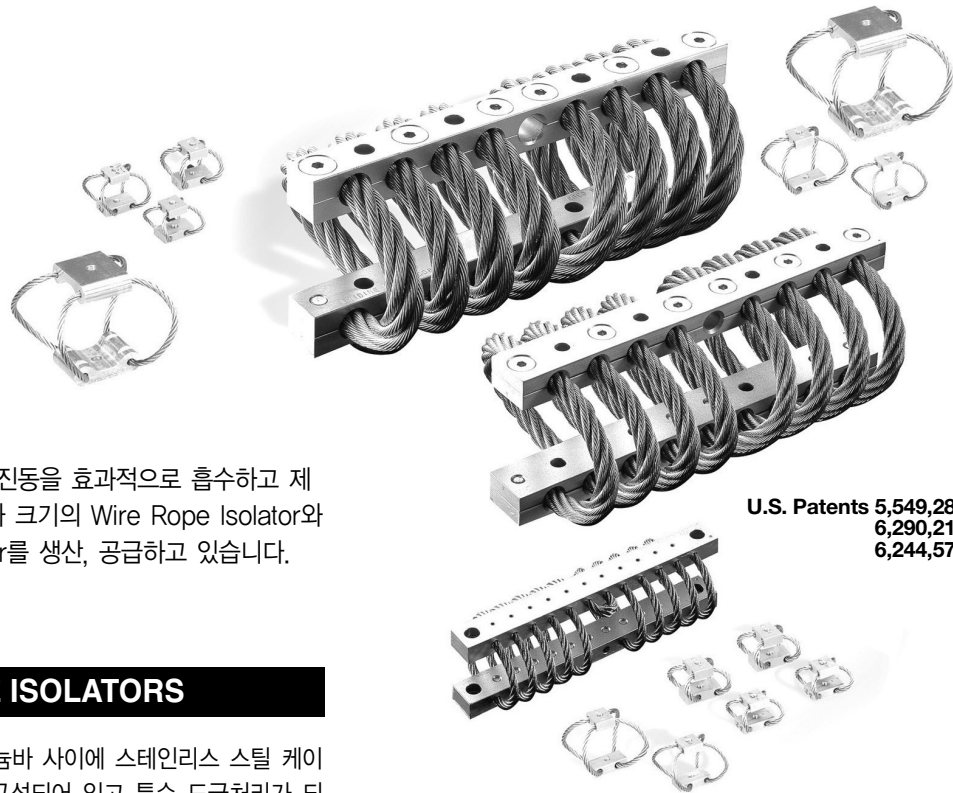




U.S. Patents 5,549,285
6,290,217
6,244,579

ENIDINE은 유해한 충격 및 진동을 효과적으로 흡수하고 제어할 수 있는 다양한 종류와 크기의 Wire Rope Isolator와 Compact Wire Rope Isolator를 생산, 공급하고 있습니다.

WIRE ROPE ISOLATORS

Wire Rope Isolators는 알루미늄바 사이에 스테인리스 스틸 케이블을 둥글게 말아 놓은 형태로 구성되어 있고 특수 도금처리가 되어 있어 극한의 온도와 각종 화학물질, 기름, 오존, 모래, 연마제 등의 각종 환경적인 요인에 구애를 받지 않는 탁월한 충격 및 진동 방진마운트입니다.

다양한 취부형식과 광범위한 크기의 제품으로 일반 산업분야와 국방관련 산업분야의 장비에 효과적으로 적용할 수 있으며, 특히 국방규격 MIL STD 810, MIL STD 167, MIL S 901, MIL E 5400, STANAG 042, BV43 44, DEF STND 0755를 만족시켜 여러분의 장비를 충격과 진동으로부터 완벽하게 보호해 드릴 것입니다.

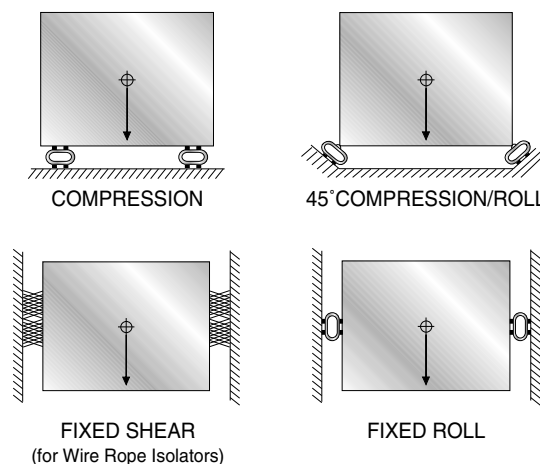
COMPACT WIRE ROPE ISOLATOR

최고의 진동 방진 효과를 위해서 ENIDINE의 Compact Wire Rope Isolators를 선택하십시오. 일반 Wire Rope Isolators보다 소형화된 제품으로 작은 공간에서 동시에 발생하는 충격과 진동을 적은 비용으로 효과적으로 흡수할 수 있습니다.

취부가 간단하고 소형화된 제품으로 민감한 전자장비내에 적용되는 HDD, CD ROM 등의 내부부품의 적용에 추천합니다. 또 Wire Rope Isolators와 같이 각종 환경적 요인에 구애받지 않으며 국방규격에도 만족시키는 제품입니다.

최저180g에서 최고 1.6ton의 하중을 지지할 수 있는 다양한 종류의 Standard Wire Rope Isolators를 공급해 드리고 있으며, 또 여러분의 요구에 맞는 Special Wire Rope Isolators도 제작 공급하여 드릴 것입니다.

Load Axis Mounting Orientations



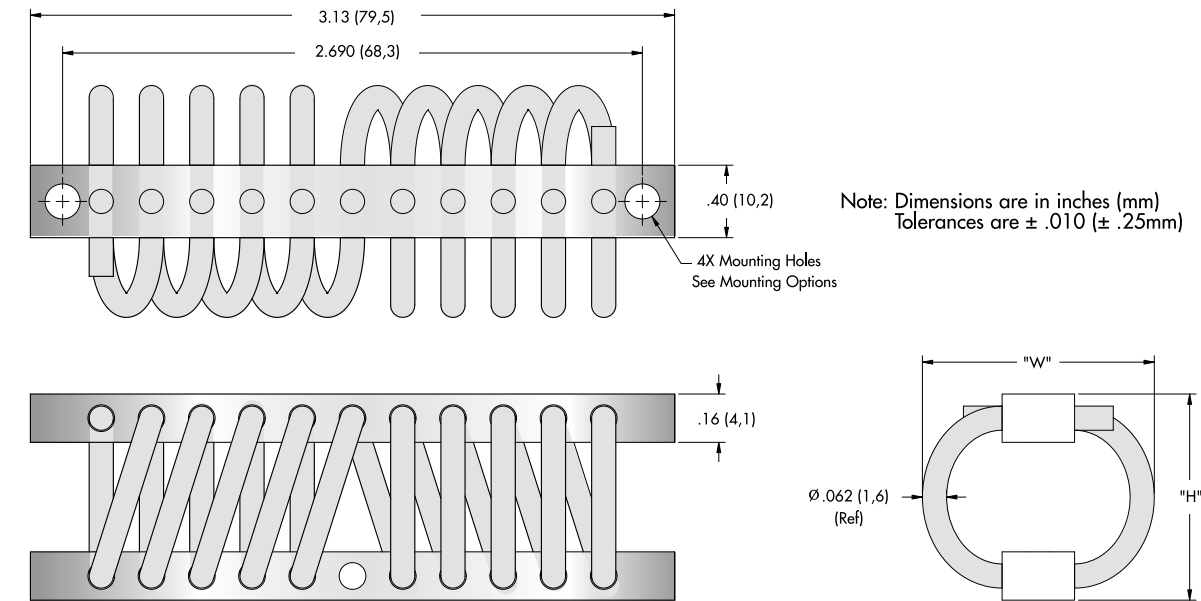
방진재 선정과정

1. Mount에 작용하는 정하중을 결정한다.
2. 장비에 손상을 주지 않는 가속도의 한계를 정한다.
3. 한계 변형량 보다 적은 범위 내에서 허용 가속도를 초과하지 않고 충격을 흡수할 수 있는 방진재를 선정한다.
4. 만족할만한 지지가능 하중을 지니며 예기치 못한 충격을 고려하여 10~20% 정도의 여유를 고려하여 선정한다.
5. 전체 하중을 지지개소로 나누어 각각의 방진재에 적용하는 하중을 결정한다.
6. 장비의 최저 강제 진동수를 결정한다.
7. 감쇄의 정도를 결정한다. 특별한 경우를 제외하고는 80% 감쇄로 충분하다.
8. 강제 진동에 대한 정적 변형량과 감쇄정도를 산정한다.
9. 정적 변형량과 최대 하중에 대한 근사 방진재를 선정, 적용한다.

APPLICATION WORKSHEET - INPUTS IMPERIAL/METRIC

	IMPERIAL	METRIC
PART I : SYSTEM DATA :		
1. Total 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 = _____ 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 (= $\frac{rpm}{60}$)		
2. System Natural Frequency for 80% isolation:	$f_n = \frac{f_i}{3.0}$	f _n = _____ Hz*
* The System Natural Frequency (f _n) must lie on a published curve. The published natural frequencies are based on a 1G input condition. Random Vibration inputs: Consult Enidine for recommendations.		
PART III : SHOCK SIZING :		
1. Maximum Allowable Transmitted G Load: (G _T): _____ G's		
2. Shock Input Velocity: (V) = _____ in./sec. ² _____ m/sec. ²		
a) Free Fall Impact:	g = 386 in./sec. ² or 9.81 m/sec. ² h = Drop Height (in. or m)	
b) Half-Sine Acceleration Input:	A ₀ = Peak Acceleration (G's) t ₀ = Duration (seconds)	
	$V = \frac{2g}{\pi} A_0 t_0$	
3. Min. Response Deflection:	$D_{min} = \frac{V^2}{g(G_T - 1)}$	$D_{min} = \frac{V^2}{g(G_T - 1)1000}$
	D _{min} = _____ in.	D _{min} = _____ mm
4. Average Force:	$F_{avg} = \frac{WV^2}{2g D_{min}}$	$F_{avg} = \frac{WV^2}{2g(D_{min})1000}$
	F _{avg} = _____ lbs.	F _{avg} = _____ N
5. Average Deflection:	$d_{avg} = \frac{D_{min}}{2}$	$d_{avg} = \frac{D_{min}}{2}$
	d _{avg} = _____ in.	d _{avg} = _____ mm

Technical Data

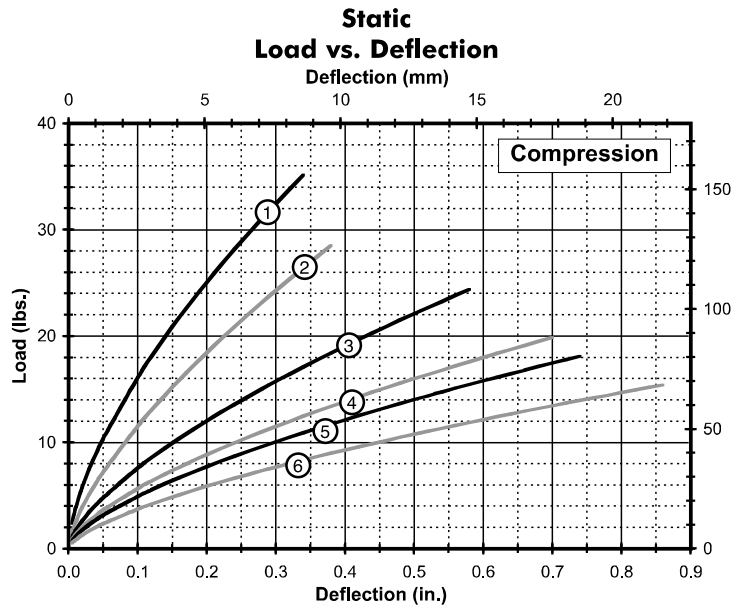


Size	Height "H" in. (mm)	Width (Ref) "W" in. (mm)	Unit Weight Lbs. (Kg)	Mounting Options	Thru Hole in. (mm)	Thread in. (mm)	C'sink Imperial (Metric)
WR2-100	0.70 (18)	± .06 (± 1,52)	1.00 (25)	B, D, E	ø .185± .005 (ø 4,7± 0,13)	#8-32 UNC (M4 X 0,7)	82° (90°)
WR2-200	0.80 (20)		1.10 (28)	A, B, C, D, E, S			
WR2-400	1.00 (25)		1.20 (30)				
WR2-600	1.10 (28)		1.30 (33)				
WR2-700	1.20 (30)		1.40 (36)				
WR2-800	1.30 (33)		1.50 (38)				

Model Number Ordering Code									
WR2 - 400 - 10 D T M P N R									
Feature Options:									
Wire Rope Options:									
Mount Bar Options:									
Add "M" for Metric									
Threaded Hole Options:									
Mounting Options:									
Number of Loops:									
Isolator Size:									

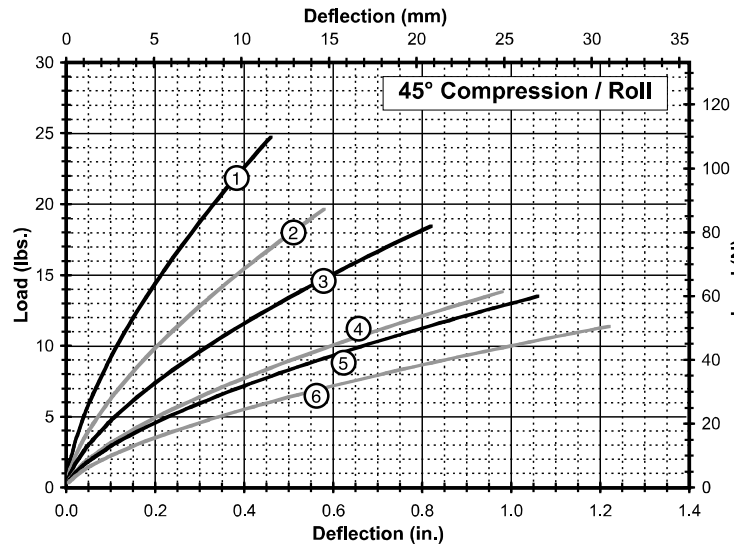
Mounting Options		
Thru A C'sink	C'sink B C'sink	Thru C Thread
Thread D Thread	Thread E C'sink	Thru S Thru
- Maximum recommended torque for standard threaded insert is 6 in.-lbs. (0,7 Nm) - Operating Temperature Range: -150°F to 500°F (-100°C to 260°C) - U.S. Patent 5,549,285		

Technical Data



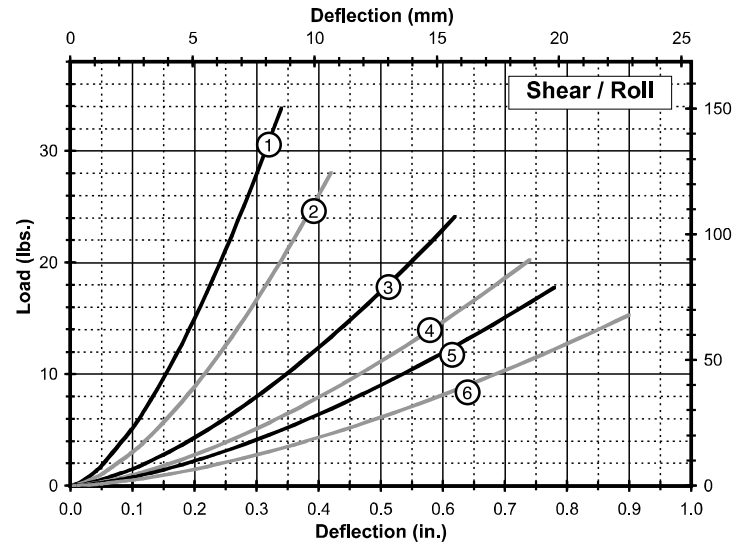
Compression

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)



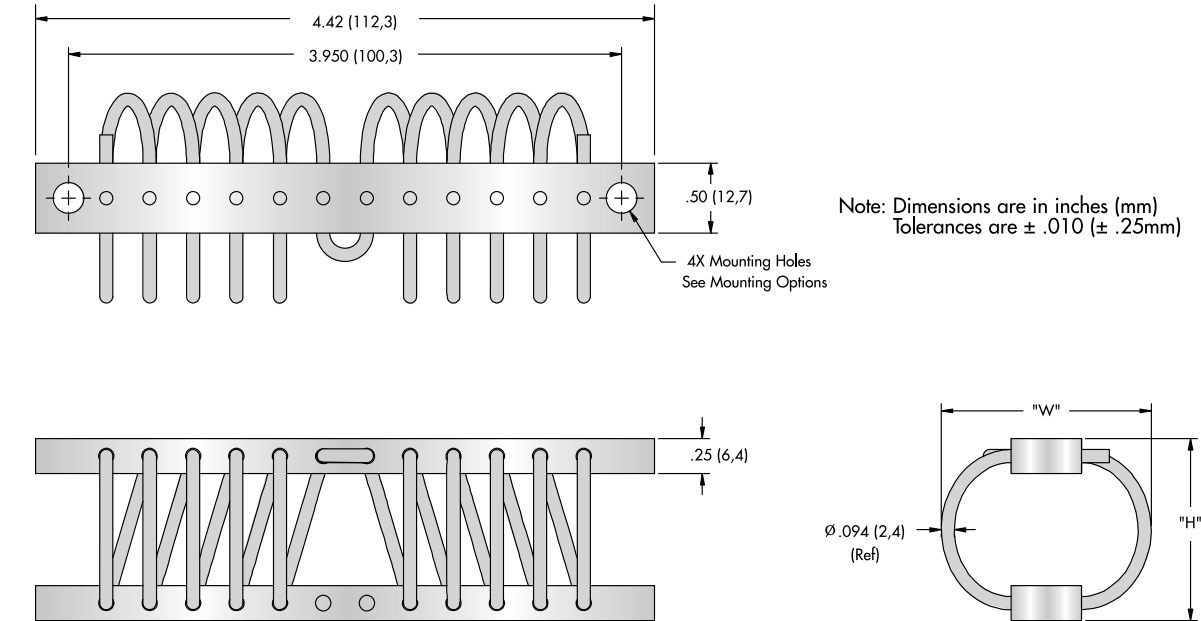
Shear / Roll

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.

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

Technical Data



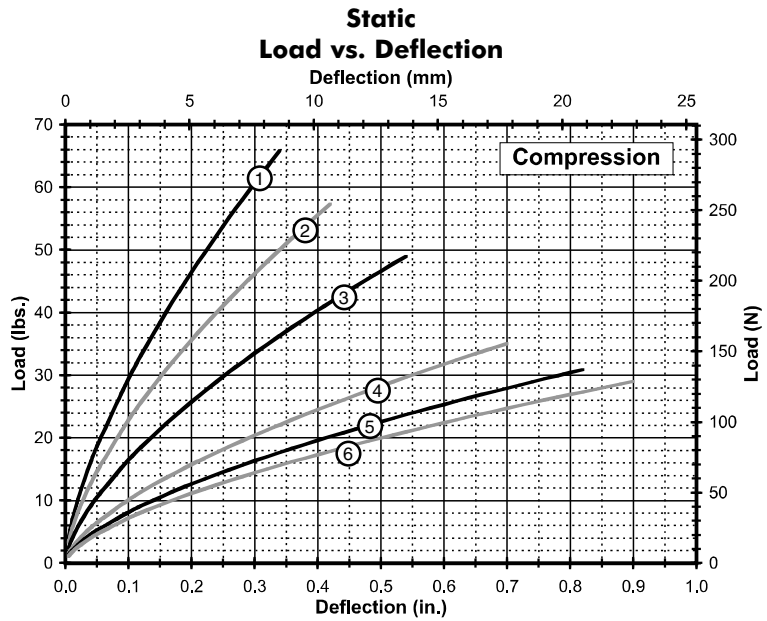
Size	Height "H" in. (mm)	Width (Ref) "W" in. (mm)	Unit Weight lbs. (Kg)	Mounting Options	Thru Hole in. (mm)	Thread in. (mm)	C'sink Imperial (Metric)
WR3-100	0.90 (23)	1.10 (28)	0.14 (0,06)	B, D, E	ø .219 ± .005 (ø 5,6 ± 0,13)	#10-32 UNF (M5 X 0,8)	82° (90°)
WR3-200	1.00 (25)	1.20 (30)	0.15 (0,07)	A, 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)				
		± .06 (± 1,52)					

Model Number Ordering Code									
WR3 - 400 - 10 D T M P N R									
Feature Options:									
Wire Rope Options:									
Mount Bar Options:									
Add "M" for Metric									
Threaded Hole Options:									
Mounting Options:									
Number of Loops:									
Isolator Size:									

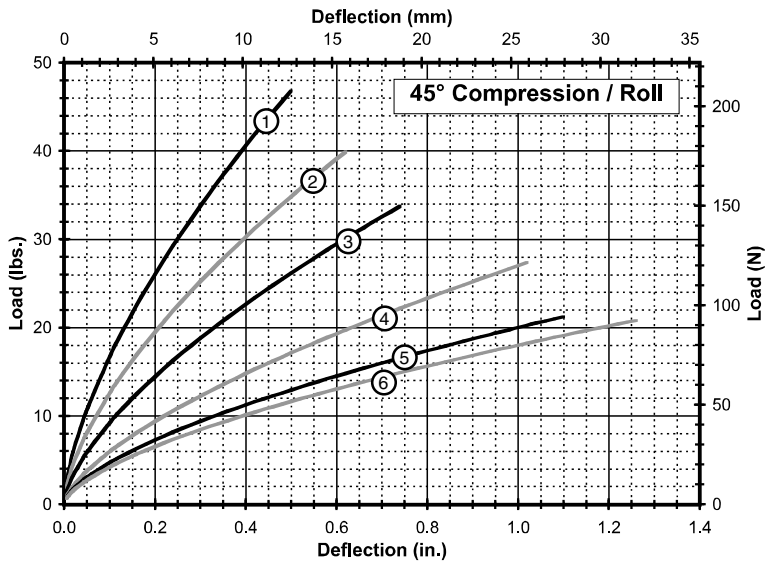
Mounting Options		
Thru A C'sink	C'sink B C'sink	Thru C Thread
Thread D Thread	Thread E C'sink	Thru S Thru
• Maximum recommended torque for standard threaded insert is 8 in.-lbs. (0,9 Nm)		
• Operating Temperature Range: -150°F to 500°F (-100°C to 260°C)		
• U.S. Patent 5,549,285		

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

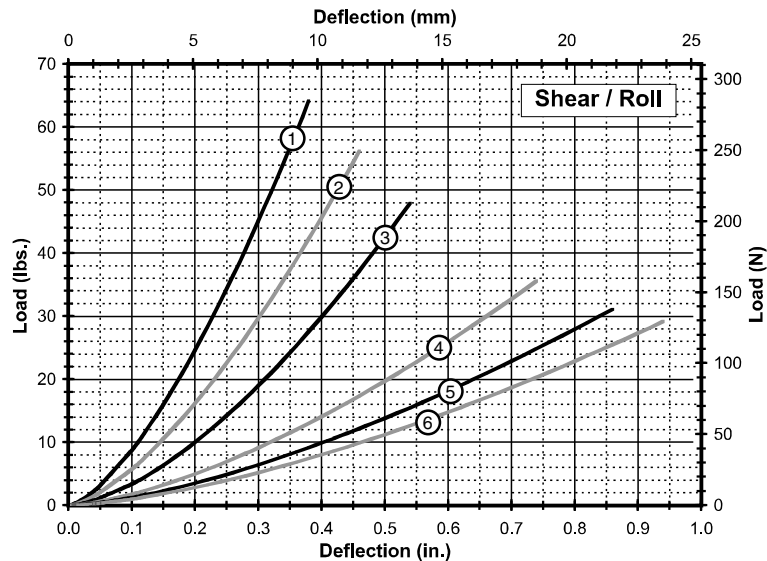
Technical Data



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)



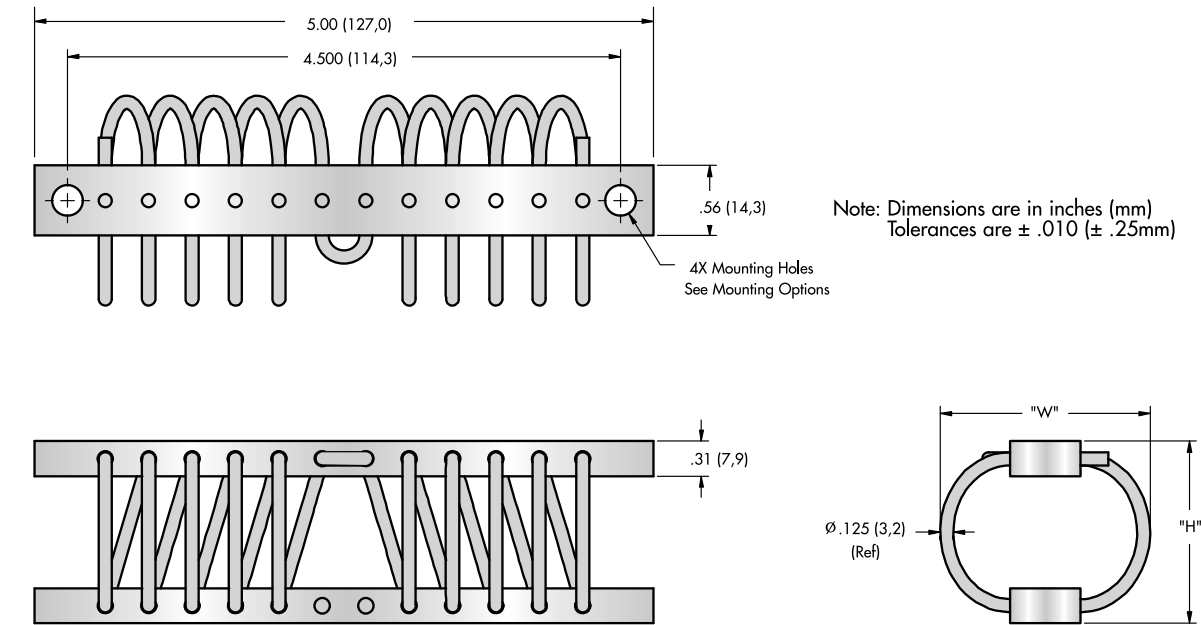
Curve	Model	Max Static Load Lbs. (N)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	WR3-100-10	14 (62)	0.50 (12,7)	215 (38)	115 (20)
2	WR3-200-10	12 (53)	0.62 (15,7)	160 (28)	80 (14)
3	WR3-400-10	10 (44)	0.74 (18,8)	120 (21)	55 (9,6)
4	WR3-600-10	8 (36)	1.02 (25,9)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



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.

Technical Data



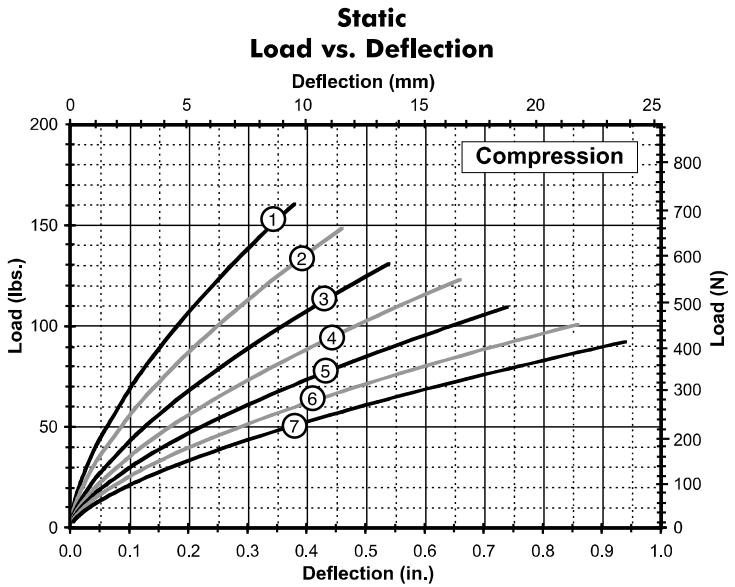
Size	Height "H" in. (mm)		Width (Ref) "W" in. (mm)	Unit Weight Lbs. (Kg)	Mounting Options	Thru Hole in. (mm)	Thread in. (mm)	C'sink Imperial (Metric)
WR4-100	1.10 (28)	± .06 (± 1,52)	1.40 (36)	0.26 (0,12)	B, D, E	ø .272± .005 (ø 6,9± 0,13)	1/4-20 UNC (M6 X 1,0)	82° (90°)
WR4-200	1.20 (30)		1.50 (38)	0.26 (0,12)				
WR4-400	1.30 (33)		1.60 (41)	0.29 (0,13)	A, B, C, D, E, S			
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									
WR4 - 400 - 10 D T M P N R									
				Feature Options:					
				[R] - Bellmouth Mount Bars					
				Wire Rope Options:					
				[G] - Galvanized Steel					
				[N] - Nylon Coated Stainless Steel					
				Mount Bar Options:					
				[Y] - 6061-T6 AL ALY (or Equiv.)					
				Anodized					
				[P] - 302/304 Stainless Steel (or Equiv.)					
				Passivated					
				Add "M" for Metric					
				For C'sink and Threaded Options					
				Threaded Hole Options:					
				[H] - Helical Insert, Free Running					
				[L] - Helical Insert, Self Locking					
				[T] - Tapped					
				Mounting Options:					
				See Chart					
				Number of Loops:					
				10 (Reduced Number of Loops Available)					
				Isolator Size:					
				See Sizing Table					

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

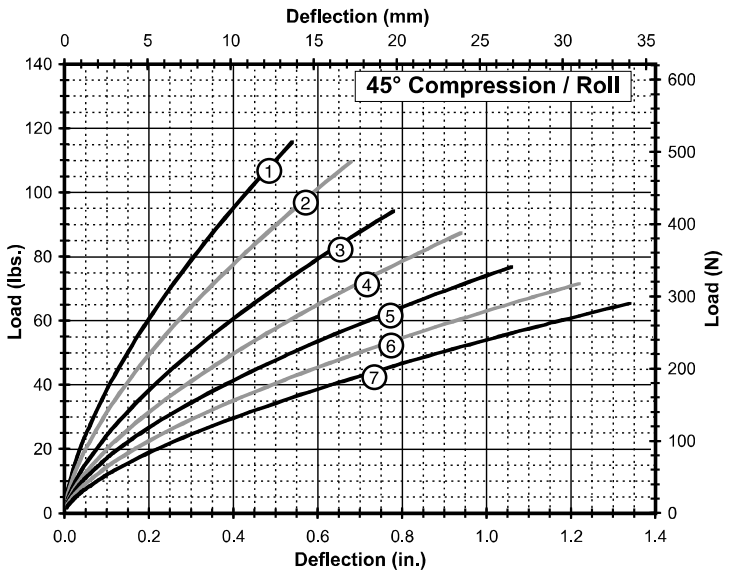
Mounting Options		
• Maximum recommended torque for standard threaded insert is 36 in.-lbs. (3,7 Nm) • Operating Temperature Range: -150°F to 500°F (-100°C to 260°C) • U.S. Patent 5,549,285		

Technical Data



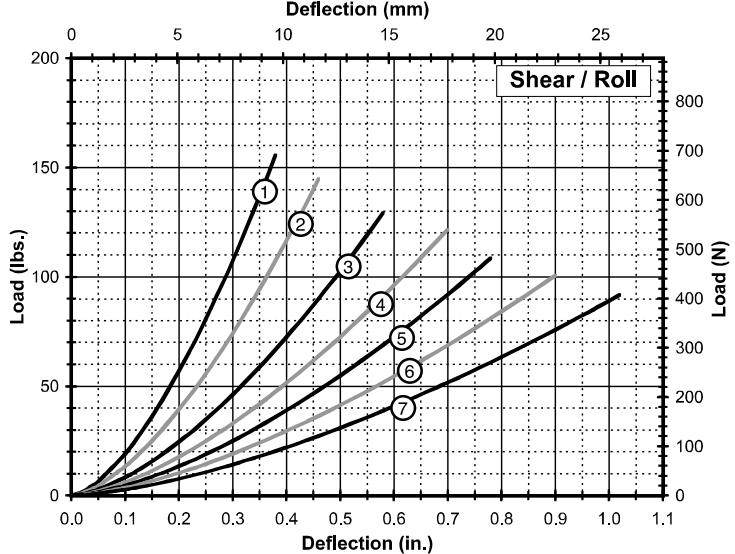
Compression

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)

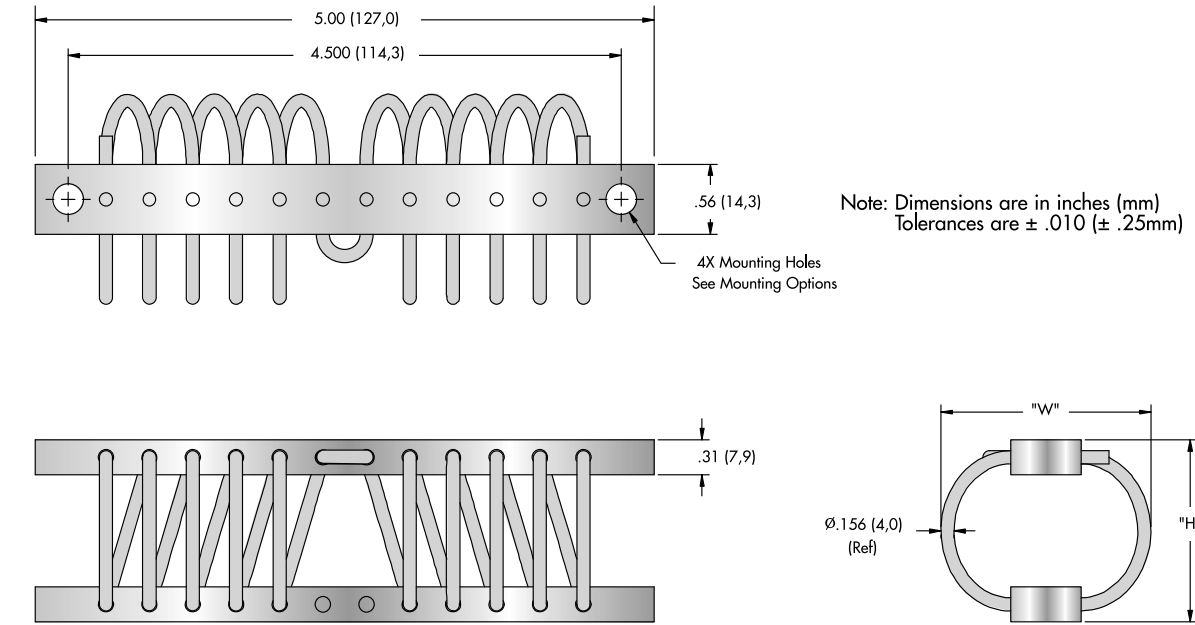


Shear / Roll

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.

Technical Data

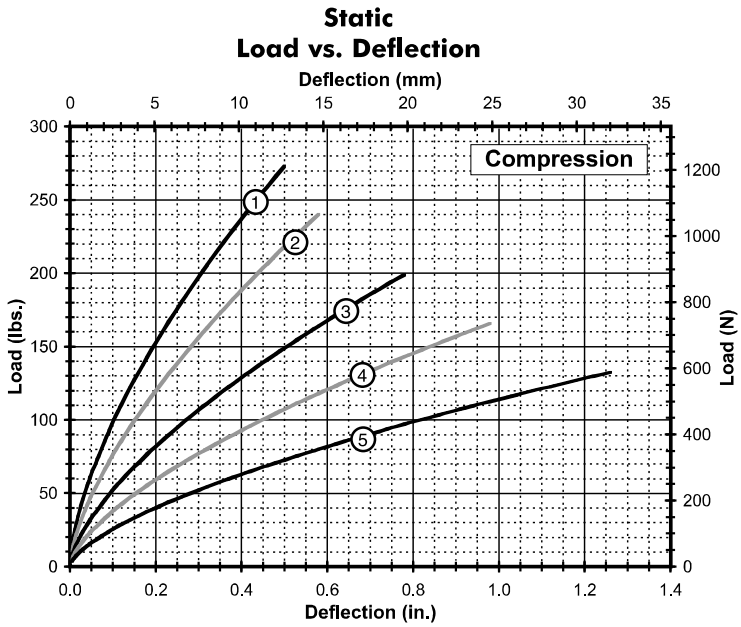


Size	Height "H" in. (mm)		Width (Ref) "W" in. (mm)	Unit Weight Lbs. (Kg)	Mounting Options	Thru Hole in. (mm)	Thread in. (mm)	C'sink Imperial (Metric)
WR5-200	1.20 (30)	± .06 (± 1,52)	1.60 (41)	0.33 (0,15)	B, D, E	ø .272 ± .005 (ø 6,9 ± 0,13)	1/4-20 UNC (M6 X 1,0)	82° (90°)
WR5-400	1.30 (33)		1.70 (43)	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)	± .13 (± 3,30)	2.10 (53)	0.38 (0,17)				
WR5-900	2.10 (53)		2.50 (64)	0.39 (0,18)				

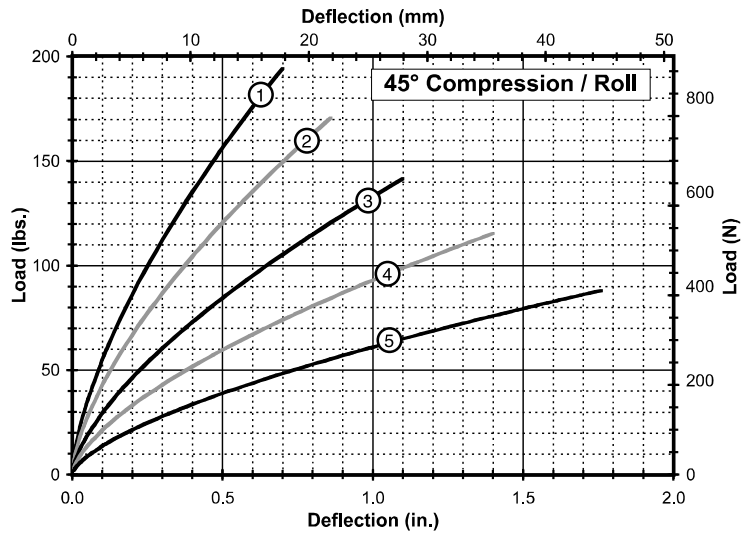
Model Number Ordering Code									
WR5 - 400 - 10 D T M P N R									
Feature Options:									
Wire Rope Options:									
Mount Bar Options:									
Add "M" for Metric									
Threaded Hole Options:									
Mounting Options:									
Number of Loops:									
Isolator Size:									

Mounting Options		
Thru A C'sink	C'sink B C'sink	Thru C Thread
Thread D Thread	Thread E C'sink	Thru S Thru
• 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		

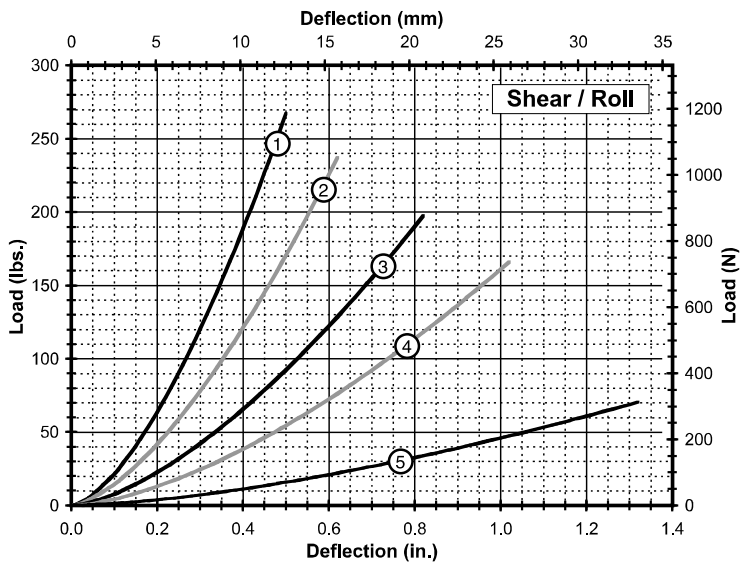
Technical Data



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)



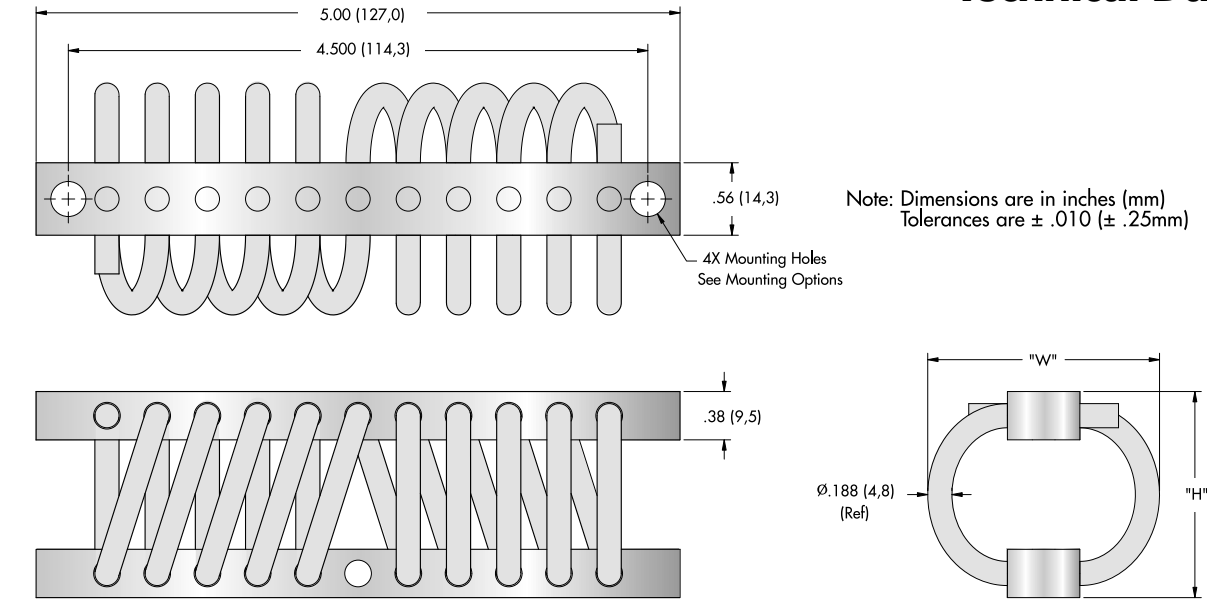
Curve	Model	Max Static Load Lbs. (N)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	WR5-200-10	57 (254)	0.70 (17,8)	700 (123)	340 (60)
2	WR5-400-10	49 (218)	0.86 (21,8)	550 (96)	240 (42)
3	WR5-600-10	41 (182)	1.10 (27,9)	375 (66)	160 (28)
4	WR5-800-10	34 (151)	1.40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



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.

Technical Data



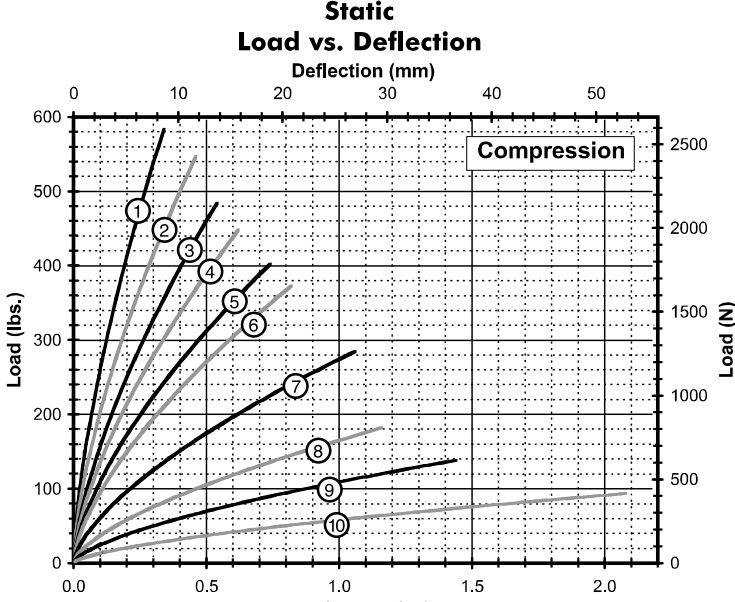
Size	Height "H" in. (mm)	Width (Ref) "W" in. (mm)	Unit Weight Lbs. (Kg)	Mounting Options	Thru Hole in. (mm)	Thread in. (mm)	C'sink Imperial (Metric)	
WR6-200	1.20 (30)	± .06 (± 1,52)	1.40 (36)	0.42 (0,19)	D	ø .272± .005 (ø 6,9± 0,13)	1/4-20 UNC (M6 X 1,0)	82° (90°)
WR6-300	1.30 (33)		1.50 (38)	0.43 (0,20)				
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)	± .13 (± 3,30)	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									
WR6 - 400 - 10 D T M P N R									
Feature Options:									
Wire Rope Options:									
Mount Bar Options:									
Add "M" for Metric									
Threaded Hole Options:									
Mounting Options:									
Number of Loops:									
Isolator Size:									

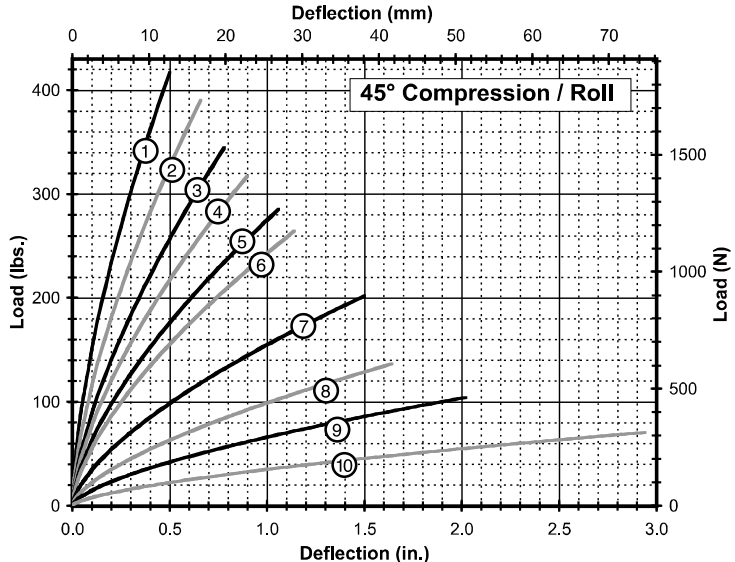
Mounting Options		
Thru A C'sink	C'sink B C'sink	Thru C Thread
Thread D Thread	Thread E C'sink	Thru S Thru
• Maximum recommended torque for standard threaded insert is 38 in.-lbs. (4,3 Nm)		
• Operating Temperature Range: -150°F to 500°F (-100°C to 260°C)		
• U.S. Patent 5,549,285		

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

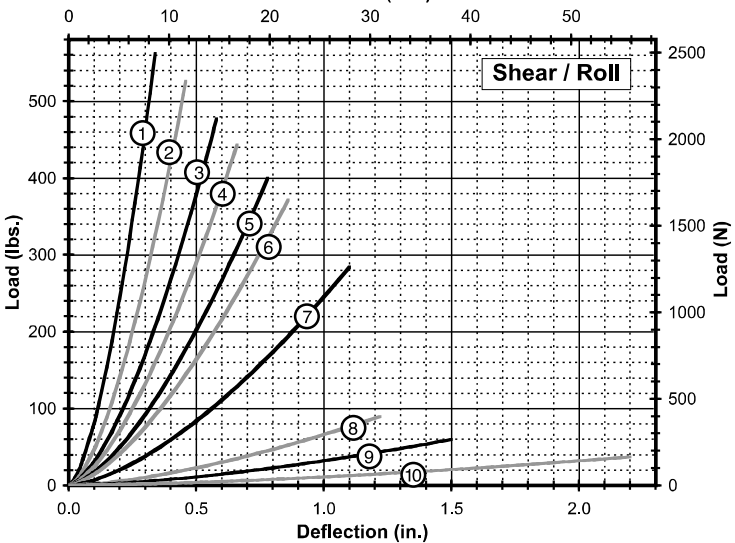
Technical Data



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)



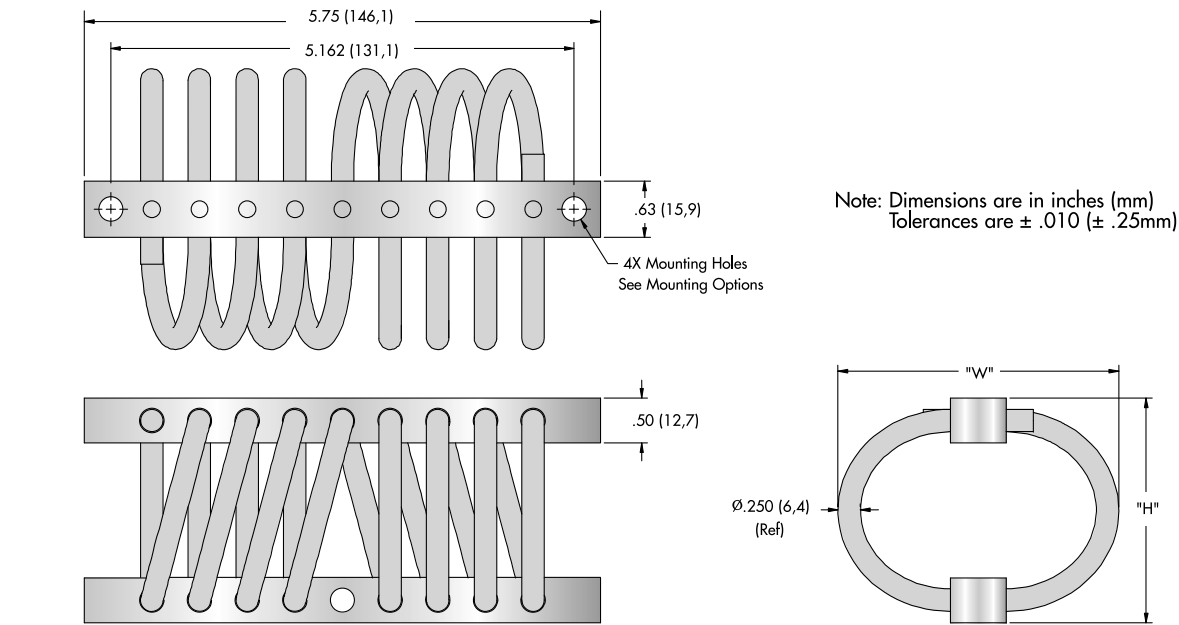
Curve	Model	Max Static Load Lbs. (N)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	WR6-200-10	120 (534)	0.50 (12,7)	1,945 (341)	1,020 (179)
2	WR6-300-10	115 (512)	0.66 (16,8)	1,475 (258)	720 (126)
3	WR6-400-10	97 (432)	0.78 (19,8)	1,125 (197)	530 (93)
4	WR6-500-10	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)



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.

Technical Data



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)	$\pm .10$ ($\pm 2,54$)	0.84 (0,38)	A, B, C, D, E, S	$\varnothing .272 \pm .005$ ($\varnothing 6,9 \pm 0,13$)	1/4-28 UNF (M6 X 1,0)	82° (90°)
WR8-400	2.13 (54)		0.90 (0,41)				
WR8-500	2.31 (59)		0.94 (0,43)				
WR8-600	2.50 (64)		1.04 (0,47)				
WR8-700	2.50 (64)		1.14 (0,52)				
WR8-800	2.63 (67)	$\pm .15$ ($\pm 3,81$)	1.20 (0,54)				
WR8-850	2.63 (67)		1.25 (0,57)				
WR8-900	3.25 (83)		1.30 (0,59)				

Model Number Ordering Code									
WR8 - 400 - 8	D	T	M	P	N	R	Feature Options:		
							Wire Rope Options:		
							Mount Bar Options:		
							Add "M" for Metric		
							Threaded Hole Options:		
							Mounting Options:		
							Number of Loops:		
							Isolator Size:		

Feature Options:
[] - None
[R] - Bellmouth Mount Bars

Wire Rope Options:
[*] - 302/304 Stainless Steel (or Equiv.)
[G] - Galvanized Steel
[N] - Nylon Coated Stainless Steel

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

Add "M" for Metric For C'sink and Threaded Options

Threaded Hole Options:
[*] - Flush Self Clinching Threaded Insert
[H] - Helical Insert, Free Running
[L] - Helical Insert, Self Locking
[T] - Tapped

Mounting Options: See Chart

Number of Loops: 08 (Reduced Number of Loops Available)

Isolator Size: See Sizing Table

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

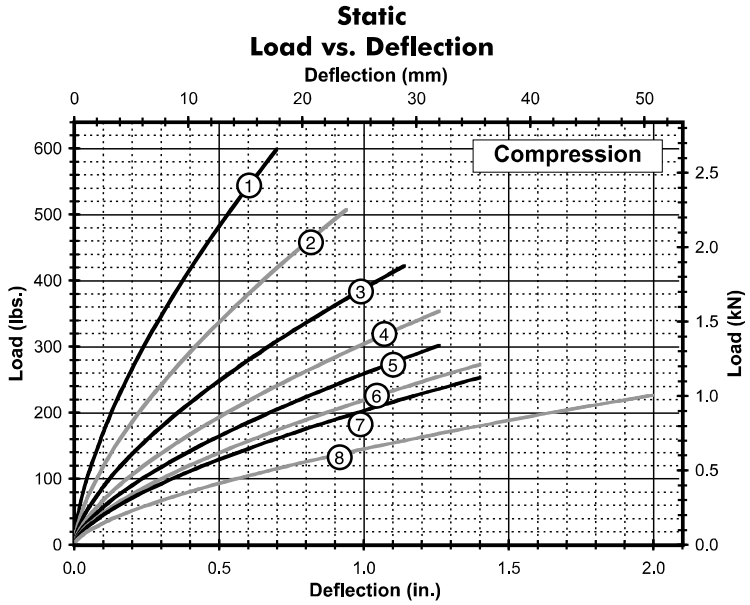
Mounting Options		
Thru A C'sink	C'sink B C'sink	Thru C Thread
Thread D Thread	Thread E C'sink	Thru S Thru

• Maximum recommended torque for standard threaded insert is 38 in.-lbs. (4,3 Nm)

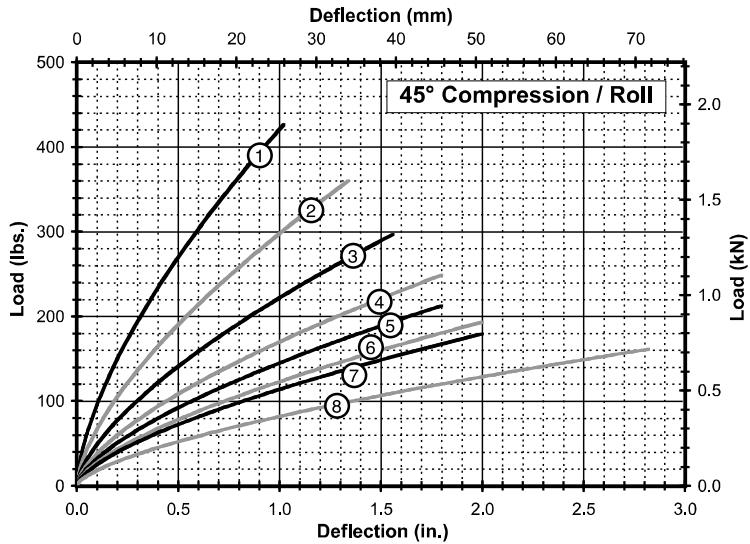
• Operating Temperature Range: -150°F to 500°F (-100°C to 260°C)

• U.S. Patent 5,549,285

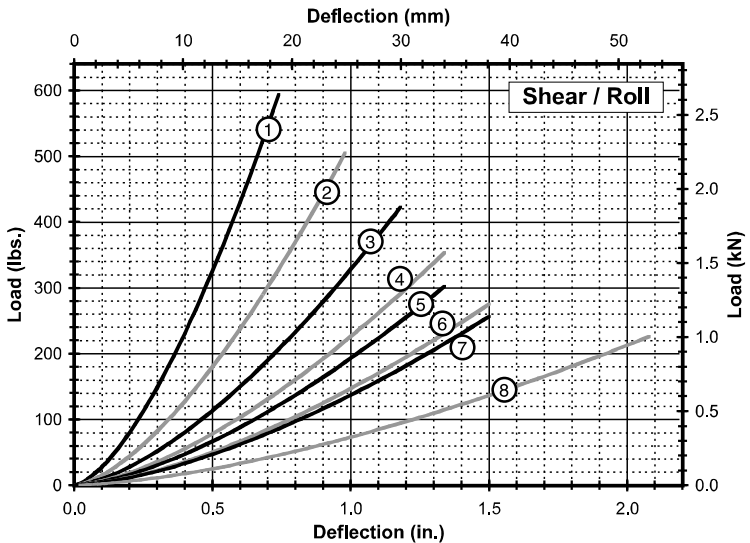
Technical Data



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)



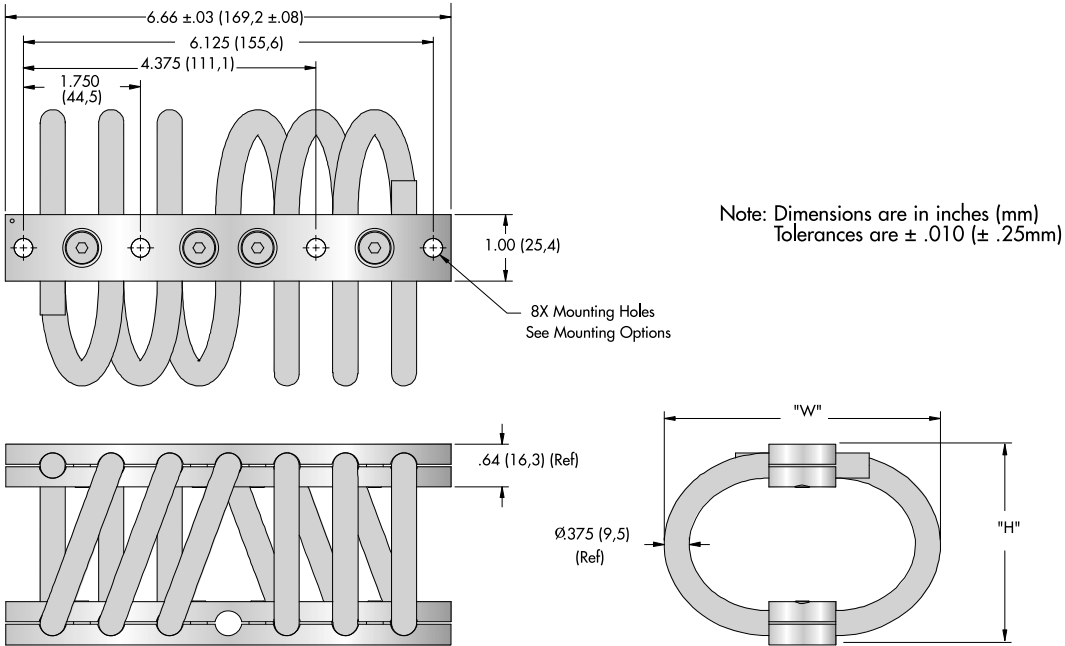
Curve	Model	Max Static Load Lbs. (N)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	WR8-200-08	125 (556)	1.02 (25,9)	1,230 (215)	510 (89)
2	WR8-400-08	105 (467)	1.34 (34,0)	860 (151)	330 (58)
3	WR8-500-08	88 (390)	1.56 (39,6)	625 (109)	230 (40)
4	WR8-600-08	72 (321)	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)



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.

Technical Data



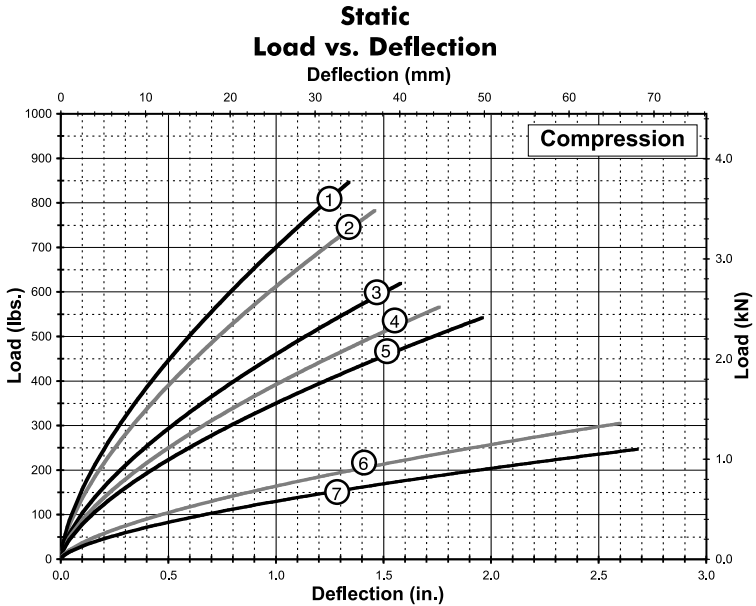
Size	Height "H" in. (mm)	Width (Ref) "W" in. (mm)	Unit Weight Lbs. (Kg)	Mounting Options	Thru Hole in. (mm)	Thread in. (mm)	C'sink Imperial (Metric)
WR12-206	2.80 (71)	3.31 (84)	1.82 (0,83)	A, B, C, D, E, S	$\varnothing .281^{+.005}_{-.015}$ ($\varnothing 7,4^{+0,13}_{-0,38}$)	1/4-28 UNF (M6 X 1,0)	82° (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	P	N	R	
			Feature Options:						
			* [] - None						
			[R] - Bellmouth Mount Bars						
			Wire Rope Options:						
			* [] - 302/304 Stainless Steel (or Equiv.)						
			[G] - Galvanized Steel						
			[N] - Nylon Coated Stainless Steel						
			Mount Bar Options:						
			* [] - 6061-T6 AL ALY (or Equiv.)						
			Chem Conv. Coated						
			[Y] - 6061-T6 AL ALY (or Equiv.)						
			Anodized						
			[P] - 302/304 Stainless Steel (or Equiv.)						
			Passivated						
			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						

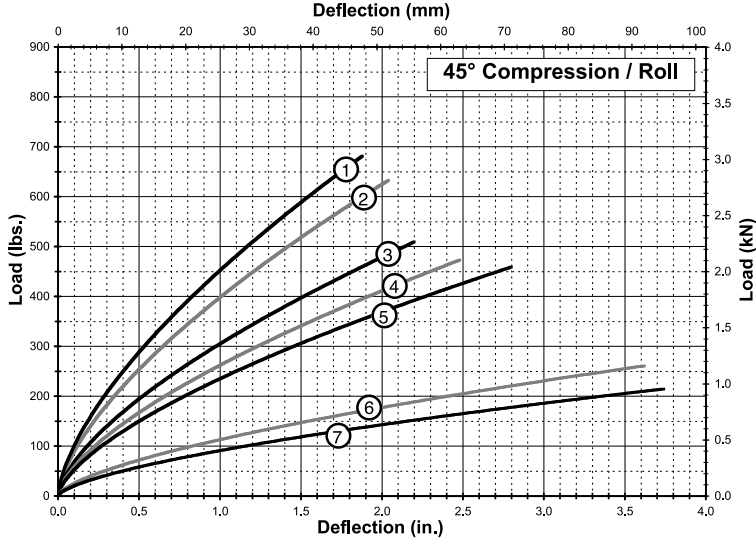
* Standard features. Any non-standard items may require longer lead times. Call for quotation.

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

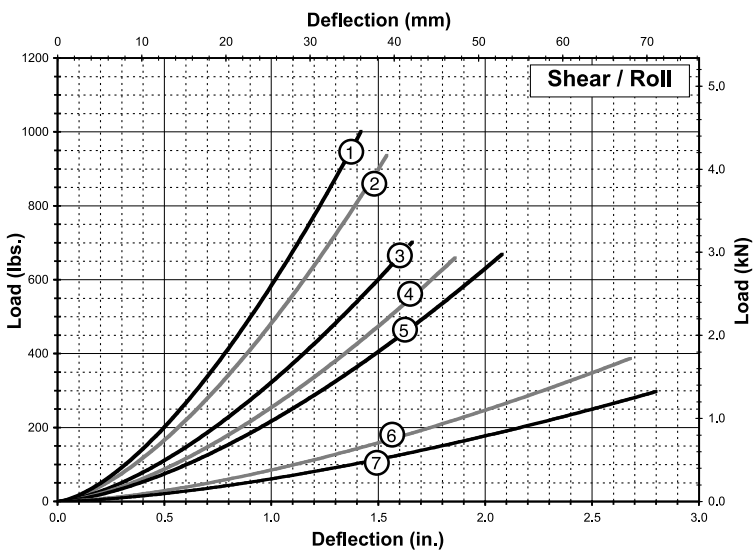
Technical Data



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)



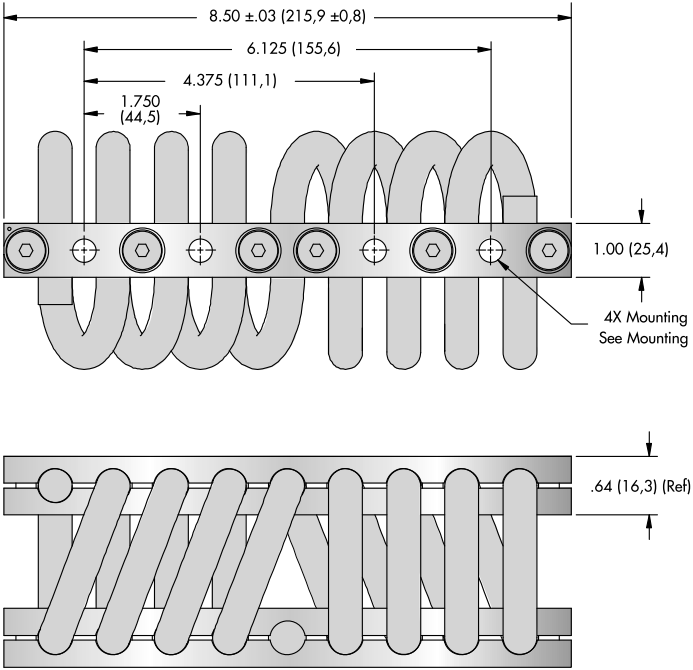
45° Compression/Roll					
Curve	Model	Max Static Load Lbs. (N)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	WR12-206-06	200 (890)	1.88 (47,8)	1,010 (177)	440 (77)
2	WR12-306-06	185 (823)	2.04 (51,8)	890 (156)	380 (67)
3	WR12-406-06	150 (667)	2.20 (55,9)	685 (120)	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.

Technical Data



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	$\varnothing .281^{+.005}_{-.015}$ ($\varnothing 9,0^{+0,13}_{-0,38}$)	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

WR12 - 400 - 8 D H M P N R

Feature Options: [] - None
[R] - Bellmouth Mount Bars

Wire Rope Options: [] - 302/304 Stainless Steel (or Equiv.)
[G] - Galvanized Steel
[N] - Nylon Coated Stainless Steel

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

Add "M" for Metric

Threaded Hole Options: [] - Tapped
[H] - Helical Insert, Free Running
[L] - Helical Insert, Self Locking

Mounting Options: See Chart

Number of Loops: 08 (Reduced Number of Loops Available)

Isolator Size: See Sizing Table

Mounting Options

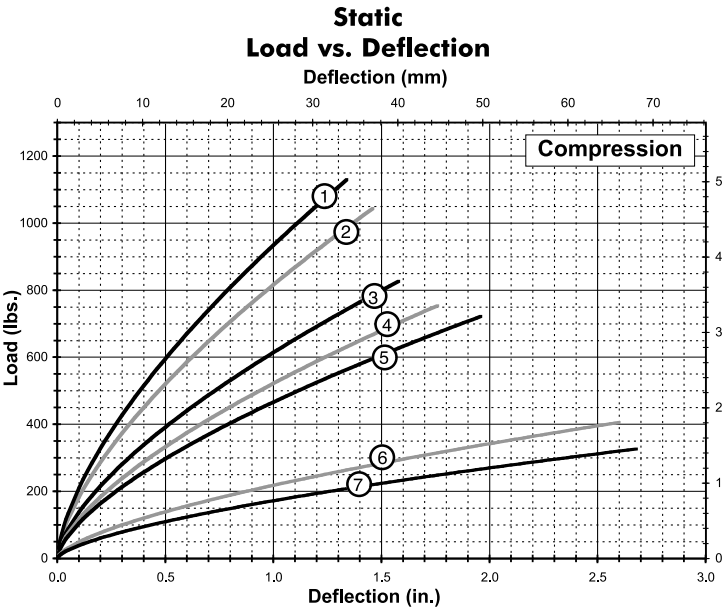
Thru A C'sink Thru C Thread

Thread D Thread E C'sink Thru S Thru

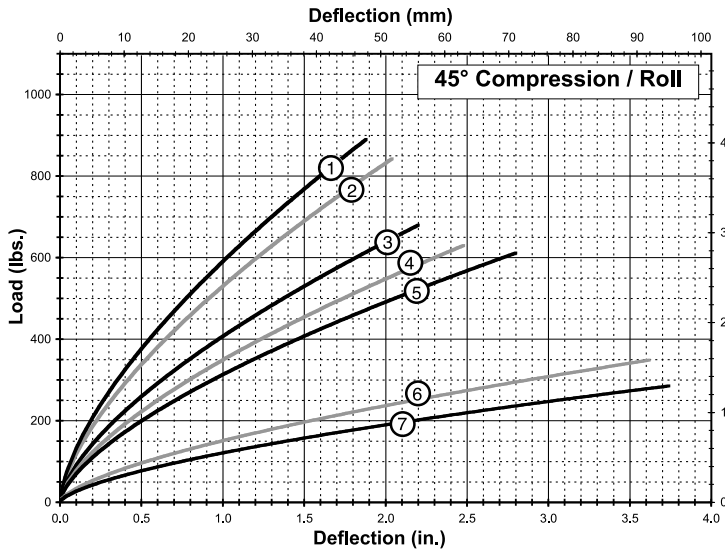
• Maximum recommended torque for threaded bar is 100 in.-lbs. (20 Nm)

• Operating Temperature Range: -150°F to 500°F (-100°C to 260°C)

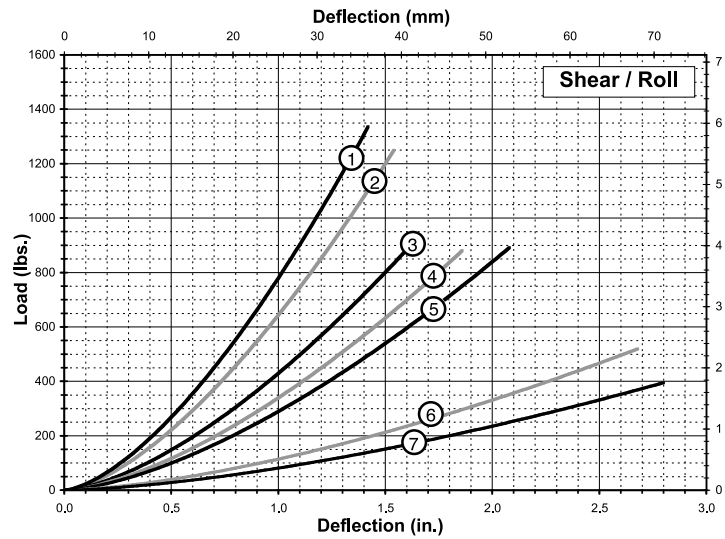
Technical Data



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)



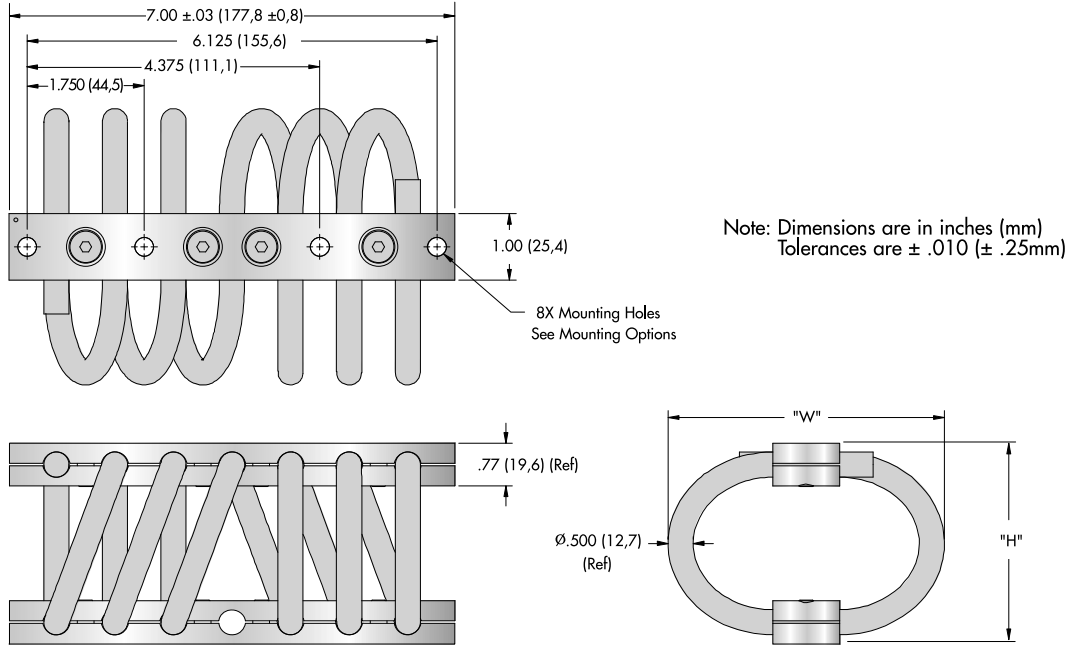
Curve	Model	Max Static Load Lbs. (N)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	WR12-200-08	265 (1 179)	1.88 (47,8)	1,350 (236)	590 (103)
2	WR12-300-08	245 (1 090)	2.04 (51,8)	1,190 (208)	500 (88)
3	WR12-400-08	200 (890)	2.20 (55,9)	910 (159)	370 (65)
4	WR12-500-08	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)



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.

Technical Data



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	Ø .354 ^{+.005} _{-.015} (Ø 9,0 ^{+.013} _{-.038})	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)				

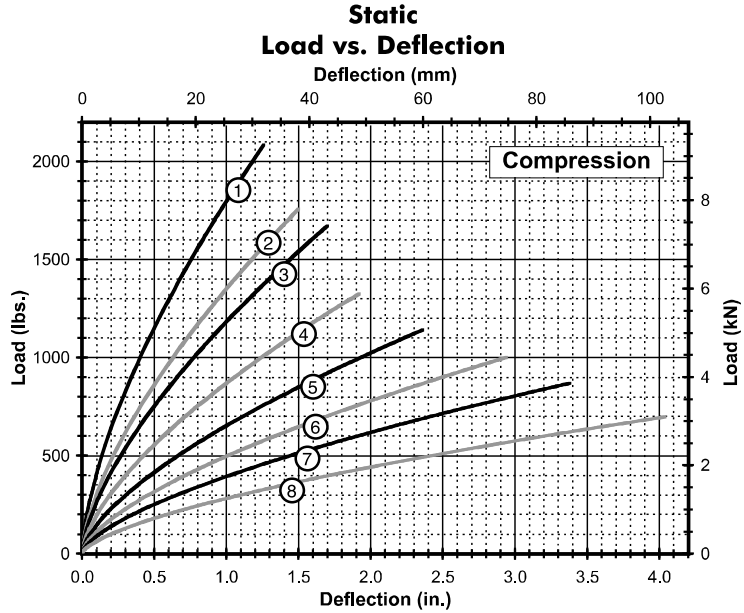
* Tapped M8 x 1.25, Inserts M7 x 1.0

Model Number Ordering Code									
WR16 - 406 - 6 D H M P N R									
Feature Options:									
Wire Rope Options:									
Mount Bar Options:									
Add "M" for Metric									
Threaded Hole Options:									
Mounting Options:									
Number of Loops:									
Isolator Size:									

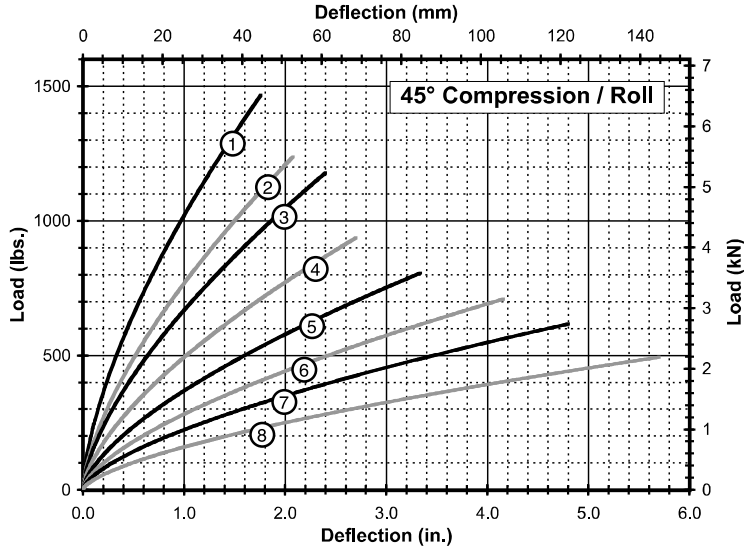
Mounting Options		
• Maximum recommended torque for threaded bar is 115 in.-lbs. (20 Nm)		
• Operating Temperature Range: -150°F to 500°F (-100°C to 260°C)		

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

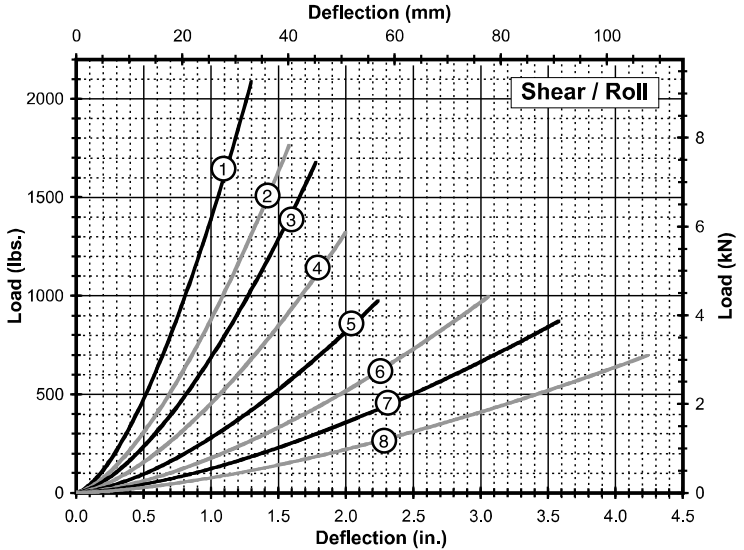
Technical Data



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)



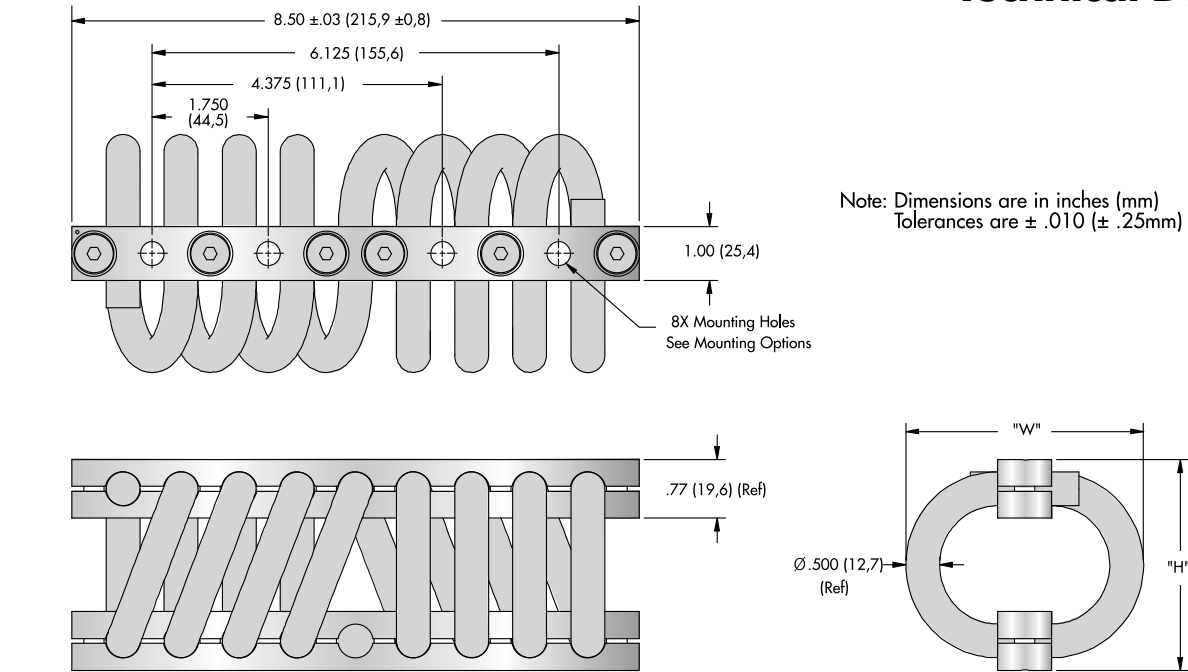
Curve	Model	Max Static Load Lbs. (N)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	WR16-206-06	435 (1 935)	1.76 (44,7)	2,310 (405)	1,010 (177)
2	WR16-306-06	365 (1 624)	2.08 (52,8)	1,700 (298)	720 (126)
3	WR16-406-06	345 (1 535)	2.40 (61,0)	1,500 (263)	600 (105)
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)



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.

Technical Data



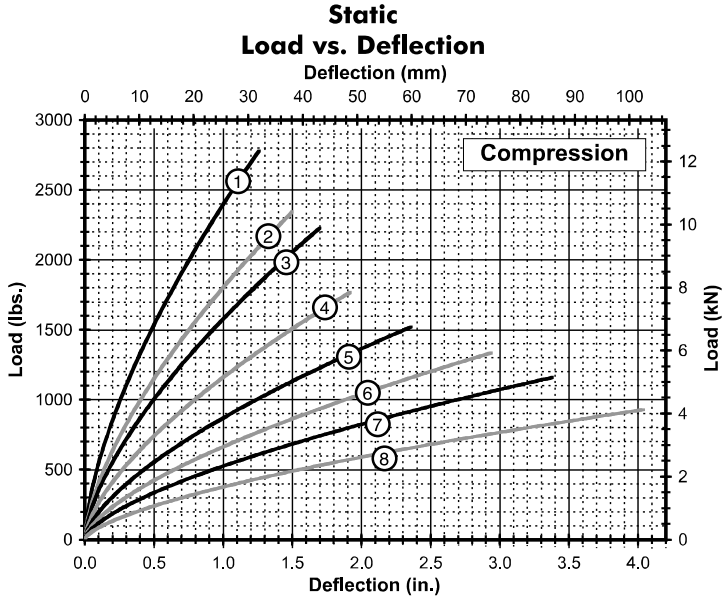
Size	Height "H" in. (mm)	Width (Ref) "W" in. (mm)	Unit Weight Lbs. (Kg)	Mounting Options	Thru Hole in. (mm)	Thread in. (mm)	C'sink Imperial (Metric)
WR16-200	3.00 (76)	3.63 (92)	4.00 (1,81)	A, B, C, D, E, S	ø.354 +.005 -.015 (ø 9.0 +0.13 -0.38)	1/4-28 UNF (M8 X 1,25)	82° (90°)
WR16-300	3.25 (83)	4.00 (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

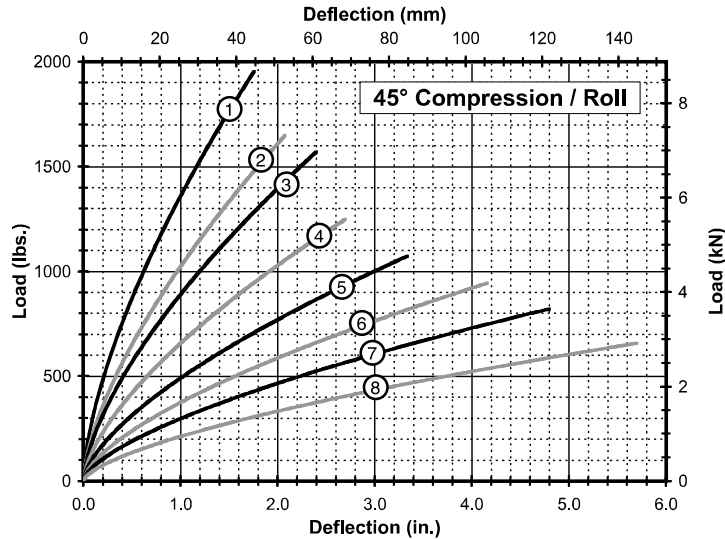
Model Number Ordering Code									
WR16	-400	-8	D	H	M	P	N	R	
Feature Options:									
Wire Rope Options:									
Mount Bar Options:									
Add "M" for Metric									
Threaded Hole Options:									
Mounting Options:									
Number of Loops:									
Isolator Size:									

Mounting Options		
Thru A C'sink	C'sink B C'sink	Thru C Thread
Thread D Thread	Thread E C'sink	Thru S Thru
• 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)		

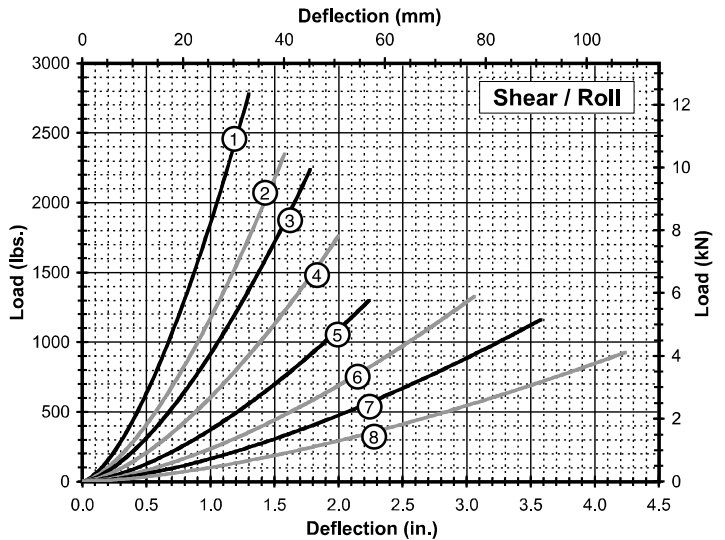
Technical Data



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)



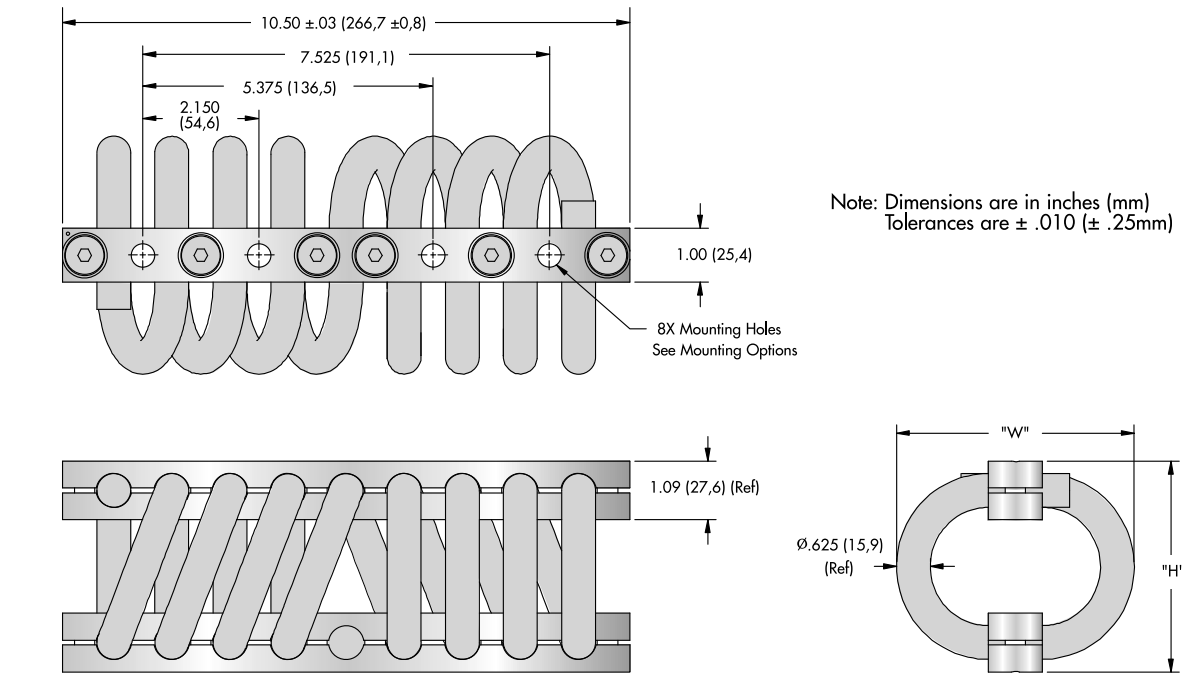
Curve	Model	Max Static Load Lbs. (N)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	WR16-200-08	580 (2 580)	1.76 (44,7)	3,080 (539)	1,350 (236)
2	WR16-300-08	485 (2 157)	2.08 (52,8)	2,270 (398)	960 (168)
3	WR16-400-08	460 (2 046)	2.40 (61,0)	1,990 (349)	790 (138)
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)



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.

Technical Data

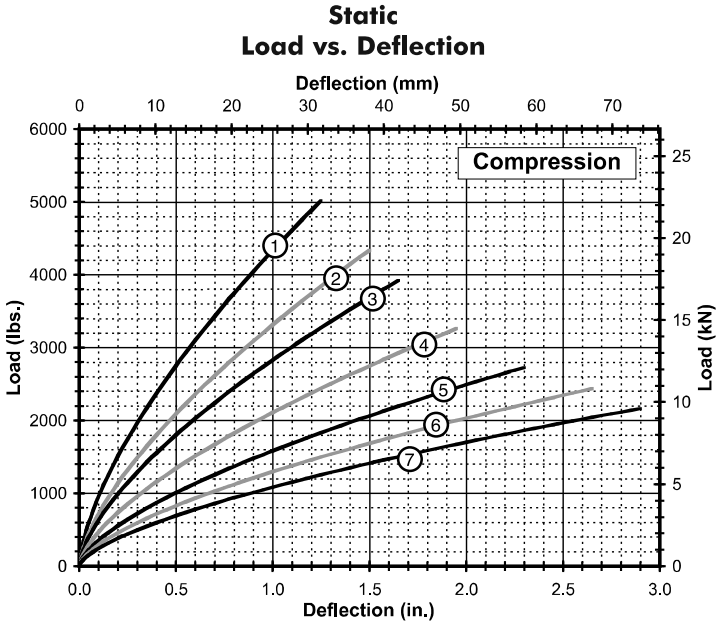


Size	Height "H" in. (mm)	Width (Ref) "W" in. (mm)	Unit Weight Lbs. (Kg)	Mounting Options	Thru Hole in. (mm)	Thread in. (mm)	C'sink Imperial (Metric)
WR20-200	3.50 (89)	± .13 (± 3,30)	4.00 (102)	C, D	Ø .433 ⁺ .005 _{-.015} (Ø 11,0 ⁺ 0,13 _{-0,38})	3/8-24 UNF (M10 X 1,5)	82° (90°)
WR20-300	3.90 (99)		4.40 (112)				
WR20-400	4.00 (102)		4.75 (121)				
WR20-600	4.30 (109)		5.31 (135)				
WR20-700	4.70 (119)		6.00 (152)				
WR20-800	5.00 (127)		6.50 (165)				
WR20-900	5.30 (135)		7.00 (178)				

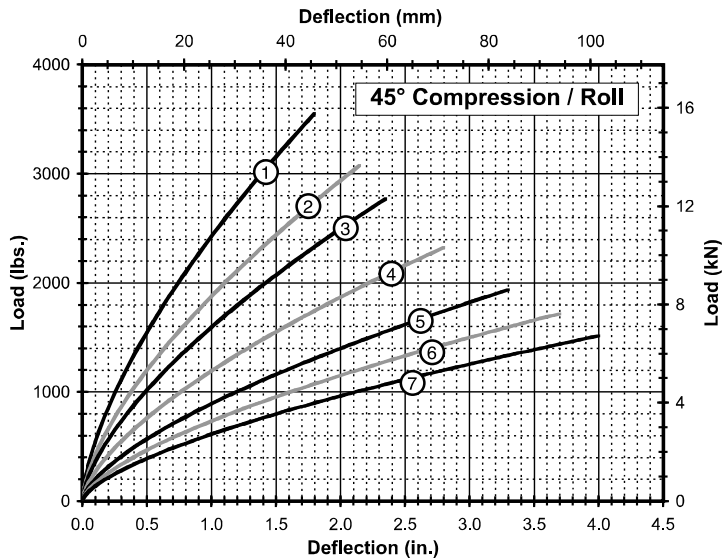
Model Number Ordering Code									
WR20	400	8	D	H	M	P	N	R	
Feature Options:									
Wire Rope Options:									
Mount Bar Options:									
Add "M" for Metric									
Threaded Hole Options:									
Mounting Options:									
Number of Loops:									
Isolator Size:									

Mounting Options		
Thru A C'sink	C'sink B C'sink	Thru C Thread
Thread D Thread	Thread E C'sink	Thru S Thru
• 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)		

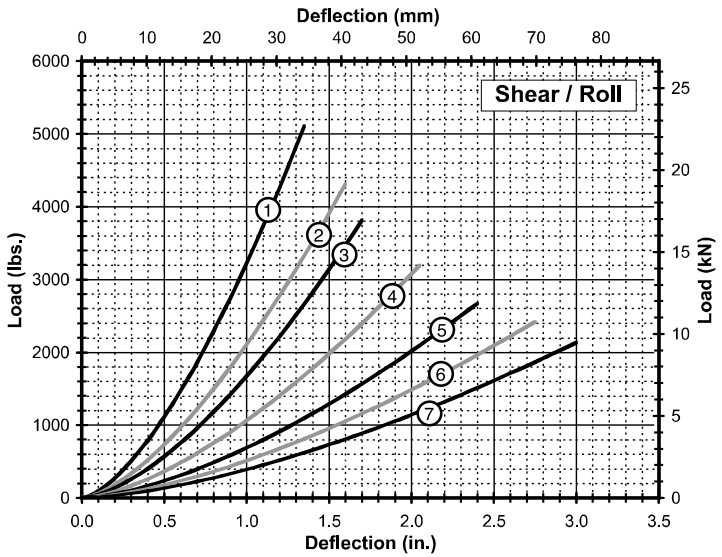
Technical Data



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)



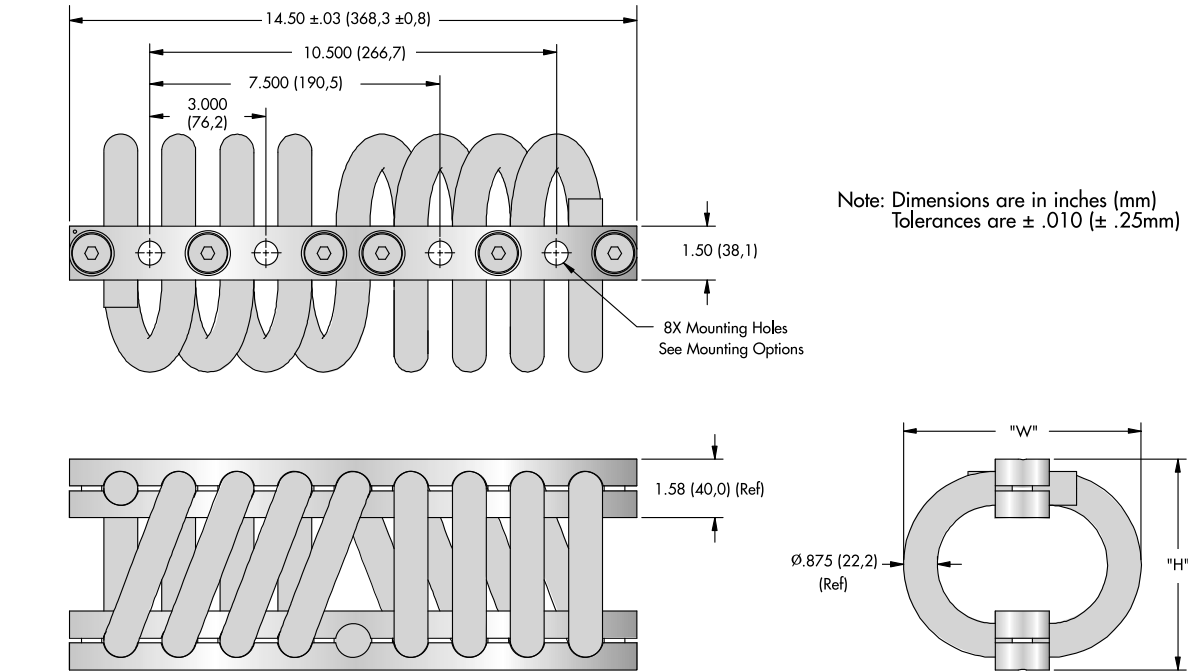
Curve	Model	Max Static Load Lbs. (N)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	WR20-200-08	1,020 (4 537)	1.80 (45,7)	5,430 (951)	2,390 (419)
2	WR20-300-08	895 (3 981)	2.15 (54,6)	4,230 (741)	1,740 (305)
3	WR20-400-08	805 (3 581)	2.35 (59,7)	3,580 (627)	1,430 (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)



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.

Technical Data



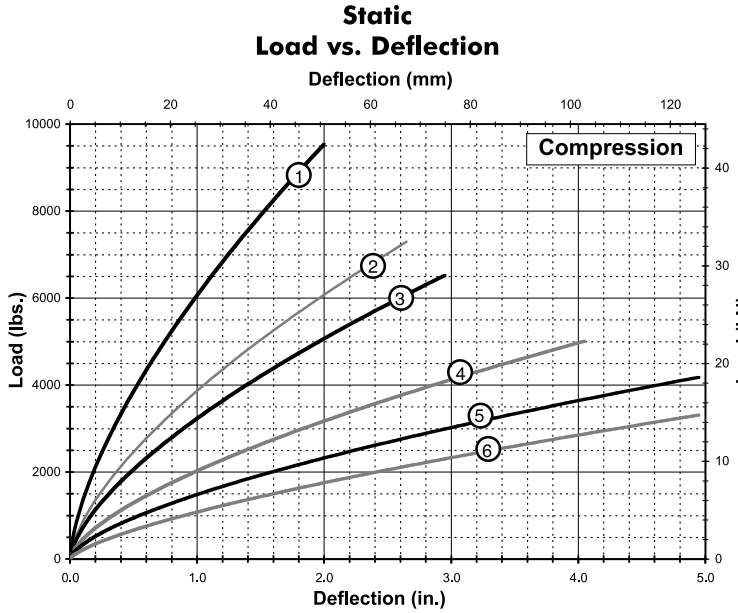
Size	Height "H" in. (mm)	Width (Ref) "W" in. (mm)	Unit Weight Lbs. (Kg)	Mounting Options	Thru Hole in. (mm)	Thread in. (mm)	C'sink Imperial (Metric)	
WR28-200	5.25 (133)	± .25 (± 6,35)	5.50 (140)	18.5 (8,40)	C, D	∅ .531 ⁺ -.005 ⁻ ∅ 13,5 ⁺ 0,13 ⁻ 0,38	1/2-13 UNC (M12 X 1,75)	82° (90°)
WR28-400	6.00 (152)		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									
WR28	-400	-8	D	H	M	P	N	R	
			Feature Options:						
			[] - None						
			[R] - Bellmouth Mount Bars						
			Wire Rope Options:						
			[] - 302/304 Stainless Steel (or Equiv.)						
			[G] - Galvanized Steel						
			[N] - Nylon Coated Stainless Steel						
			Mount Bar Options:						
			[] - 6061-T6 AL ALY (or Equiv.)						
			Chem Conv. Coated						
			[Y] - 6061-T6 AL ALY (or Equiv.)						
			Anodized						
			[P] - 302/304 Stainless Steel (or Equiv.)						
			Passivated						
			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:						
			08 (Reduced Number of Loops Available)						
			Isolator Size:						
			See Sizing Table						

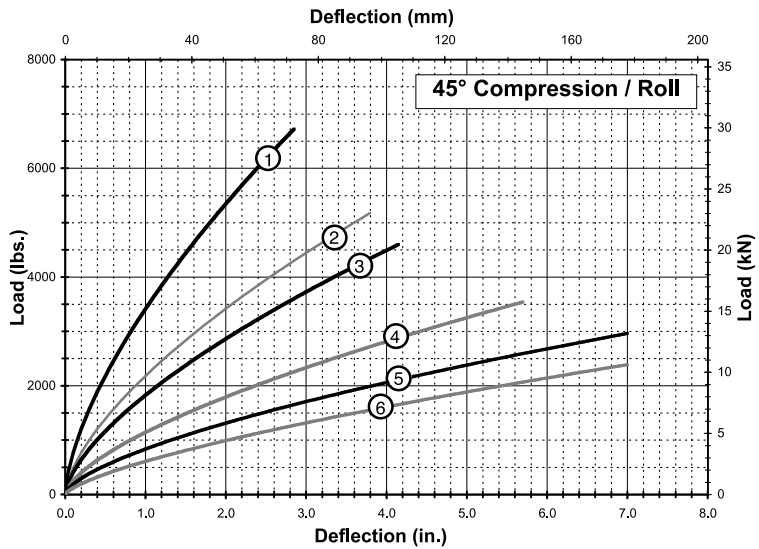
* Standard features. Any non-standard items may require longer lead times. Call for quotation.

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

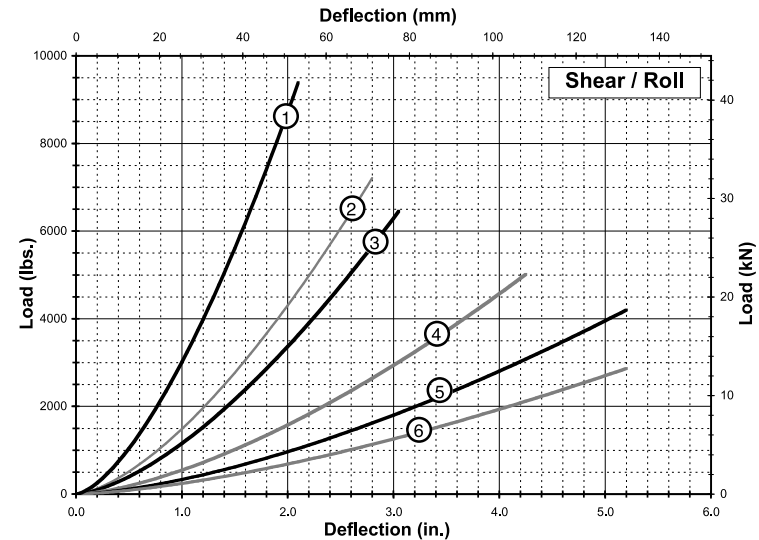
Technical Data



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)



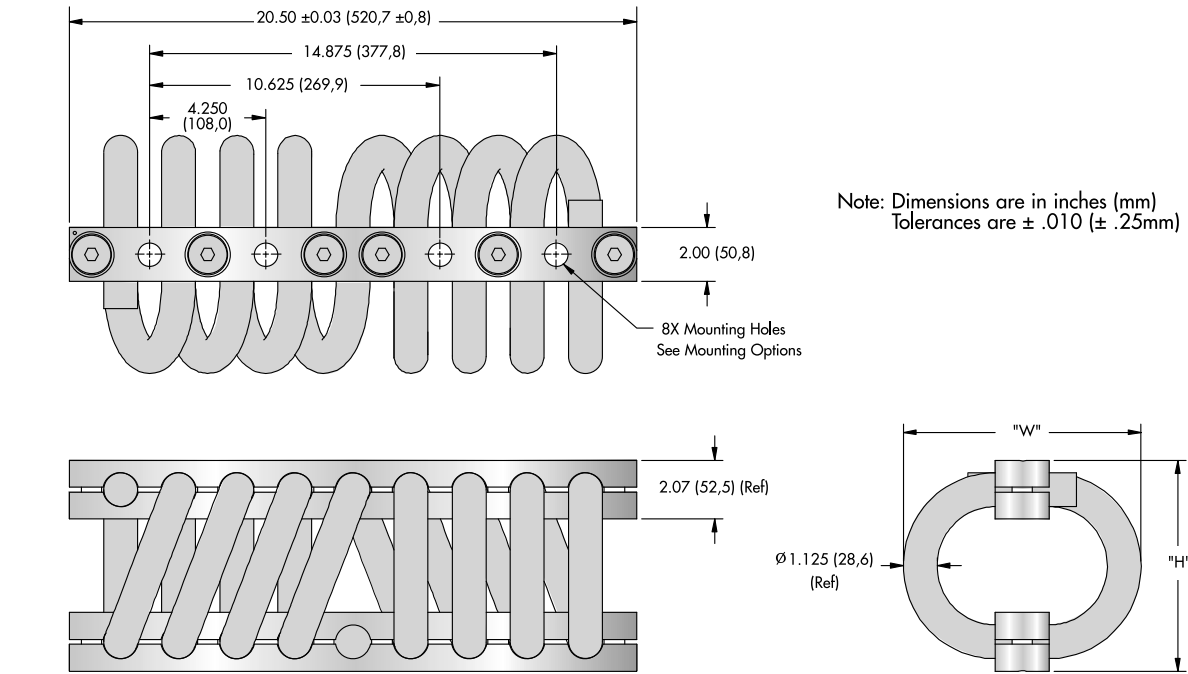
Curve	Model	Max Static Load Lbs. (kN)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	WR28-200-08	1,960 (8,72)	2.85 (72,4)	7,700 (1 348)	2,870 (503)
2	WR28-400-08	1,500 (6,67)	3.80 (96,5)	4,910 (860)	1,650 (289)
3	WR28-600-08	1,350 (6,01)	4.15 (105,4)	4,100 (718)	1,340 (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)



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.

Technical Data

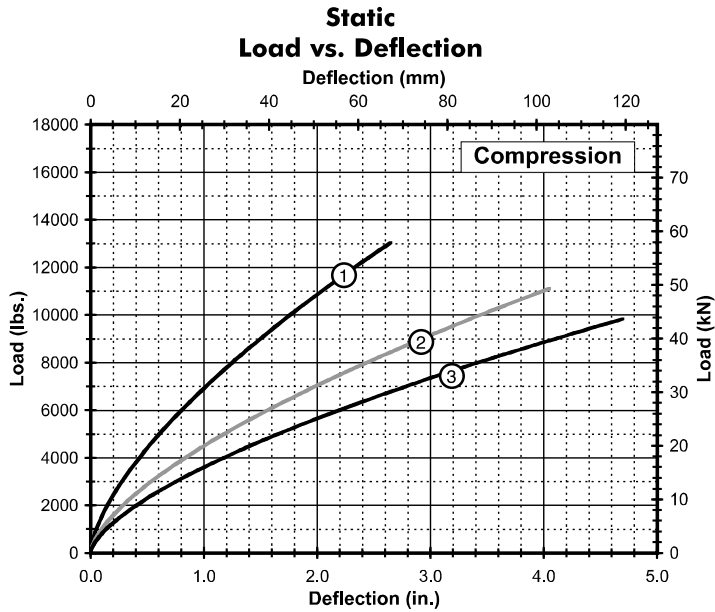


Size	Height "H" in. (mm)	Width (Ref) "W" in. (mm)	Unit Weight Lbs. (Kg)	Mounting Options	Thru Hole in. (mm)	Thread in. (mm)	C'sink Imperial (Metric)
WR36-200	7.00 (178)	8.50 (216)	46 (20,9)	A, B, C, D, E, S	Ø .781 ⁺ _{-.015} (Ø 19.8 ⁺ _{-0,38})	3/4-10 UNC (M18 X 2,5)	82° (90°)
WR36-400	8.50 (216)	9.50 (241)	53 (24,0)				
WR36-600	9.25 (235)	10.25 (260)	55 (25,0)				

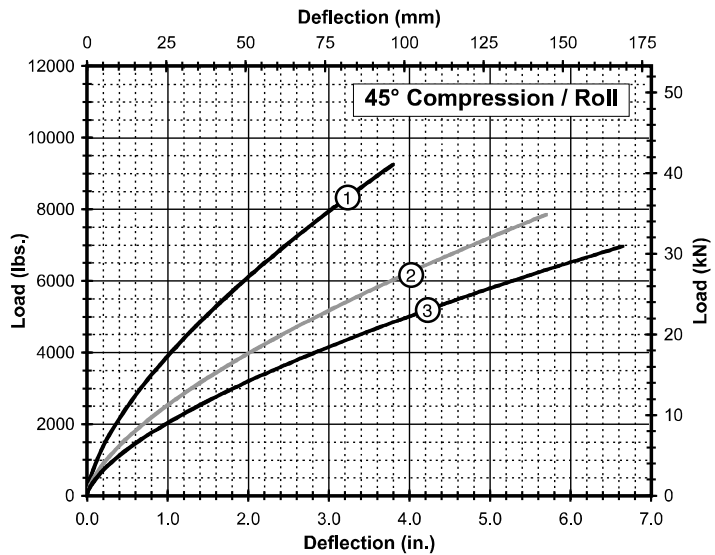
Model Number Ordering Code	
WR36 - 400 - 8	D H M P N R
Feature Options:	
Wire Rope Options:	
Mount Bar Options:	
Add "M" for Metric	
Threaded Hole Options:	
Mounting Options:	
Number of Loops:	
Isolator Size:	

Mounting Options		
Thru A C'sink	C'sink B C'sink	Thru C Thread
Thread D Thread	Thread E C'sink	Thru S Thru
• 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)		

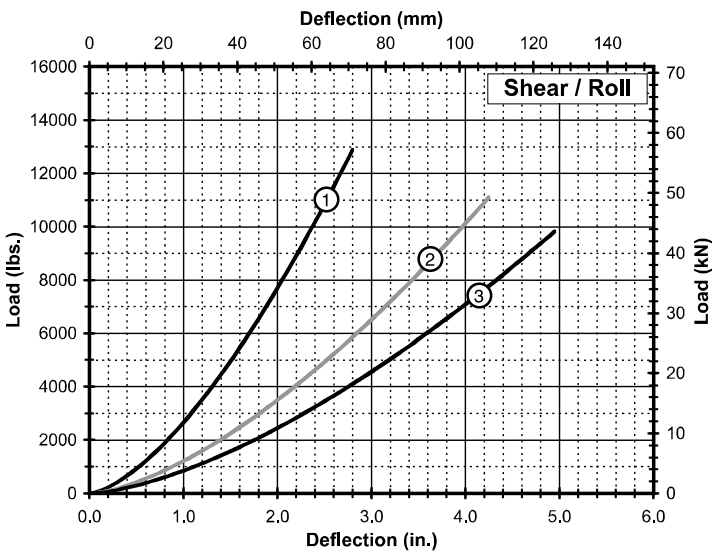
Technical Data



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)



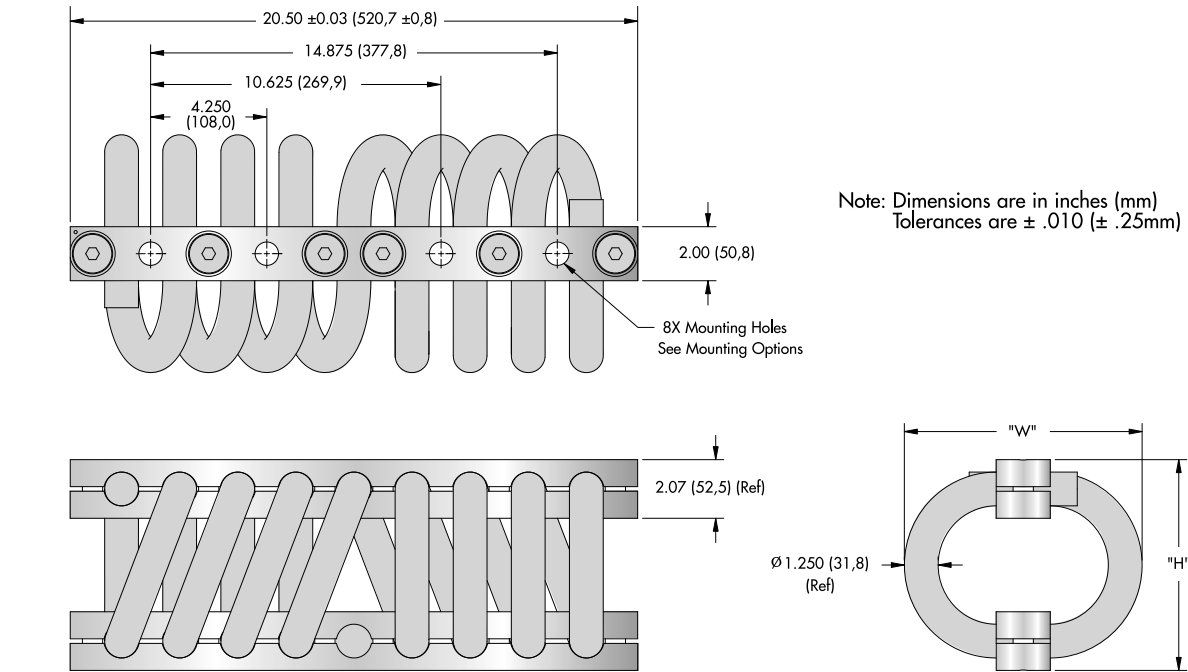
Curve	Model	Max Static Load Lbs. (kN)	Max Deflection in. (mm)	Kv (vibration) Lbs./in. (kN/m)	Ks (shock) Lbs./in. (kN/m)
1	WR36-200-08	2,690 (11,97)	3.80 (96,5)	8,800 (1 541)	2,960 (518)
2	WR36-400-08	2,220 (9,88)	5.70 (144,8)	5,670 (993)	1,670 (292)
3	WR36-600-08	1,790 (7,96)	6.65 (168,9)	4,560 (799)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



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.

Technical Data

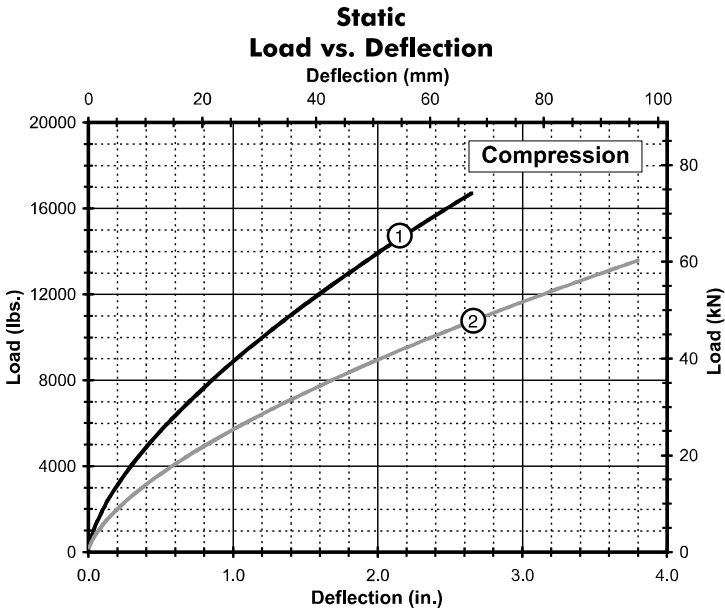


Size	Height "H" in. (mm)		Width (Ref) "W" in. (mm)	Unit Weight Lbs. (Kg)	Mounting Options	Thru Hole in. (mm)	Thread in. (mm)	C'sink Imperia Metric)
WR40-200	7.00 (178)	± .25 (± 6.35)	8.25 (210)	53 (24,0)	A, B, C, D, E, S	ø .781 ^{+.005} _{-.015}	3/4-10 UNC	82°
WR40-400	8.50 (216)		9.75 (248)	60 (27,2)		(ø 19.8 ^{+0,13} _{-0,38})	(M18 X 2,5)	(90°)

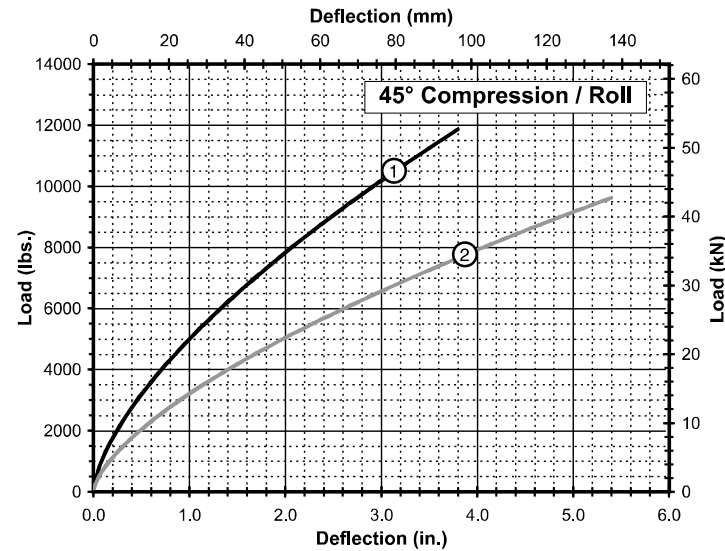
Model Number Ordering Code				
WR40	-400	-8	D	H M P N R
Feature Options:				
Wire Rope Options:				
Mount Bar Options:				
Add "M" for Metric				
Threaded Hole Options:				
Mounting Options:				
Number of Loops:				
Isolator Size:				

Mounting Options		
Thru A C'sink	C'sink B C'sink	Thru C Thread
Thread D Thread	Thread E Thread	Thru S Thread
• Maximum recommended torque for threaded bar is 300 in.-lbs. (300Nm)		
• Operating Temperature Range: -150°F to 500°F (-100°C to 260°C)		

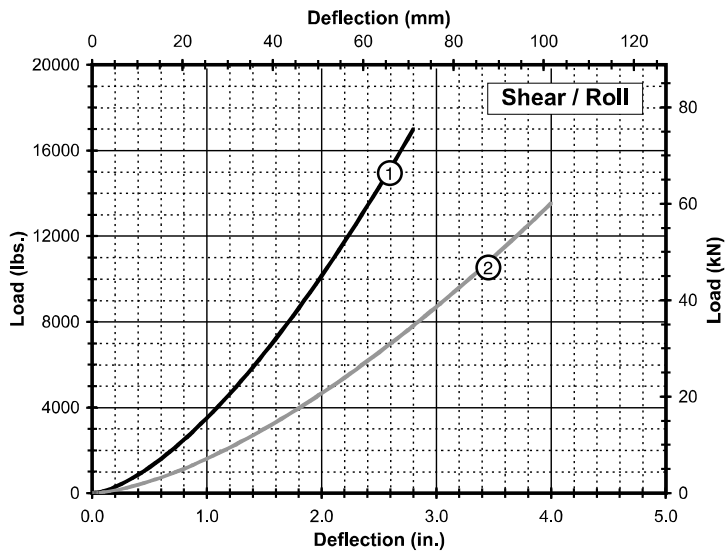
Technical Data



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)



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)



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.