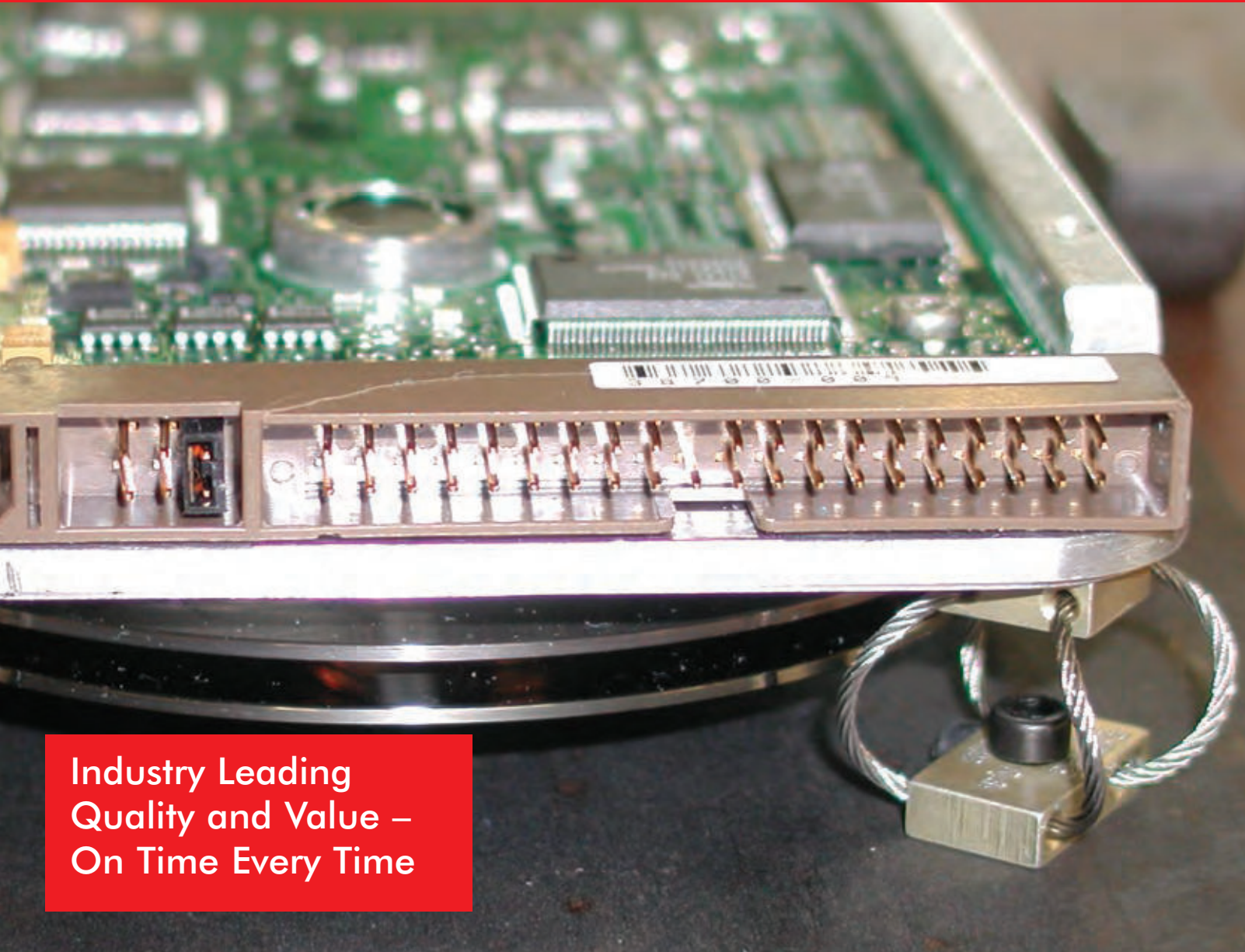


Wire Rope Isolator Technologies



ENIDINE

Applications



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

Wire Rope and HERM Applications:

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

Compact Rope Applications:

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

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Standard Wire Rope Products



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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.



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



ITT Corporation 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. The company generated proforma 2010 revenues of approximately \$2 billion. For more information, visit www.itt.com.

**Our customers
are central to
everything we do.**

“Enidine is widely recognized as the preferred source for energy absorption and vibration isolation products.”

From Original Equipment Manufacturers (OEM) to aftermarket applications, Enidine offers a unique combination of product selection, engineering excellence and technical support to meet even the toughest energy absorption application requirements.

Global Manufacturing and Sales Facilities offer our customers:

- **Highly Trained Distribution Network**
- **State-of-the Art Engineering Capabilities**
- **Custom Solution Development**
- **Customer Service Specialists**
- **Multiple Open Communication Channels**

If you are unsure whether one of our standard products meets your requirements, feel free to speak with one of our technical representatives **toll-free at 1-800-852-8508**, or contact us via **e-mail at industrialsales@enidine.com**.

Products/Engineering/Technical Support

Enidine continually strives to provide the widest selection of shock absorbers and rate control products in the global marketplace. Through constant evaluation and testing, we bring our customers innovative, differentiated products and service solutions that offer more features, greater performance and improved ease of use.

Enidine engineers continue to monitor and influence trends in the motion control industry, allowing us to remain at the forefront of new energy absorption and vibration isolation product development.

Our experienced engineering team has designed custom solutions for a wide variety of challenging applications, including automated warehousing systems and shock absorbers for hostile industrial environments such as glass manufacturing, among others. These custom application solutions have proven to be critical to our customers' success. Let Enidine engineers do the same for you.



Custom designs are not an exception at Enidine, they are an integral part of our business. Should your requirements fit outside of our standard product range, Enidine engineers can assist in developing special finishes, components, hybrid technologies and new designs to ensure a "best-fit" product solution customized to your exact specifications.

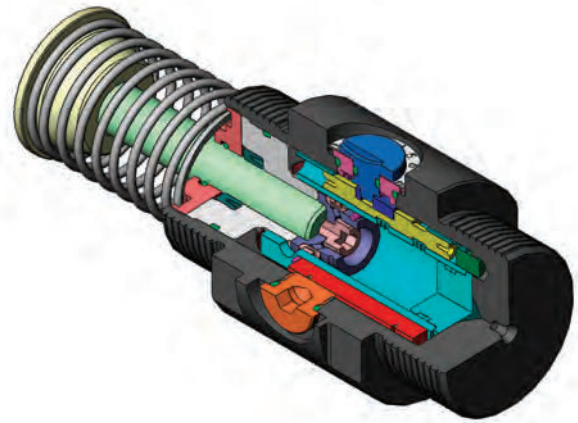
Global Service and Support

Enidine offers its customers a global network of customer service staff technical sales personnel that are available to assist you with all of your application needs.

- Operating with lean manufacturing and cellular production, Enidine produces higher quality custom and standard products with greater efficiency and within shorter lead times.
- An authorized Global Distribution Network is trained regularly by Enidine staff on new products and services ensuring they are better able to serve you.
- Global operations in the United States, Germany, China and Japan.
- A comprehensive, website full of application information, technical data, sizing examples and information to assist in selecting the product that's right for you.

Our website also features a searchable worldwide distributor lookup to help facilitate fast, localized service. Contact us today for assistance with all of your application needs.

New Products and Services



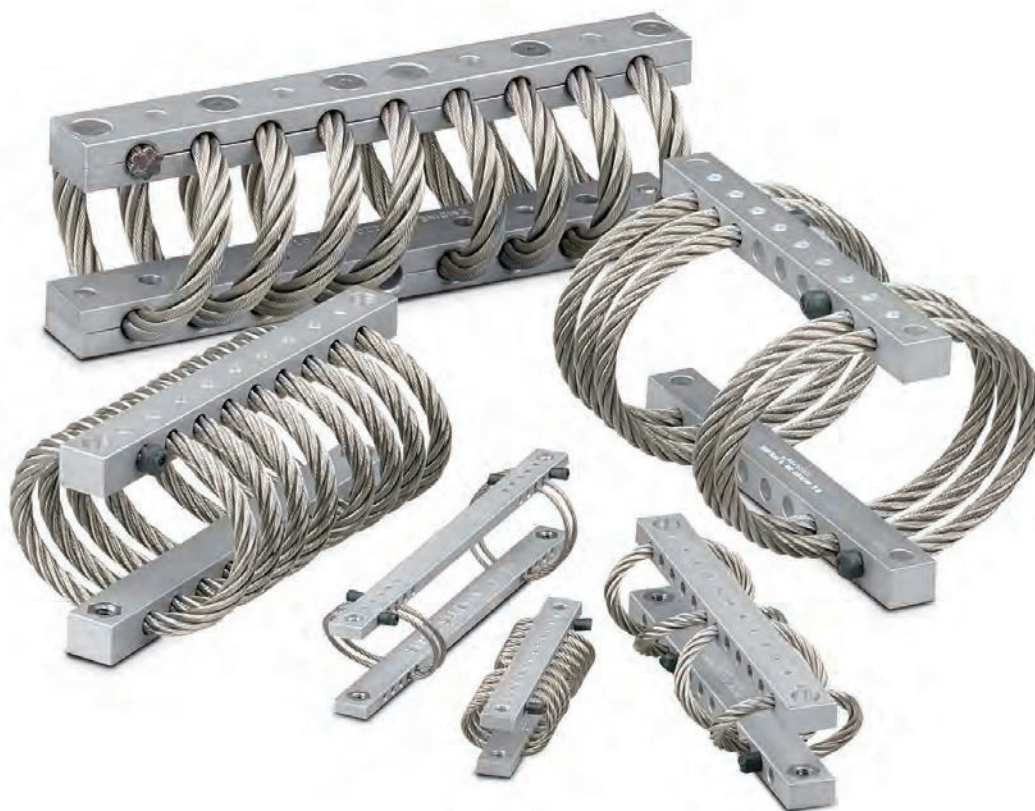
A talented engineering staff works to design and maintain the most efficient energy absorption product lines available today, using the latest engineering tools:

- **Solid Modeling**
- **3-D CAD Drawings**
- **3-D Soluble Support Technology**
- **Finite Element Analysis**
- **Complete Product Verification Testing Facility**

New product designs get to market fast because they can be fully developed in virtual environments before a prototype is ever built. This saves time and lets us optimize the best solution using real performance criteria.



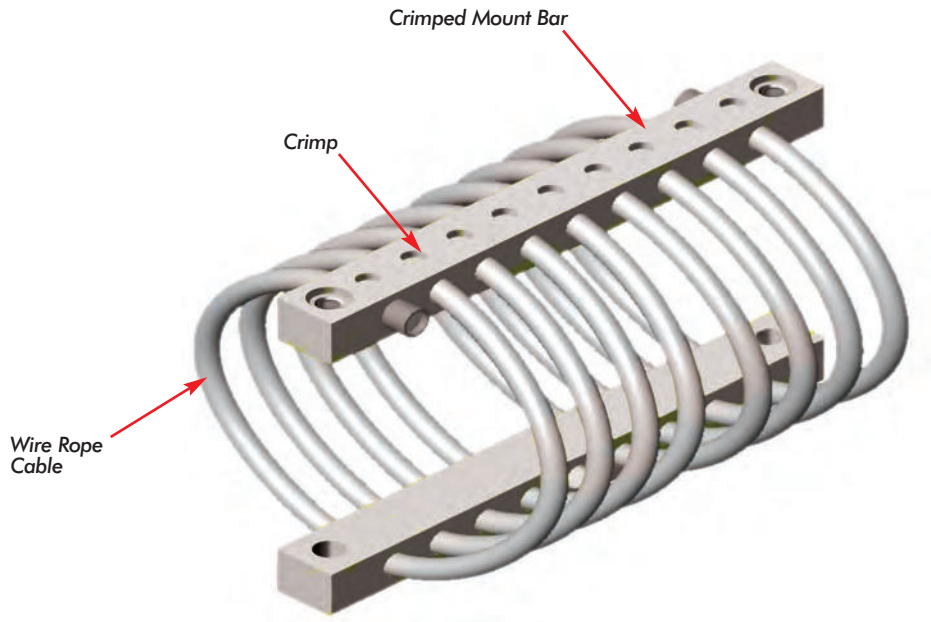
Our global customer service and technical sales departments are available to assist you find the solution that's right for your application needs. Call us at 1.800.852.8508 or e-mail us at industrialsales@enidine.com and let us get started today.



Wire Rope Isolators

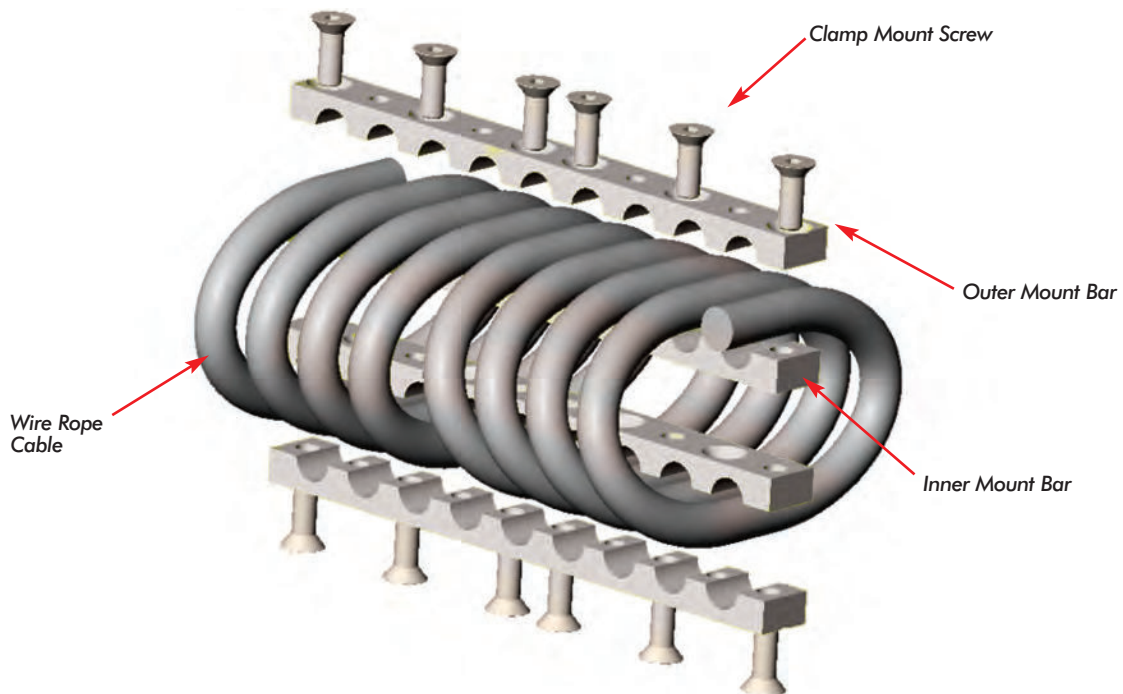
Standard Wire Rope Isolators are comprised of stainless steel stranded cable threaded through aluminum alloy retaining bars that are mounted for effective shock and vibration isolation. With their corrosion resistant, all-metal construction, Enidine Wire Rope Isolators are environmentally stable, high-performance shock and vibration isolators that are unaffected by temperature extremes, chemicals, oils, ozone and abrasives.

Featuring a crimping pattern, versatile mounting options and a variety of sizes, these helical isolator products may help ensure that your systems can effectively meet performance requirements in Commercial, Industrial, and Defense industries, and are capable of MIL-STD-810, MIL-STD-167, MIL-S-901D, MIL-E-5400, STANAG-042, BV43-44 and DEF-STND 0755. For more information, please refer to our "Wire Rope Isolator Sizing Information" on pages 5-6 to assist you in selecting a model for your application.



Crimp Models (WR2 – WR8):

Enidine's crimp design lowers cost by using fewer mount bars when compared to the clamp design, no assembly hardware, and reduced assembly time.



Clamp Models (WR12 – WR40):

Enidine's clamp bar models are constructed by clamping the wire rope between two fastened mount bars.

Materials and Finishes:

Standard: 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 (WR12–WR40 Series)
 Thread: Stainless Self Clinching Insert (WR2–WR8 Series), Threaded Bar (WR12–WR40 Series)

Optional: Wire Rope: Galvanized or Nylon Coated Stainless
 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) (WR12 – WR40)
 Threads: Stainless Steel Helical Inserts, Free Running or Self Locking (WR3 – WR40)
 Threaded Aluminum (WR2 – WR8)

Special: Consult Enidine

Isolator Options:

Mounting: Enidine offers a full range of mounting combinations of thru-hole, countersunk, and threaded bars. All configurations are available in either Imperial or Metric styles. Add an "M" after the mounting option for Metric. Some models have reduced mounting options available due to limited fastener installation space. Consult Enidine if a preferred mounting configuration is not listed.

Loops: Enidine's wire rope isolators can be purchased with the full number of loops, or as few as 2-Loops. The number of loops is indicated in the isolator part number. Performance is provided for full loop isolators. Performance for reduced loop isolators can be obtained by a simple ratio.

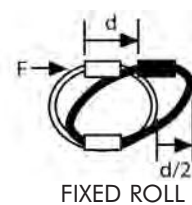
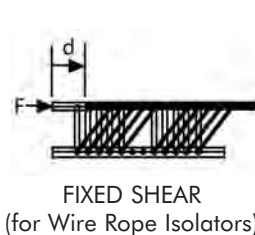
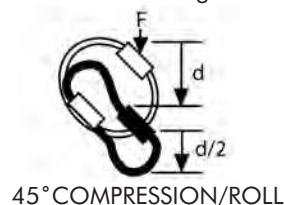
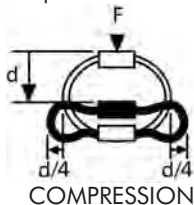
Bellmouth: ITT Enidine's wire rope isolators are available with a "bellmouth" option. The bellmouth feature includes mount bars with radii manufactured into the wire rope hole edges. This option is recommended for high fatigue applications. Add an "R" to the end of the part number.

Performance:**Stiffness (Kv or Ks):**

Wire rope isolators 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 6 to predict system performance. The stiffness values listed in the catalog are for full-loop versions. For reduced loop versions, ratio the stiffness by dividing the number of desired loops by the number of full loops.

Isolator Axes:

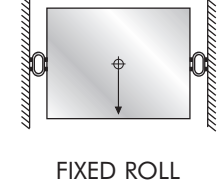
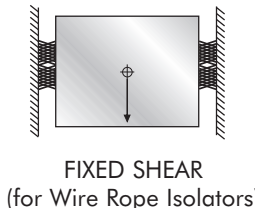
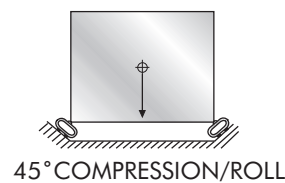
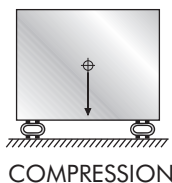
Wire rope isolators are multi-axis isolators. The diagram below includes load axis definitions and deflection considerations.



Damping: Typically 5-15%, depending on size and input level. For specific damping considerations, please consult Enidine.

Mounting Orientation:

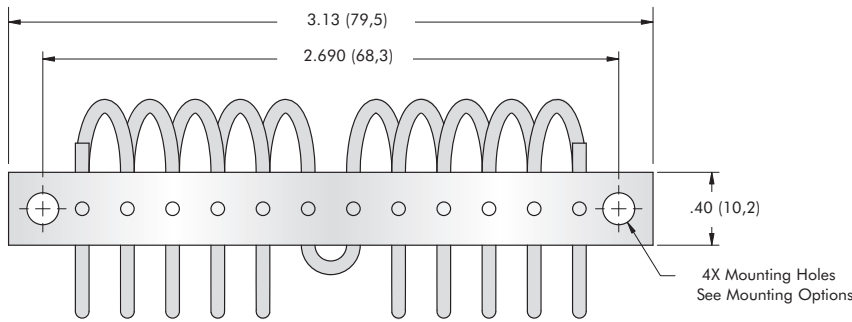
The diagrams below illustrate typical mounting orientations.

**Stabilizers:**

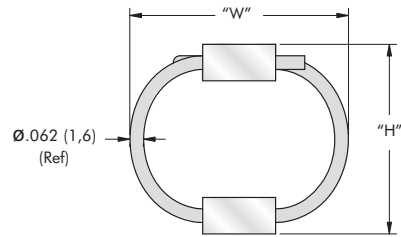
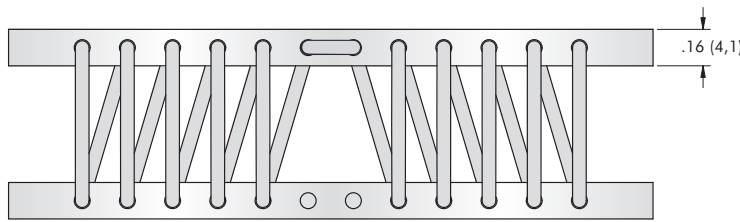
Stabilizers are used to control deflections of tall supported masses. Stabilizers are typically recommended when the height equals 2-times the width or depth dimension. In most applications, the quantity of stabilizers required are half as many as the base isolators, and selected one size softer than the base isolators.

For complete wire rope isolator product sizing please visit www.enidine.com online or feel free to use the data sheet below and send it to Enidine by fax at 716.662.1909 or email to industrialsales@enidine.com.

APPLICATION WORKSHEET - INPUTS IMPERIAL/METRIC		IMPERIAL	METRIC
PART I: SYSTEM DATA:			
1. Total Supported Load (W _T):	W _T = _____ lbs. W _T = _____ Kg x 9.81 = _____ N		
2. Number of Isolators (n):	n = _____		
3. Static Load per Isolator (W):	$W = \frac{W_T}{n}$	W = _____ lbs.*	W = _____ N*
* Assumes a central CG			
4. Load Axis: Compression Shear or Roll 45° Compression/Roll		Load Axis _____	Load Axis _____
PART II: VIBRATION SIZING:			
1. Input Excitation Frequency	(f _i) = _____ Hz (= $\frac{\text{rpm}}{60}$)		
2. System Response Natural Frequency for 80% isolation:	$f_n = \frac{f_i}{3.0} = \text{_____ Hz}$		
3. Maximum Isolator Vibration Stiffness: (K _v)	$K_v = \frac{W (2\pi f_n)^2}{g}$ g = 386 in./sec ² or 9.81 m/sec ²	K _v = _____ lbs./in.	K _v = _____ N/m
4. 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			
PART III: SHOCK SIZING:			
1. Maximum Allowable Transmitted Acceleration:	A _T = _____ G's		
2. Shock Input Velocity:	V = _____ in./sec. V = _____ m/sec.		
Free Fall Impact:	V = $\sqrt{2gh}$ g = 386 in./sec. ² or 9.81 m/sec. ² h = Drop Height (in. or m)		
3. Min. Isolator Response Deflection:	$D_{\min} = \frac{V^2}{g(A_T)}$	D _{min} = _____ in.	D _{min} = _____ m
4. Maximum Isolator Shock Stiffness:	$K_s = \frac{W(V/D_{\min})^2}{g}$	K _s = _____ lbs./in.	K _s = _____ N/m
5. 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 "			
6. Check actual deflection using "K _s " from technical data to ensure that the isolator's max deflection is not exceeded.	$D_{\text{actual}} = \sqrt{\frac{V}{\frac{K_s(\text{Isolator})g}{W}}}$	D _{actual} = _____ in.	D _{actual} = _____ m
7. If isolator's max deflection is exceeded, select another isolator and repeat steps 5 and 6.			

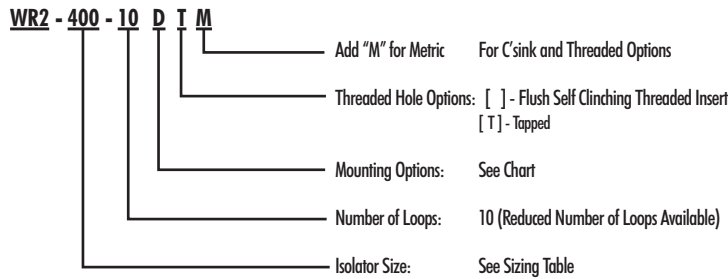


Note: Dimensions are in inches (mm)
Tolerances are ± .010 (± .25mm)

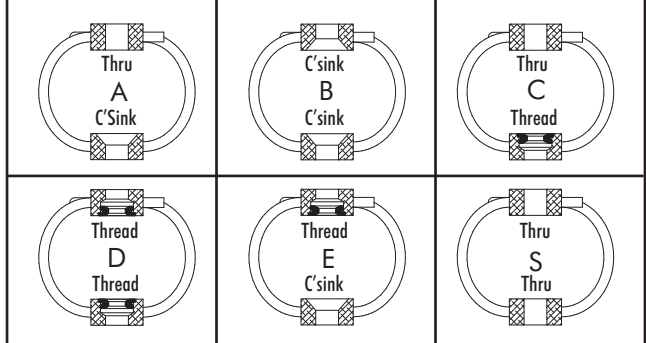


Size	Height "H" in. (mm)	Width (Ref) "W" in. (mm)	Unit Weight Lbs. (Kg)	Mounting Options	Thru Hole in. (mm)	Thread in. (mm)	C'sink Imperial (Metric)
WR2-100	0.70 (18)	1.00 (25)	0.05 (0,02)	B, D, E	Ø.185 ± .005 (Ø4,7 ± 0,13)	#8-32 UNC (M4 X 0,7)	82° (90°)
WR2-200	0.80 (20)	1.10 (28)	0.05 (0,02)	A, B, C, D, E, S			
WR2-400	1.00 (25)	1.20 (30)	0.07 (0,03)				
WR2-600	1.10 (28)	1.30 (33)	0.07 (0,03)				
WR2-700	1.20 (30)	1.40 (36)	0.07 (0,03)				
WR2-800	1.30 (33)	1.50 (38)	0.07 (0,03)				

Model Number Ordering Code



Mounting Options

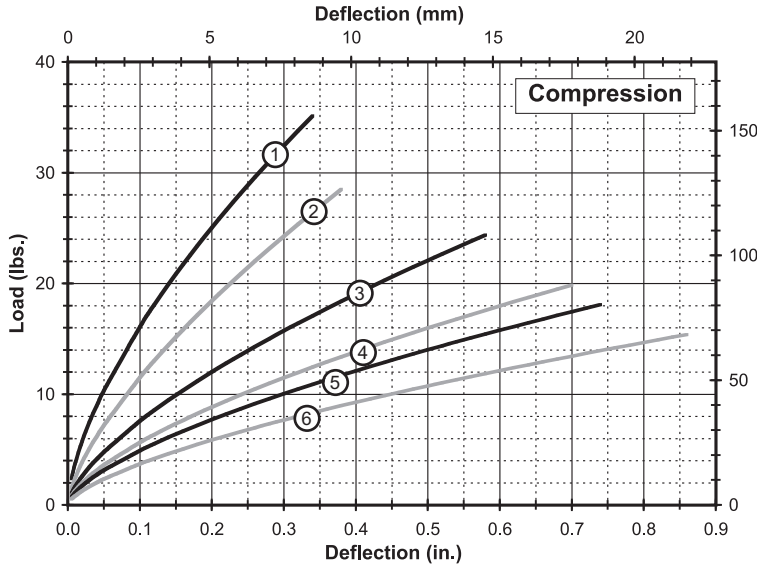


Wire Rope Special Options

Optional materials for the wire rope and mount bars are available upon request. Possibilities include galvanized rope, bell mouth mount bars or stainless steel rope and mount bars. Please contact Enidine to discuss in more detail. Minimum purchase quantities may apply. See page 5.

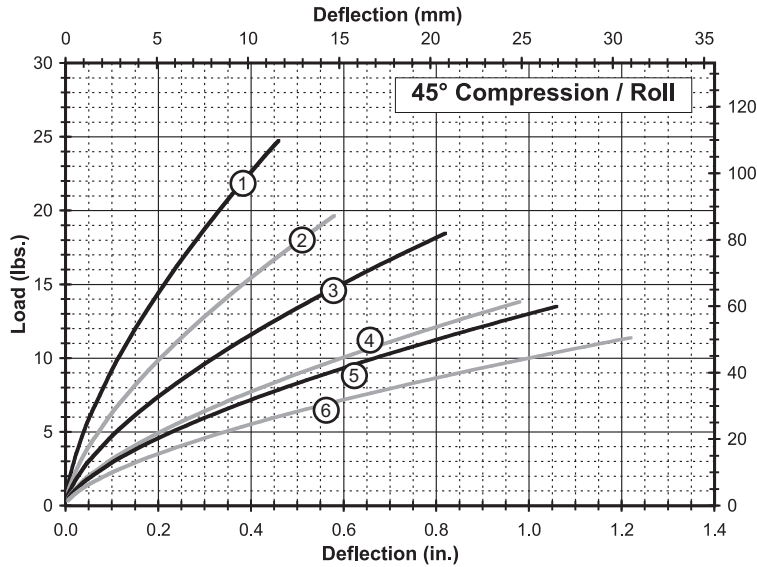
- Maximum recommended torque for standard threaded insert is 6 in.-lbs. (0,7 Nm)
- Operating Temperature Range: -150°F to 500°F (-100°C to 260°C)
- U.S. Patent 5,549,285

Static Load vs. Deflection



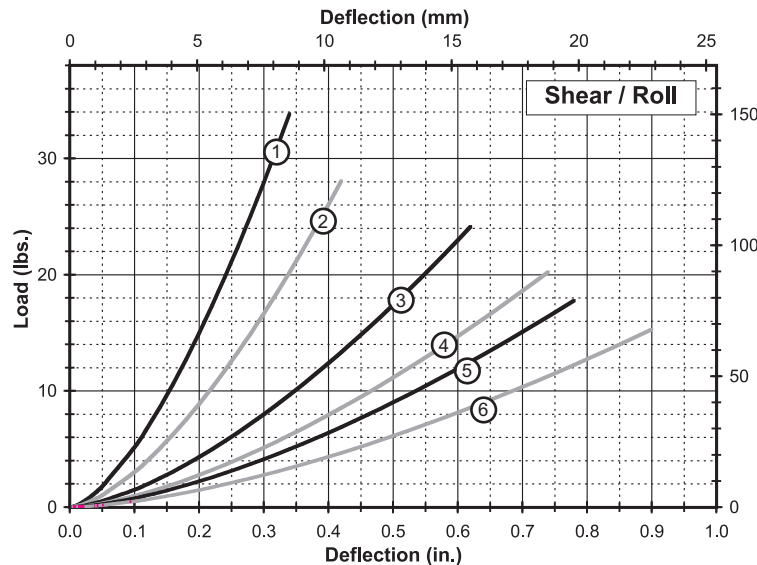
Compression

Curve	Model	Max Static Load Lbs. (N)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	WR2-100-10	10.5 (47)	0.34 (8,6)	205 (36)	125 (22)
2	WR2-200-10	8.0 (36)	0.38 (9,7)	145 (25)	90 (16)
3	WR2-400-10	7.0 (31)	0.58 (14,7)	95 (17)	50 (8,8)
4	WR2-600-10	6.0 (27)	0.70 (17,8)	70 (12)	35 (6,1)
5	WR2-700-10	5.0 (22)	0.74 (18,8)	60 (11)	30 (5,3)
6	WR2-800-10	4.5 (20)	0.86 (21,8)	45 (7,9)	22 (3,9)



45° Compression/Roll

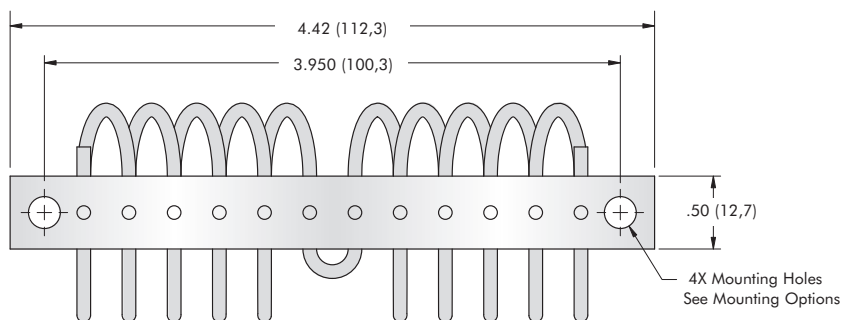
Curve	Model	Max Static Load Lbs. (N)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	WR2-100-10	7.5 (33)	0.46 (11,7)	115 (20)	65 (11,4)
2	WR2-200-10	5.5 (24)	0.58 (14,7)	80 (14)	40 (7,0)
3	WR2-400-10	5.5 (24)	0.82 (20,8)	60 (11)	27 (4,7)
4	WR2-600-10	4.0 (18)	0.98 (24,9)	40 (7,0)	17 (3,0)
5	WR2-700-10	4.0 (18)	1.06 (26,9)	35 (6,1)	15 (2,6)
6	WR2-800-10	3.5 (16)	1.22 (31,0)	30 (5,3)	11 (1,9)



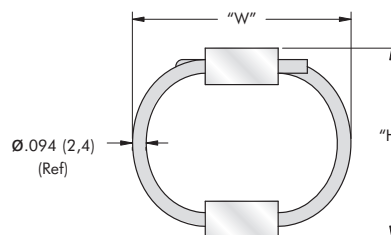
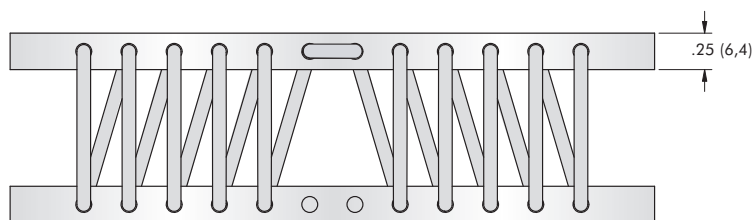
Shear/Roll

Curve	Model	Max Static Load Lbs. (N)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	WR2-100-10	5.0 (22)	0.34 (8,6)	80 (14)	80 (14)
2	WR2-200-10	4.0 (18)	0.42 (10,7)	50 (8,8)	50 (8,8)
3	WR2-400-10	3.5 (16)	0.62 (15,7)	30 (5,3)	30 (5,3)
4	WR2-600-10	3.0 (13)	0.74 (18,8)	22 (3,9)	22 (3,9)
5	WR2-700-10	3.0 (13)	0.78 (19,8)	18 (3,2)	18 (3,2)
6	WR2-800-10	2.5 (11)	0.90 (22,9)	13 (2,3)	13 (2,3)

Note: Performance provided for full loop models with standard (302/304) stainless steel cable. Consult Enidine for other options. Do not extrapolate curves.

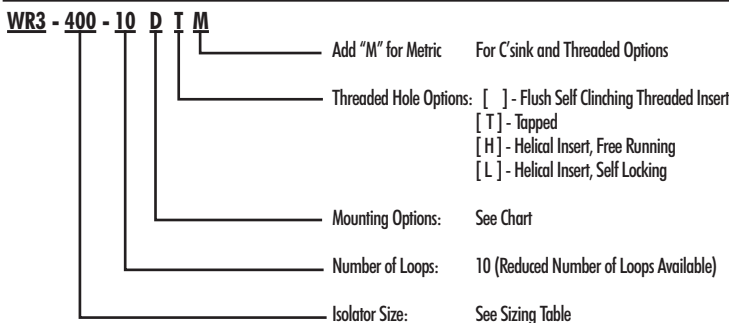


Note: Dimensions are in inches (mm)
Tolerances are ± .010 (± .25mm)

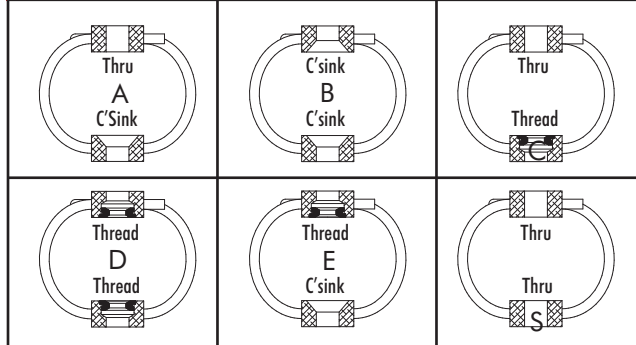


Size	Height "H" in. (mm)	Width (Ref) "W" in. (mm)	Unit Weight Lbs. (Kg)	Mounting Options	Thru Hole in. (mm)	Thread in. (mm)	C'sink Imperial (Metric)
WR3-100	0.90 (23)	1.10 (28)	0.14 (0,06)	B, D, E	Ø.219 ± .005 (Ø5,6 ± 0,13)	#10-32 UNF (M5 X 0,8)	82° (90°)
WR3-200	1.00 (25)	1.20 (30)	0.15 (0,07)	A, B, C, D, E, S			
WR3-400	1.10 (28)	1.30 (33)	0.15 (0,07)				
WR3-600	1.30 (33)	1.50 (38)	0.15 (0,07)				
WR3-700	1.40 (36)	1.60 (41)	0.16 (0,07)				
WR3-800	1.50 (38)	1.70 (43)	0.18 (0,08)				

Model Number Ordering Code



Mounting Options

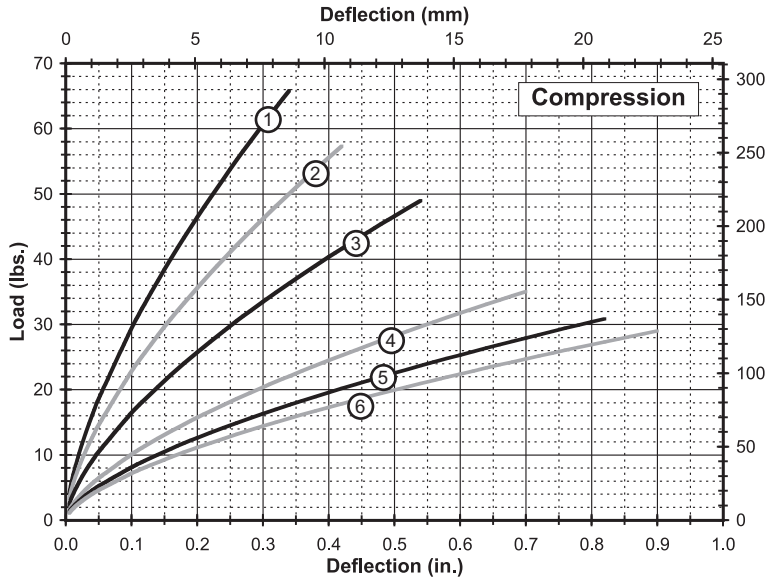


Wire Rope Special Options

Optional materials for the wire rope and mount bars are available upon request. Possibilities include galvanized rope, bell mouth mount bars or stainless steel rope and mount bars. Please contact Enidine to discuss in more detail. Minimum purchase quantities may apply. See page 5.

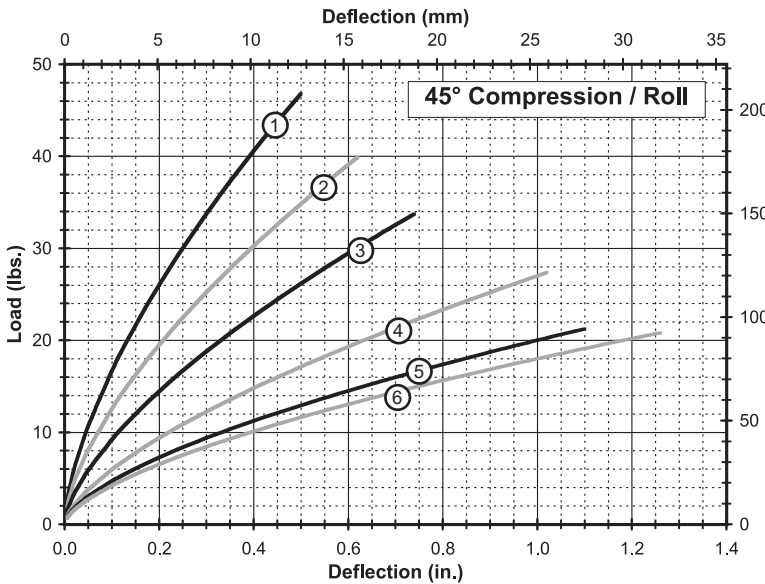
- Maximum recommended torque for standard threaded insert is 8 in.-lbs. (0,9 Nm)
- Operating Temperature Range: -150°F to 500°F (-100°C to 260°C)
- U.S. Patent 5,549,285

Static Load vs. Deflection



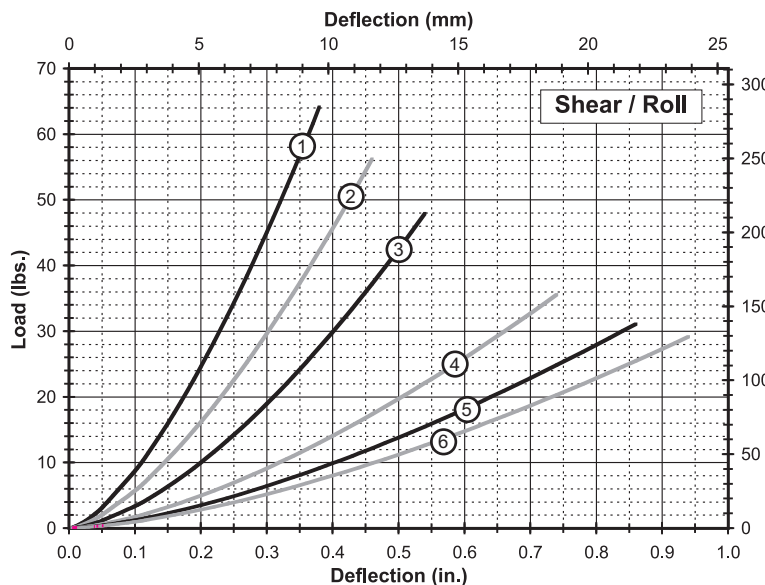
Compression

Curve	Model	Max Static Load Lbs. (N)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	WR3-100-10	19 (85)	0.34 (8,6)	370 (65)	230 (40)
2	WR3-200-10	17 (76)	0.42 (10,7)	290 (51)	170 (30)
3	WR3-400-10	14 (62)	0.54 (13,7)	210 (37)	110 (19)
4	WR3-600-10	10 (44)	0.70 (17,8)	130 (23)	60 (11)
5	WR3-700-10	9 (40)	0.82 (20,8)	105 (18)	45 (7,9)
6	WR3-800-10	9 (40)	0.90 (22,9)	90 (16)	40 (7,0)



45° Compression/Roll

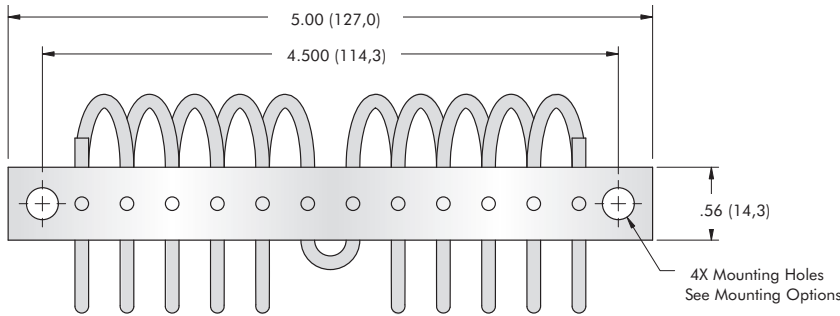
Curve	Model	Max Static Load Lbs. (N)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	WR3-100-10	14 (62)	0.50 (12,7)	215 (38)	115 (20)
2	WR3-200-10	12 (53)	0.62 (15,7)	160 (28)	80 (14)
3	WR3-400-10	10 (44)	0.74 (18,8)	120 (21)	55 (9,6)
4	WR3-600-10	8 (36)	1.02 (25,9)	75 (13)	32 (5,6)
5	WR3-700-10	7 (31)	1.10 (27,9)	60 (11)	25 (4,4)
6	WR3-800-10	6 (27)	1.26 (32,0)	55 (9,6)	20 (3,5)



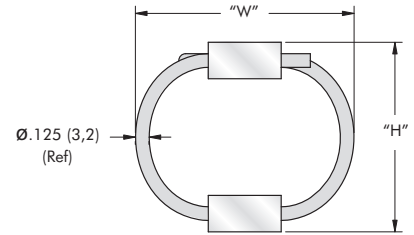
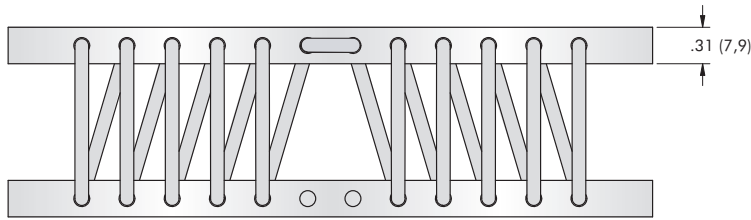
Shear/Roll

Curve	Model	Max Static Load Lbs. (N)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	WR3-100-10	10 (44)	0.38 (9,7)	135 (24)	135 (24)
2	WR3-200-10	9 (40)	0.46 (11,7)	100 (18)	100 (18)
3	WR3-400-10	7 (31)	0.54 (13,7)	70 (12)	70 (12)
4	WR3-600-10	6 (27)	0.74 (18,8)	40 (7,0)	40 (7,0)
5	WR3-700-10	5 (22)	0.86 (21,8)	30 (5,3)	30 (5,3)
6	WR3-800-10	4 (18)	0.94 (23,9)	25 (4,4)	25 (4,4)

Note: Performance provided for full loop models with standard (302/304) stainless steel cable. Consult Enidine for other options. Do not extrapolate curves.

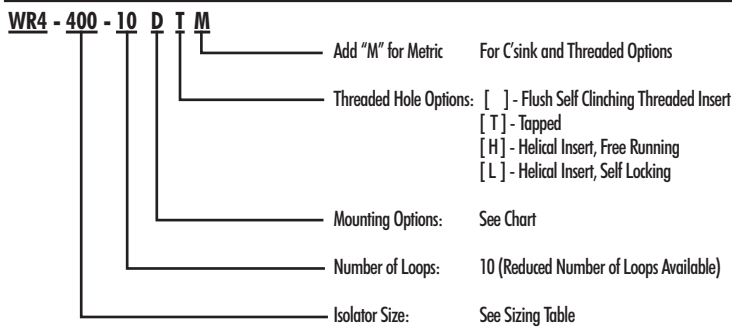


Note: Dimensions are in inches (mm)
Tolerances are ± .010 (± .25mm)

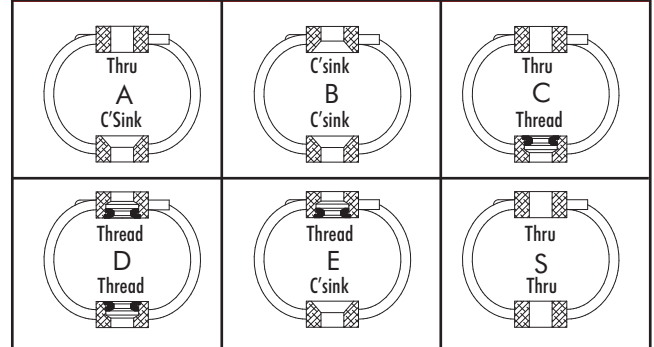


Size	Height "H" in. (mm)	Width (Ref) "W" in. (mm)	Unit Weight Lbs. (Kg)	Mounting Options	Thru Hole in. (mm)	Thread in. (mm)	C'sink Imperial (Metric)
WR4-100	1.10 (28)	1.40 (36)	0.26 (0,12)	B, D, E	Ø.272 ± .005 (Ø6,9 ± 0,13)	1/4-20 UNC (M6 X 1,0)	82° (90°)
WR4-200	1.20 (30)	1.50 (38)	0.26 (0,12)				
WR4-400	1.30 (33)	1.60 (41)	0.29 (0,13)				
WR4-500	1.40 (36)	1.70 (43)	0.29 (0,13)				
WR4-600	1.50 (38)	1.80 (46)	0.29 (0,13)				
WR4-700	1.60 (41)	1.90 (48)	0.30 (0,14)				
WR4-800	1.70 (43)	2.00 (51)	0.30 (0,14)				

Model Number Ordering Code



Mounting Options

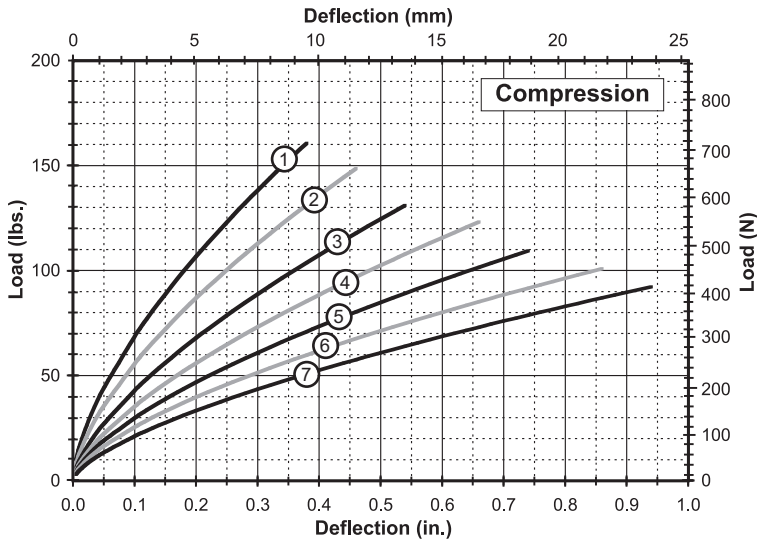


Wire Rope Special Options

Optional materials for the wire rope and mount bars are available upon request. Possibilities include galvanized rope, bell mouth mount bars or stainless steel rope and mount bars. Please contact Enidine to discuss in more detail. Minimum purchase quantities may apply. See page 5.

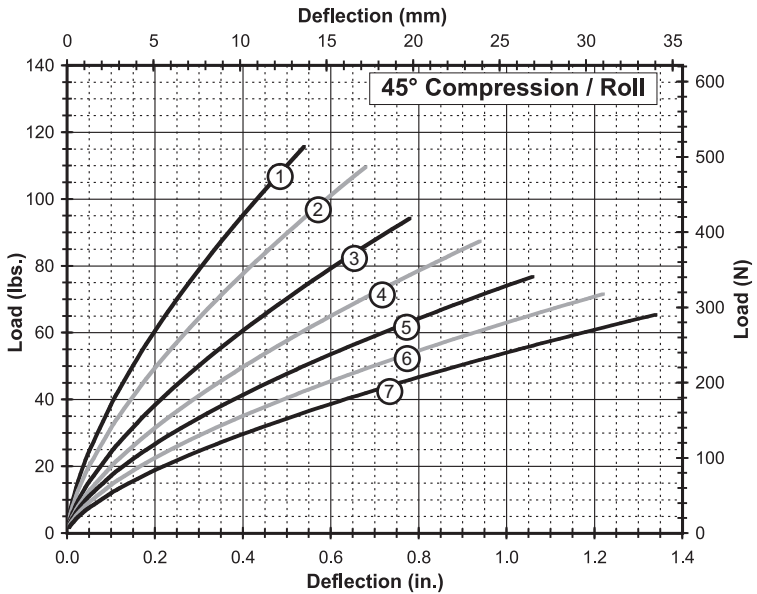
- Maximum recommended torque for standard threaded insert is 36 in.-lbs. (3,7 Nm)
- Operating Temperature Range: -150°F to 500°F (-100°C to 260°C)
- U.S. Patent 5,549,285

Static Load vs. Deflection



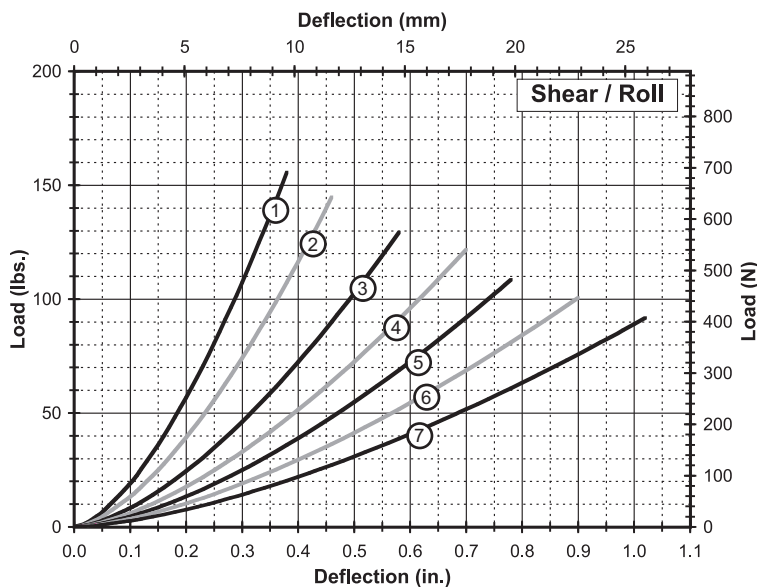
Compression

Curve	Model	Max Static Load Lbs. (N)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	WR4-100-10	48 (213)	0.38 (9,7)	880 (154)	520 (91)
2	WR4-200-10	44 (194)	0.46 (11,7)	710 (124)	390 (68)
3	WR4-400-10	37 (166)	0.54 (13,7)	540 (95)	290 (51)
4	WR4-500-10	35 (156)	0.66 (16,8)	445 (78)	220 (39)
5	WR4-600-10	32 (142)	0.74 (18,8)	380 (67)	180 (32)
6	WR4-700-10	30 (133)	0.86 (21,8)	325 (57)	140 (25)
7	WR4-800-10	26 (117)	0.94 (23,9)	265 (46)	120 (21)



45° Compression/Roll

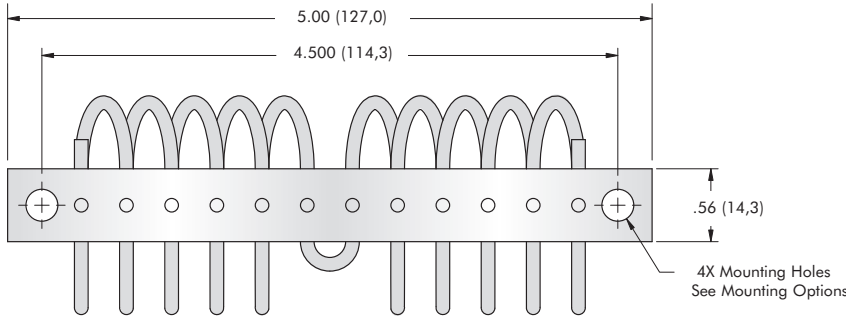
Curve	Model	Max Static Load Lbs. (N)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	WR4-100-10	33 (149)	0.54 (13,7)	490 (86)	260 (46)
2	WR4-200-10	31 (138)	0.68 (17,3)	400 (70)	200 (35)
3	WR4-400-10	27 (118)	0.78 (19,8)	305 (53)	145 (25)
4	WR4-500-10	25 (111)	0.94 (23,9)	250 (44)	115 (20)
5	WR4-600-10	23 (102)	1.06 (26,9)	220 (39)	90 (16)
6	WR4-700-10	21 (94)	1.22 (31,0)	185 (32)	70 (12)
7	WR4-800-10	19 (84)	1.34 (34,0)	150 (26)	60 (11)



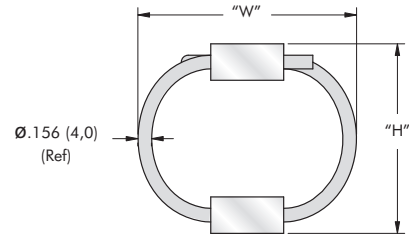
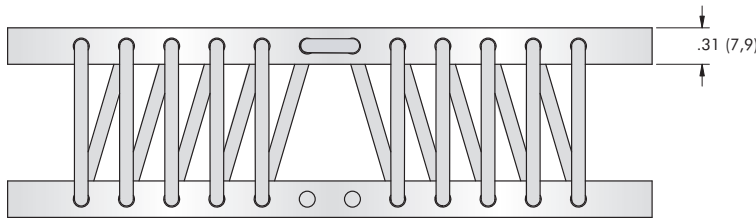
Shear/Roll

Curve	Model	Max Static Load Lbs. (N)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	WR4-100-10	25 (111)	0.38 (9,7)	320 (56)	320 (56)
2	WR4-200-10	22 (98)	0.46 (11,7)	245 (43)	245 (43)
3	WR4-400-10	21 (93)	0.58 (14,7)	175 (31)	175 (31)
4	WR4-500-10	19 (85)	0.70 (17,8)	140 (25)	140 (25)
5	WR4-600-10	18 (80)	0.78 (19,8)	110 (19)	110 (19)
6	WR4-700-10	16 (71)	0.90 (22,9)	90 (16)	90 (16)
7	WR4-800-10	14 (62)	1.02 (25,9)	70 (12)	70 (12)

Note: Performance provided for full loop models with standard (302/304) stainless steel cable. Consult Enidine for other options. Do not extrapolate curves.



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



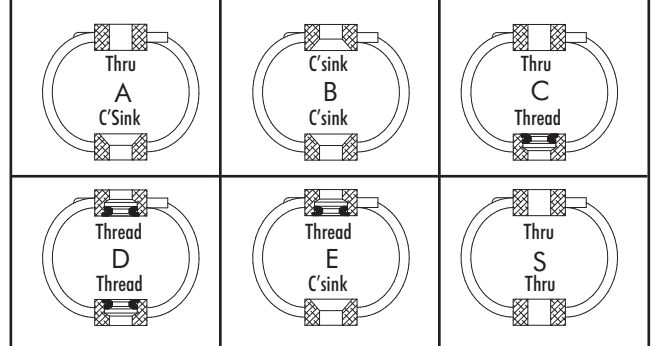
Size	Height "H" in. (mm)	Width (Ref) "W" in. (mm)	Unit Weight Lbs. (Kg)	Mounting Options	Thru Hole in. (mm)	Thread in. (mm)	C'sink Imperial (Metric)
WR5-200	1.20 (30)	1.60 (41)	0.33 (0,15)	B, D, E	Ø.272 ± .005 (Ø6,9 ± 0,13)	1/4-20 UNC (M6 X 1,0)	82° (90°)
WR5-400	1.30 (33)	1.70 (43)	0.33 (0,15)	A, B, C, D, E, S			
WR5-600	1.50 (38)	1.90 (48)	0.35 (0,16)				
WR5-800	1.80 (46)	2.10 (53)	0.38 (0,17)				
WR5-900	2.10 (53)	2.50 (64)	0.39 (0,18)				

Model Number Ordering Code

WR5 - 400 - 10 D T M

- Add "M" for Metric For C'sink and Threaded Options
- Threaded Hole Options: [] - Flush Self Clinching Threaded Insert
[T] - Tapped
[H] - Helical Insert, Free Running
[L] - Helical Insert, Self Locking
- Mounting Options: See Chart
- Number of Loops: 10 (Reduced Number of Loops Available)
- Isolator Size: See Sizing Table

Mounting Options

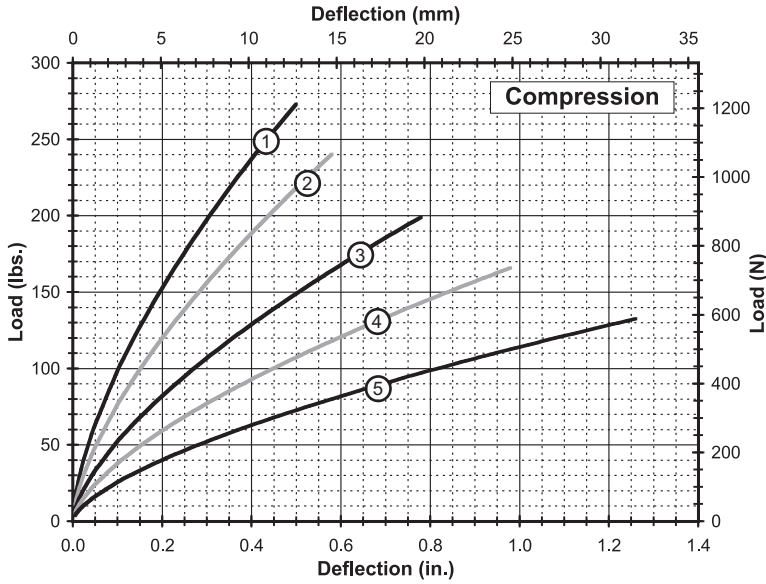


Wire Rope Special Options

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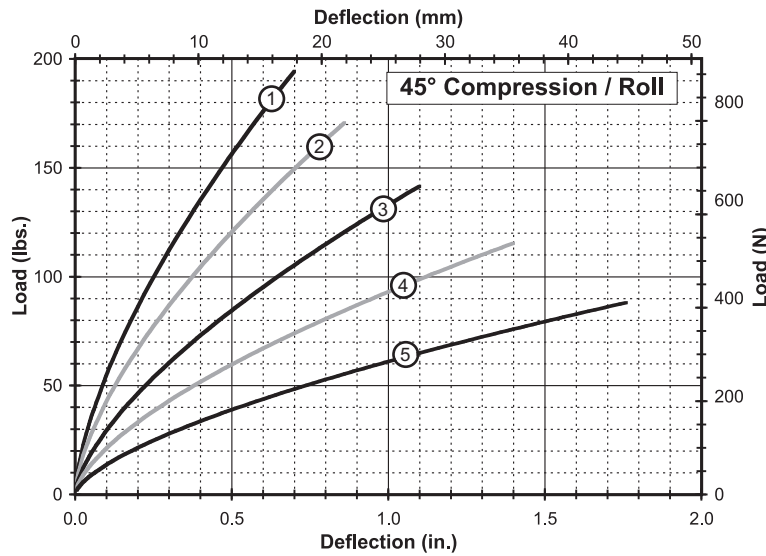
- Maximum recommended torque for standard threaded insert is 38 in.-lbs. (4,3 Nm)
- Operating Temperature Range: -150°F to 500°F (-100°C to 260°C)
- U.S. Patent 5,549,285

Static Load vs. Deflection



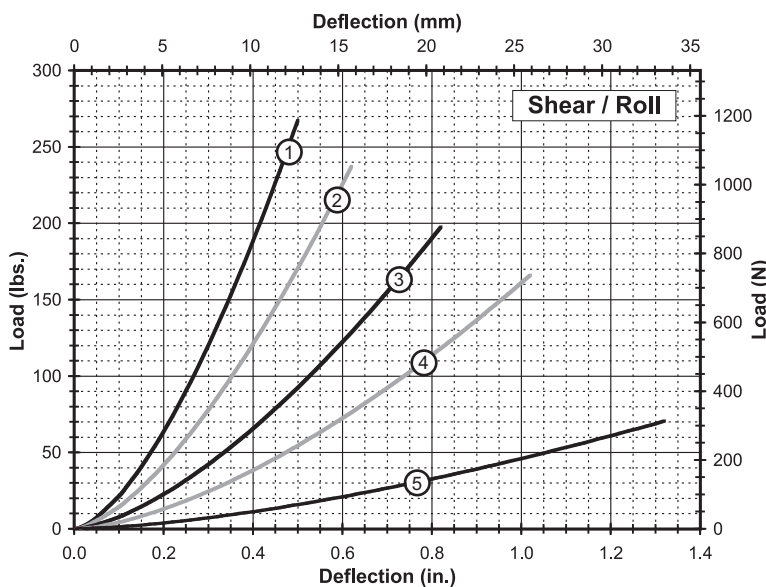
Compression

Curve	Model	Max Static Load Lbs. (N)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	WR5-200-10	82 (364)	0.50 (12,7)	1,270 (222)	670 (117)
2	WR5-400-10	69 (309)	0.58 (14,7)	970 (170)	500 (88)
3	WR5-600-10	58 (257)	0.78 (19,8)	660 (116)	310 (54)
4	WR5-800-10	48 (216)	0.98 (24,9)	480 (84)	210 (37)
5	WR5-900-10	39 (172)	1.26 (32,0)	330 (58)	130 (23)



45° Compression/Roll

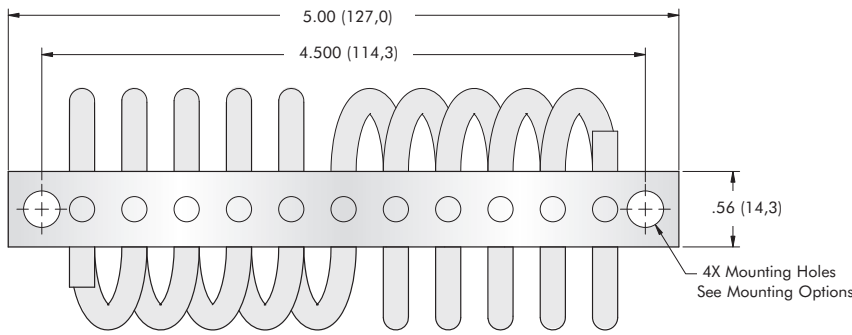
Curve	Model	Max Static Load Lbs. (N)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	WR5-200-10	57 (254)	0.70 (17,8)	700 (123)	340 (60)
2	WR5-400-10	49 (218)	0.86 (21,8)	550 (96)	240 (42)
3	WR5-600-10	41 (182)	1.10 (27,9)	375 (66)	160 (28)
4	WR5-800-10	34 (151)	1.40 (35,6)	275 (48)	100 (18)
5	WR5-900-10	26 (115)	1.76 (44,7)	175 (31)	60 (11)



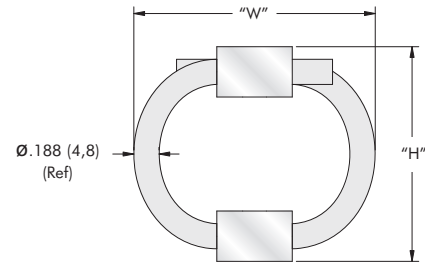
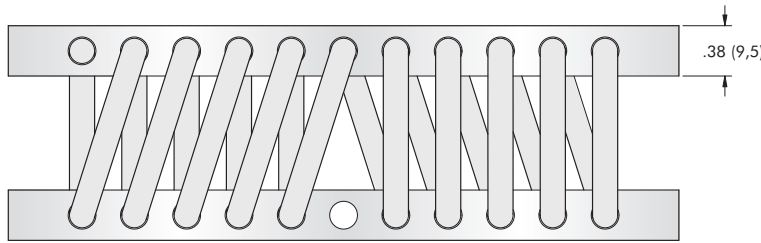
Shear/Roll

Curve	Model	Max Static Load Lbs. (N)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	WR5-200-10	40 (178)	0.50 (12,7)	415 (73)	415 (73)
2	WR5-400-10	35 (156)	0.62 (15,7)	300 (53)	300 (53)
3	WR5-600-10	30 (133)	0.82 (20,8)	190 (33)	190 (33)
4	WR5-800-10	25 (111)	1.02 (25,9)	130 (23)	130 (23)
5	WR5-900-10	9 (40)	1.32 (33,5)	45 (7,9)	45 (7,9)

Note: Performance provided for full loop models with standard (302/304) stainless steel cable. Consult Enidine for other options. Do not extrapolate curves.

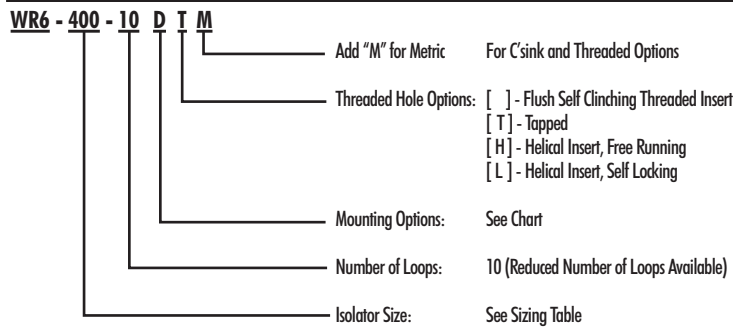


Note: Dimensions are in inches (mm)
Tolerances are ± .010 (± .25mm)

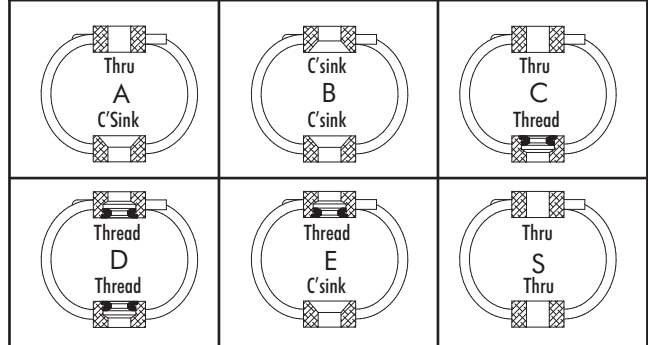


Size	Height "H" in. (mm)	Width (Ref) "W" in. (mm)	Unit Weight Lbs. (Kg)	Mounting Options	Thru Hole in. (mm)	Thread in. (mm)	C'sink Imperial (Metric)
WR6-200	1.20 (30)	1.40 (36)	0.42 (0,19)	D	Ø.272 ± .005 (Ø6,9 ± 0,13)	1/4-20 UNC (M6 X 1,0)	82° (90°)
WR6-300	1.30 (33)	1.50 (38)	0.43 (0,20)	B, D, E			
WR6-400	1.40 (36)	1.60 (41)	0.46 (0,21)				
WR6-500	1.50 (38)	1.70 (43)	0.47 (0,21)	A, B, C, D, E, S			
WR6-600	1.60 (41)	1.80 (46)	0.49 (0,22)				
WR6-700	1.70 (43)	1.90 (48)	0.54 (0,25)				
WR6-800	2.00 (51)	2.30 (58)	0.57 (0,26)				
WR6-850	2.13 (54)	2.94 (75)	0.59 (0,27)				
WR6-900	2.45 (62)	3.45 (88)	0.61 (0,28)				
WR6-950	3.20 (81)	4.20 (107)	0.63 (0,29)				

Model Number Ordering Code



Mounting Options

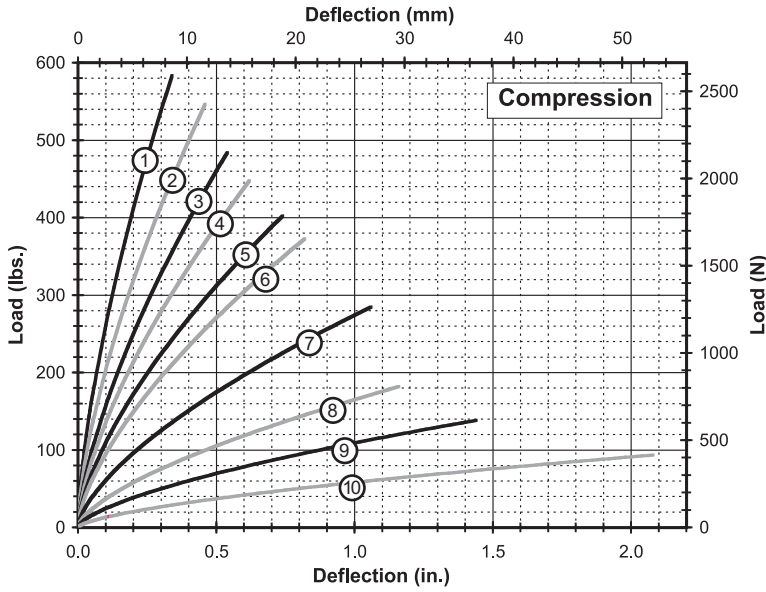


Wire Rope Special Options

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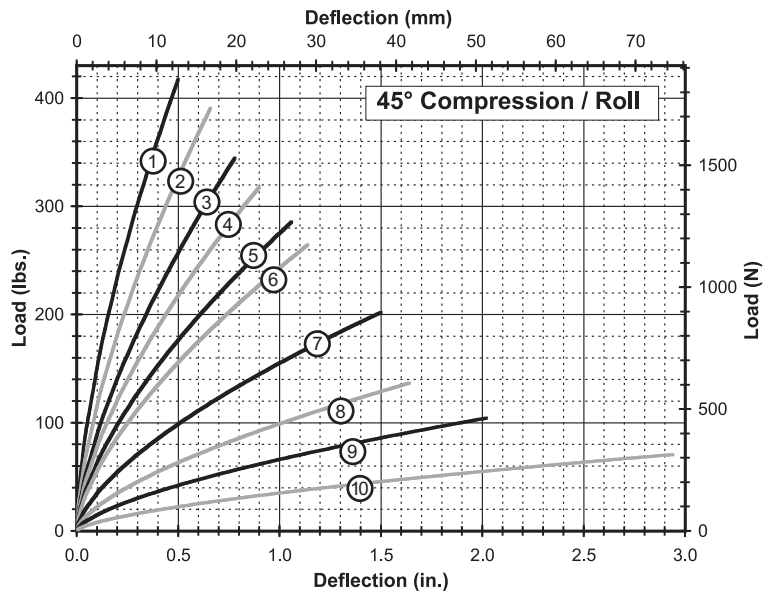
- Maximum recommended torque for standard threaded insert is 38 in.-lbs. (4,3 Nm)
- Operating Temperature Range: -150°F to 500°F (-100°C to 260°C)
- U.S. Patent 5,549,285

Static Load vs. Deflection



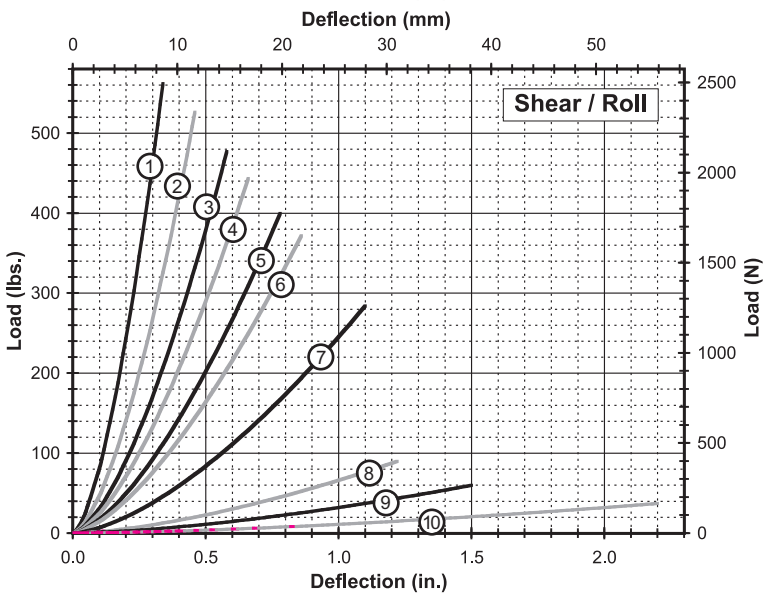
Compression

Curve	Model	Max Static Load Lbs. (N)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	WR6-200-10	165 (734)	0.34 (8,6)	3,300 (578)	2,070 (363)
2	WR6-300-10	160 (712)	0.46 (11,7)	2,600 (455)	1,440 (252)
3	WR6-400-10	135 (601)	0.54 (13,7)	1,980 (347)	1,080 (189)
4	WR6-500-10	130 (578)	0.62 (15,7)	1,720 (301)	870 (152)
5	WR6-600-10	115 (512)	0.74 (18,8)	1,395 (244)	670 (117)
6	WR6-700-10	110 (489)	0.82 (20,8)	1,210 (212)	550 (96)
7	WR6-800-10	82 (365)	1.06 (26,9)	775 (136)	330 (58)
8	WR6-850-10	53 (236)	1.16 (29,5)	470 (82)	190 (33)
9	WR6-900-10	40 (178)	1.44 (36,6)	310 (54)	120 (21)
10	WR6-950-10	27 (120)	2.08 (52,8)	165 (29)	55 (10)



45° Compression/Roll

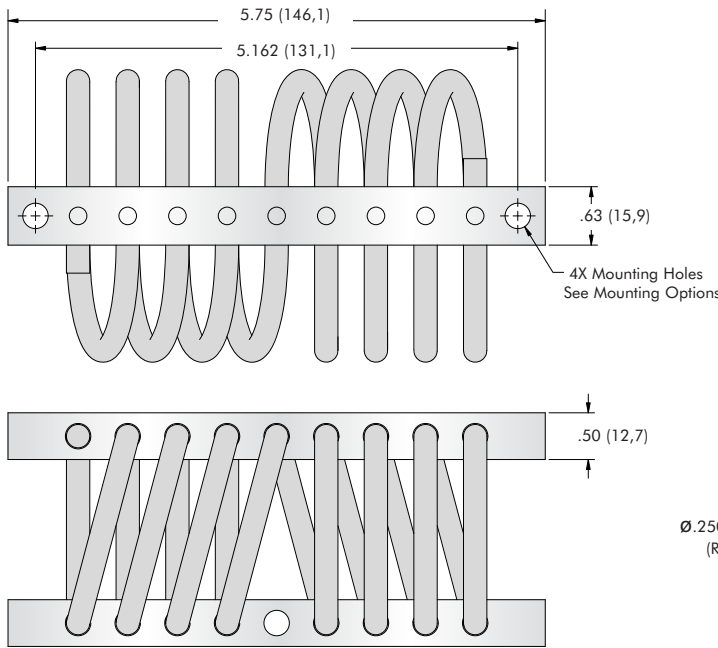
Curve	Model	Max Static Load Lbs. (N)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	WR6-200-10	120 (534)	0.50 (12,7)	1,945 (341)	1,020 (179)
2	WR6-300-10	115 (512)	0.66 (16,8)	1,475 (258)	720 (126)
3	WR6-400-10	97 (432)	0.78 (19,8)	1,125 (197)	530 (93)
4	WR6-500-10	92 (409)	0.90 (22,9)	985 (172)	430 (75)
5	WR6-600-10	84 (373)	1.06 (26,9)	805 (141)	330 (58)
6	WR6-700-10	79 (350)	1.14 (29,0)	705 (123)	280 (49)
7	WR6-800-10	58 (260)	1.50 (38,1)	440 (77)	160 (28)
8	WR6-850-10	40 (177)	1.64 (41,7)	280 (49)	100 (18)
9	WR6-900-10	31 (136)	2.02 (51,3)	190 (33)	65 (11)
10	WR6-950-10	21 (91)	2.94 (74,7)	100 (18)	30 (5,3)



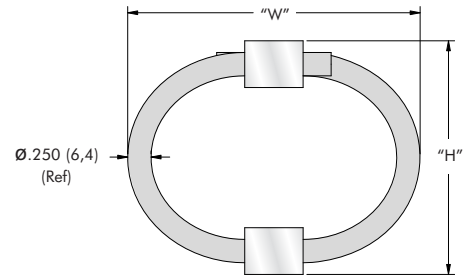
Shear/Roll

Curve	Model	Max Static Load Lbs. (N)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	WR6-200-10	80 (356)	0.34 (8,6)	1,280 (224)	1,280 (224)
2	WR6-300-10	80 (356)	0.46 (11,7)	890 (156)	890 (156)
3	WR6-400-10	75 (334)	0.58 (14,7)	640 (112)	640 (112)
4	WR6-500-10	70 (311)	0.66 (16,8)	530 (93)	530 (93)
5	WR6-600-10	65 (289)	0.78 (19,8)	400 (70)	400 (70)
6	WR6-700-10	60 (267)	0.86 (21,8)	340 (60)	340 (60)
7	WR6-800-10	45 (200)	1.10 (27,9)	200 (35)	200 (35)
8	WR6-850-10	13 (58)	1.22 (31,0)	60 (11)	60 (11)
9	WR6-900-10	9 (40)	1.50 (38,1)	30 (5,3)	30 (5,3)
10	WR6-950-10	5 (22)	2.20 (55,9)	13 (2,3)	13 (2,3)

Note: Performance provided for full loop models with standard (302/304) stainless steel cable. Consult Enidine for other options. Do not extrapolate curves.

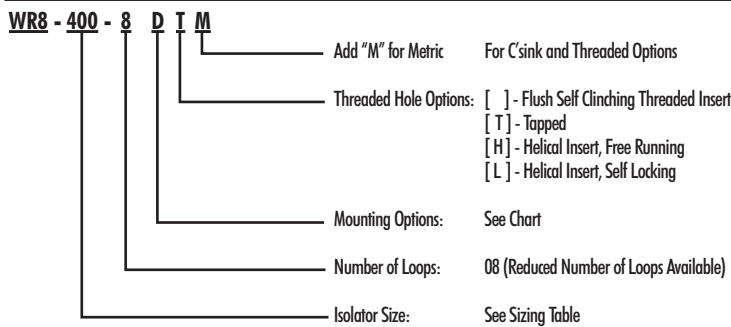


Note: Dimensions are in inches (mm)
Tolerances are ± .010 (± .25mm)

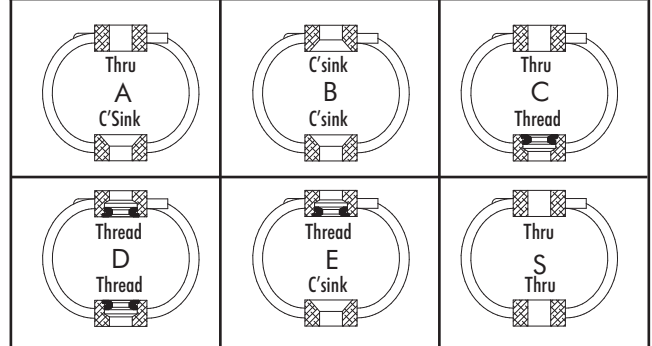


Size	Height "H" in. (mm)	Width (Ref) "W" in. (mm)	Unit Weight Lbs. (Kg)	Mounting Options	Thru Hole in. (mm)	Thread in. (mm)	C'sink Imperial (Metric)
WR8-200	1.90 (48)	2.20 (56)	0.84 (0,38)	A, B, C, D, E, S	Ø.272 ± .005 (Ø6,9 ± 0,13)	1/4-28 UNF (M6 X 1,0)	82° (90°)
WR8-400	2.13 (54)	2.50 (64)	0.90 (0,41)				
WR8-500	2.31 (59)	2.80 (71)	0.94 (0,43)				
WR8-600	2.50 (64)	3.13 (80)	1.04 (0,47)				
WR8-700	2.50 (64)	3.50 (89)	1.14 (0,52)				
WR8-800	2.63 (67)	3.75 (95)	1.20 (0,54)				
WR8-850	2.63 (67)	3.95 (100)	1.25 (0,57)				
WR8-900	3.25 (83)	4.25 (108)	1.30 (0,59)				

Model Number Ordering Code



Mounting Options

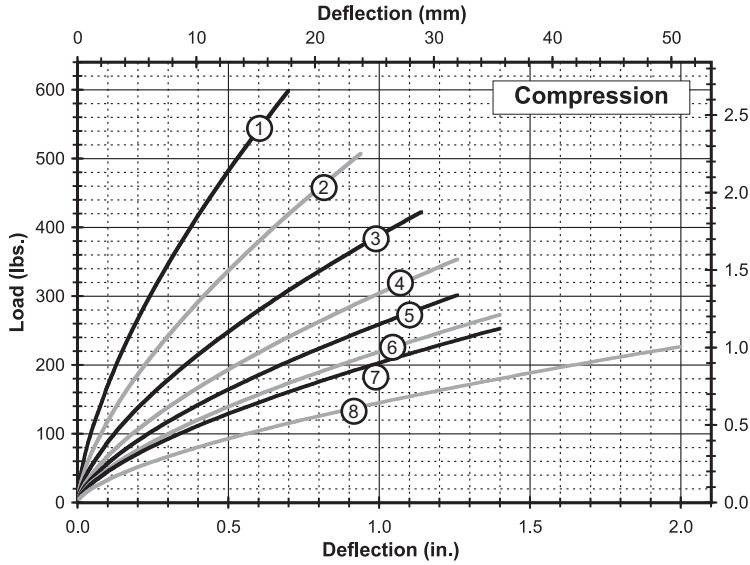


Wire Rope Special Options

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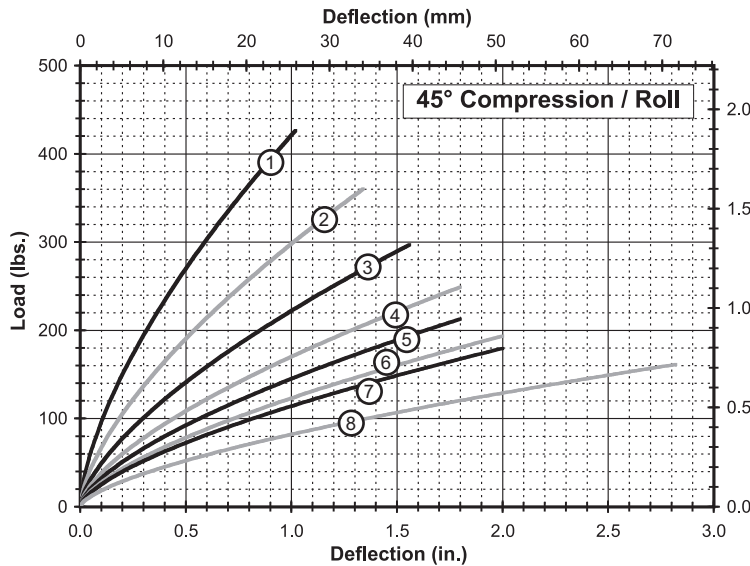
- Maximum recommended torque for standard threaded insert is 38 in.-lbs. (4,3 Nm)
- Operating Temperature Range: -150°F to 500°F (-100°C to 260°C)
- U.S. Patent 5,549,285

Static Load vs. Deflection



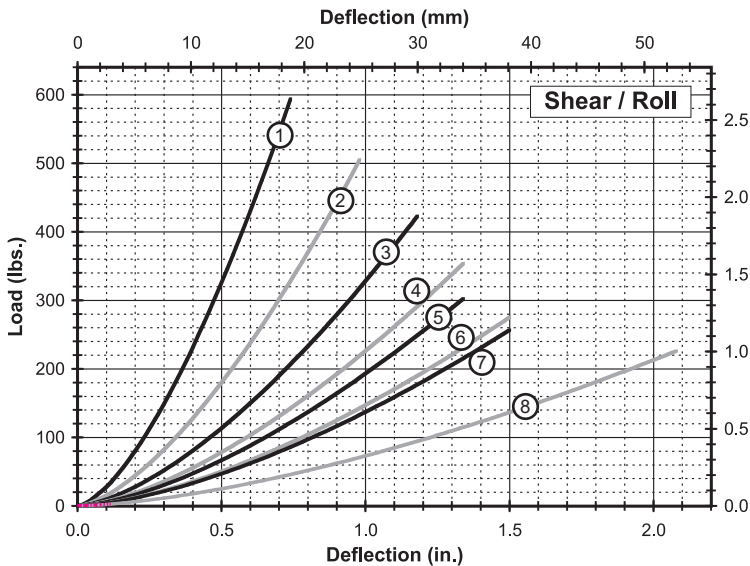
Compression

Curve	Model	Max Static Load Lbs. (N)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	WR8-200-08	175 (778)	0.70 (17,8)	2,180 (382)	1,040 (182)
2	WR8-400-08	150 (667)	0.94 (23,9)	1,520 (266)	660 (116)
3	WR8-500-08	125 (556)	1.14 (29,0)	1,120 (196)	450 (79)
4	WR8-600-08	100 (445)	1.26 (32,0)	860 (151)	340 (60)
5	WR8-700-08	87 (386)	1.26 (32,0)	725 (127)	290 (51)
6	WR8-800-08	79 (351)	1.40 (35,6)	620 (109)	240 (42)
7	WR8-850-08	73 (325)	1.40 (35,6)	570 (100)	220 (39)
8	WR8-900-08	67 (297)	2.00 (50,8)	420 (74)	140 (25)



45° Compression/Roll

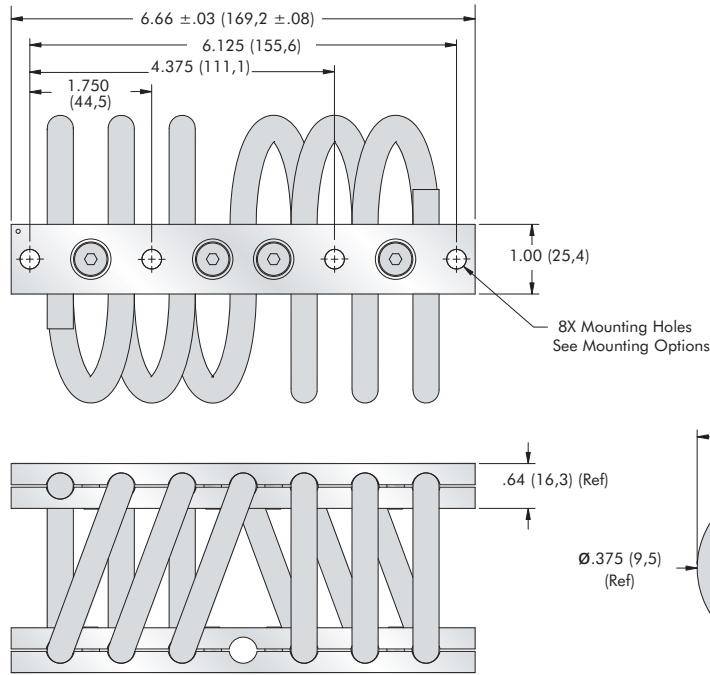
Curve	Model	Max Static Load Lbs. (N)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	WR8-200-08	125 (556)	1.02 (25,9)	1,230 (215)	510 (89)
2	WR8-400-08	105 (467)	1.34 (34,0)	860 (151)	330 (58)
3	WR8-500-08	88 (390)	1.56 (39,6)	625 (109)	230 (40)
4	WR8-600-08	72 (321)	1.80 (45,7)	490 (86)	170 (30)
5	WR8-700-08	61 (273)	1.80 (45,7)	410 (72)	140 (25)
6	WR8-800-08	56 (248)	2.00 (50,8)	350 (61)	120 (21)
7	WR8-850-08	51 (229)	2.00 (50,8)	320 (56)	110 (19)
8	WR8-900-08	47 (209)	2.82 (71,6)	235 (41)	70 (12)



Shear/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	WR8-200-08	95 (423)	0.74 (18,8)	630 (110)	630 (110)
2	WR8-400-08	80 (356)	0.98 (24,9)	410 (72)	410 (72)
3	WR8-500-08	70 (311)	1.18 (30,0)	280 (49)	280 (49)
4	WR8-600-08	55 (245)	1.34 (34,0)	210 (37)	210 (37)
5	WR8-700-08	50 (222)	1.34 (34,0)	180 (32)	180 (32)
6	WR8-800-08	45 (200)	1.50 (38,1)	140 (25)	140 (25)
7	WR8-850-08	40 (178)	1.50 (38,1)	130 (23)	130 (23)
8	WR8-900-08	35 (156)	2.08 (52,8)	90 (16)	90 (16)

Note: Performance provided for full loop models with standard (302/304) stainless steel cable. Consult Enidine for other options. Do not extrapolate curves.



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

Size	Height "H" in. (mm)	Width (Ref) "W" in. (mm)	Unit Weight Lbs. (Kg)	Mounting Options	Thru Hole in. (mm)	Thread in. (mm)	C'sink Imperial (Metric)
WR12-206	2.80 (71)	3.31 (84)	1.82 (0,83)	A, B, C, D, E, S	Ø.281 ⁺ .005 - .015 (Ø 7,1 ⁺ 0,13) - 0,38	1/4-28 UNF (M6 X 1,0)	82° (90°)
WR12-306	2.90 (74)	3.50 (89)	1.88 (0,85)				
WR12-406	3.00 (76)	4.13 (105)	1.99 (0,90)				
WR12-506	3.25 (83)	4.25 (108)	2.09 (0,95)				
WR12-606	3.50 (89)	4.25 (108)	2.15 (0,98)				
WR12-706	4.13 (105)	4.75 (121)	2.36 (1,07)				
WR12-806	4.25 (108)	5.50 (140)	2.48 (1,12)				

Model Number Ordering Code

WR12 - 406 - 6 D H M

- Add "M" for Metric For C'sink and Threaded Options
- Threaded Hole Options: [] - Tapped
[H] - Helical Insert, Free Running
[L] - Helical Insert, Self Locking
- Mounting Options: See Chart
- Number of Loops: 06 (Reduced Number of Loops Available)
- Isolator Size: See Sizing Table

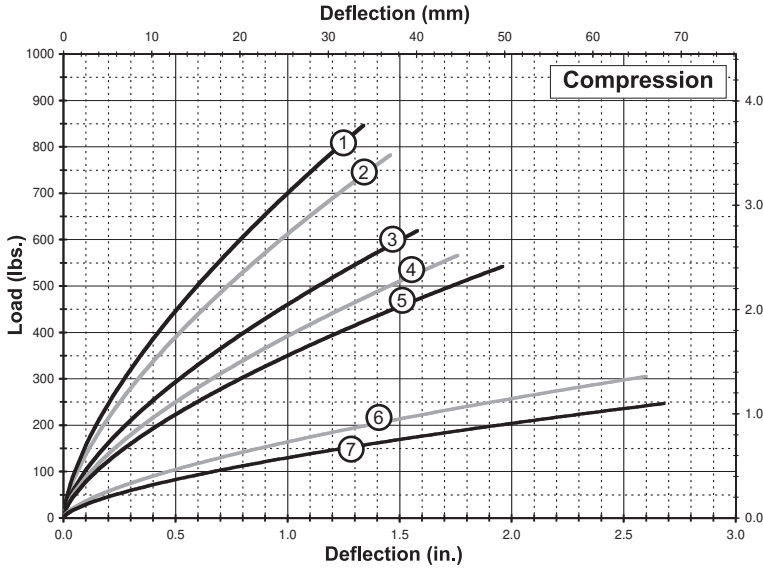
Mounting Options

Wire Rope Special Options

Optional materials for the wire rope and mount bars are available upon request. Possibilities include galvanized rope, bell mouth mount bars or stainless steel rope and mount bars. Please contact Enidine to discuss in more detail. Minimum purchase quantities may apply. See page 5.

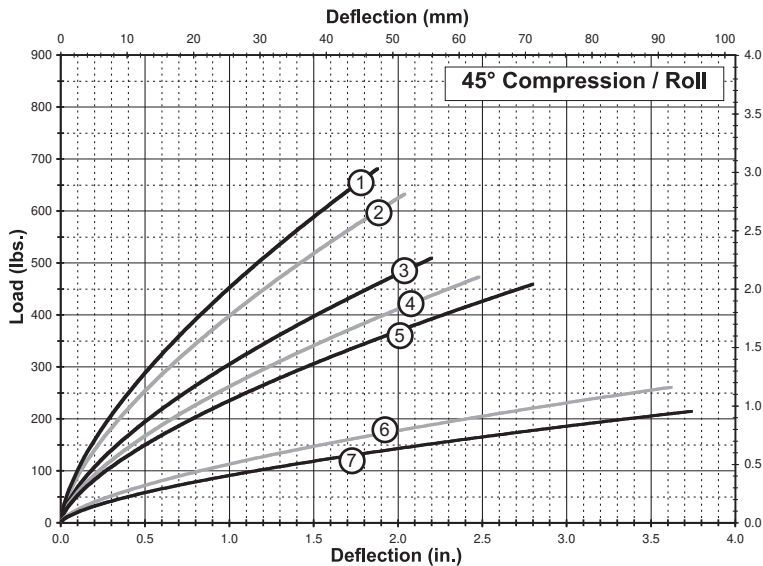
- Maximum recommended torque for threaded bar 100 in.-lbs. (10 Nm)
- Operating Temperature Range: -150°F to 500°F (-100°C to 260°C)

Static Load vs. Deflection



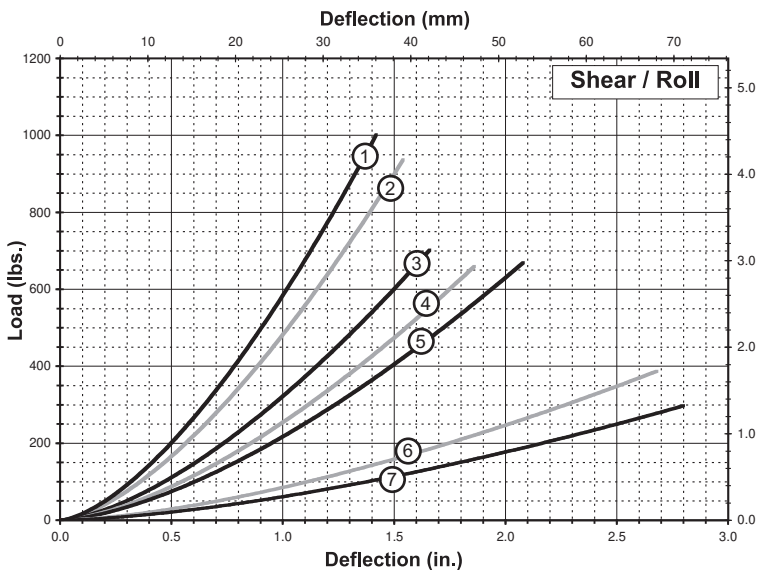
Compression

Curve	Model	Max Static Load Lbs. (N)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	WR12-206-06	245 (1 090)	1.34 (34,0)	1,570 (275)	770 (135)
2	WR12-306-06	230 (1 023)	1.46 (37,1)	1,370 (240)	650 (114)
3	WR12-406-06	180 (801)	1.58 (40,1)	1,030 (180)	480 (84)
4	WR12-506-06	165 (734)	1.76 (44,7)	880 (154)	390 (68)
5	WR12-606-06	160 (712)	1.96 (49,8)	785 (137)	340 (60)
6	WR12-706-06	89 (396)	2.60 (66,0)	370 (65)	140 (25)
7	WR12-806-06	72 (320)	2.68 (68,1)	290 (51)	110 (19)



45° Compression/Roll

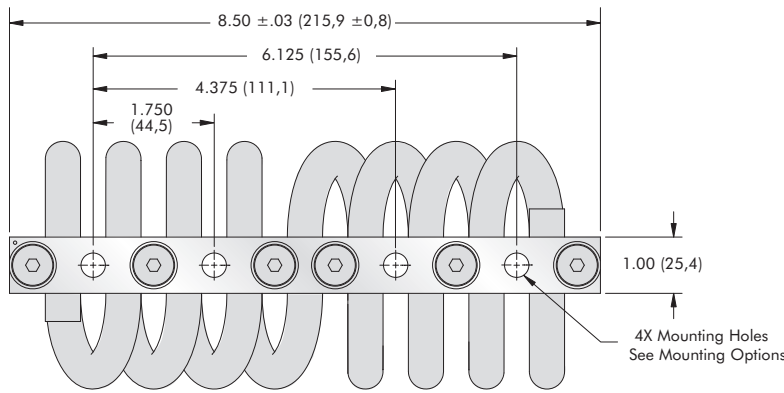
Curve	Model	Max Static Load Lbs. (N)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	WR12-206-06	200 (890)	1.88 (47,8)	1,010 (177)	440 (77)
2	WR12-306-06	185 (823)	2.04 (51,8)	890 (156)	380 (67)
3	WR12-406-06	150 (667)	2.20 (55,9)	685 (120)	280 (49)
4	WR12-506-06	140 (623)	2.48 (63,0)	590 (103)	230 (40)
5	WR12-606-06	135 (601)	2.80 (71,1)	525 (92)	200 (35)
6	WR12-706-06	77 (341)	3.62 (91,9)	250 (44)	90 (16)
7	WR12-806-06	63 (280)	3.74 (95,0)	205 (36)	70 (12)



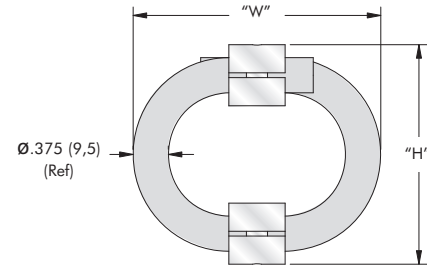
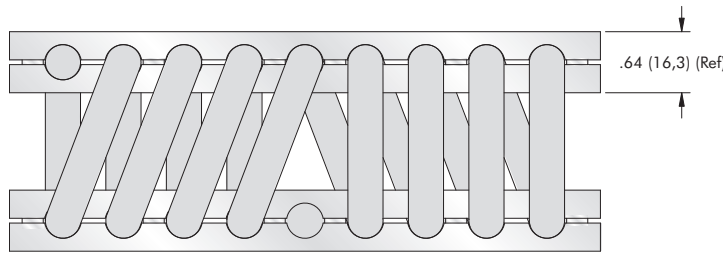
Shear/Roll

Curve	Model	Max Static Load Lbs. (N)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	WR12-206-06	155 (689)	1.42 (36,1)	560 (98)	560 (98)
2	WR12-306-06	145 (645)	1.54 (39,1)	480 (84)	480 (84)
3	WR12-406-06	110 (489)	1.66 (42,2)	330 (58)	330 (58)
4	WR12-506-06	105 (467)	1.86 (47,2)	280 (49)	280 (49)
5	WR12-606-06	100 (445)	2.08 (52,8)	250 (44)	250 (44)
6	WR12-706-06	45 (200)	2.68 (68,1)	115 (20)	115 (20)
7	WR12-806-06	35 (156)	2.80 (71,1)	85 (15)	85 (15)

Note: Performance provided for full loop models with standard (302/304) stainless steel cable. Consult Enidine for other options. Do not extrapolate curves.



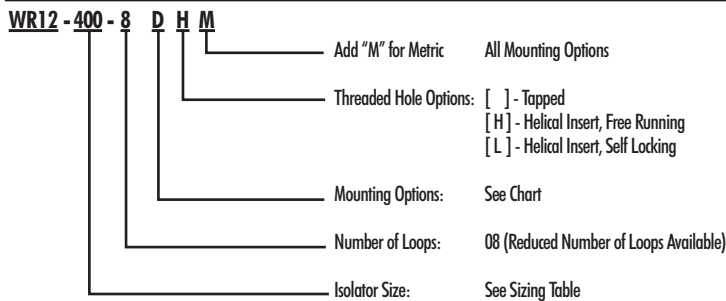
Note: Dimensions are in inches (mm)
Tolerances are ± .010 (± .25mm)



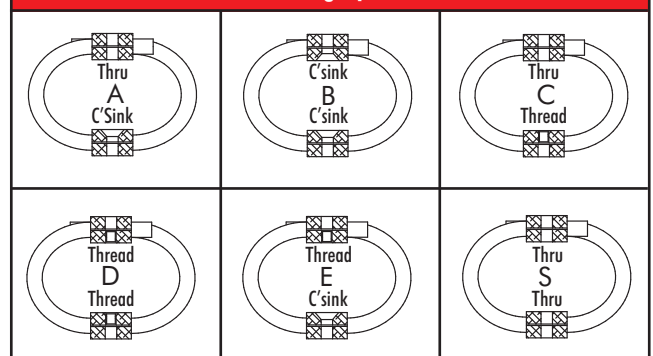
Size	Height "H" in. (mm)	Width (Ref) "W" in. (mm)	Unit Weight Lbs. (Kg)	Mounting Options	Thru Hole in. (mm)	Thread in. (mm)	C'sink Imperial (Metric)
WR12-200	2.80 (71)	3.31 (84)	2.43 (1,10)	A, B, C, D, E, S	Ø.281 ⁺ _{-.015} (Ø9,0 ⁺ _{0,13} - 0,38)	1/4-28 UNF *(M8 X 1,25)	82° (90°)
WR12-300	2.90 (74)	3.50 (89)	2.50 (1,13)				
WR12-400	3.00 (76)	4.13 (105)	2.65 (1,20)				
WR12-500	3.25 (83)	4.25 (108)	2.78 (1,26)				
WR12-600	3.50 (89)	4.25 (108)	2.87 (1,30)				
WR12-700	4.13 (105)	4.75 (121)	3.15 (1,43)				
WR12-800	4.25 (108)	5.50 (140)	3.31 (1,50)				

* Tapped M8 x 1.25, Inserts M6 x 1.0

Model Number Ordering Code



Mounting Options

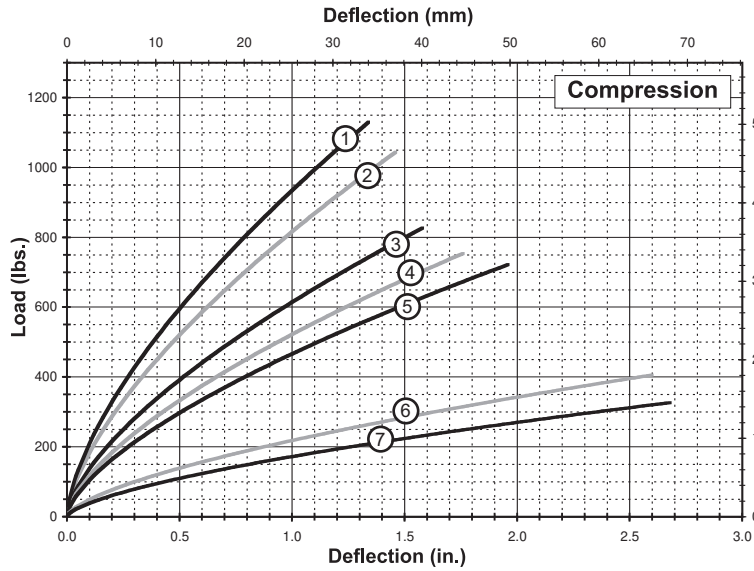


Wire Rope Special Options

Optional materials for the wire rope and mount bars are available upon request. Possibilities include galvanized rope, bell mouth mount bars or stainless steel rope and mount bars. Please contact Enidine to discuss in more detail. Minimum purchase quantities may apply. See page 5.

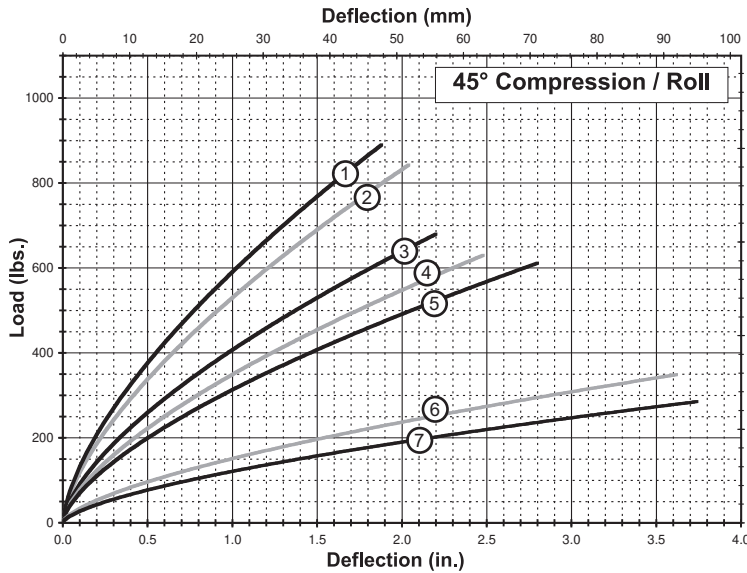
- Maximum recommended torque for threaded bar is 100 in.-lbs. (20 Nm)
- Operating Temperature Range: -150°F to 500°F (-100°C to 260°C)

Static Load vs. Deflection



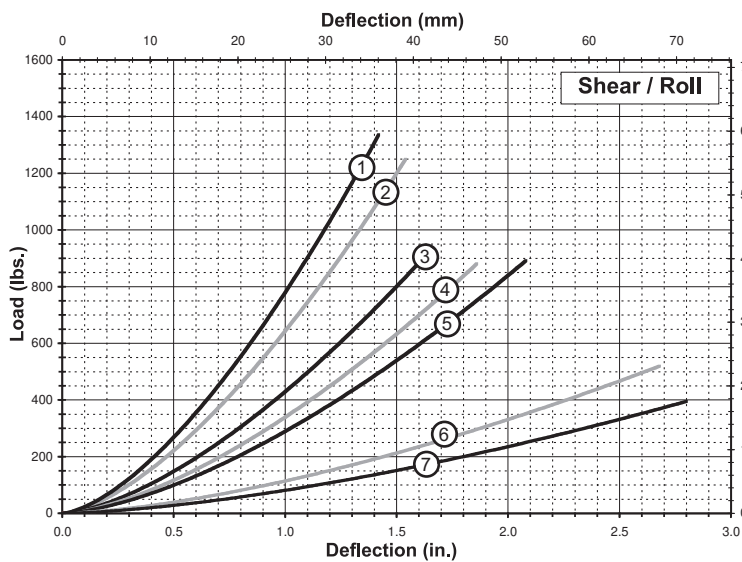
Compression

Curve	Model	Max Static Load Lbs. (N)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	WR12-200-08	330 (1 468)	1.34 (34,0)	2,090 (366)	1,020 (179)
2	WR12-300-08	305 (1 357)	1.46 (37,1)	1,830 (320)	870 (152)
3	WR12-400-08	240 (1 068)	1.58 (40,1)	1,380 (242)	630 (110)
4	WR12-500-08	220 (979)	1.76 (44,7)	1,170 (205)	520 (91)
5	WR12-600-08	210 (934)	1.96 (49,8)	1,040 (182)	450 (79)
6	WR12-700-08	120 (534)	2.60 (66,0)	490 (86)	190 (33)
7	WR12-800-08	95 (423)	2.68 (68,1)	385 (67)	150 (26)



45° Compression/Roll

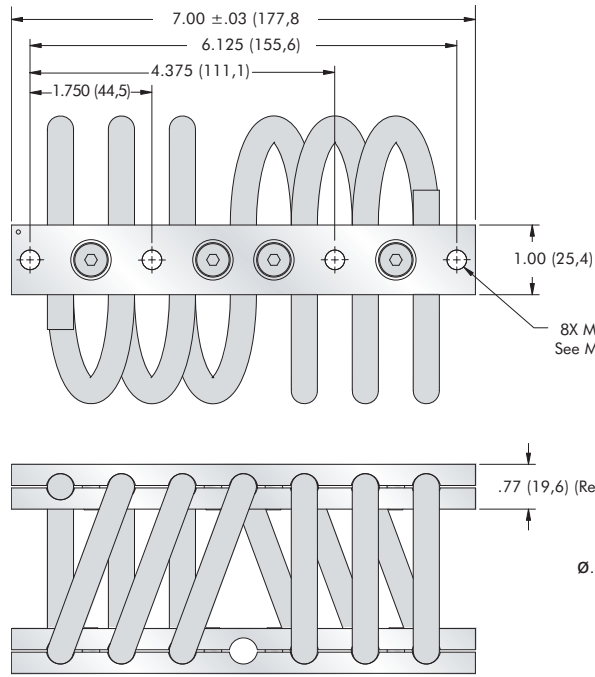
Curve	Model	Max Static Load Lbs. (N)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	WR12-200-08	265 (1 179)	1.88 (47,8)	1,350 (236)	590 (103)
2	WR12-300-08	245 (1 090)	2.04 (51,8)	1,190 (208)	500 (88)
3	WR12-400-08	200 (890)	2.20 (55,9)	910 (159)	370 (65)
4	WR12-500-08	185 (823)	2.48 (63,0)	780 (137)	310 (54)
5	WR12-600-08	175 (778)	2.80 (71,1)	700 (123)	270 (47)
6	WR12-700-08	105 (467)	3.62 (91,9)	340 (60)	120 (21)
7	WR12-800-08	84 (373)	3.74 (95,0)	270 (47)	90 (16)



Shear/Roll

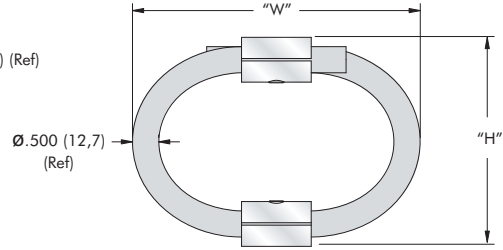
Curve	Model	Max Static Load Lbs. (N)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	WR12-200-08	205 (912)	1.42 (36,1)	740 (130)	740 (130)
2	WR12-300-08	195 (867)	1.54 (39,1)	640 (112)	640 (112)
3	WR12-400-08	150 (667)	1.66 (42,2)	440 (77)	440 (77)
4	WR12-500-08	140 (623)	1.86 (47,2)	370 (65)	370 (65)
5	WR12-600-08	135 (601)	2.08 (52,8)	340 (60)	340 (60)
6	WR12-700-08	60 (267)	2.68 (68,1)	155 (27)	155 (27)
7	WR12-800-08	45 (200)	2.80 (71,1)	110 (19)	110 (19)

Note: Performance provided for full loop models with standard (302/304) stainless steel cable. Consult Enidine for other options. Do not extrapolate curves.



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

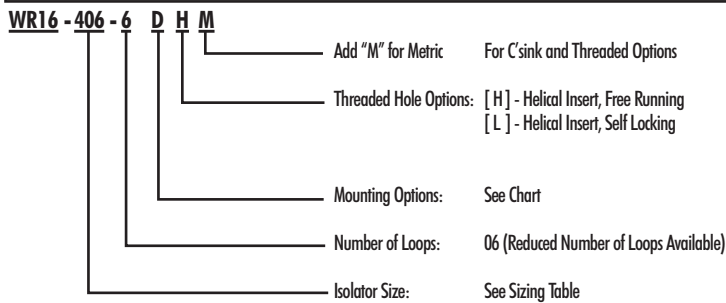
8X Mounting Holes
See Mounting Options



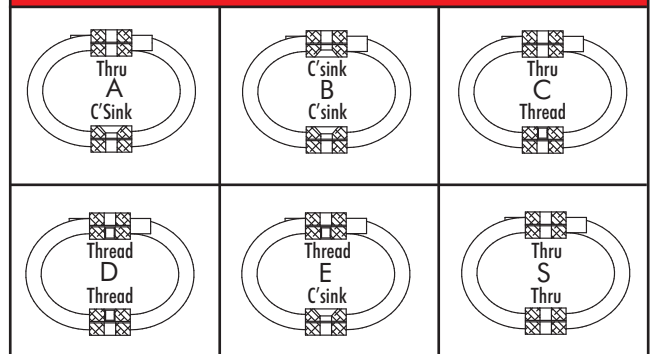
Size	Height "H" in. (mm)	Width (Ref) "W" in. (mm)	Unit Weight Lbs. (Kg)	Mounting Options	Thru Hole in. (mm)	Thread in. (mm)	C'sink Imperial (Metric)
WR16-206	3.00 (76)	3.63 (92)	3.00 (1,36)	A, B, C, D, E, S	0.354 ^{+0.005} _{-0.015} (09,0 ^{+0.13} _{-0,38})	1/4-28 UNF *(M8 X 1,25)	82° (90°)
WR16-306	3.25 (83)	4.00 (102)	3.15 (1,43)				
WR16-406	3.50 (89)	4.13 (105)	3.30 (1,50)				
WR16-606	3.75 (95)	4.75 (121)	3.68 (1,67)				
WR16-706	4.25 (108)	5.25 (133)	3.98 (1,81)				
WR16-806	4.90 (124)	5.65 (144)	4.46 (2,02)				
WR16-856	5.40 (137)	6.13 (156)	4.80 (2,18)				
WR16-906	6.10 (155)	7.10 (180)	5.10 (2,31)				

* Tapped M8 x 1.25, Inserts M7 x 1.0

Model Number Ordering Code



Mounting Options

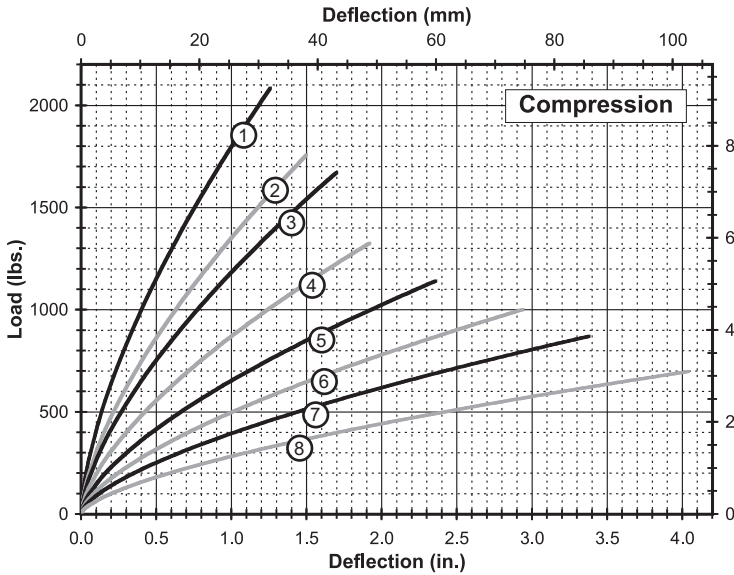


Wire Rope Special Options

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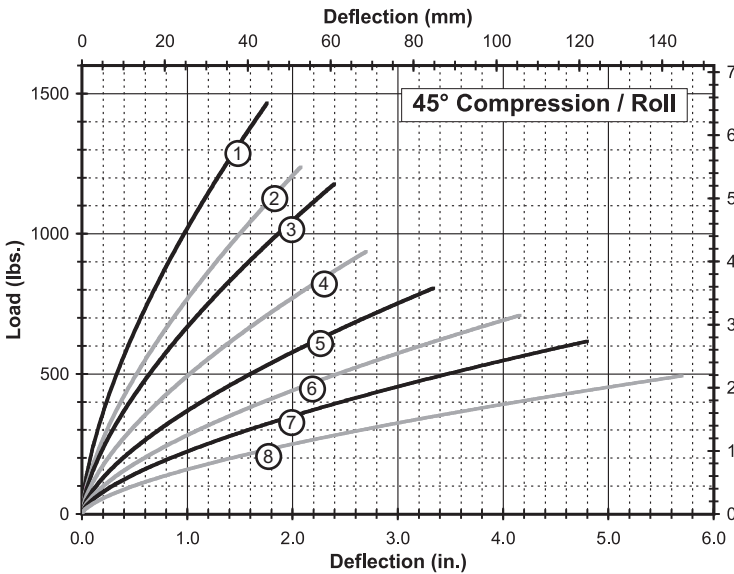
- Maximum recommended torque for threaded bar is 115 in.-lbs. (20 Nm)
- Operating Temperature Range: -150°F to 500°F (-100°C to 260°C)

Static Load vs. Deflection



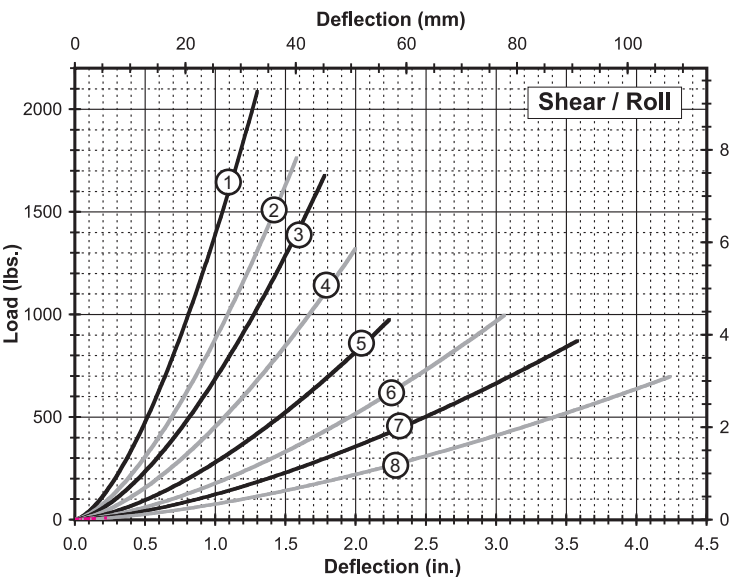
Compression

Curve	Model	Max Static Load Lbs. (N)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	WR16-206-06	615 (2 736)	1.26 (32,0)	4,090 (716)	2,010 (352)
2	WR16-306-06	515 (2 291)	1.50 (38,1)	3,030 (531)	1,420 (249)
3	WR16-406-06	485 (2 157)	1.70 (43,2)	2,630 (461)	1,190 (208)
4	WR16-606-06	390 (1 735)	1.92 (48,8)	1,960 (343)	840 (147)
5	WR16-706-06	330 (1 468)	2.36 (59,9)	1,460 (256)	590 (103)
6	WR16-806-06	290 (1 290)	2.94 (74,7)	1,120 (196)	410 (72)
7	WR16-856-06	255 (1 134)	3.38 (85,9)	880 (154)	310 (54)
8	WR16-906-06	205 (912)	4.04 (102,6)	635 (111)	210 (37)



45° Compression/Roll

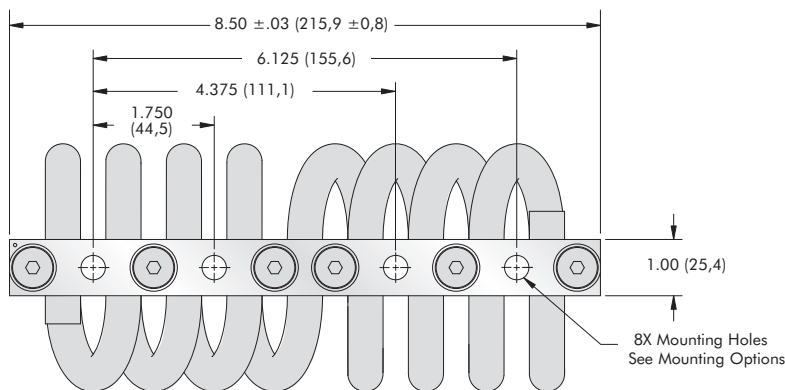
Curve	Model	Max Static Load Lbs. (N)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	WR16-206-06	435 (1 935)	1.76 (44,7)	2,310 (405)	1,010 (177)
2	WR16-306-06	365 (1 624)	2.08 (52,8)	1,700 (298)	720 (126)
3	WR16-406-06	345 (1 535)	2.40 (61,0)	1,500 (263)	600 (105)
4	WR16-606-06	275 (1 223)	2.70 (68,6)	1,110 (194)	420 (74)
5	WR16-706-06	235 (1 045)	3.34 (84,8)	825 (144)	290 (51)
6	WR16-806-06	205 (912)	4.16 (105,7)	630 (110)	210 (37)
7	WR16-856-06	180 (801)	4.80 (121,9)	500 (88)	160 (28)
8	WR16-906-06	140 (623)	5.70 (144,8)	355 (62)	110 (19)



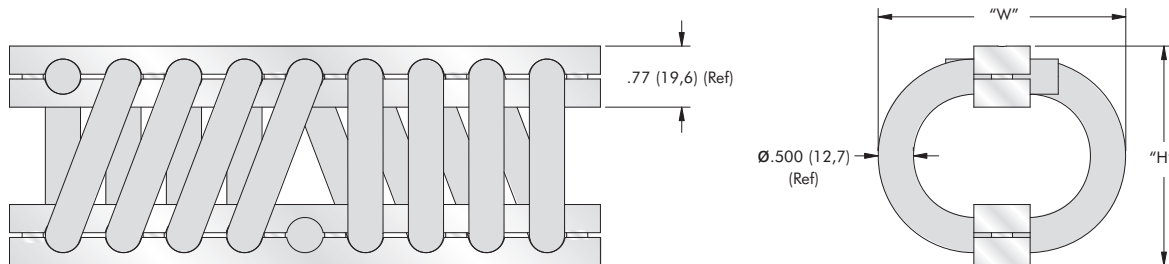
Shear/Roll

Curve	Model	Max Static Load Lbs. (N)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	WR16-206-06	335 (1 490)	1.30 (33,0)	1,260 (221)	1,260 (221)
2	WR16-306-06	275 (1 223)	1.58 (40,1)	890 (156)	890 (156)
3	WR16-406-06	255 (1 134)	1.78 (45,2)	740 (130)	740 (130)
4	WR16-606-06	205 (912)	2.00 (50,8)	520 (91)	520 (91)
5	WR16-706-06	135 (601)	2.24 (56,9)	340 (60)	340 (60)
6	WR16-806-06	100 (445)	3.06 (77,7)	260 (46)	260 (46)
7	WR16-856-06	75 (334)	3.58 (90,9)	190 (33)	190 (33)
8	WR16-906-06	50 (222)	4.24 (107,7)	130 (23)	130 (23)

Note: Performance provided for full loop models with standard (302/304) stainless steel cable. Consult Enidine for other options. Do not extrapolate curves.



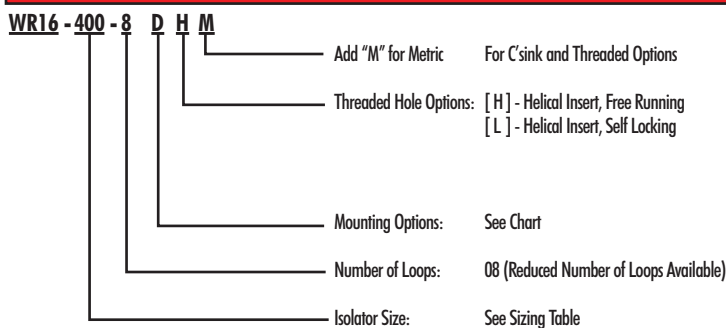
Note: Dimensions are in inches (mm)
Tolerances are ± .010 (± .25mm)



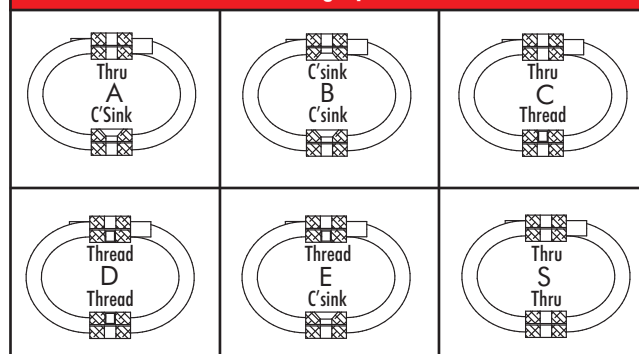
Size	Height "H" in. (mm)	Width (Ref) "W" in. (mm)	Unit Weight Lbs. (Kg)	Mounting Options	Thru Hole in. (mm)	Thread in. (mm)	C'sink Imperial (Metric)
WR16-200	3.00 (76)	3.63 (92)	4.00 (1,81)	A, B, C, D, E, S	Ø.354 +.005 -.015 (Ø9.0 +0.13 -0.38)	1/4-28 UNF *(M8 x 1,25)	82° (90°)
WR16-300	3.25 (83)	4.00 (102)	4.20 (1,91)				
WR16-400	3.50 (89)	4.13 (105)	4.40 (2,00)				
WR16-600	3.75 (95)	4.75 (121)	4.90 (2,22)				
WR16-700	4.25 (108)	5.25 (133)	5.30 (2,40)				
WR16-800	4.90 (124)	5.65 (144)	5.95 (2,70)				
WR16-850	5.40 (137)	6.13 (156)	6.40 (2,90)				
WR16-900	6.10 (155)	7.10 (180)	6.80 (3,09)				

* Tapped M8 x 1.25, Inserts M7 x 1.0

Model Number Ordering Code



Mounting Options

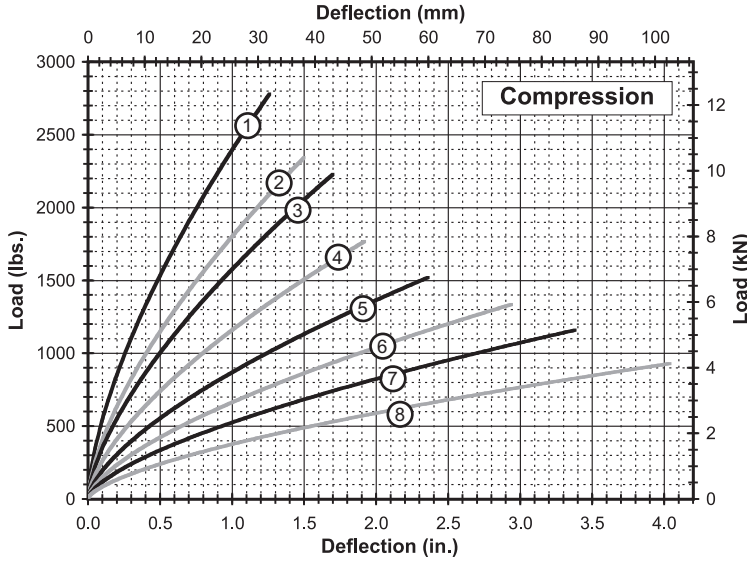


Wire Rope Special Options

Optional materials for the wire rope and mount bars are available upon request. Possibilities include galvanized rope, bell mouth mount bars or stainless steel rope and mount bars. Please contact Enidine to discuss in more detail. Minimum purchase quantities may apply. See page 5.

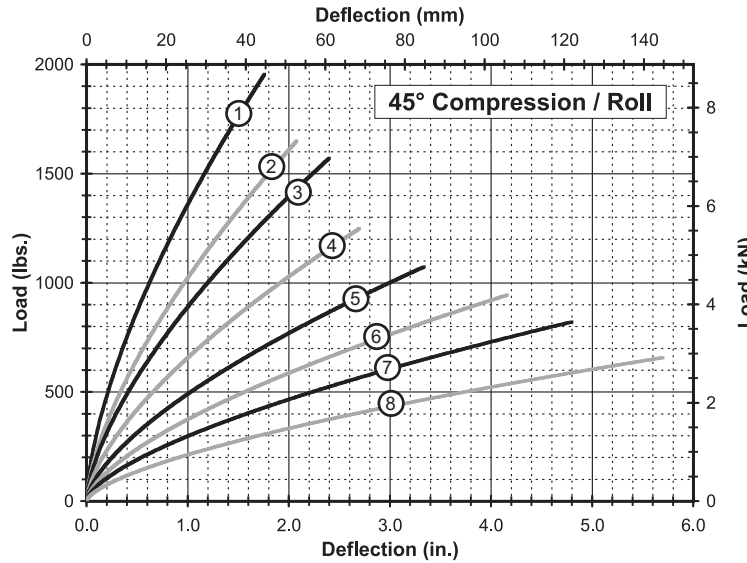
- Maximum recommended torque for threaded bar is 115 in.-lbs. (20 Nm)
- Operating Temperature Range: -150°F to 500°F (-100°C to 260°C)

Static Load vs. Deflection



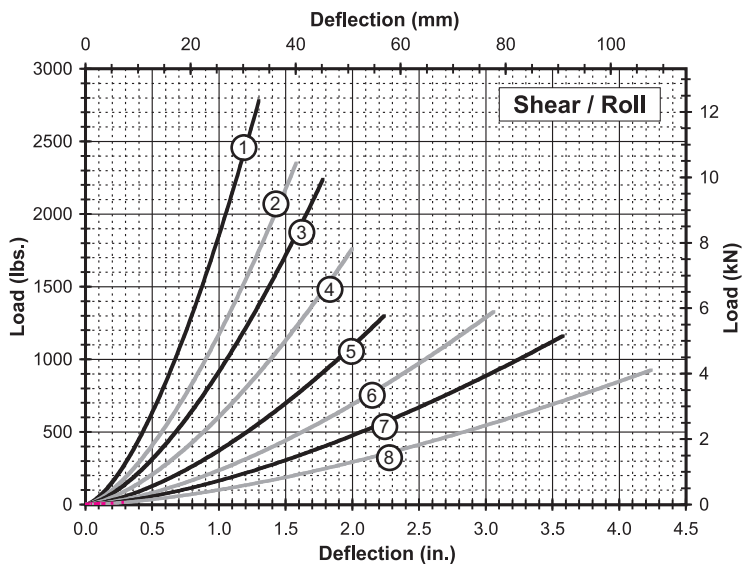
Compression

Curve	Model	Max Static Load Lbs. (N)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	WR16-200-08	820 (3 648)	1.26 (32,0)	5,450 (954)	2,690 (471)
2	WR16-300-08	685 (3 047)	1.50 (38,1)	4,040 (708)	1,900 (333)
3	WR16-400-08	645 (2 869)	1.70 (43,2)	3,500 (613)	1,590 (278)
4	WR16-600-08	520 (2 313)	1.92 (48,8)	2,610 (457)	1,120 (196)
5	WR16-700-08	440 (1 957)	2.36 (59,9)	1,940 (340)	780 (137)
6	WR16-800-08	390 (1 735)	2.94 (74,7)	1,490 (261)	550 (96)
7	WR16-850-08	340 (1 512)	3.38 (85,9)	1,180 (207)	420 (74)
8	WR16-900-08	270 (1 201)	4.04 (102,6)	845 (148)	280 (49)



45° Compression/Roll

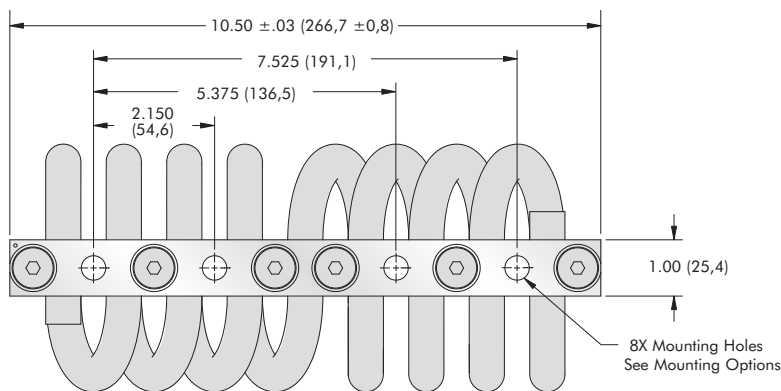
Curve	Model	Max Static Load Lbs. (N)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	WR16-200-08	580 (2 580)	1.76 (44,7)	3,080 (539)	1,350 (236)
2	WR16-300-08	485 (2 157)	2.08 (52,8)	2,270 (398)	960 (168)
3	WR16-400-08	460 (2 046)	2.40 (61,0)	1,990 (349)	790 (138)
4	WR16-600-08	365 (1 624)	2.70 (68,6)	1,480 (259)	560 (98)
5	WR16-700-08	315 (1 401)	3.34 (84,8)	1,100 (193)	390 (68)
6	WR16-800-08	275 (1 223)	4.16 (105,7)	840 (147)	280 (49)
7	WR16-850-08	240 (1 068)	4.80 (121,9)	670 (117)	210 (37)
8	WR16-900-08	185 (823)	5.70 (144,8)	475 (83)	140 (25)



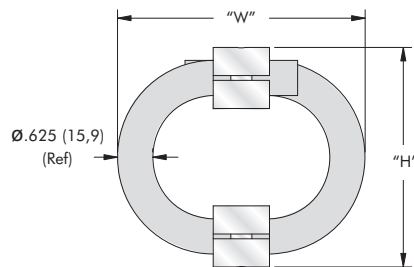
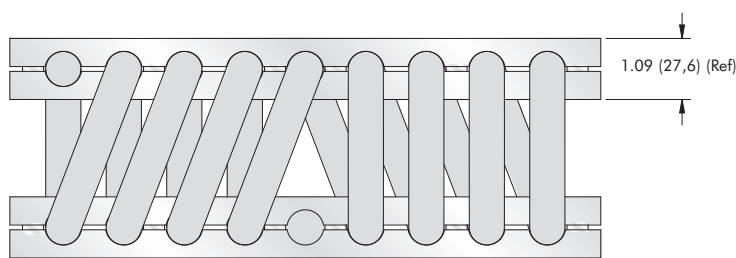
Shear/Roll

Curve	Model	Max Static Load Lbs. (N)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	WR16-200-08	660 (2 936)	1.30 (33,0)	1,680 (294)	1,680 (294)
2	WR16-300-08	385 (1 713)	1.58 (40,1)	1,180 (207)	1,180 (207)
3	WR16-400-08	350 (1 557)	1.78 (45,2)	990 (173)	990 (173)
4	WR16-600-08	270 (1 201)	2.00 (50,8)	690 (121)	690 (121)
5	WR16-700-08	180 (801)	2.24 (56,9)	460 (81)	460 (81)
6	WR16-800-08	135 (601)	3.06 (77,7)	340 (60)	340 (60)
7	WR16-850-08	100 (445)	3.58 (90,9)	260 (46)	260 (46)
8	WR16-900-08	65 (289)	4.24 (107,7)	170 (30)	170 (30)

Note: Performance provided for full loop models with standard (302/304) stainless steel cable. Consult Enidine for other options. Do not extrapolate curves.

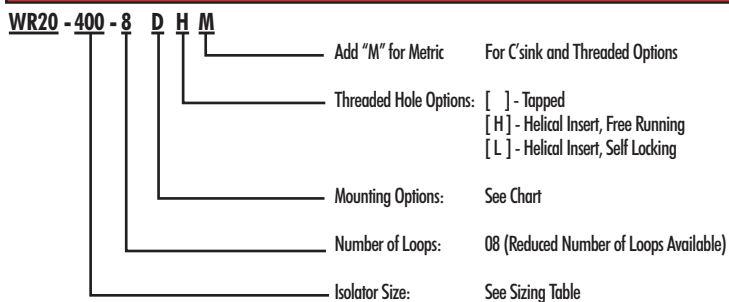


Note: Dimensions are in inches (mm)
Tolerances are ± .010 (± .25mm)

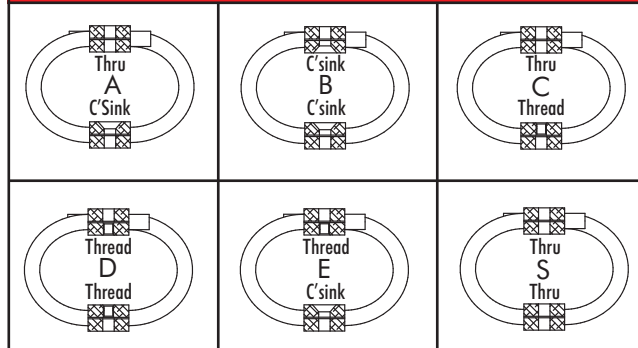


Size	Height "H" in. (mm)	Width (Ref) "W" in. (mm)	Unit Weight Lbs. (Kg)	Mounting Options	Thru Hole in. (mm)	Thread in. (mm)	C'sink Imperial (Metric)
WR20-200	3.50 (89)	4.00 (102)	6.62 (3,00)	C, D	$\begin{matrix} \text{Ø.433}^{+.005} \\ \text{-.015} \\ (\text{Ø11,0}^{+.013} \\ \text{-0,38}) \end{matrix}$	3/8-24 UNF (M10 X 1,5)	82° (90°)
WR20-300	3.90 (99)	4.40 (112)	7.06 (3,20)	A, B, C, D, E, S			
WR20-400	4.00 (102)	4.75 (121)	7.50 (3,40)				
WR20-600	4.30 (109)	5.31 (135)	8.16 (3,70)				
WR20-700	4.70 (119)	6.00 (152)	8.83 (4,00)				
WR20-800	5.00 (127)	6.50 (165)	9.50 (4,31)				
WR20-900	5.30 (135)	7.00 (178)	10.20 (4,63)				

Model Number Ordering Code



Mounting Options

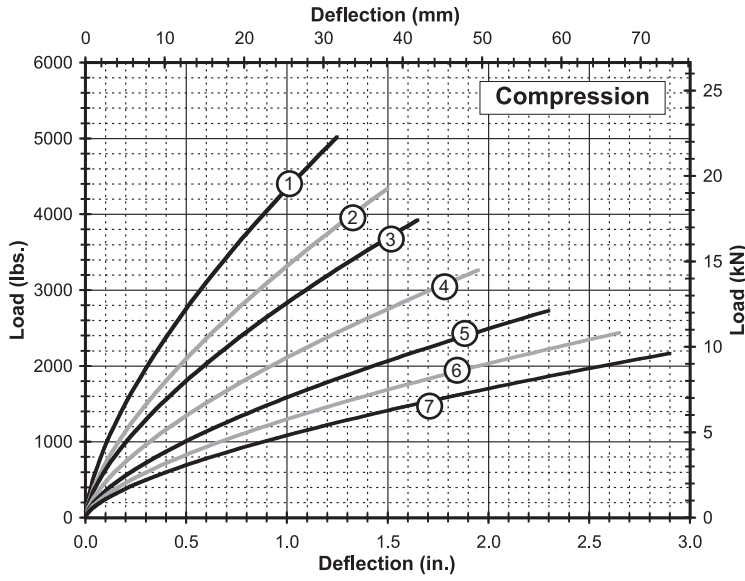


Wire Rope Special Options

Optional materials for the wire rope and mount bars are available upon request. Possibilities include galvanized rope, bell mouth mount bars or stainless steel rope and mount bars. Please contact Enidine to discuss in more detail. Minimum purchase quantities may apply. See page 5.

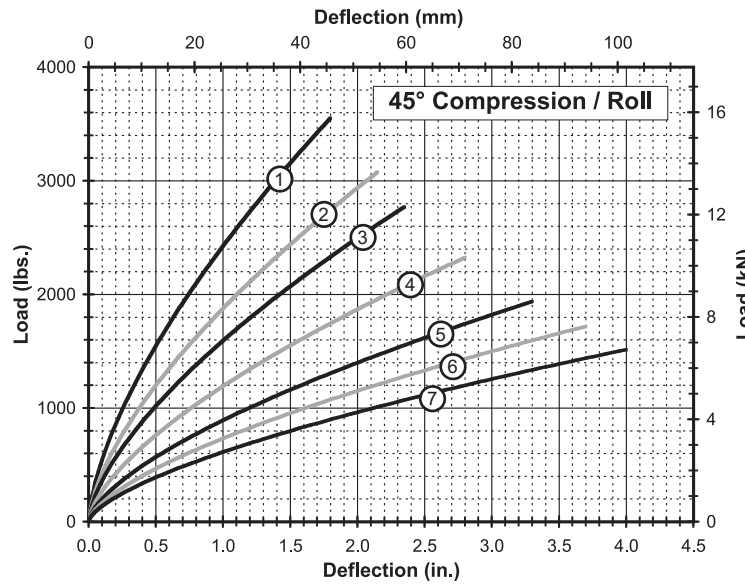
- Maximum recommended torque for threaded bar is 415 in.-lbs. (50 Nm)
- Operating Temperature Range: -150°F to 500°F (-100°C to 260°C)

Static Load vs. Deflection



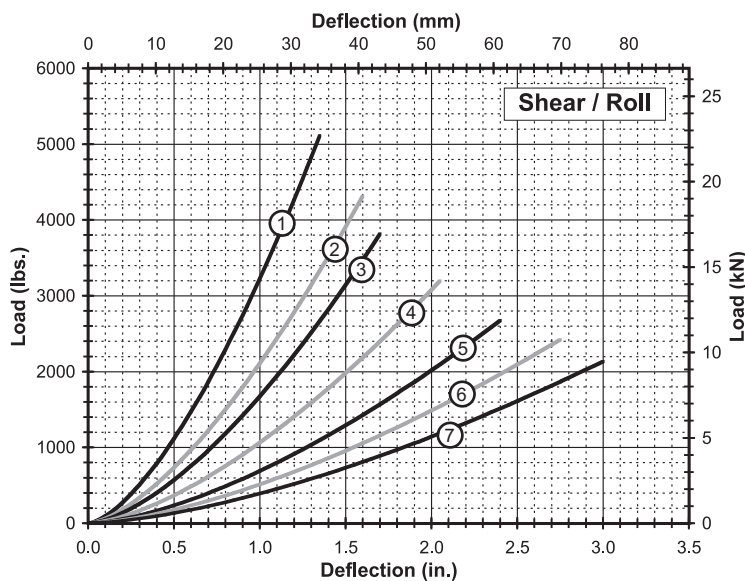
Compression

Curve	Model	Max Static Load Lbs. (N)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	WR20-200-08	1,450 (6 450)	1.25 (31,8)	9,570 (1 676)	4,850 (849)
2	WR20-300-08	1,230 (5 471)	1.50 (38,1)	7,190 (1 259)	3,480 (609)
3	WR20-400-08	1,140 (5 071)	1.65 (41,9)	6,310 (1 105)	2,880 (504)
4	WR20-600-08	945 (4 204)	1.95 (49,5)	4,690 (821)	2,030 (356)
5	WR20-700-08	790 (3 514)	2.30 (58,4)	3,520 (616)	1,440 (252)
6	WR20-800-08	715 (3 180)	2.65 (67,3)	2,920 (511)	1,120 (196)
7	WR20-900-08	630 (2 802)	2.90 (73,7)	2,440 (427)	910 (159)



45° Compression/Roll

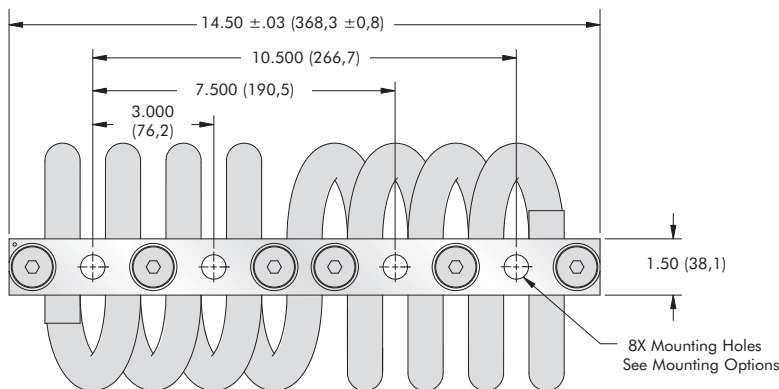
Curve	Model	Max Static Load Lbs. (N)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	WR20-200-08	1,020 (4 537)	1.80 (45,7)	5,430 (951)	2,390 (419)
2	WR20-300-08	895 (3 981)	2.15 (54,6)	4,230 (741)	1,740 (305)
3	WR20-400-08	805 (3 581)	2.35 (59,7)	3,580 (627)	1,430 (250)
4	WR20-600-08	670 (2 980)	2.80 (71,1)	2,670 (468)	1,010 (177)
5	WR20-700-08	560 (2 491)	3.30 (83,8)	2,000 (350)	710 (124)
6	WR20-800-08	505 (2 246)	3.70 (94,0)	1,630 (285)	560 (98)
7	WR20-900-08	445 (1 979)	4.00 (101,6)	1,360 (238)	460 (81)



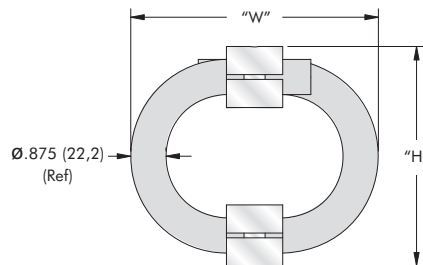
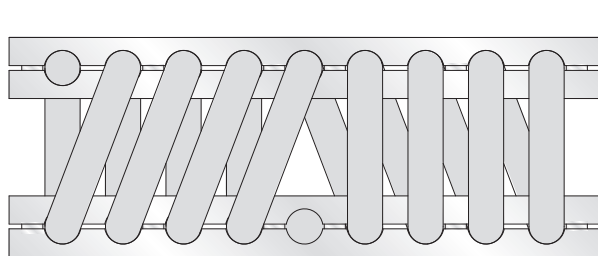
Shear/Roll

Curve	Model	Max Static Load Lbs. (N)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	WR20-200-08	790 (3 514)	1.35 (34,3)	2,990 (524)	2,990 (524)
2	WR20-300-08	680 (3 025)	1.60 (40,6)	2,140 (375)	2,140 (375)
3	WR20-400-08	590 (2 624)	1.70 (43,2)	1,760 (308)	1,760 (308)
4	WR20-600-08	480 (2 135)	2.05 (52,1)	1,230 (215)	1,230 (215)
5	WR20-700-08	340 (1 512)	2.40 (61,0)	870 (152)	870 (152)
6	WR20-800-08	275 (1 223)	2.75 (69,9)	700 (123)	700 (123)
7	WR20-900-08	220 (979)	3.00 (76,2)	560 (98)	560 (98)

Note: Performance provided for full loop models with standard (302/304) stainless steel cable. Consult Enidine for other options. Do not extrapolate curves.

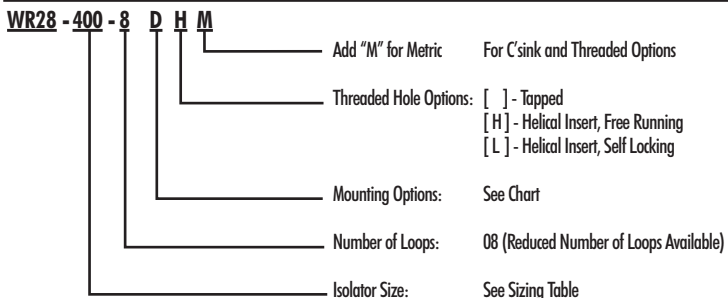


Note: Dimensions are in inches (mm)
Tolerances are ± .010 (± .25mm)

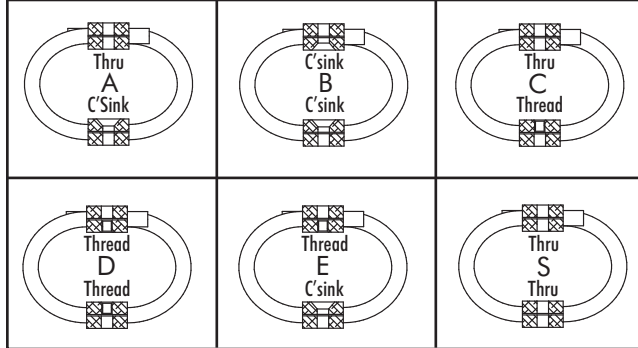


Size	Height "H" in. (mm)	Width (Ref) "W" in. (mm)	Unit Weight Lbs. (Kg)	Mounting Options	Thru Hole in. (mm)	Thread in. (mm)	C'sink Imperial (Metric)
WR28-200	5.25 (133)	5.50 (140)	18.5 (8,40)	C, D	$\begin{matrix} \text{Ø}531^{+.005} \\ \text{-}.015 \\ \text{Ø}13,5^{+.013} \\ \text{-}.038 \end{matrix}$	1/2-13 UNC (M12 X 1,75)	82° (90°)
WR28-400	6.00 (152)	6.50 (165)	21.0 (9,53)	A, B, C, D, E, S			
WR28-600	6.25 (159)	7.00 (178)	21.8 (9,90)				
WR28-800	7.50 (191)	8.25 (210)	25.3 (11,50)				
WR28-900	8.50 (216)	9.25 (235)	28.0 (12,70)				
WR28-950	8.50 (216)	11.25 (286)	30.6 (13,90)				

Model Number Ordering Code



Mounting Options

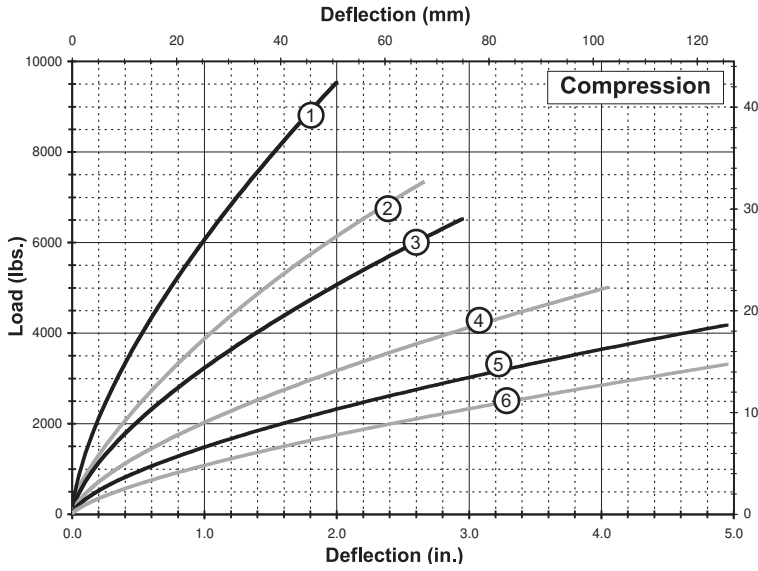


Wire Rope Special Options

Optional materials for the wire rope and mount bars are available upon request. Possibilities include galvanized rope, bell mouth mount bars or stainless steel rope and mount bars. Please contact Enidine to discuss in more detail. Minimum purchase quantities may apply. See page 5.

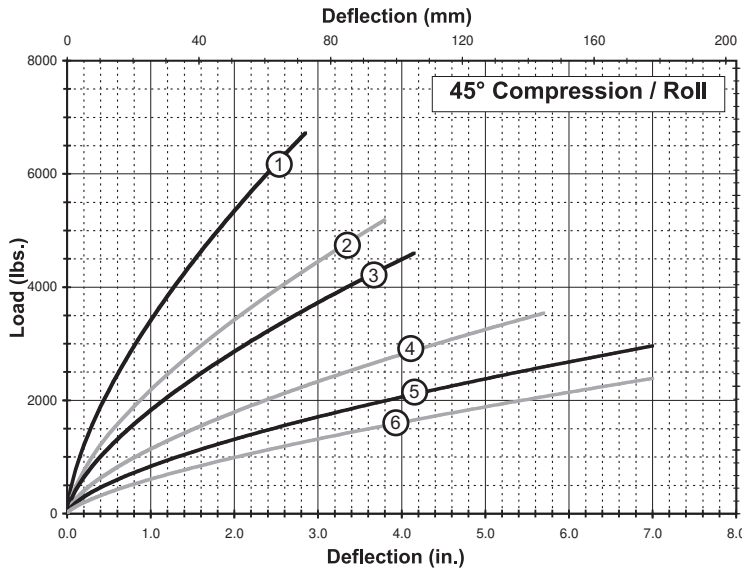
- Maximum recommended torque for threaded bar 95 ft.-lbs. (100 Nm)
- Operating Temperature Range: -150°F to 500°F (-100°C to 260°C)

Static Load vs. Deflection



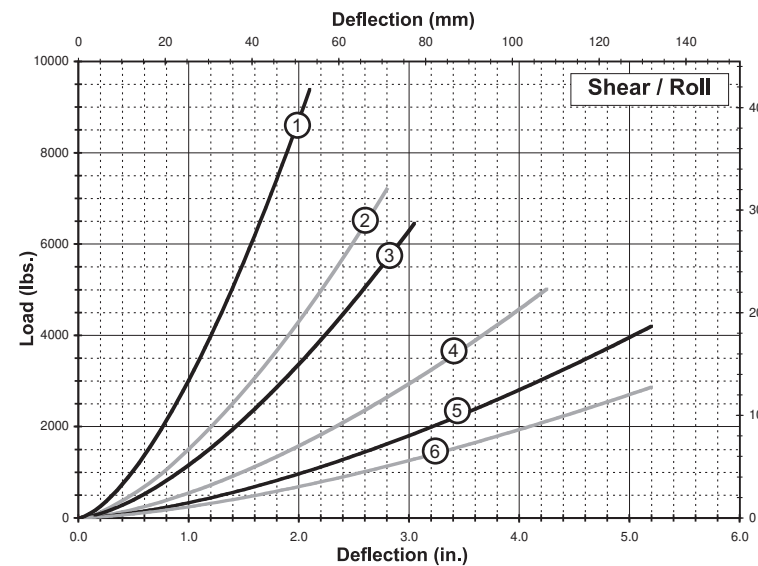
Compression

Curve	Model	Max Static Load Lbs. (kN)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	WR28-200-08	2,760 (12,28)	2.00 (50,8)	13,490 (2 362)	5,770 (1 010)
2	WR28-400-08	2,120 (9,43)	2.65 (67,3)	8,640 (1 513)	3,340 (585)
3	WR28-600-08	1,900 (8,45)	2.95 (74,9)	7,250 (1 270)	2,680 (469)
4	WR28-800-08	1,470 (6,54)	4.05 (102,9)	4,570 (800)	1,500 (263)
5	WR28-900-08	1,220 (5,43)	4.95 (125,7)	3,340 (585)	1,030 (180)
6	WR28-950-08	840 (3,74)	4.95 (125,7)	2,150 (377)	790 (138)



45° Compression/Roll

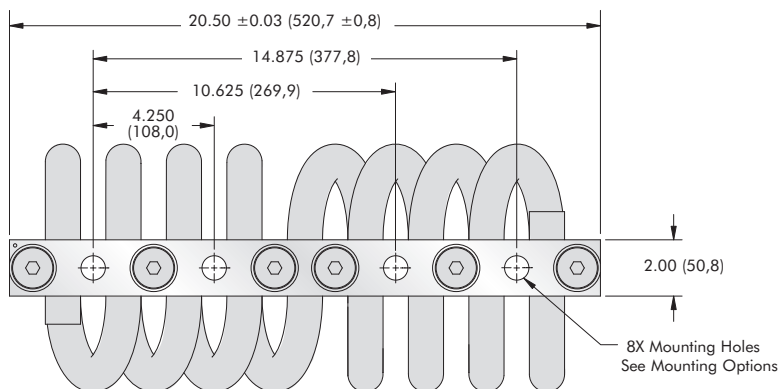
Curve	Model	Max Static Load Lbs. (kN)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	WR28-200-08	1,960 (8,72)	2.85 (72,4)	7,700 (1 348)	2,870 (503)
2	WR28-400-08	1,500 (6,67)	3.80 (96,5)	4,910 (860)	1,650 (289)
3	WR28-600-08	1,350 (6,01)	4.15 (105,4)	4,100 (718)	1,340 (235)
4	WR28-800-08	1,000 (4,45)	5.70 (144,8)	2,560 (448)	750 (131)
5	WR28-900-08	730 (3,25)	7.00 (177,8)	1,870 (327)	510 (89)
6	WR28-950-08	475 (2,11)	7.00 (177,8)	1,210 (212)	400 (70)



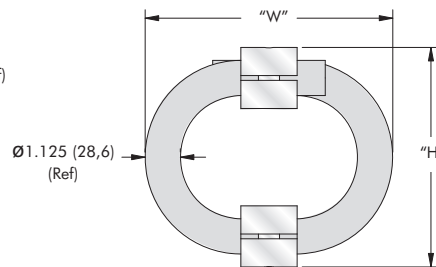
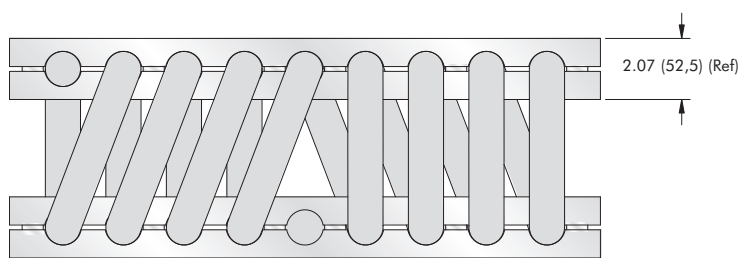
Shear/Roll

Curve	Model	Max Static Load Lbs. (kN)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	WR28-200-08	1,380 (6,14)	2.10 (53,3)	3,530 (618)	3,530 (618)
2	WR28-400-08	795 (3,54)	2.80 (71,1)	2,030 (356)	2,030 (356)
3	WR28-600-08	650 (2,89)	3.05 (77,5)	1,660 (291)	1,660 (291)
4	WR28-800-08	365 (1,62)	4.25 (108,0)	930 (163)	930 (163)
5	WR28-900-08	250 (1,11)	5.20 (132,1)	640 (112)	640 (112)
6	WR28-950-08	170 (0,76)	5.20 (132,1)	440 (77)	440 (77)

Note: Performance provided for full loop models with standard (302/304) stainless steel cable. Consult Enidine for other options. Do not extrapolate curves.

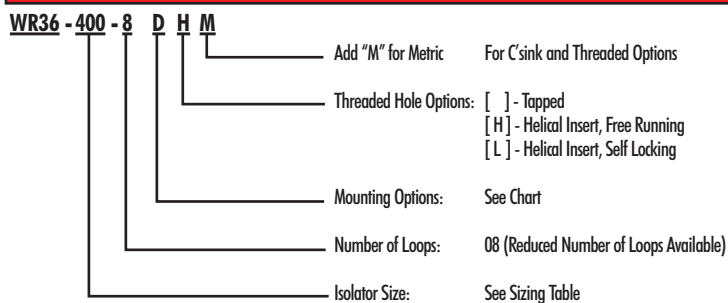


Note: Dimensions are in inches (mm)
Tolerances are ± .010 (± .25mm)

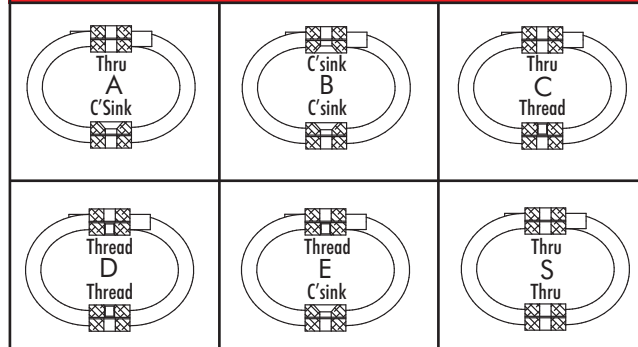


Size	Height "H" in. (mm)	Width (Ref) "W" in. (mm)	Unit Weight Lbs. (Kg)	Mounting Options	Thru Hole in. (mm)	Thread in. (mm)	C'sink Imperial (Metric)
WR36-200	7.00 (178)	8.50 (216)	46 (20,9)	A, B, C, D, E, S	Ø.781 ^{+.005} _{-.015} (Ø19.8 ^{+ 0,13} _{- 0,38})	3/4-10 UNC (M18 X 2,5)	82° (90°)
WR36-400	8.50 (216)		53 (24,0)				
WR36-600	9.25 (235)	10.25 (260)	55 (25,0)				

Model Number Ordering Code



Mounting Options

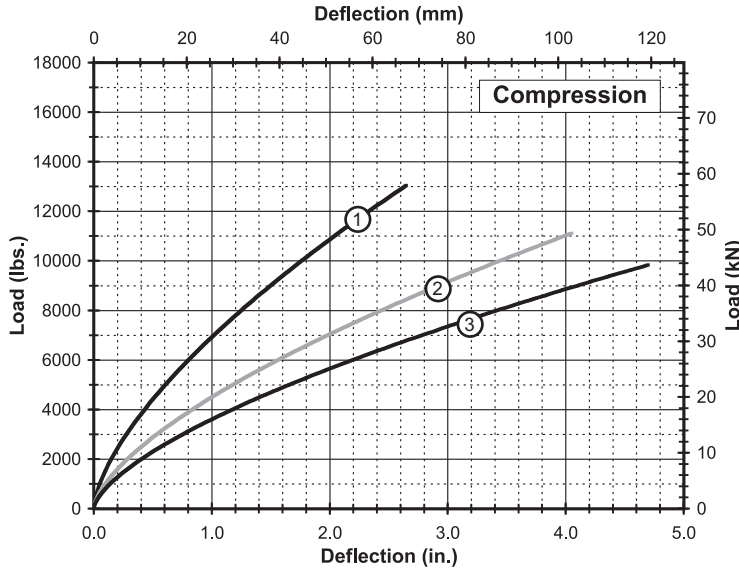


Wire Rope Special Options

Optional materials for the wire rope and mount bars are available upon request. Possibilities include galvanized rope, bell mouth mount bars or stainless steel rope and mount bars. Please contact Enidine to discuss in more detail. Minimum purchase quantities may apply. See page 5.

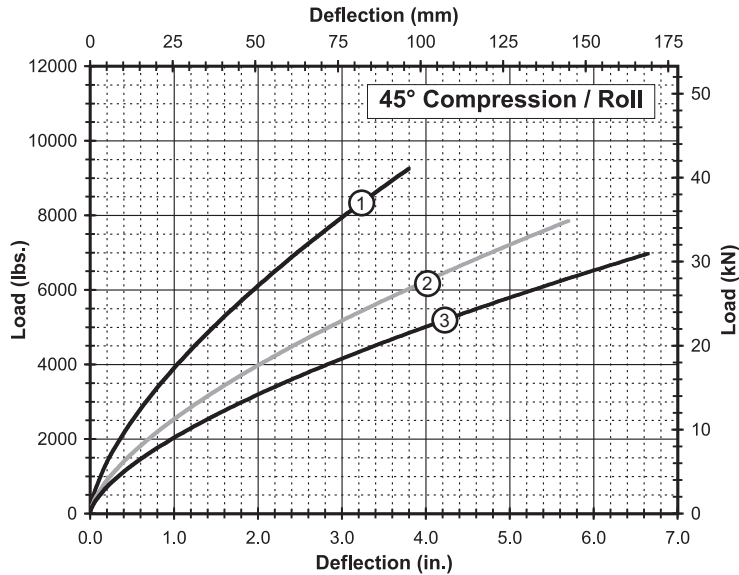
- Maximum recommended torque for threaded bar is 300 ft.-lbs. (300 Nm)
- Operating Temperature Range: -150°F to 500°F (-100°C to 260°C)

Static Load vs. Deflection



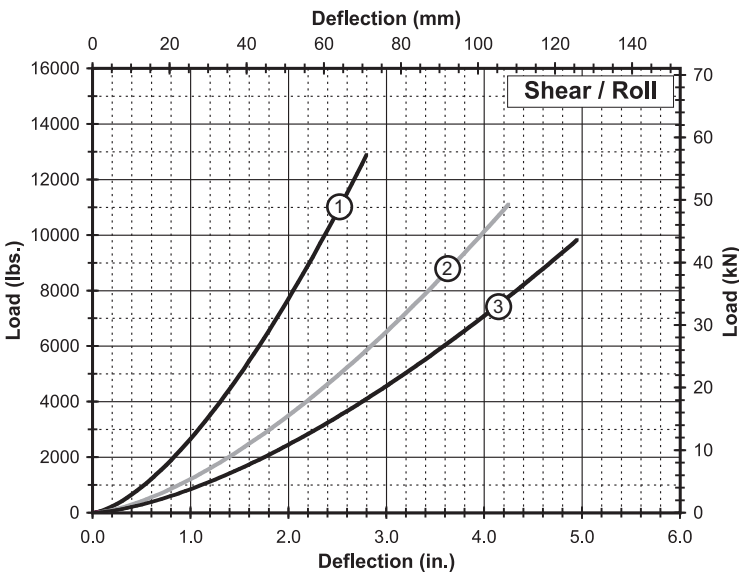
Compression

Curve	Model	Max Static Load Lbs. (kN)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	WR36-200-08	3,790 (16,86)	2.65 (67,3)	15,450 (2,706)	5,960 (1,044)
2	WR36-400-08	3,260 (14,50)	4.05 (102,9)	10,130 (1,774)	3,330 (583)
3	WR36-600-08	2,870 (12,77)	4.70 (119,4)	8,080 (1,415)	2,540 (445)



45° Compression/Roll

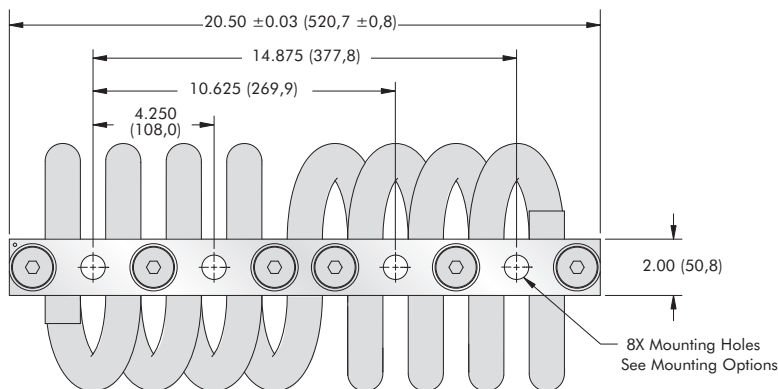
Curve	Model	Max Static Load Lbs. (kN)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	WR36-200-08	2,690 (11,97)	3.80 (96,5)	8,800 (1,541)	2,960 (518)
2	WR36-400-08	2,220 (9,88)	5.70 (144,8)	5,670 (993)	1,670 (292)
3	WR36-600-08	1,790 (7,96)	6.65 (168,9)	4,560 (799)	1,270 (222)



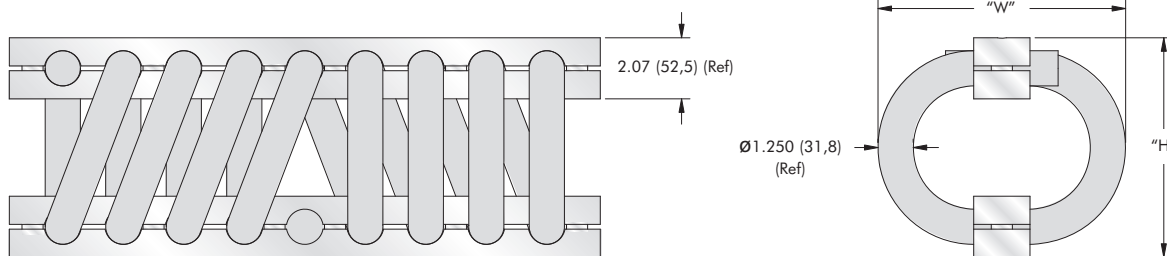
Shear/Roll

Curve	Model	Max Static Load Lbs. (kN)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	WR36-200-08	1,420 (6,32)	2.80 (71,1)	3,630 (636)	3,630 (636)
2	WR36-400-08	810 (3,60)	4.25 (108,0)	2,060 (361)	2,060 (361)
3	WR36-600-08	615 (2,74)	4.95 (125,7)	1,570 (275)	1,570 (275)

Note: Performance provided for full loop models with standard (302/304) stainless steel cable. Consult Enidine for other options. Do not extrapolate curves.

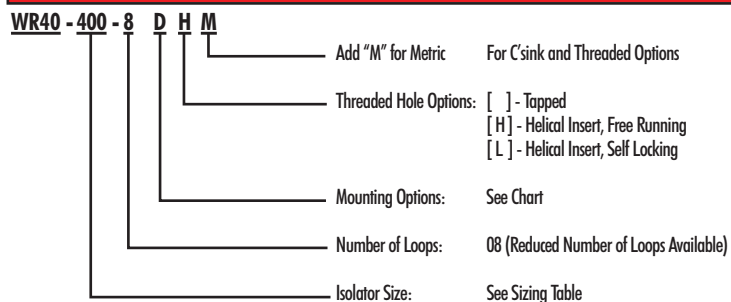


Note: Dimensions are in inches (mm)
Tolerances are ± .010 (± .25mm)

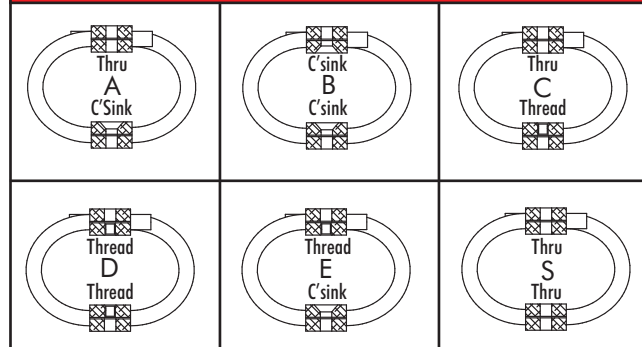


Size	Height "H" in. (mm)		Width (Ref) "W" in. (mm)	Unit Weight Lbs. (Kg)	Mounting Options	Thru Hole in. (mm)	Thread in. (mm)	C'sink Imperial (Metric)
WR40-200	7.00 (178)	± .25 (± 6.35)	8.25 (210)	53 (24,0)	A, B, C, D, E, S	Ø.781 ^{+.005} _{-.015}	3/4-10 UNC (M18 X 2,5)	82° (90°)
WR40-400	8.50 (216)		9.75 (248)	60 (27,2)		Ø1.250 ^{+.013} _{-.038}		

Model Number Ordering Code



Mounting Options

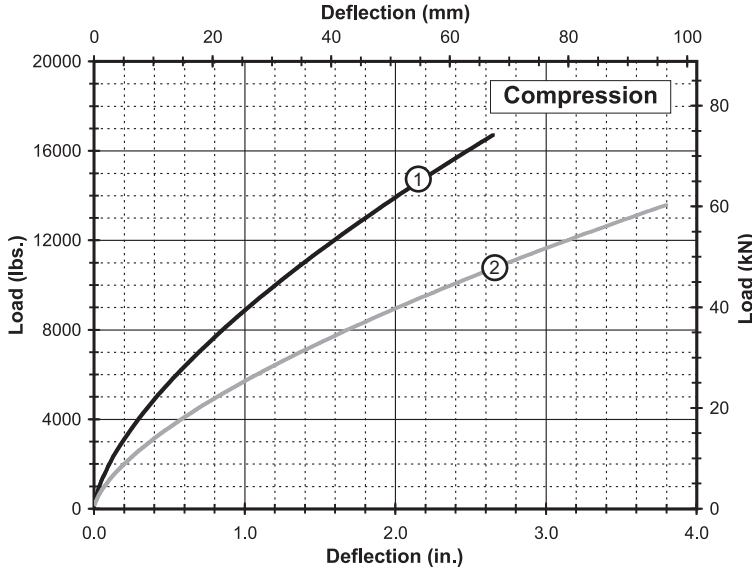


Wire Rope Special Options

Optional materials for the wire rope and mount bars are available upon request. Possibilities include galvanized rope, bell mouth mount bars or stainless steel rope and mount bars. Please contact Enidine to discuss in more detail. Minimum purchase quantities may apply. See page 5.

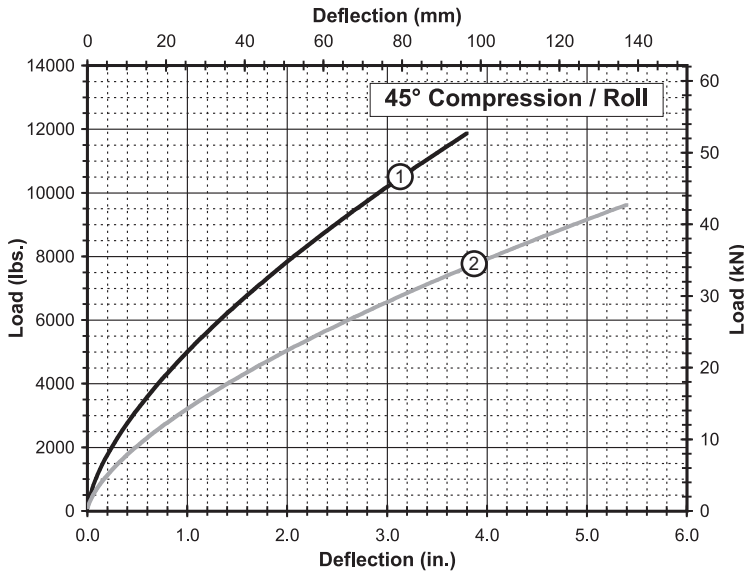
- Maximum recommended torque for threaded bar is 300 ft.-lbs. (300 Nm)
- Operating Temperature Range: -150°F to 500°F (-100°C to 260°C)

Static Load vs. Deflection



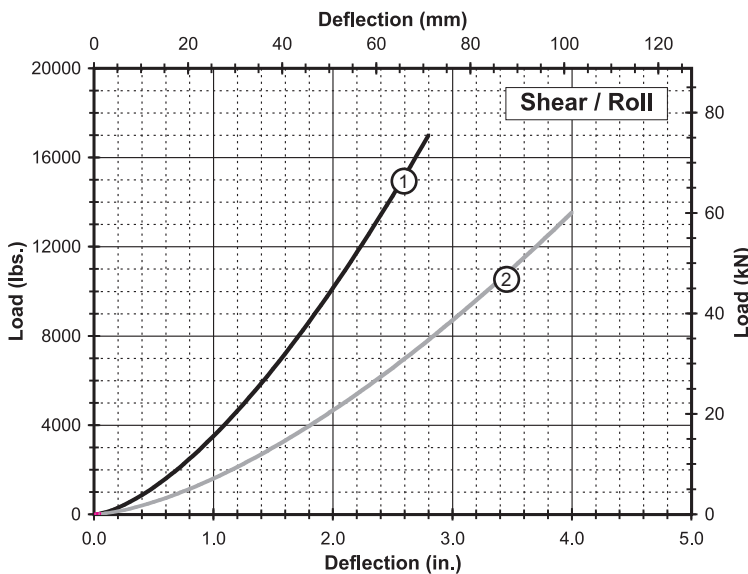
Compression

Curve	Model	Max Static Load Lbs. (kN)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	WR40-200-08	4,860 (21,62)	2.65 (67,3)	19,800 (3 468)	7,640 (1 338)
2	WR40-400-08	3,960 (17,61)	3.80 (96,5)	12,770 (2 236)	4,330 (758)



45° Compression/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	WR40-200-08	3,440 (15,30)	3.80 (96,5)	11,240 (1 968)	3,790 (664)
2	WR40-400-08	2,790 (12,41)	5.40 (137,2)	7,170 (1 256)	2,160 (378)



Shear/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	WR40-200-08	1,870 (8,32)	2.80 (71,1)	4,790 (839)	4,790 (839)
2	WR40-400-08	1,044 (4,64)	4.00 (101,6)	2,670 (468)	2,670 (468)

Note: Performance provided for full loop models with standard (302/304) stainless steel cable. Consult Enidine for other options. Do not extrapolate curves.