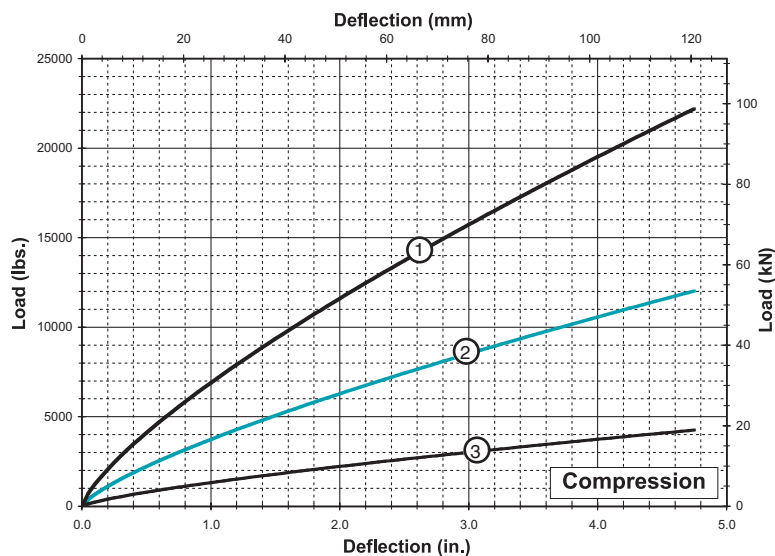
Mounting Option



• Meets environmental requirements of MIL-M-17185A

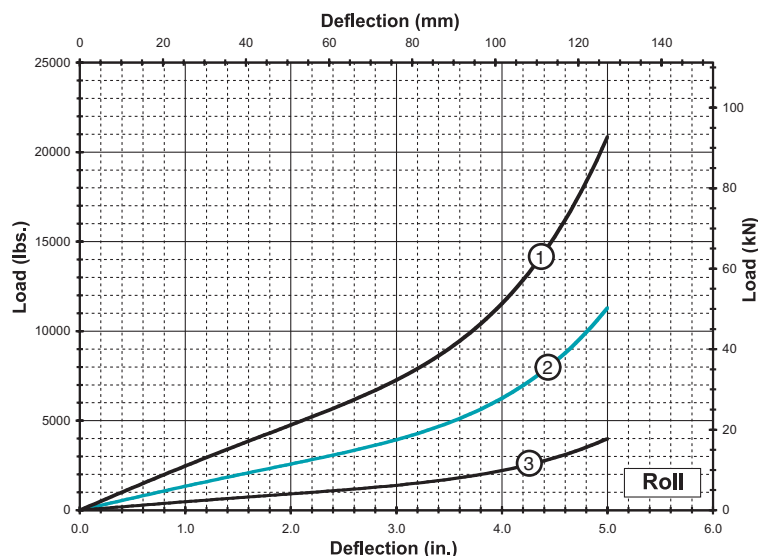
* Standard features. Any non-standard items may require longer lead times. Call for quotation.

Static Load vs. Deflection



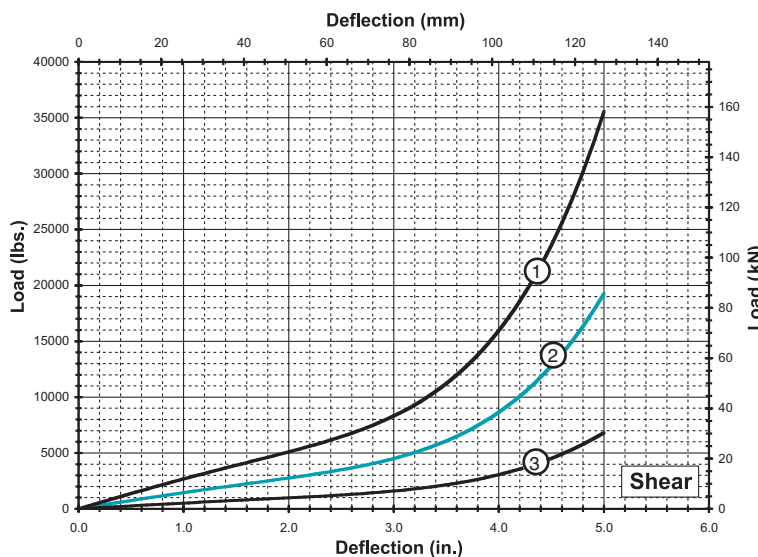
Compression

Curve	Model	Max Static Load Lbs. (kN)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	HR40-600	5,350 (23,80)	4.75 (120,7)	15,950 (2 793)	8,010 (1 403)
2	HR40-400	2,900 (12,90)	4.75 (120,7)	8,640 (1 513)	4,340 (760)
3	HR40-200	1,025 (4,56)	4.75 (120,7)	3,055 (535)	1,535 (269)



Roll

Curve	Model	Max Static Load Lbs. (kN)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	HR40-600	2,000 (8,90)	5.00 (127)	3,275 (574)	4,330 (758)
2	HR40-400	1,085 (4,83)	5.00 (127)	1,775 (311)	2,440 (427)
3	HR40-200	385 (1,71)	5.00 (127)	630 (110)	850 (149)



Shear

Curve	Model	Max Static Load Lbs. (kN)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	HR40-600	2,190 (9,74)	5.00 (127)	3,585 (628)	5,780 (1 012)
2	HR40-400	1,190 (5,29)	5.00 (127)	1,945 (341)	3,145 (551)
3	HR40-200	420 (1,87)	5.00 (127)	685 (120)	1,080 (189)

Note: Do not extrapolate plotted curves.