

Wire Rope Isolators

Vibration Control

ACE: Your partner for vibration control,
industrial shock absorbers and gas springs

Special Catalog 2020



Helical Isolator



Square Mount Isolator

Vibration Control

Wire Rope Isolators **NEW**

Vibration-Isolating Pads

Rubber-Metal Isolators

Low Frequency Pneumatic Levelling Mounts

Wire Rope Isolators

Isolation and damping of vibrations

Noise reduction and vibration insulation are becoming increasingly important in our daily lives. Wire rope isolators are ideal for shock and vibration-proof bearings. They also meet the requirements of military assumptions such as MIL specifications.

Due to the great variety in the possible design of wire rope isolators, they can isolate a wide range of different loads from vibration. The WR, WRS and CR families are suitable for masses from a few grams up to several tons and are absolutely maintenance-free.

Wire rope isolators can be used particularly well in areas where other vibration isolators cannot be used due to extreme conditions such as heat or cold, acids, seawater, UV, etc.

Wire rope isolators offer a particularly large usable spring travel, low natural frequencies, low resonance transmission and rapid decay of the amplitude in the event of shocks. Furthermore, there are no signs of fatigue after dynamic overload.

Wire Rope Isolators



WR
Helical Isolator

WR2, WR3, WR4, WR5, WR6A, WR6, WR8, WR10, WR12A, WR12, WR16A, WR16, WR20, WR24, WR28, WR32, WR36, WR40

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WRS
Helical Isolator Short

WRS2, WRS3, WRS4, WRS5, WRS6, WRS6A, WRS8, WRS12, WRS16, WRS20, WRS24, WRS28, WRS32

Page 74 to 125



CR
Square Mount Isolator

CR2, CR3, CR4, CR5, CR6, CR7, CR8

Page 126 to 139

WR2

Helical Isolator

1.59 mm (1/16") Diameter Cable

Features

Rugged all metal construction
Fail safe construction
Long life and maintenance free
Three axis capability (6 dof)
High damping: C/cc $\approx$ 0.15 to 0.20

Operating temperature range

-130°C to +260°C

Material

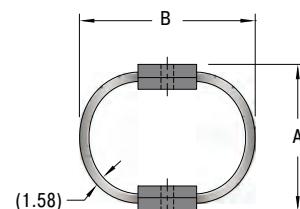
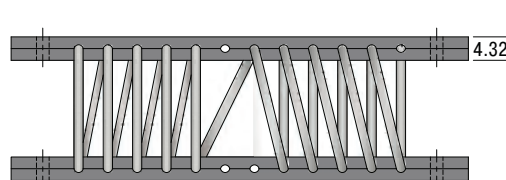
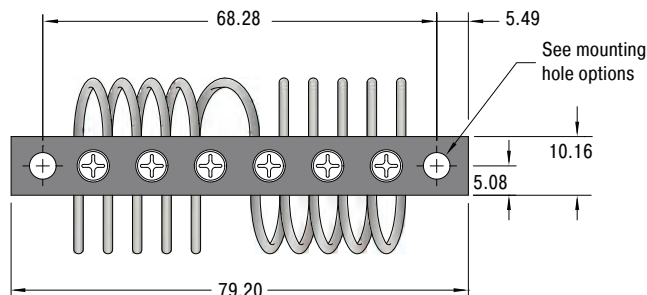
Cable: 300 Series SS per MIL-W-83420 or RR-W-410
Screws: 300 Series SS per MS51959-12
Inserts: 300 Series SS (alum bars only)
Retainer bars: Standard: 6061-T6 Alum alloy/
Chem film IAW MIL-DTL-5541, TYPE II, Class 3

Note

Mounting hole tolerances: ± 0.25 mm
Add 0.03 kg to Isolator weight for all stainless
steel versions

On request

Special materials, size, mounting holes, finish,
etc. available



Performance

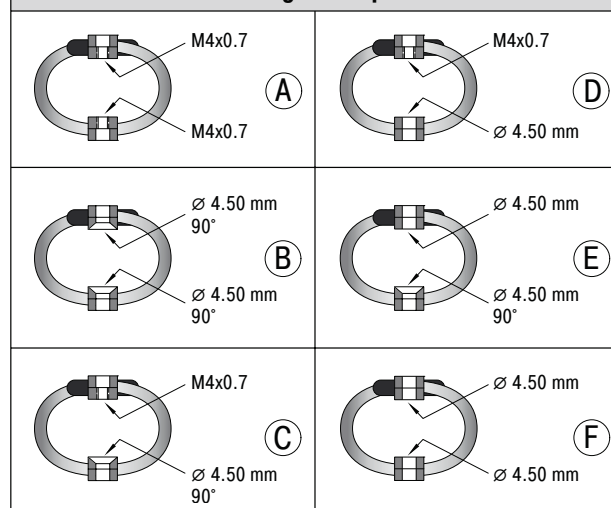
TYPES	A (+/- 0.8) mm	B mm	Compression			Shear/Roll (Average)			Weight kg
			Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	
WR2-018-025-10	17.8	25.4	17	14	7.6	5.6	10	7.6	0.020
WR2-020-028-10	20.3	27.9	15	12	10.2	4.9	8.8	10.2	0.023
WR2-025-031-10	25.4	30.5	8.1	6.5	15.2	1.9	4.7	15.2	0.026
WR2-028-033-10	27.9	33.0	5.3	4.0	17.8	1.4	4.2	17.8	0.028
WR2-031-036-10	30.5	35.6	4.2	3.2	18.3	1.1	3.5	18.3	0.031
WR2-033-038-10	33.0	38.1	3.5	2.5	22.9	0.7	3.2	22.9	0.034

Ordering Example

Type _____
Model size height _____
Model size wide _____
Number of loops _____
Mounting hole _____

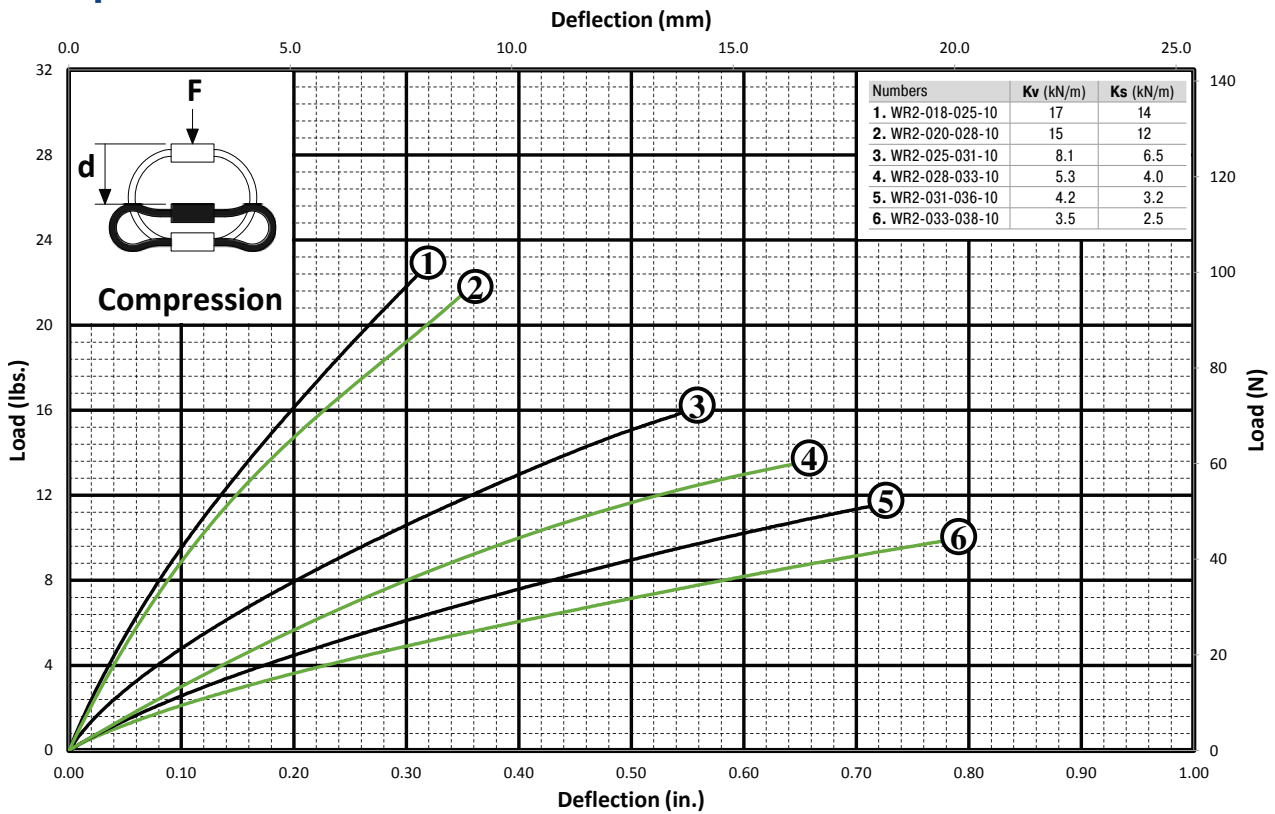
WR2-018-025-10-A

Mounting Hole Options

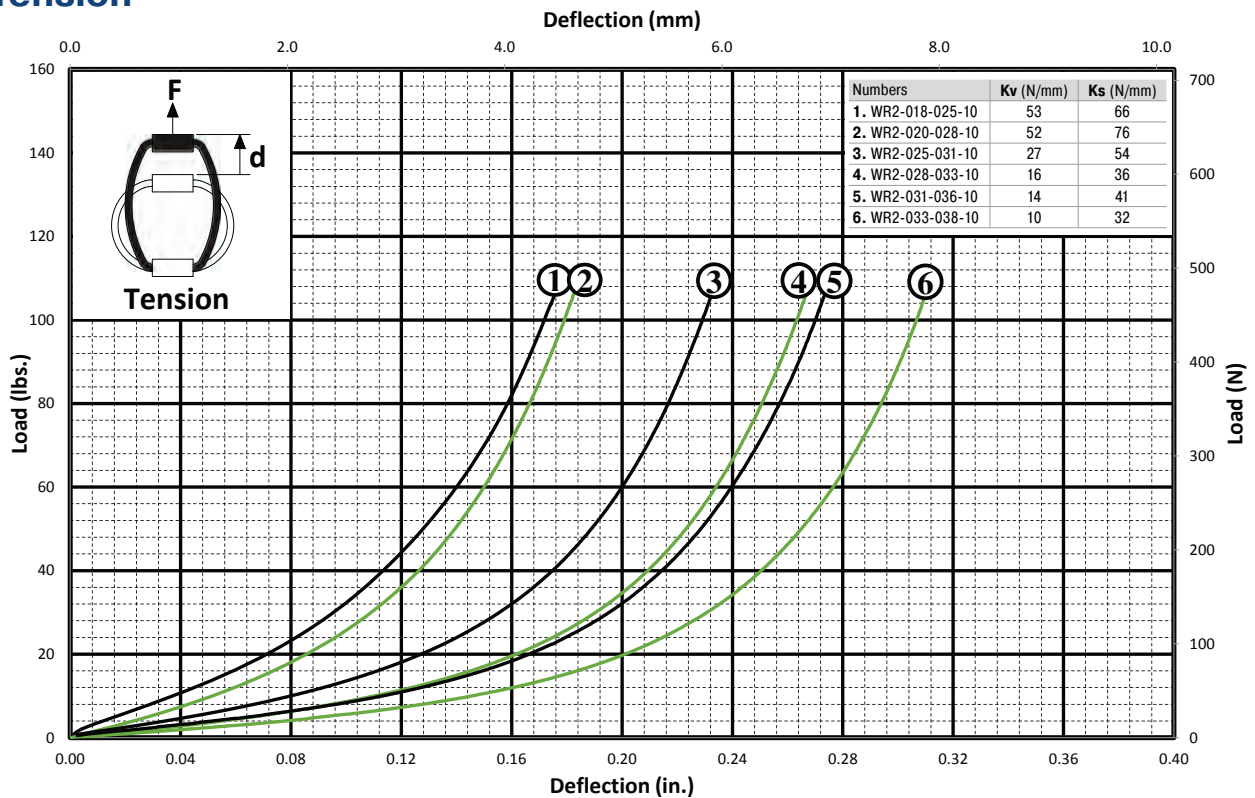


Issue 07/2020 – Specifications subject to change

Compression

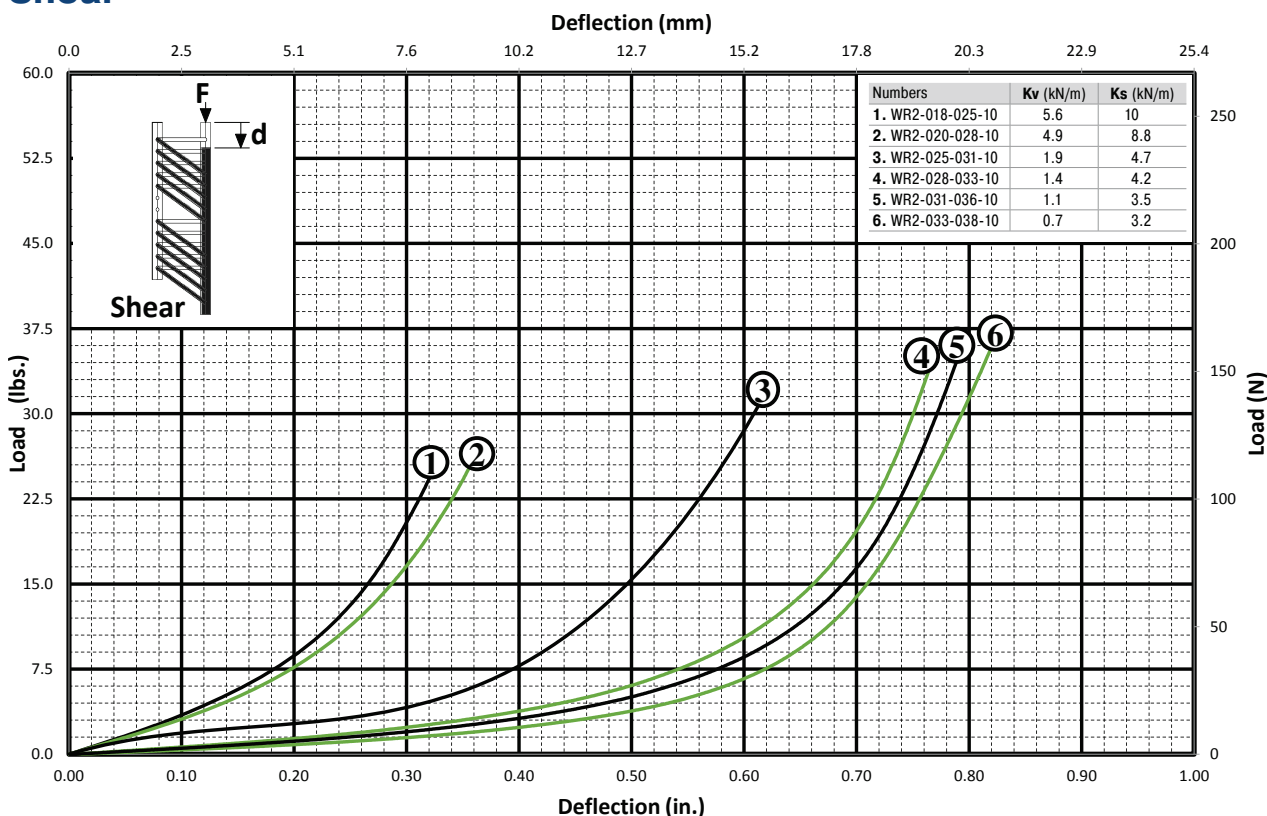


Tension

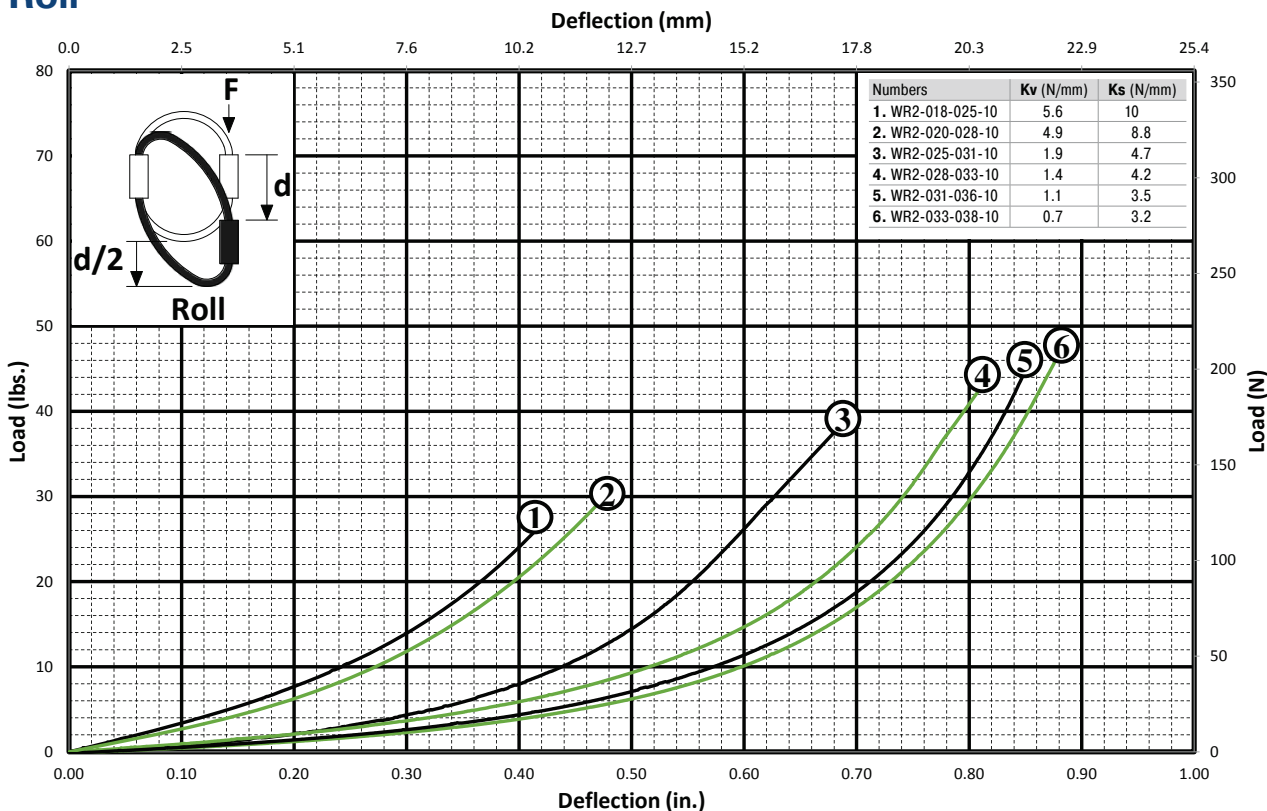


Issue 07/2020 – Specifications subject to change

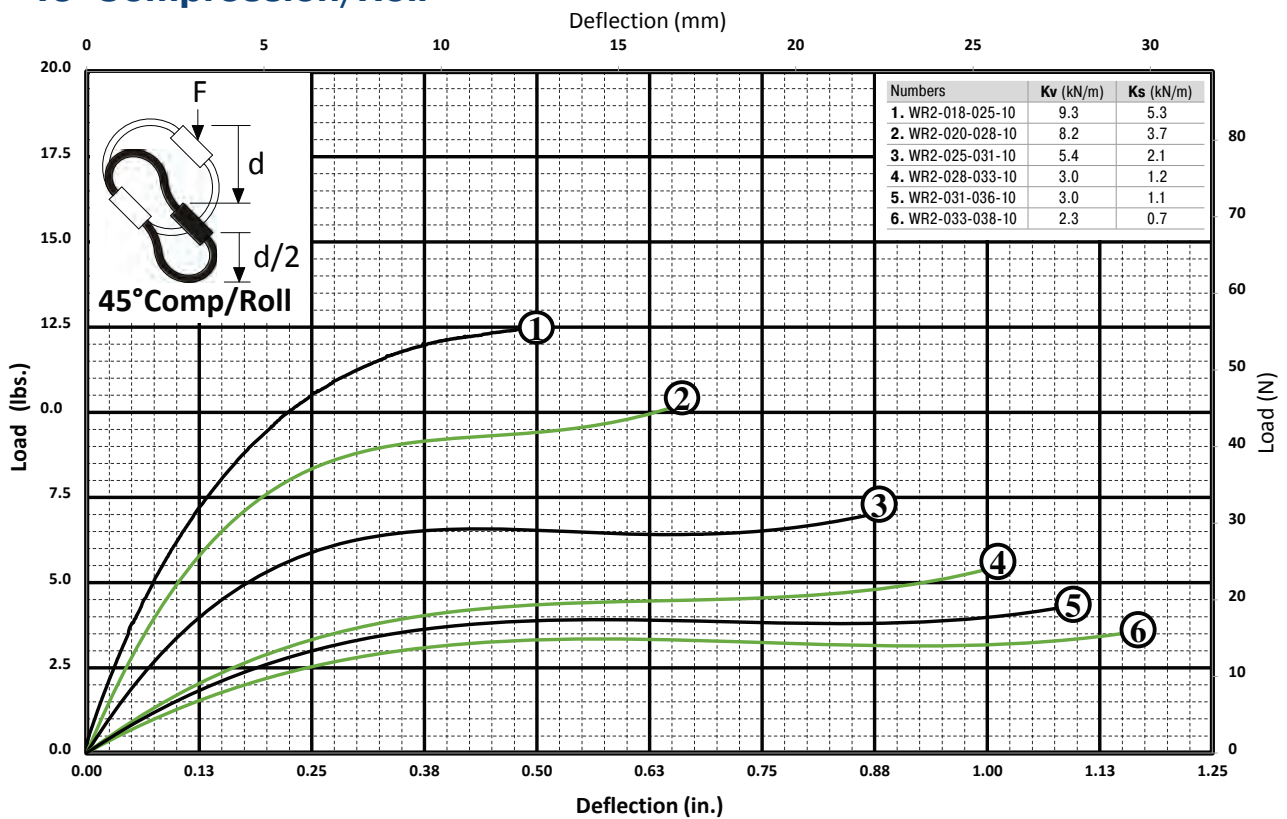
Shear



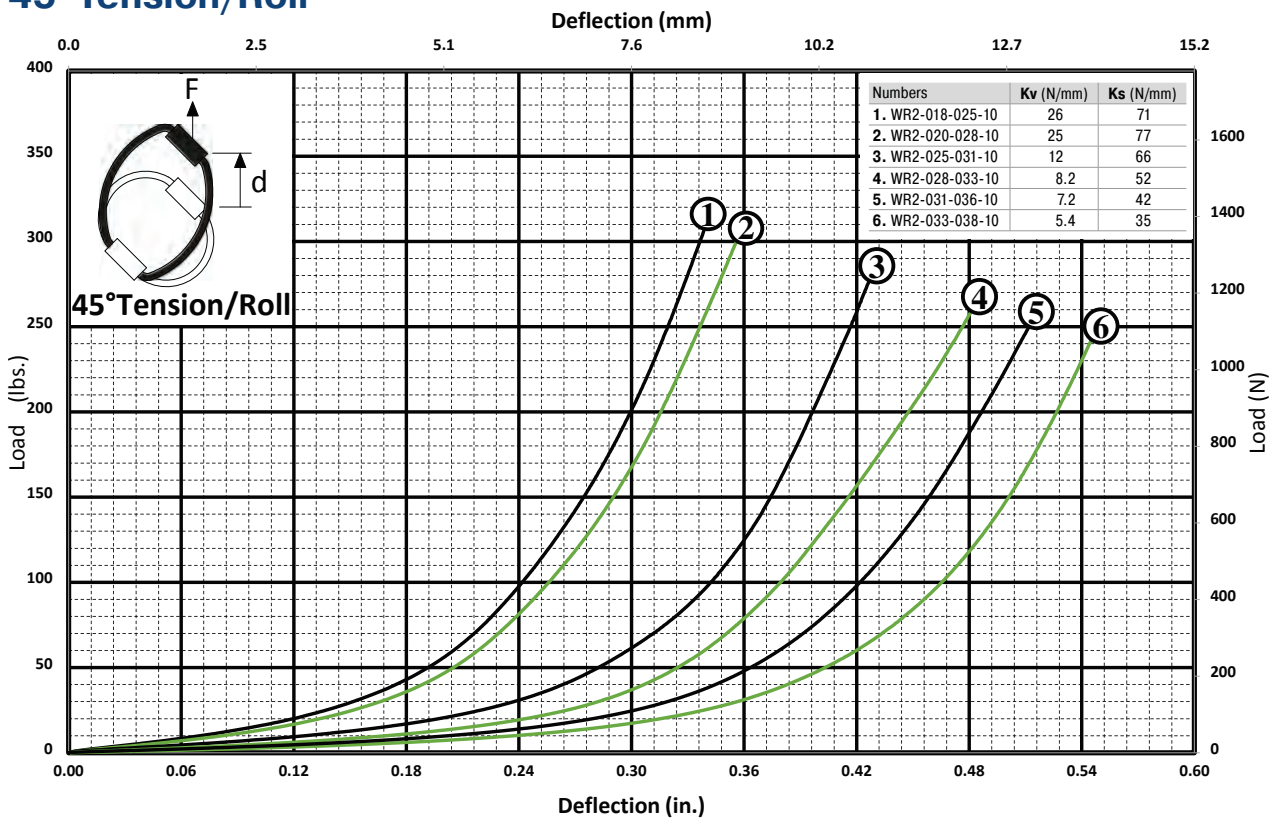
Roll



45° Compression/Roll



45° Tension/Roll



WR3

Helical Isolator

2.38 mm (3/32") Diameter Cable

Features

Rugged all metal construction
Fail safe construction
Long life and maintenance free
Three axis capability (6 dof)
High damping: $C/cc \approx 0.15$ to 0.20

Operating temperature range

-130°C to +260°C

Material

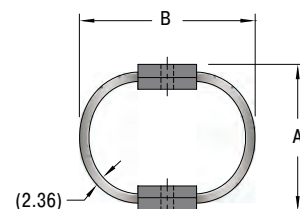
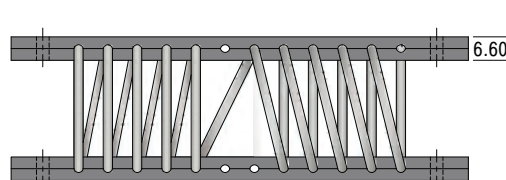
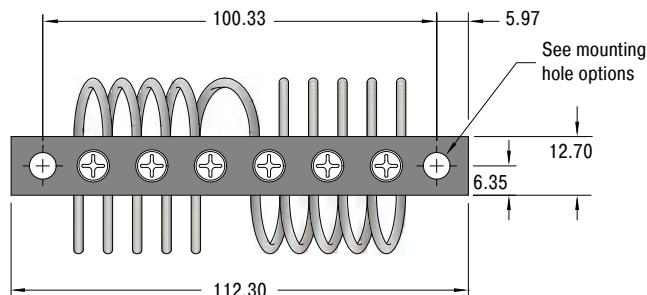
Cable: 300 Series SS per MIL-W-83420 or RR-W-410
Screws: 300 Series SS per MS51959-26
Inserts: 300 Series SS (alum bars only)
Retainer bars: Standard: 6061-T6 Alum alloy/
Chem film IAW MIL-DTL-5541, TYPE II, Class 3

Note

Mounting hole tolerances: ± 0.25 mm
Add 0.07 kg to Isolator weight for all stainless
steel versions

On request

Special materials, size, mounting holes, finish,
etc. available



Performance

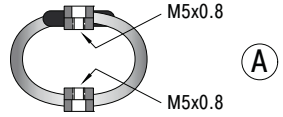
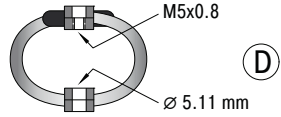
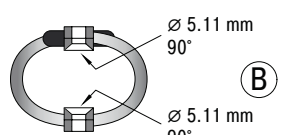
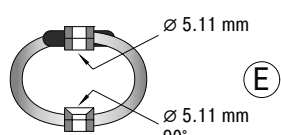
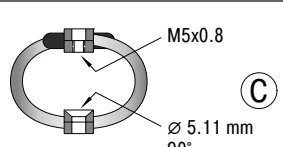
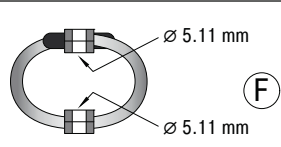
TYPES	A (+/- 0.8) mm	B mm	Compression			Shear/Roll (Average)			Weight kg
			Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	
WR3-023-028-10	22.9	27.9	73	62	7.6	25	36	7.6	0.068
WR3-025-031-10	25.4	30.5	50	45	10.2	17	30	10.2	0.071
WR3-028-034-10	27.9	33.5	34	30	12.7	9.6	18	12.7	0.074
WR3-033-038-10	33.0	38.1	17	14	17.8	5.1	8.1	17.8	0.077
WR3-036-041-10	35.6	40.6	15	12	20.3	4.2	7.2	20.3	0.079
WR3-038-043-10	38.1	43.2	11	8.8	22.9	3.0	5.4	22.9	0.085

Ordering Example

Type _____
Model size height _____
Model size wide _____
Number of loops _____
Mounting hole _____

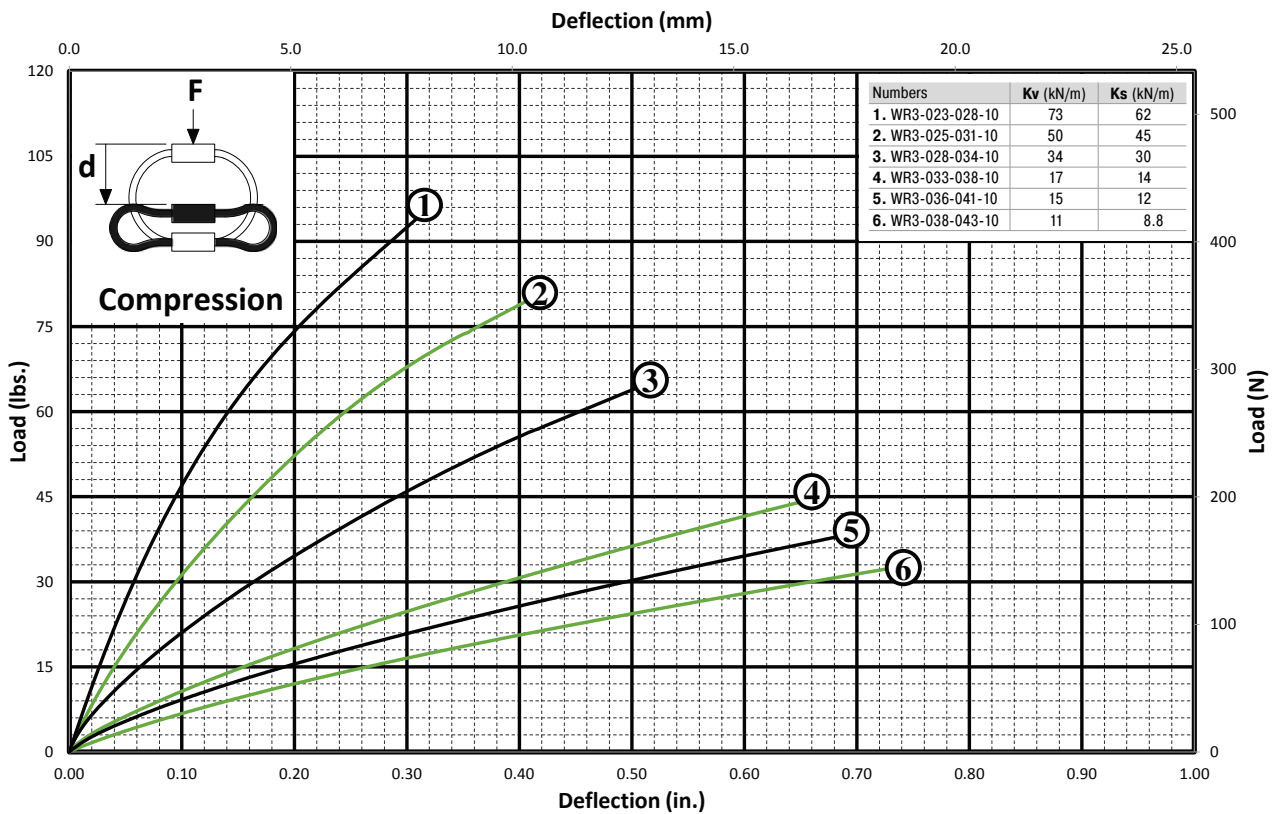
WR3-023-028-10-A

Mounting Hole Options

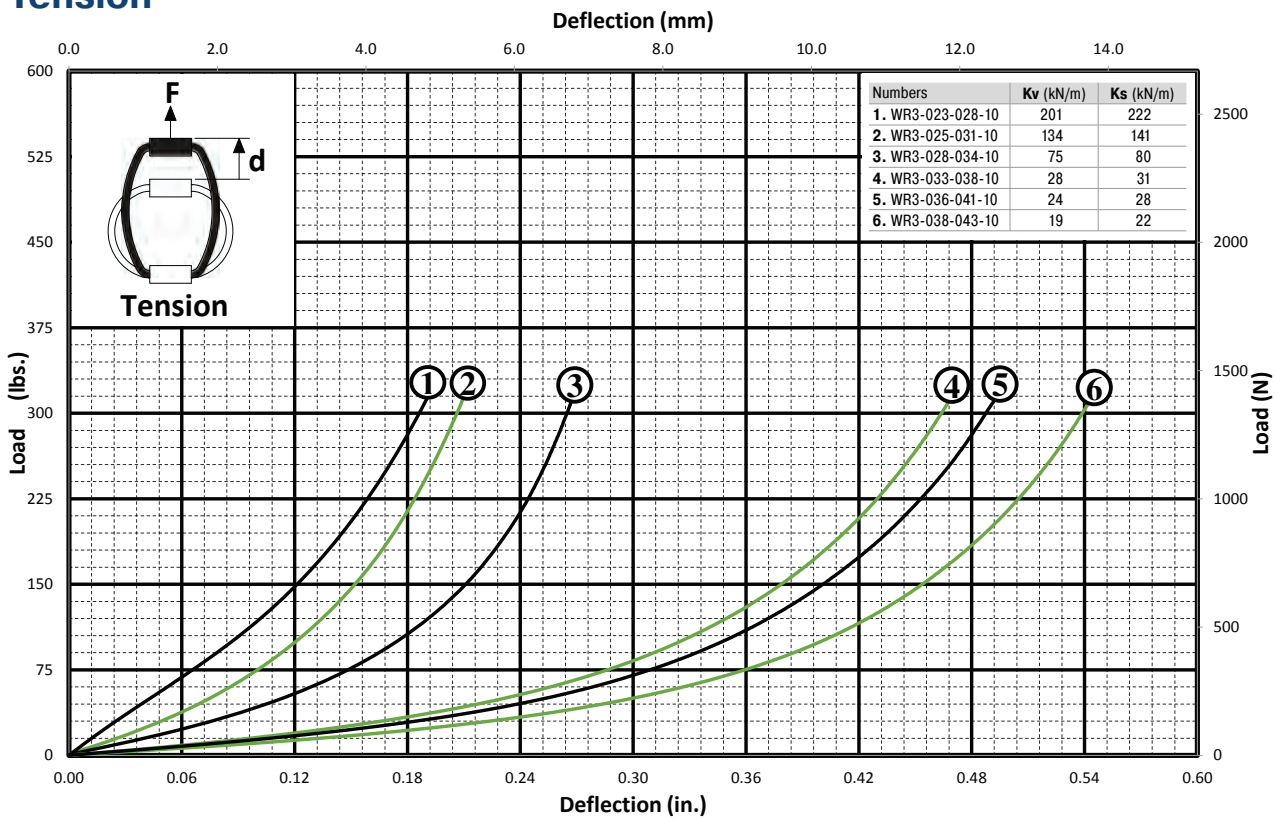
	
	
	

Issue 07.2020 – Specifications subject to change

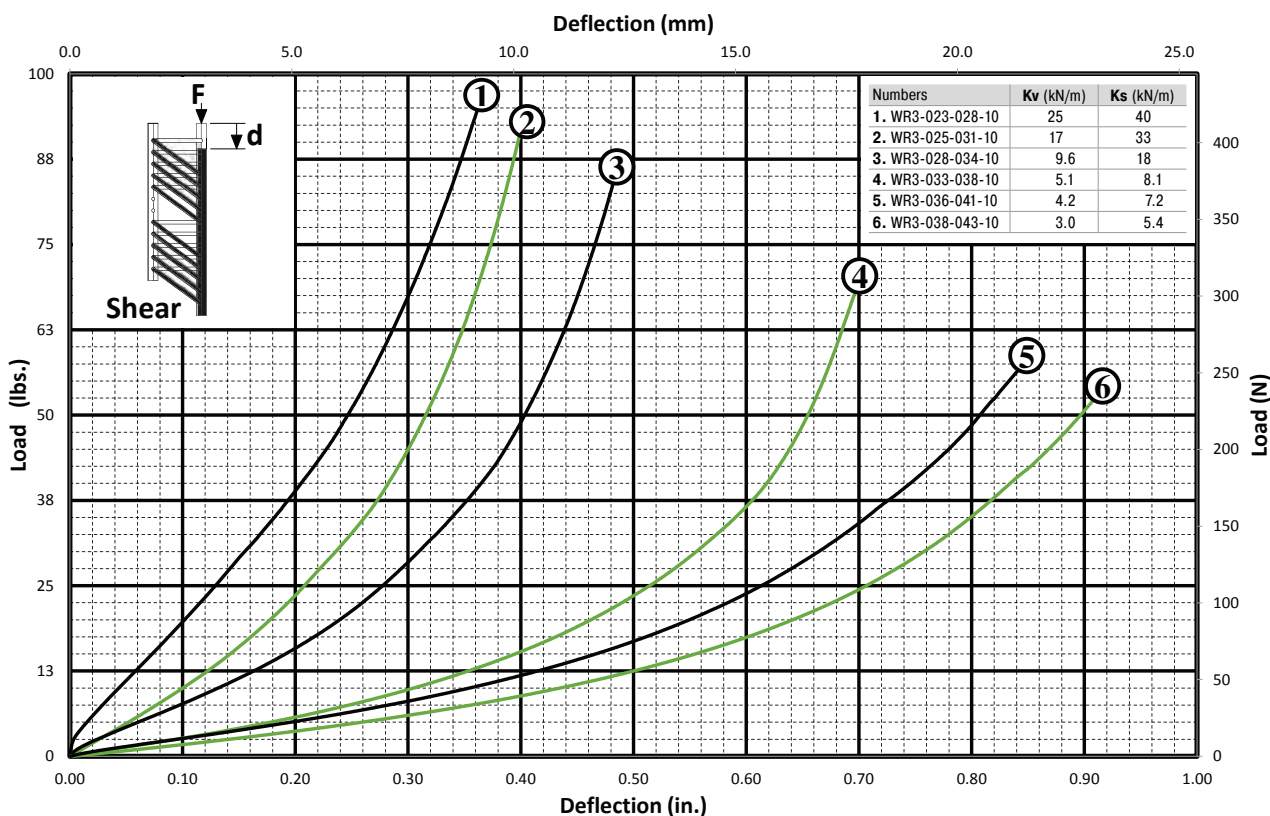
Compression



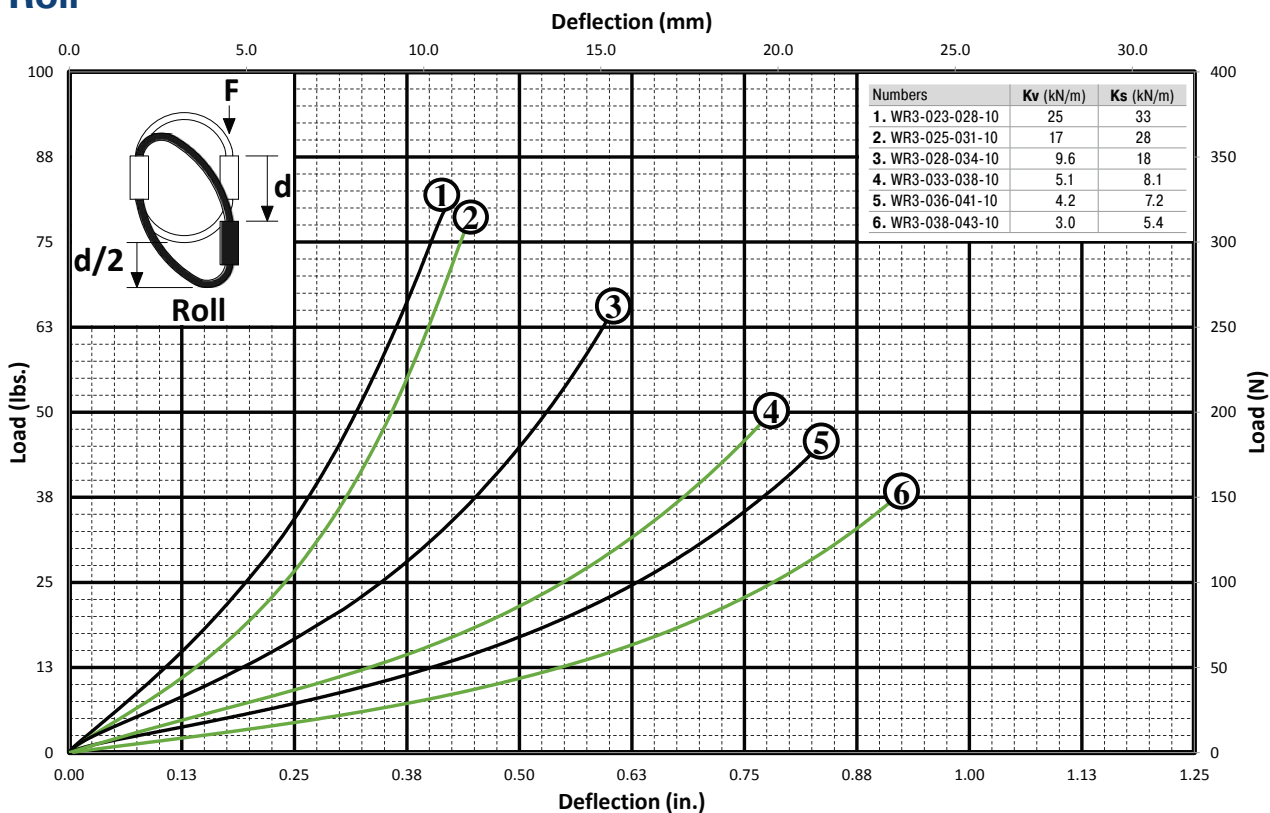
Tension



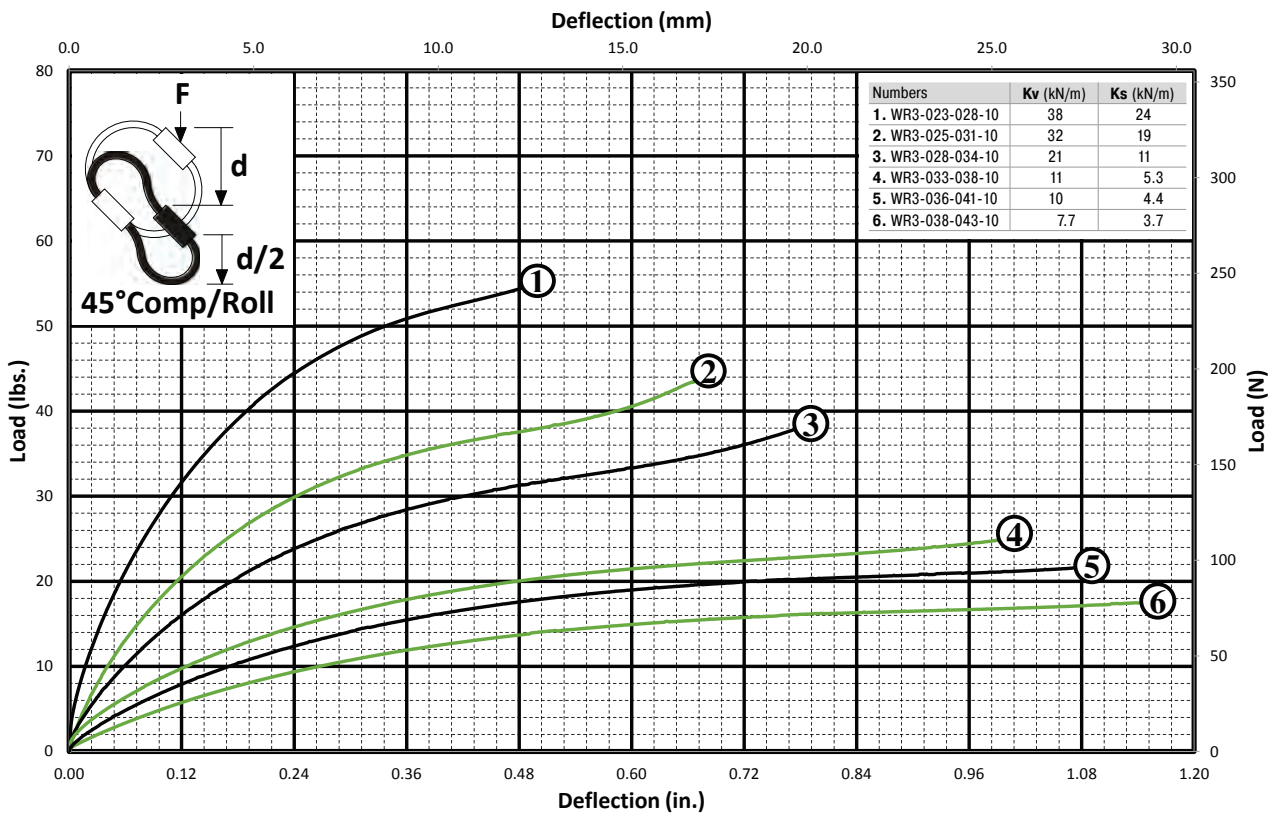
Shear



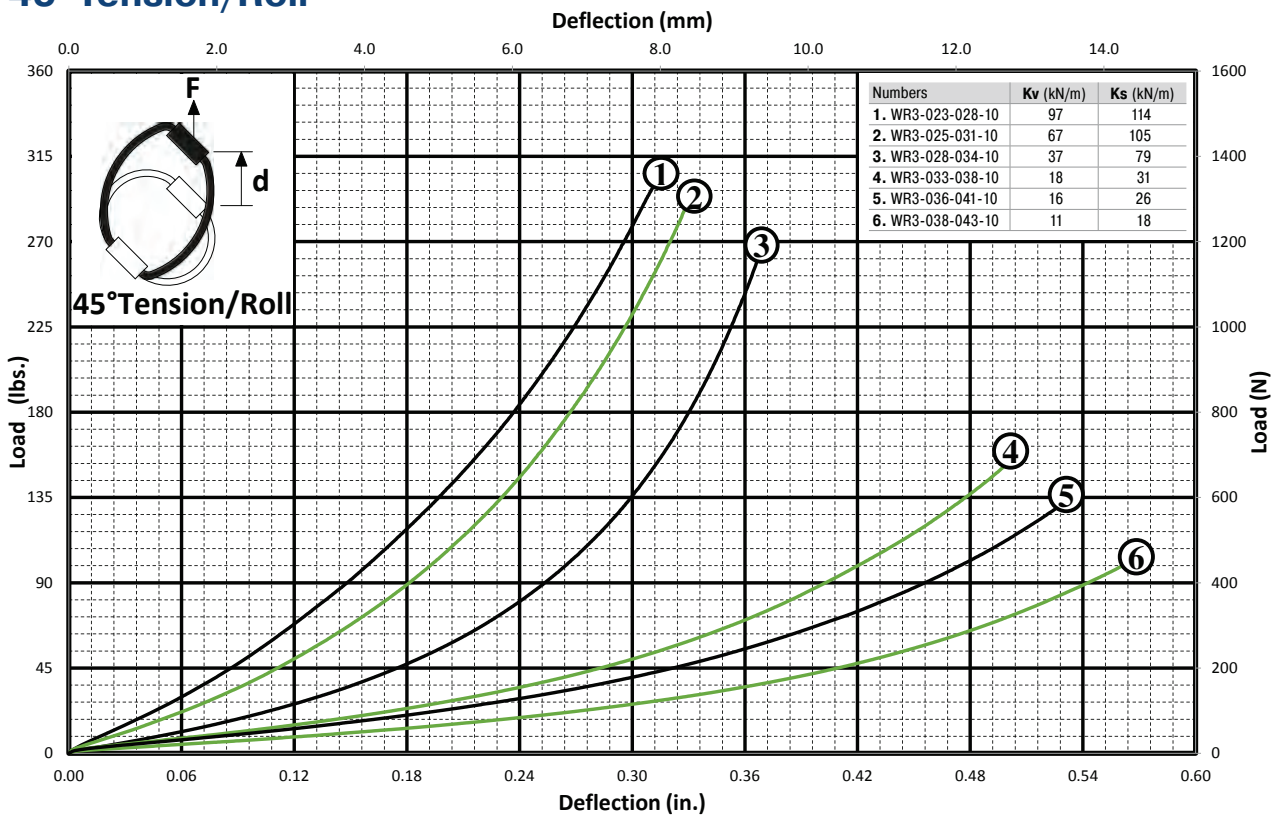
Roll



45° Compression/Roll



45° Tension/Roll



WR4

Helical Isolator

3.18 mm (1/8") Diameter Cable

Features

Rugged all metal construction
Fail safe construction
Long life and maintenance free
Three axis capability (6 dof)
High damping: C/cc $\approx$ 0.15 to 0.20

Operating temperature range

-130°C to +260°C

Material

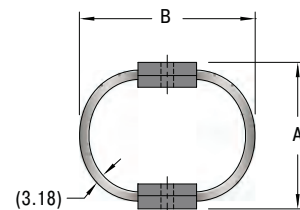
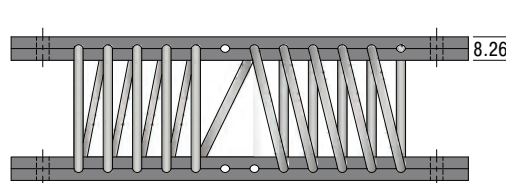
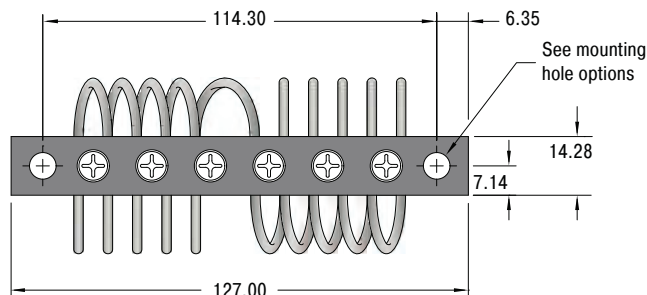
Cable: 300 Series SS per MIL-W-83420 or RR-W-410
Screws: 300 Series SS per MS51959-42
Inserts: 300 Series SS (alum bars only)
Retainer bars: Standard: 6061-T6 Alum alloy/
Chem film IAW MIL-DTL-5541, TYPE II, Class 3

Note

Mounting hole tolerances: ± 0.25 mm
Add 0.12 kg to Isolator weight for all stainless
steel versions

On request

Special materials, size, mounting holes, finish,
etc. available



Performance

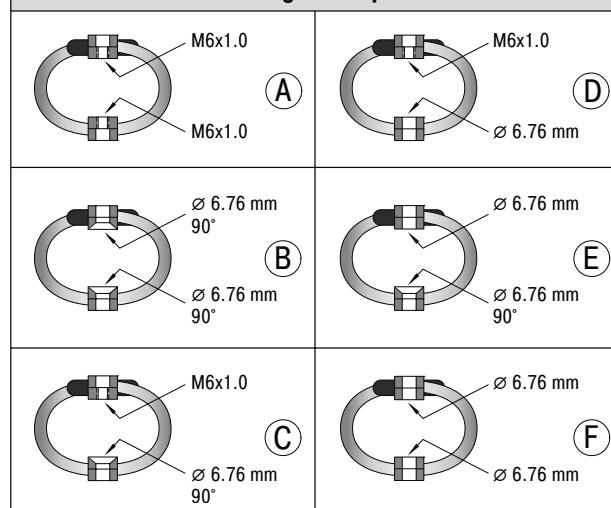
TYPES	A (+/- 0.8) mm	B mm	Compression			Shear/Roll (Average)			Weight kg
			Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	
WR4-028-036-10	27.9	35.6	88	83	8.9	31	37	8.9	0.114
WR4-031-038-10	30.5	38.1	86	73	11.4	26	34	11.4	0.116
WR4-033-041-10	33.0	40.6	67	52	14.0	21	29	14.0	0.119
WR4-036-043-10	35.6	43.2	50	41	16.5	15	22	16.5	0.122
WR4-038-046-10	38.1	45.7	40	32	19.1	13	20	19.1	0.125
WR4-041-048-10	40.6	48.2	34	25	21.6	9.5	15	21.6	0.128

Ordering Example

Type _____
Model size height _____
Model size wide _____
Number of loops _____
Mounting hole _____

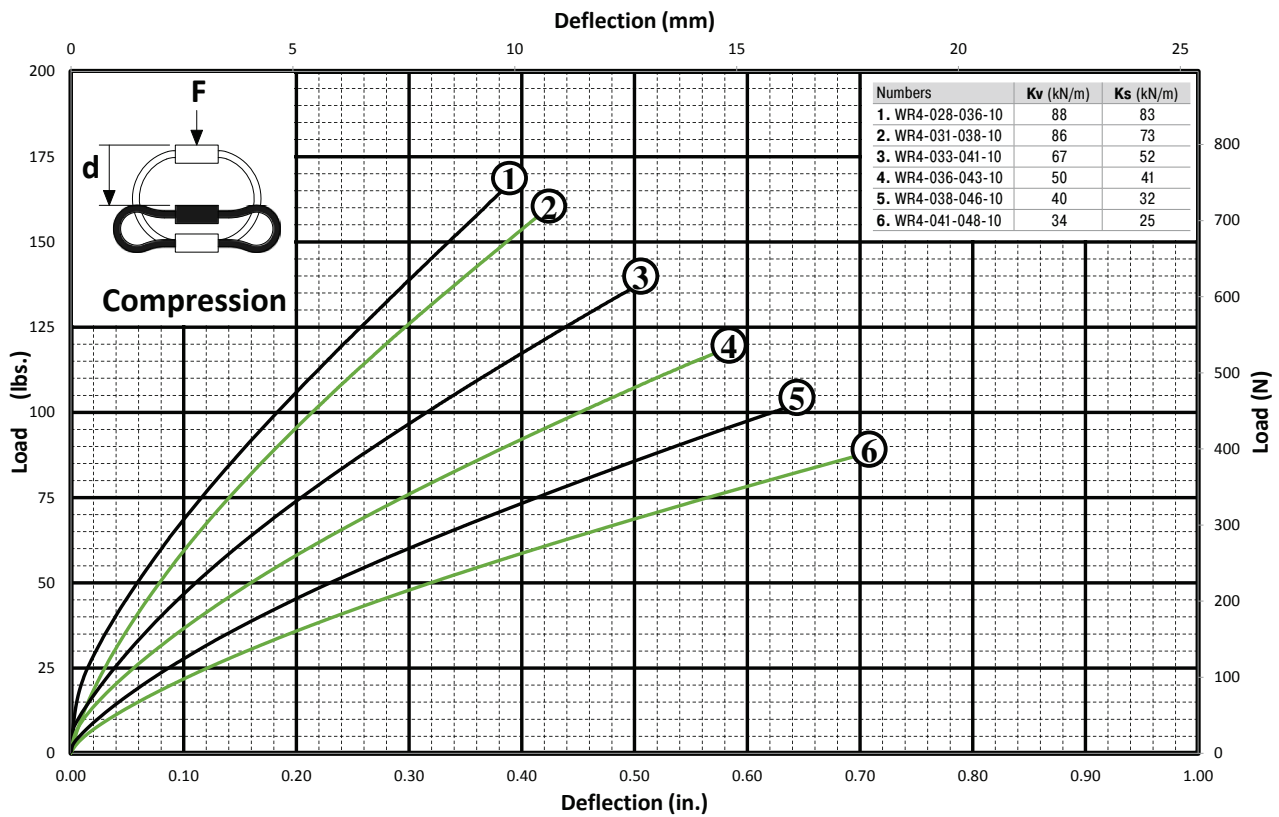
WR4-028-036-10-A

Mounting Hole Options

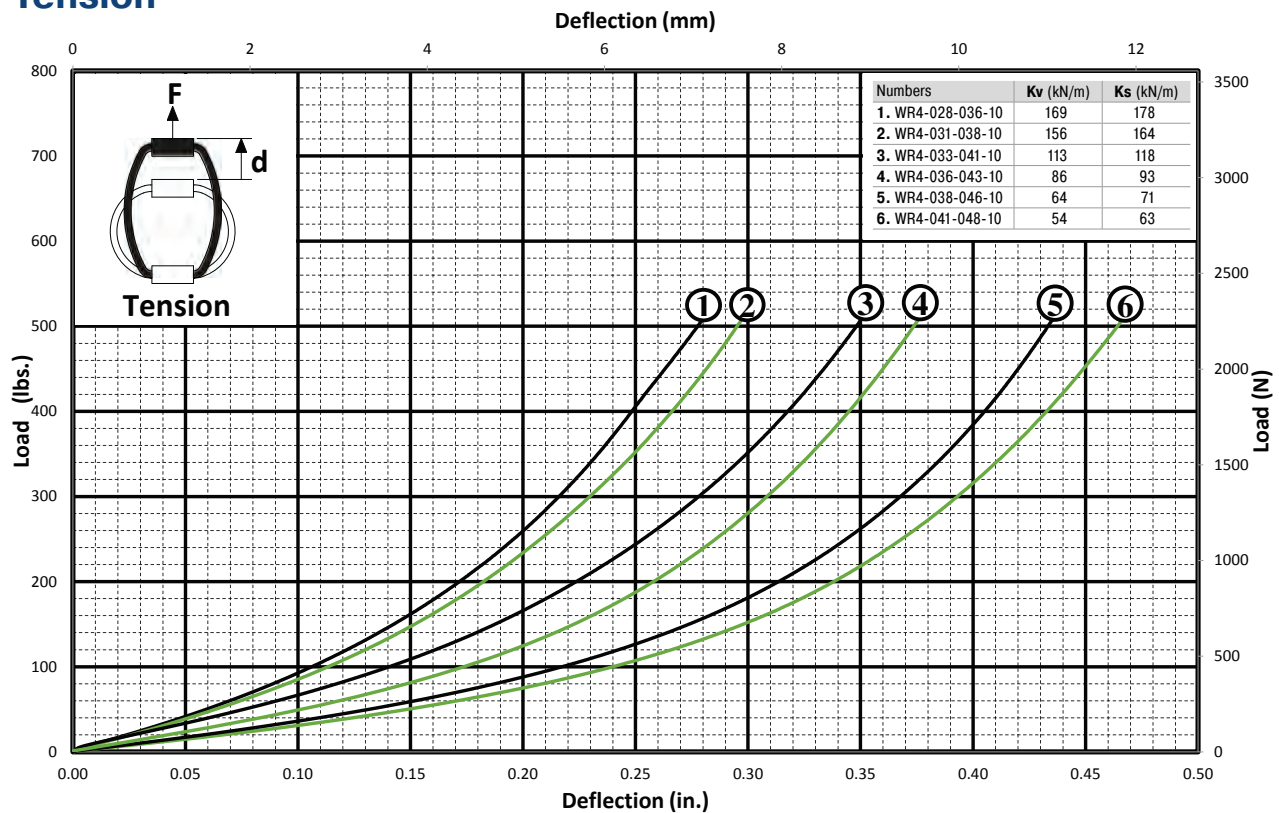


Issue 07/2020 – Specifications subject to change

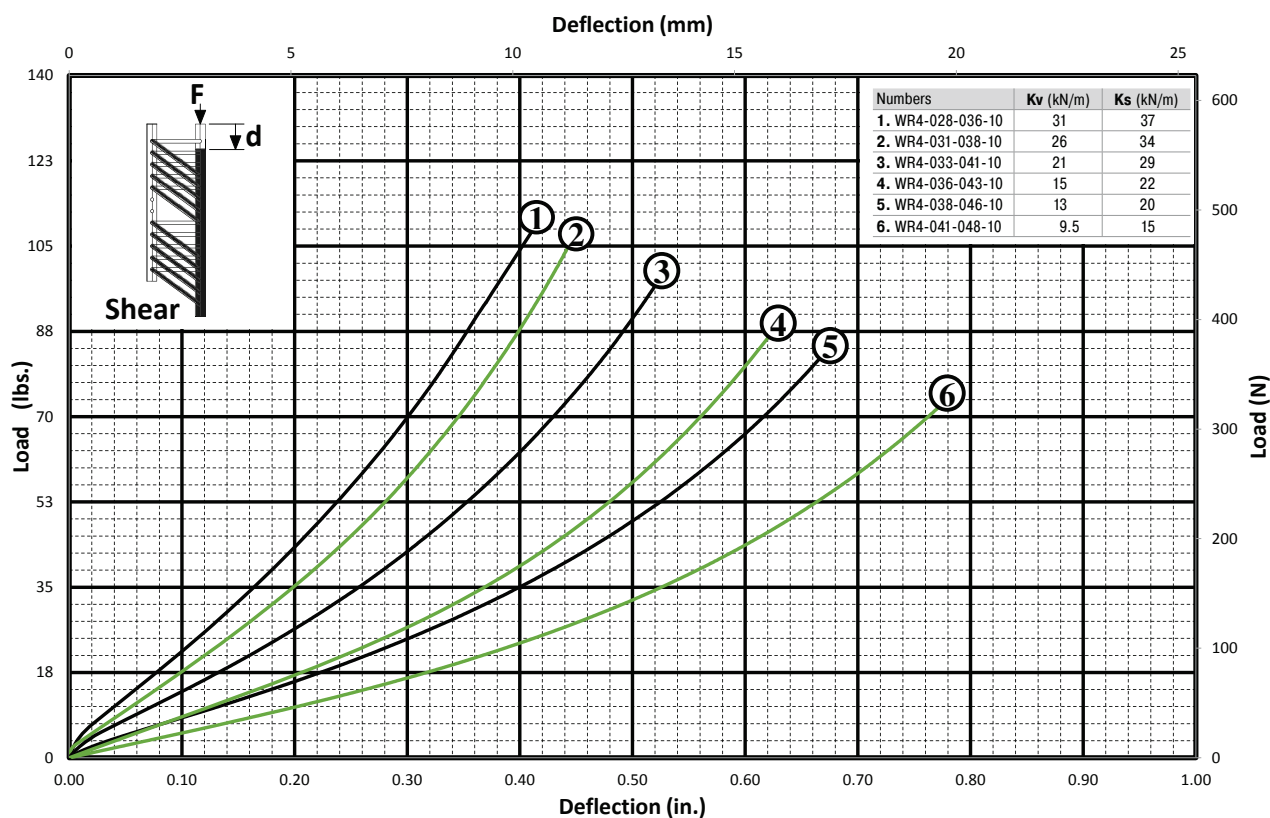
Compression



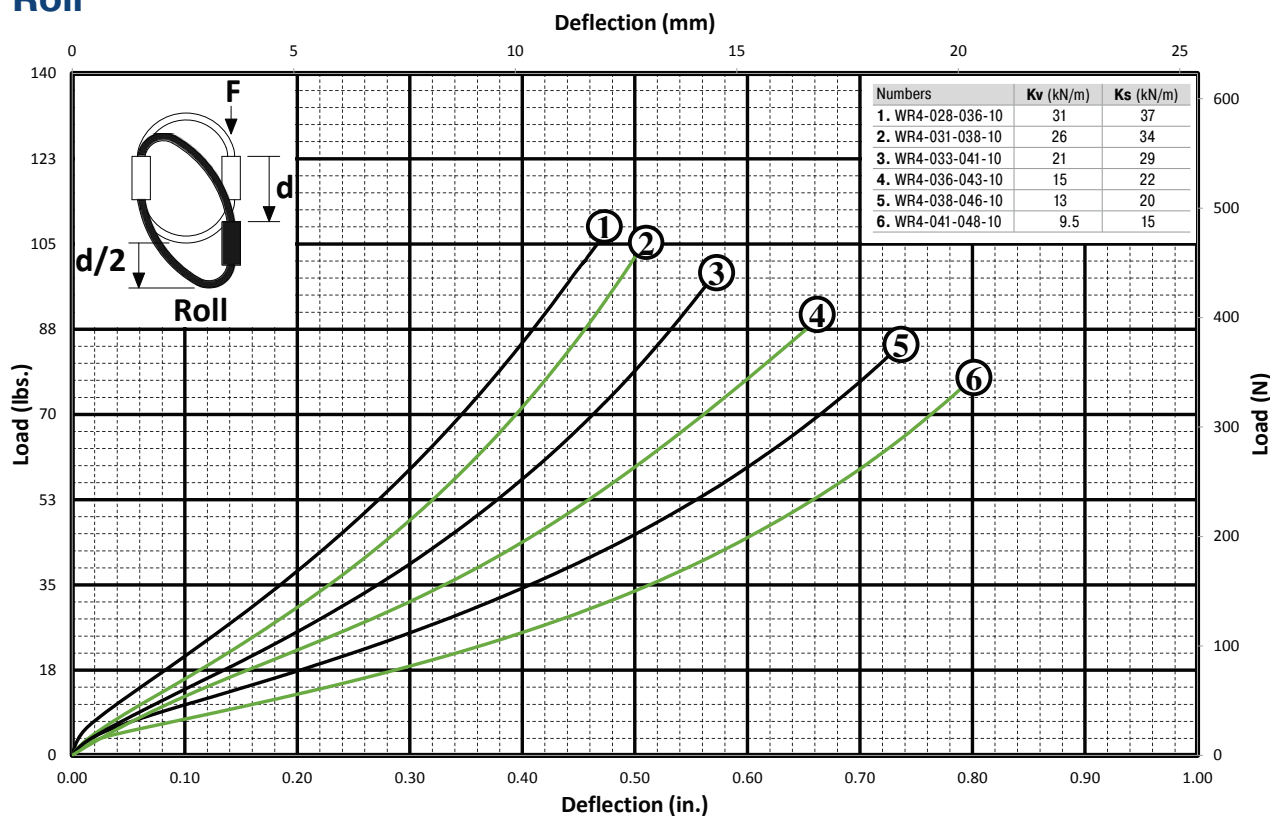
Tension



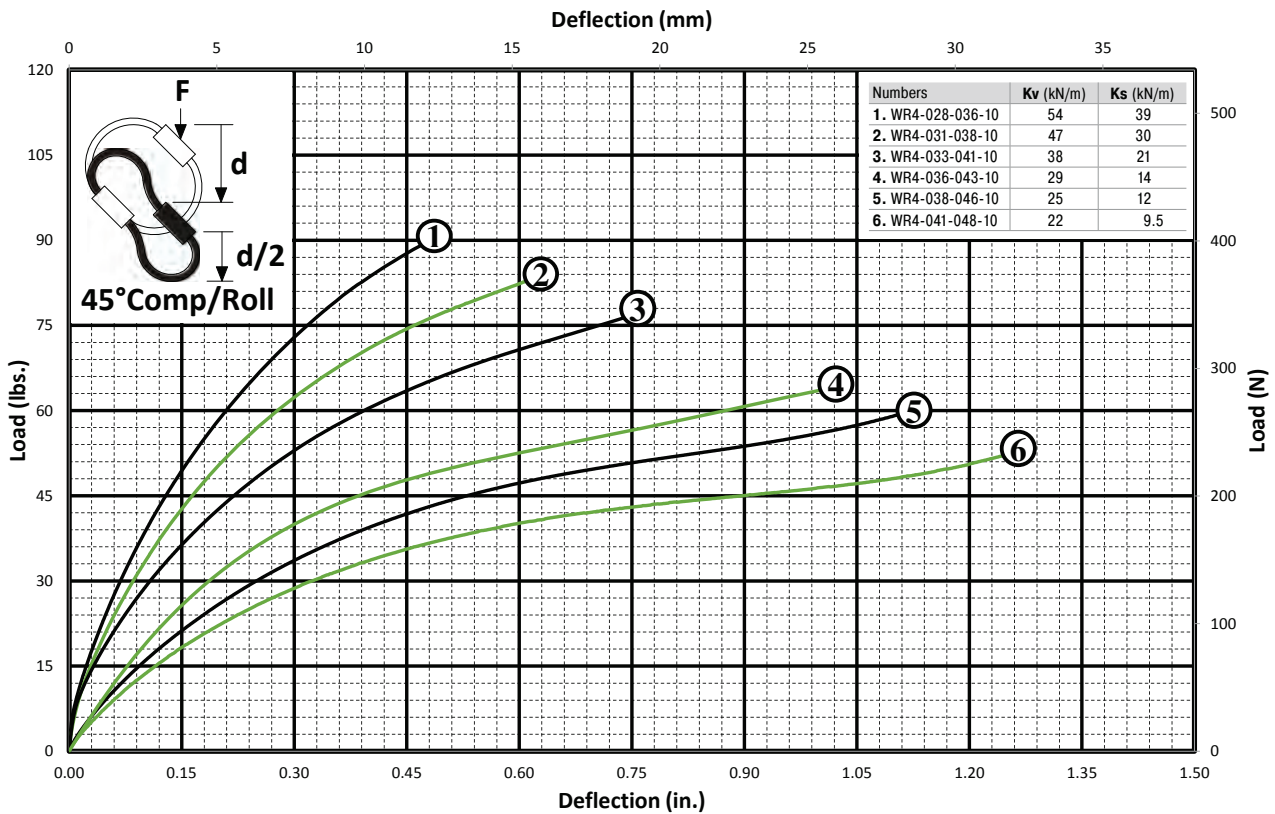
Shear



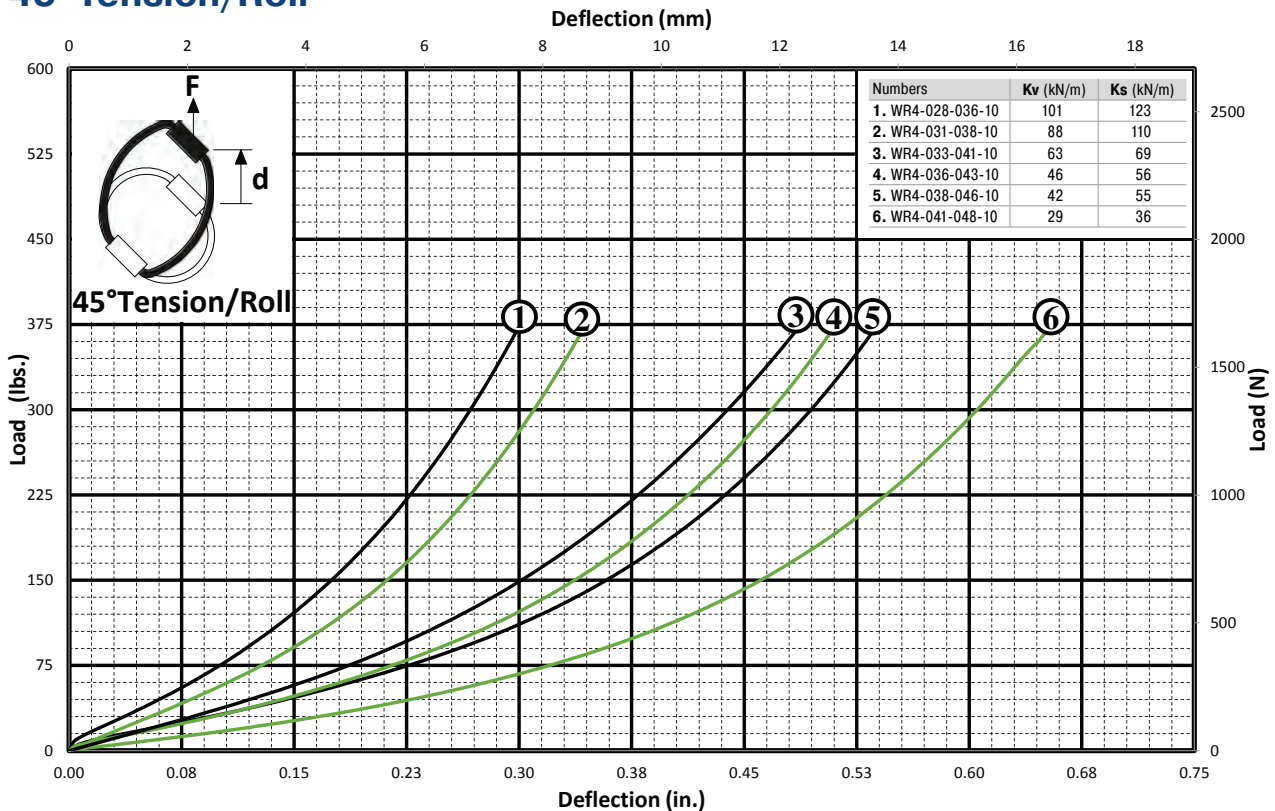
Roll



45° Compression/Roll



45° Tension/Roll



WR5**Helical Isolator****3.97 mm (5/32") Diameter Cable****Features**

Rugged all metal construction
Fail safe construction
Long life and maintenance free
Three axis capability (6 dof)
High damping: C/cc $\approx$ 0.15 to 0.20

Operating temperature range

-130°C to +260°C

Material

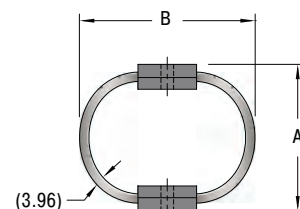
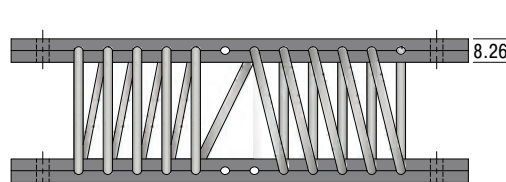
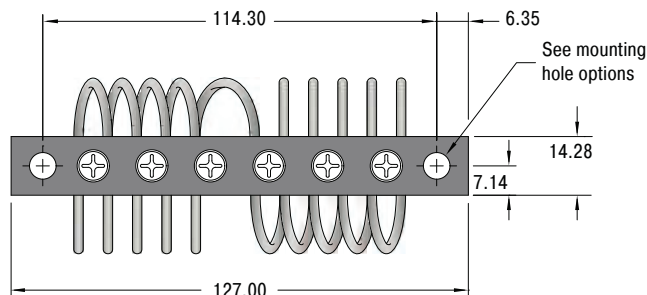
Cable: 300 Series SS per MIL-W-83420 or RR-W-410
Screws: 300 Series SS per MS51959-42
Inserts: 300 Series SS (alum bars only)
Retainer bars: Standard: 6061-T6 Alum alloy/
Chem film IAW MIL-DTL-5541, TYPE II, Class 3

Note

Mounting hole tolerances: ± 0.25 mm
Add 0.11 kg to Isolator weight for all stainless
steel versions

On request

Special materials, size, mounting holes, finish,
etc. available

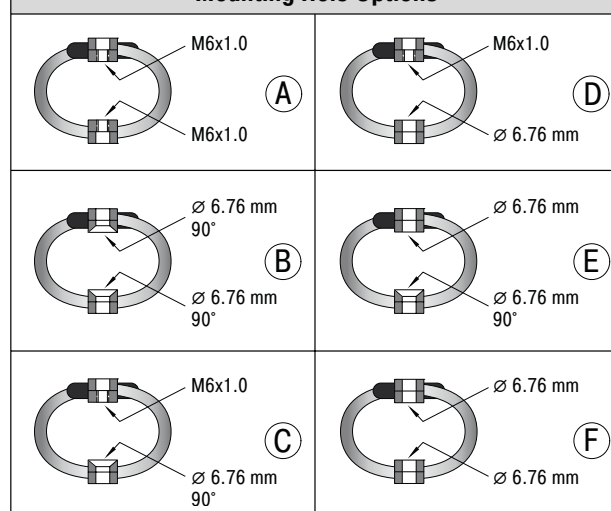
**Performance**

TYPES	A (+/- 0.8) mm	B mm	Compression			Shear/Roll (Average)			Weight kg
			Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	
WR5-028-036-10	27.9	35.6	228	210	8.9	81	96	8.9	0.131
WR5-031-038-10	30.5	38.1	197	176	11.4	62	75	11.4	0.136
WR5-033-041-10	33.0	40.6	137	117	14.0	43	51	14.0	0.148
WR5-036-043-10	35.6	43.2	117	93	16.5	33	43	16.5	0.148
WR5-038-046-10	38.1	45.7	90	72	19.1	22	35	19.1	0.153
WR5-041-048-10	40.6	48.2	69	52	21.6	19	27	21.6	0.153

Ordering Example

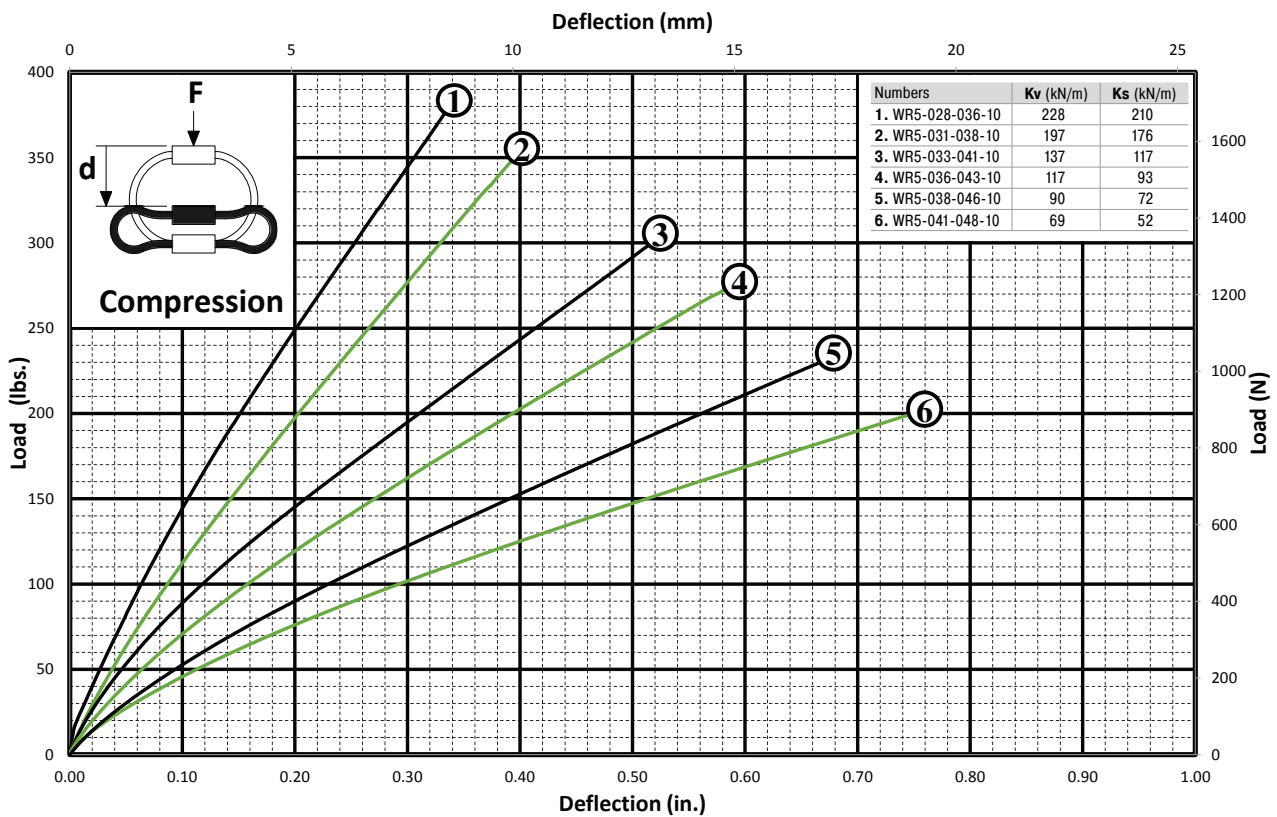
Type _____
Model size height _____
Model size wide _____
Number of loops _____
Mounting hole _____

WR5-028-036-10-A

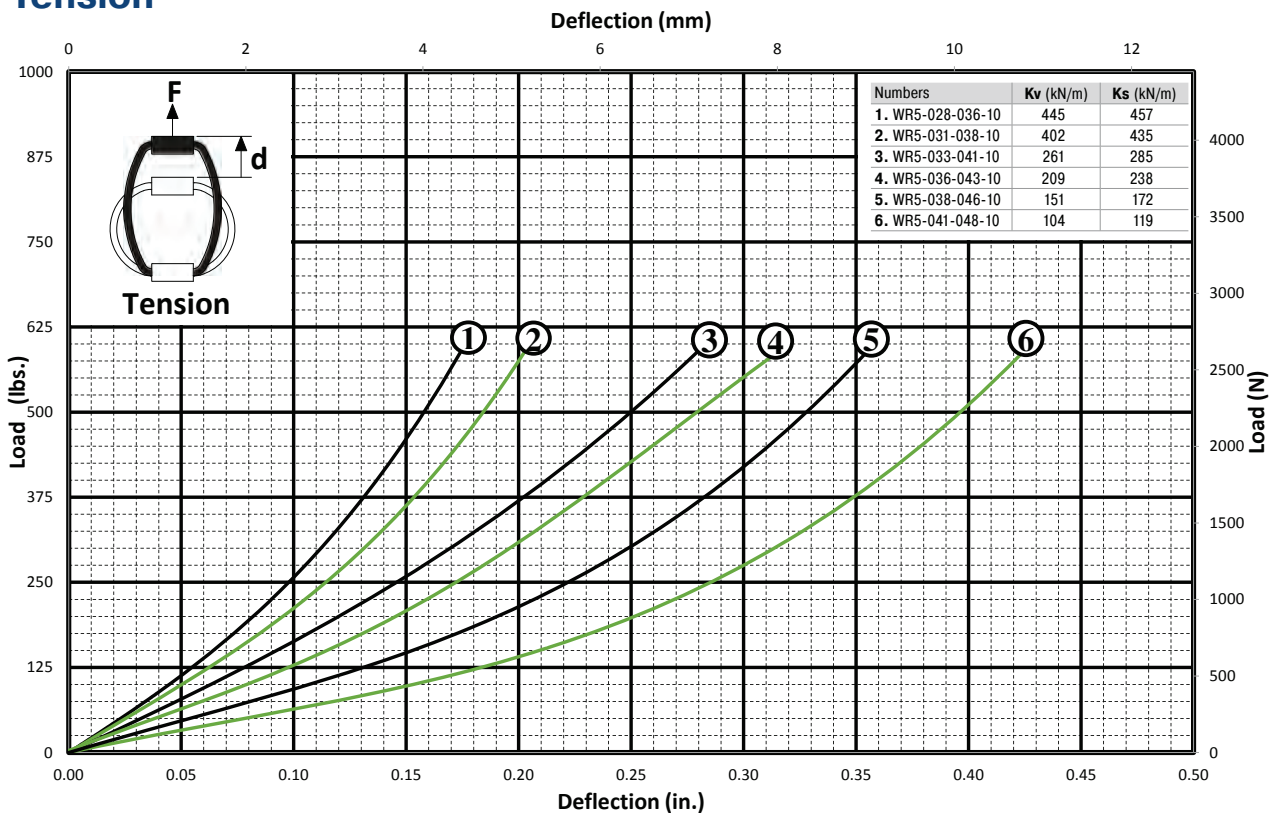
Mounting Hole Options

Issue 07/2020 – Specifications subject to change

Compression

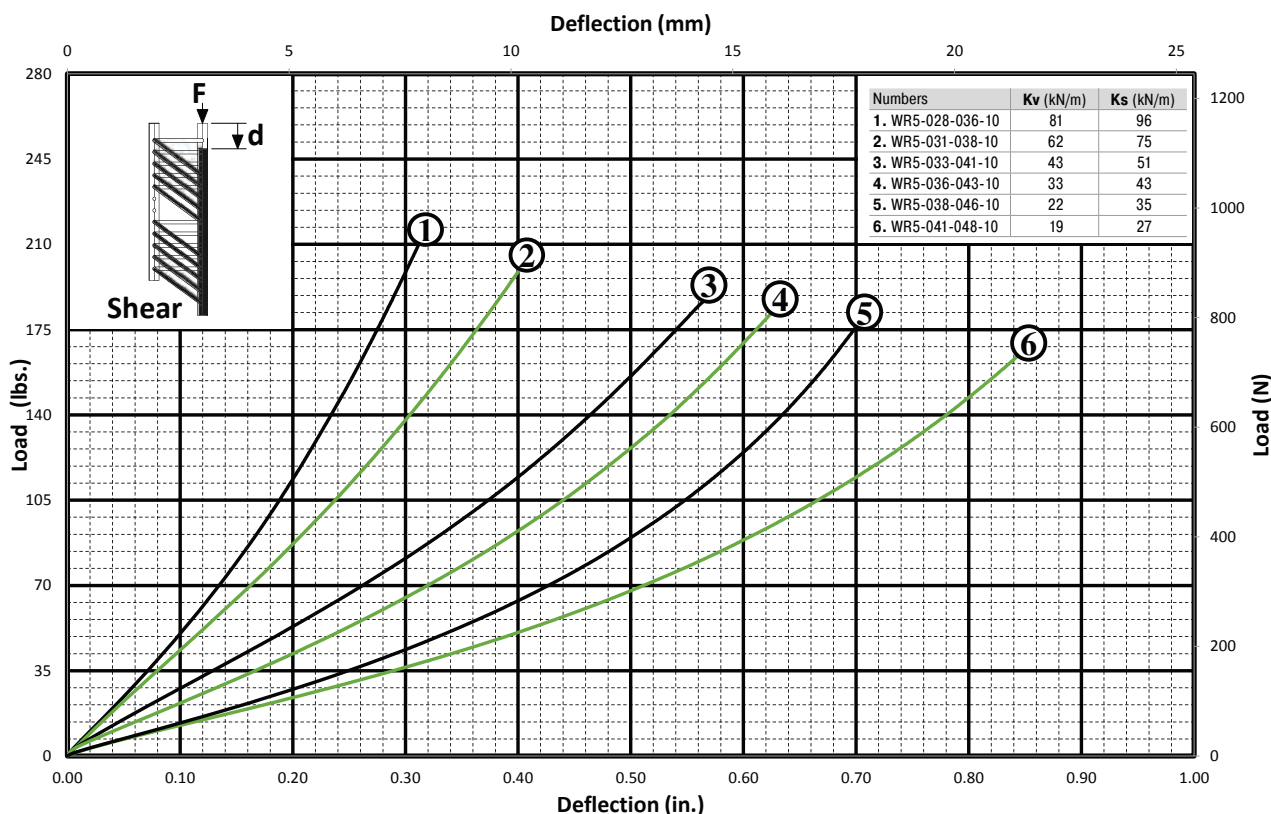


Tension

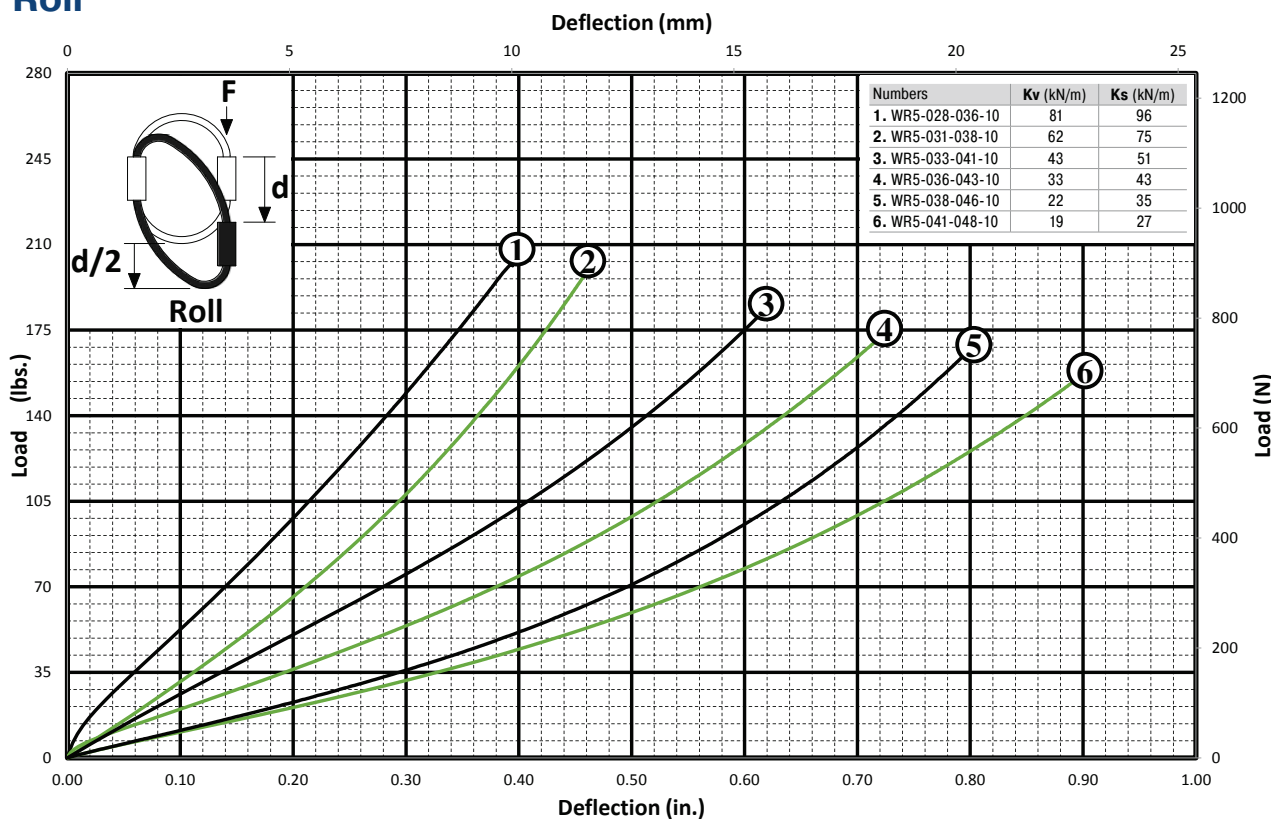


Issue 07/2020 – Specifications subject to change

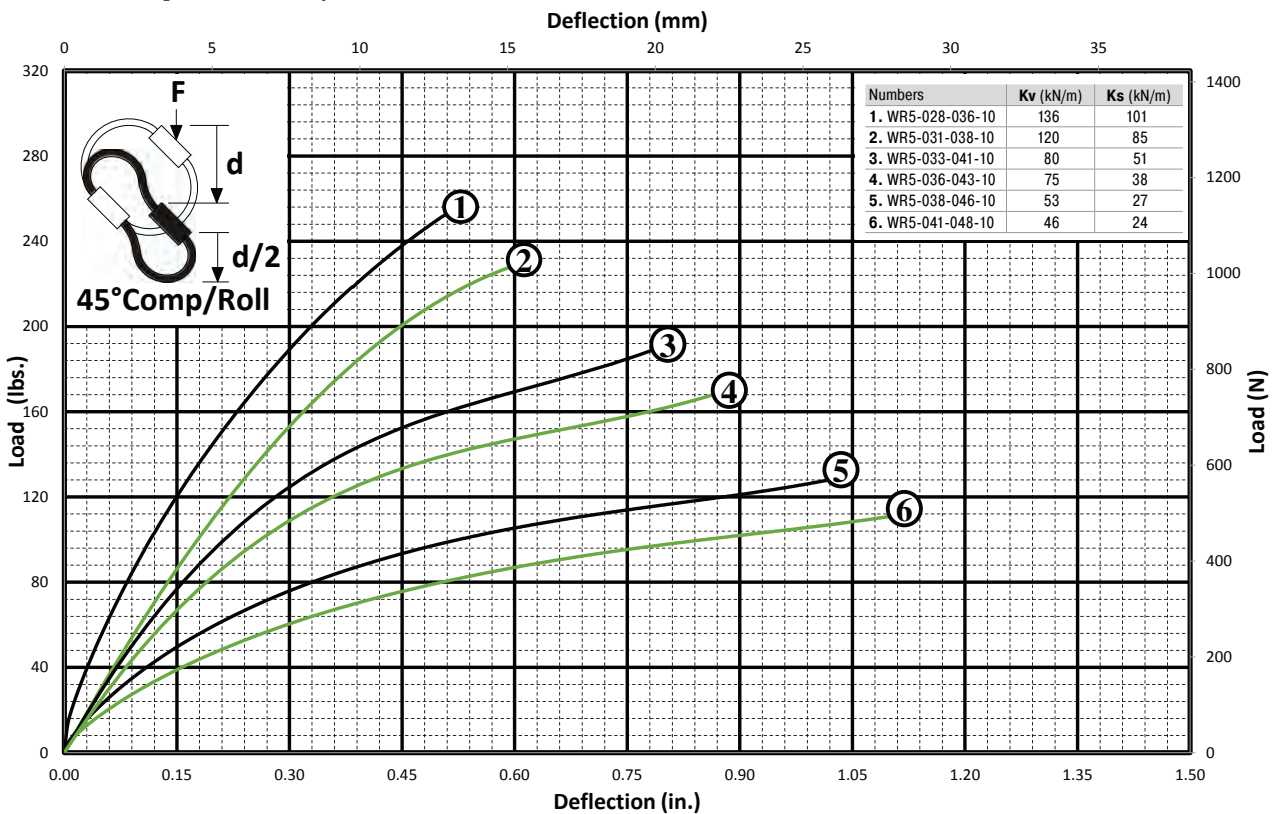
Shear



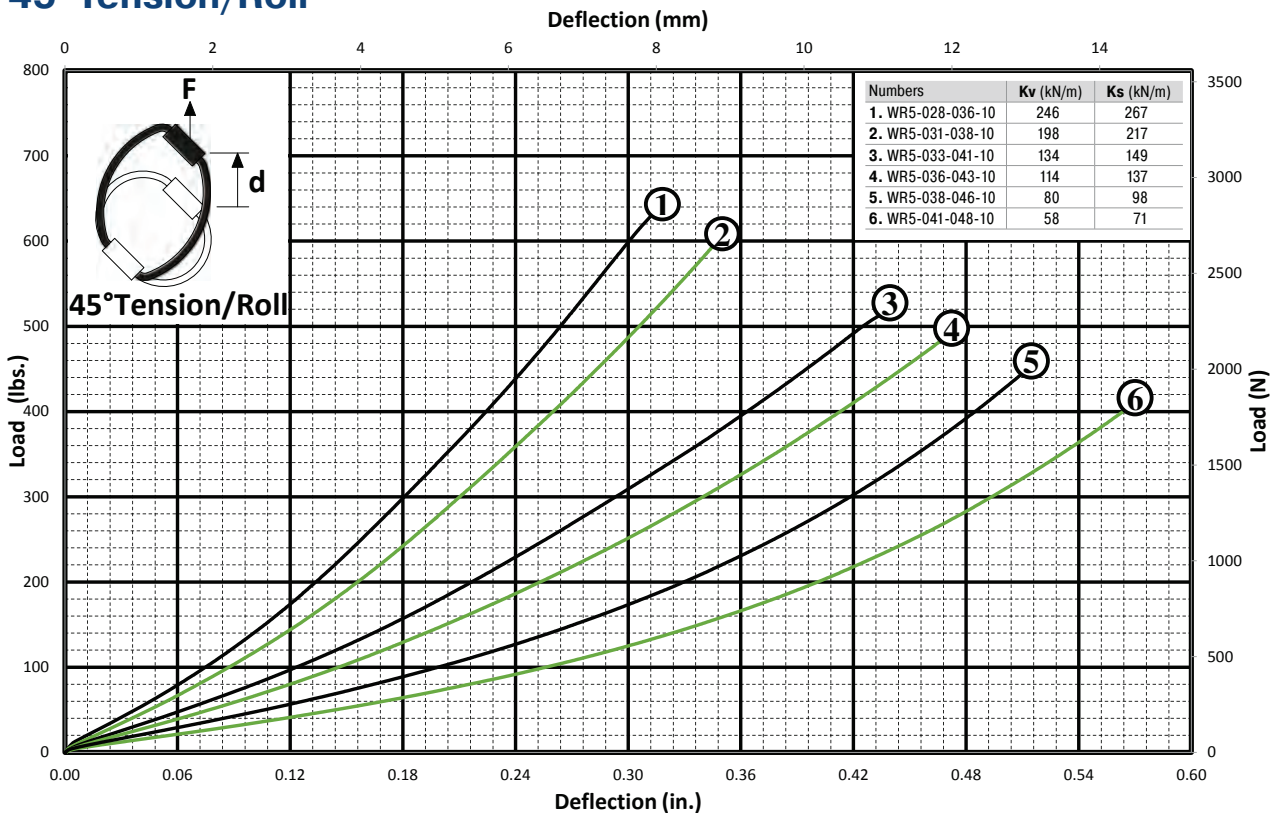
Roll



45° Compression/Roll



45° Tension/Roll



WR6A

Helical Isolator

4.76 mm (3/16") Diameter Cable

Features

Rugged all metal construction
Fail safe construction
Long life and maintenance free
Three axis capability (6 dof)
High damping: $C/cc \approx 0.15$ to 0.20

Operating temperature range

-130°C to +260°C

Material

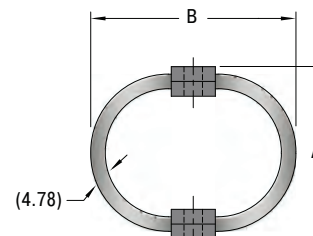
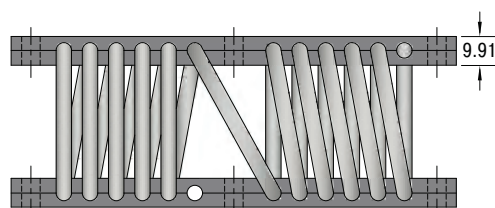
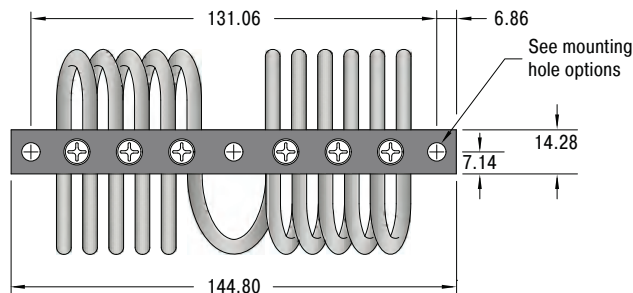
Cable: 300 Series SS per MIL-W-83420 or RR-W-410
Screws: 300 Series SS per MS51959-28
Inserts: 300 Series SS (alum bars only)
Retainer bars: Standard: 6061-T6 Alum alloy/
Chem film IAW MIL-DTL-5541, TYPE II, Class 3

Note

Mounting hole tolerances: ± 0.25 mm
Add 0.15 kg to Isolator weight for all stainless steel versions

On request

Special materials, size, mounting holes, finish, etc. available



Performance

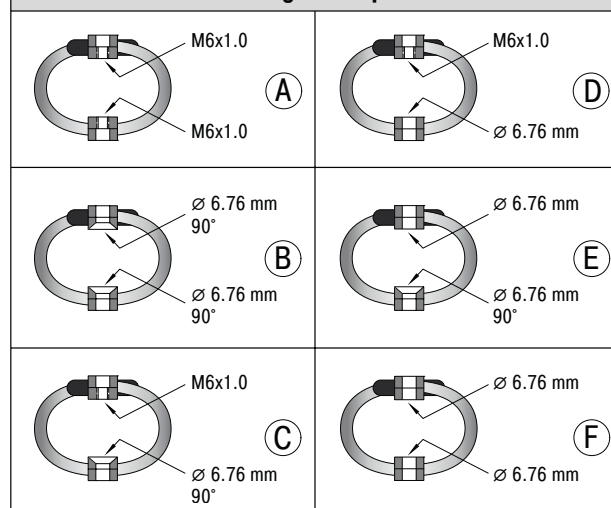
TYPES	A (+/- 0.8) mm	B mm	Compression			Shear/Roll (Average)			Weight kg
			Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	
WR6A-051-058-11	50.8	57.9	81	58	25.4	27	29	25.4	0.244
WR6A-052-064-11	52.3	63.5	66	48	26.7	18	25	26.7	0.253
WR6A-054-075-11	54.1	74.7	45	32	27.9	13	18	27.9	0.267
WR6A-056-081-11	55.6	81.0	32	23	29.2	11	15	29.2	0.289
WR6A-062-088-11	62.2	87.6	29	19	40.6	6.7	11	40.6	0.301
WR6A-081-107-11	81.3	106.7	15	8.6	55.9	3.2	6.0	55.9	0.363

Ordering Example

Type _____
Model size height _____
Model size wide _____
Number of loops _____
Mounting hole _____

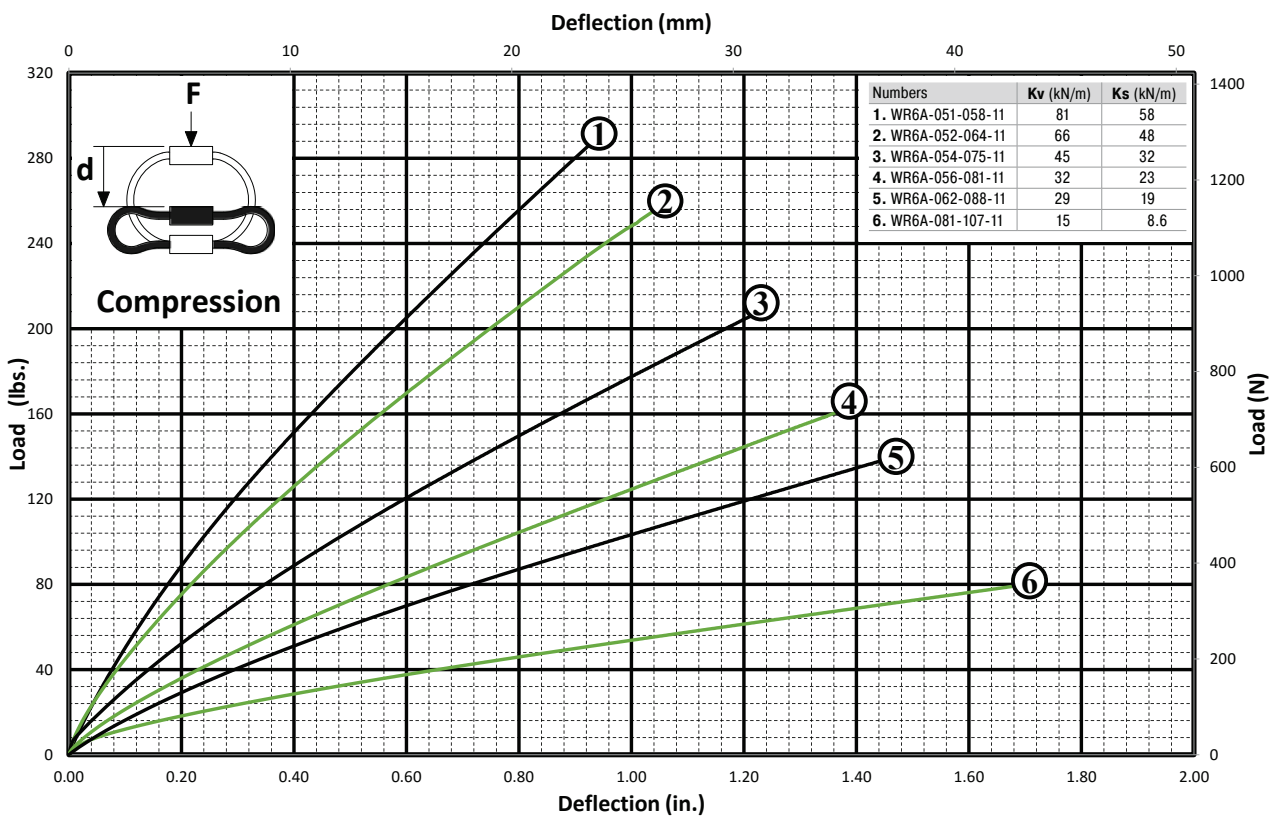
WR6A-051-058-11-A

Mounting Hole Options

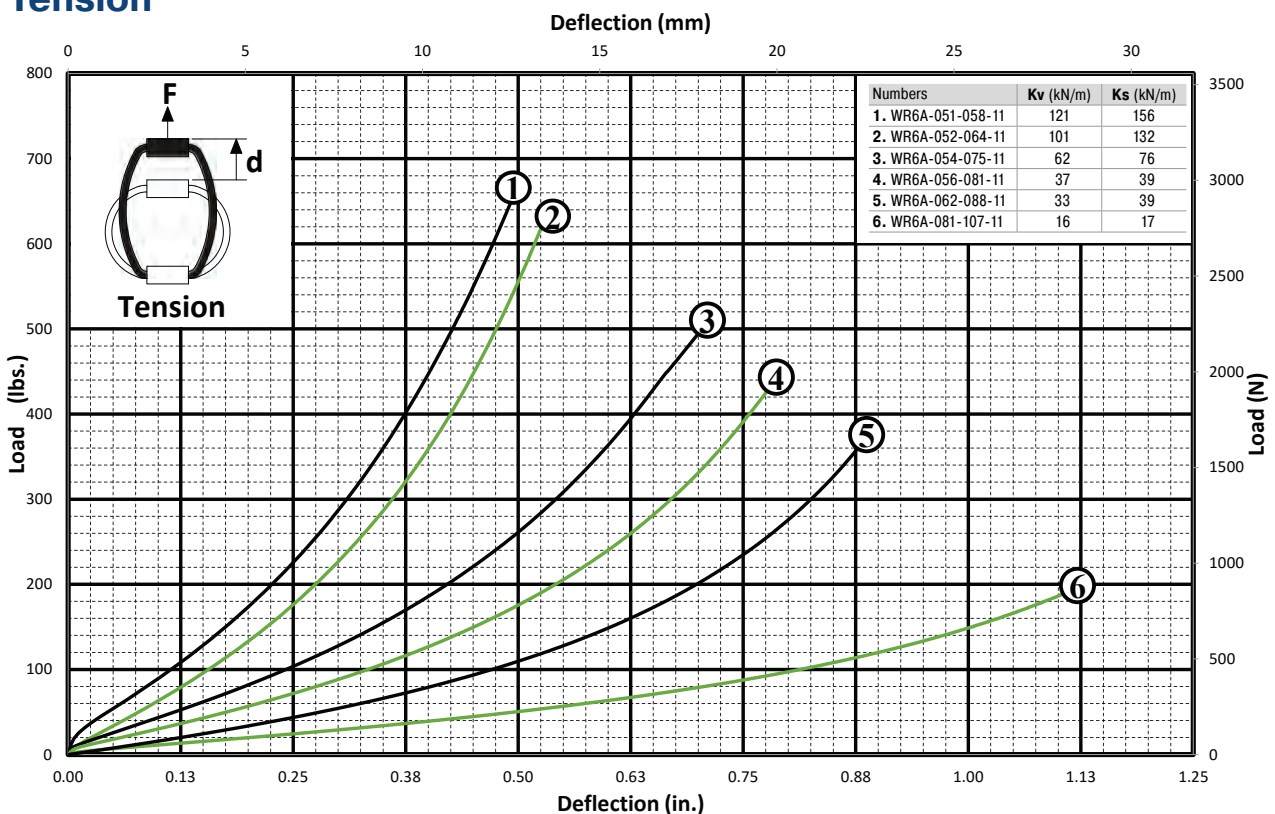


Issue 07/2020 – Specifications subject to change

Compression

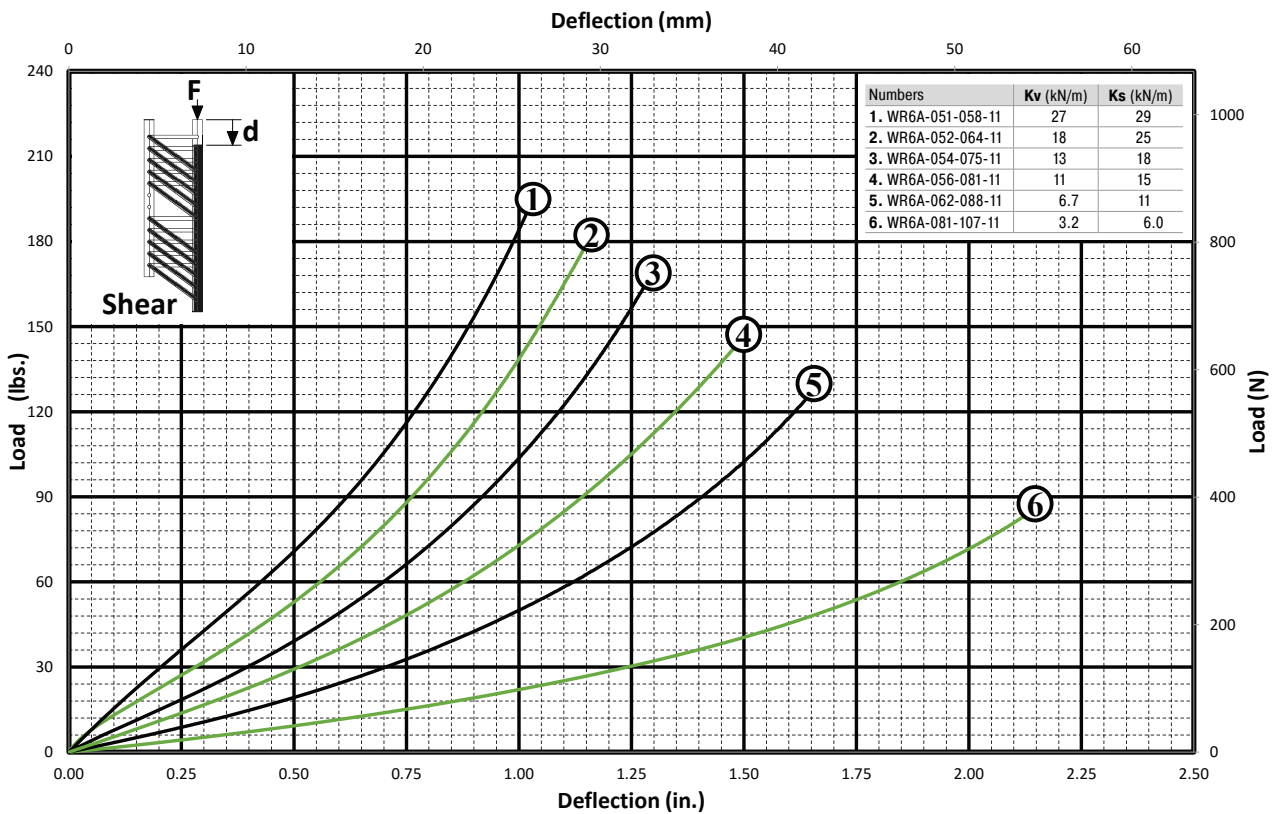


Tension

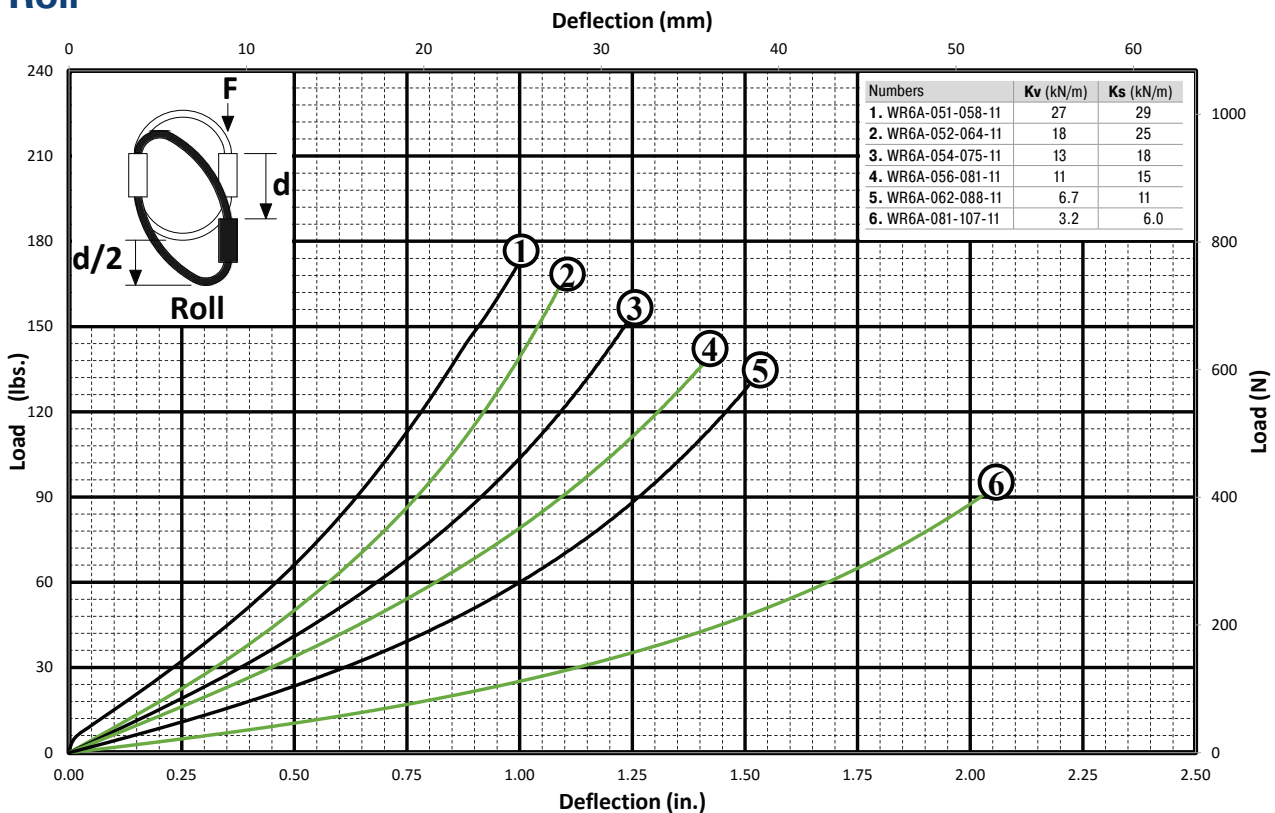


Issue 07/2020 – Specifications subject to change

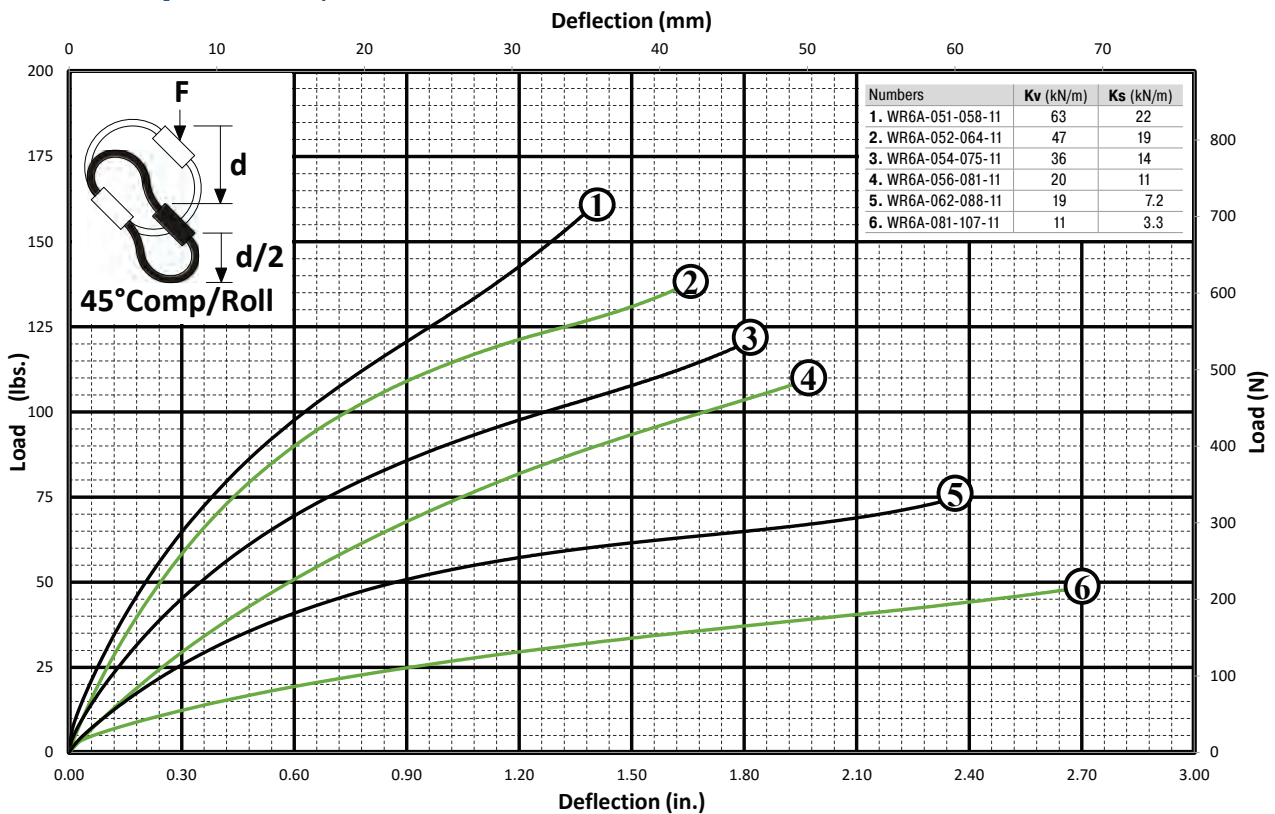
Shear



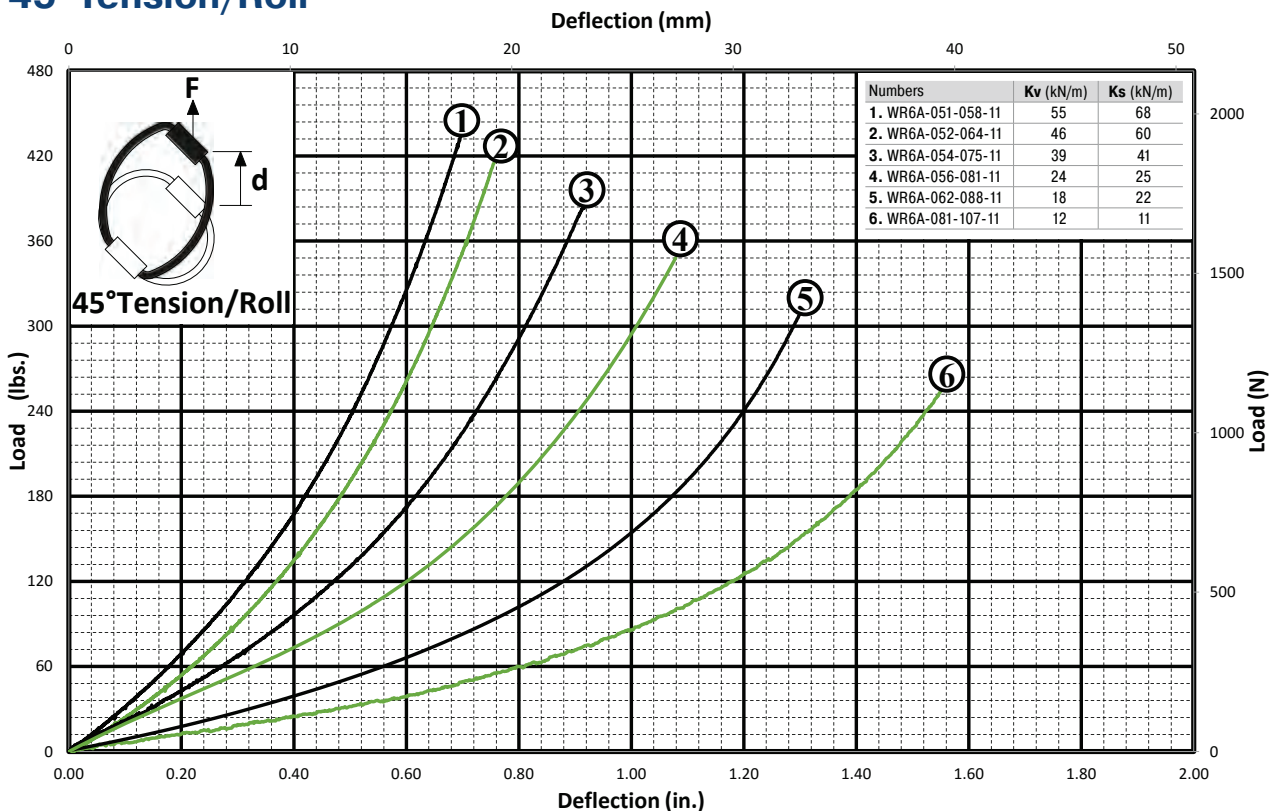
Roll



45° Compression/Roll



45° Tension/Roll



WR6

Helical Isolator

4.76 mm (3/16") Diameter Cable

Features

Rugged all metal construction
Fail safe construction
Long life and maintenance free
Three axis capability (6 dof)
High damping: $C/cc \approx 0.15$ to 0.20

Operating temperature range

-130°C to +260°C

Material

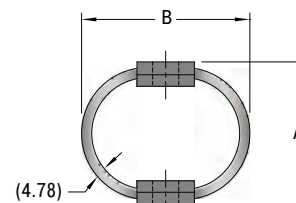
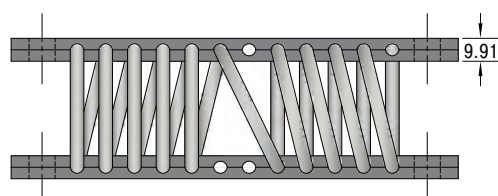
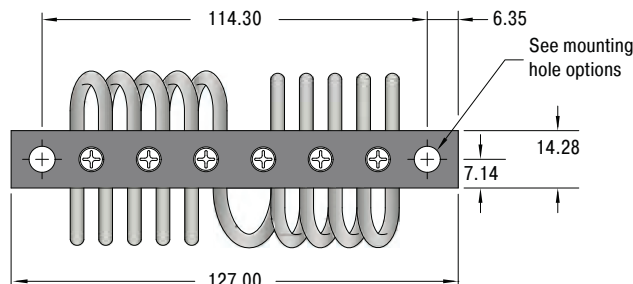
Cable: 300 Series SS per MIL-W-83420 or RR-W-410
Screws: 300 Series SS per MS51959-28
Inserts: 300 Series SS (alum bars only)
Retainer bars: Standard: 6061-T6 Alum alloy/
Chem film IAW MIL-DTL-5541, TYPE II, Class 3

Note

Mounting hole tolerances: ± 0.25 mm
Add 0.12 kg to Isolator weight for all stainless
steel versions

On request

Special materials, size, mounting holes, finish,
etc. available



Performance

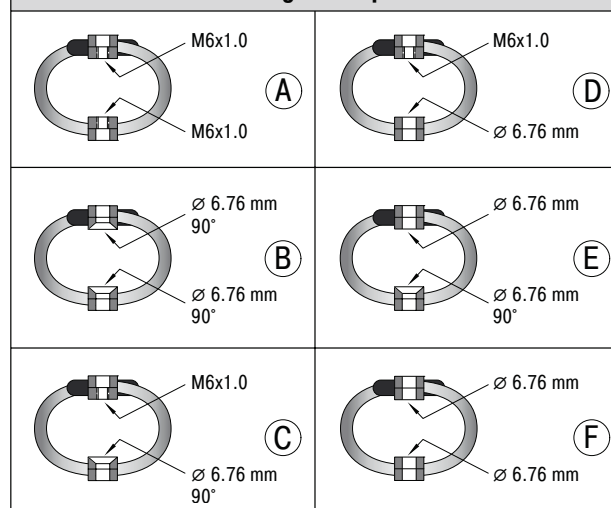
TYPES	A (+/- 0.8) mm	B mm	Compression			Shear/Roll (Average)			Weight kg
			Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	
WR6-031-036-10	30.5	35.6	336	319	10.2	110	138	10.2	0.167
WR6-033-038-10	33.0	38.1	278	248	11.4	100	123	11.4	0.170
WR6-036-041-10	35.6	40.6	251	223	12.7	73	90	12.7	0.176
WR6-038-043-10	38.1	43.2	219	187	15.2	63	82	15.2	0.182
WR6-041-046-10	40.6	45.7	168	138	17.8	51	65	17.8	0.187
WR6-043-048-10	43.2	48.2	129	103	20.3	39	54	20.3	0.193
WR6-048-053-10	48.2	53.3	89	67	25.4	28	35	25.4	0.210
WR6-051-058-10	51.0	58.4	75	57	27.9	21	30	27.9	0.221

Ordering Example

WR6-031-036-10-A

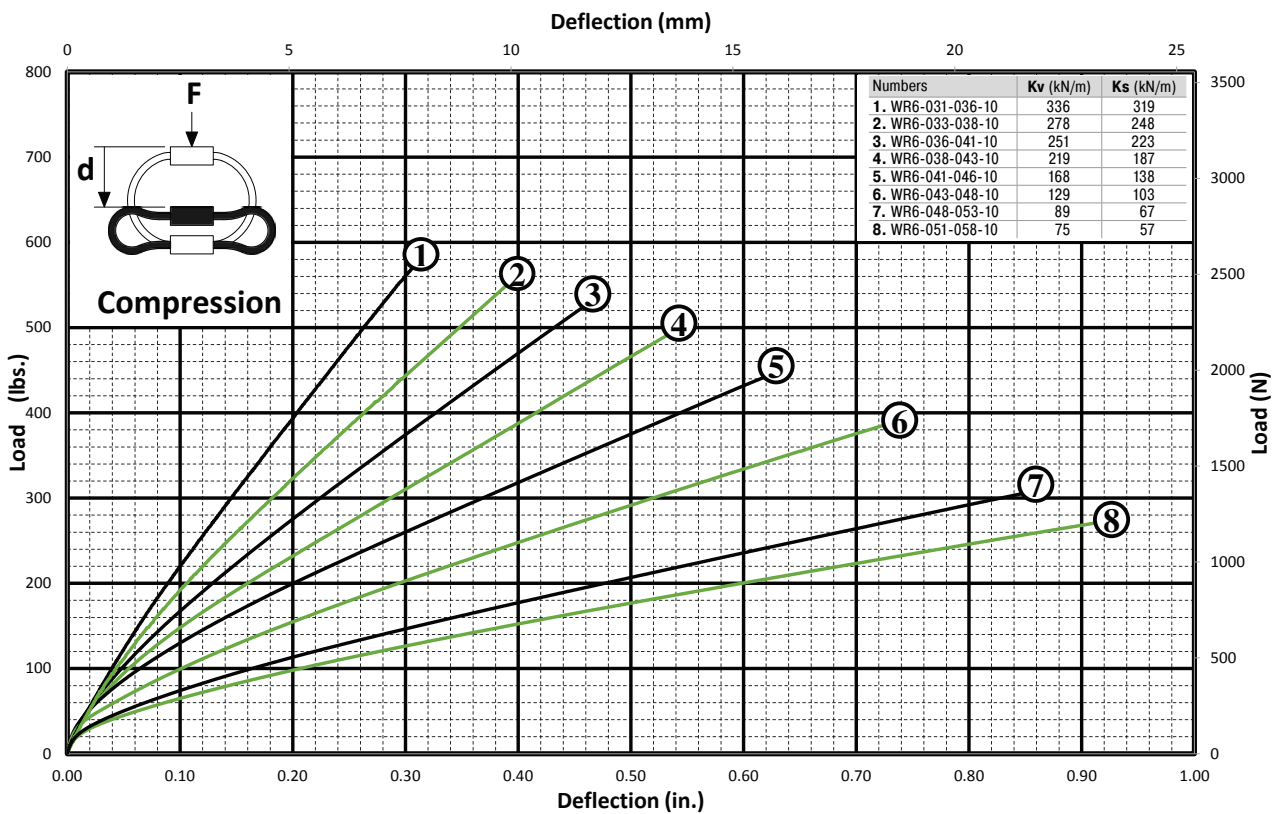
Type _____
Model size height _____
Model size wide _____
Number of loops _____
Mounting hole _____

Mounting Hole Options

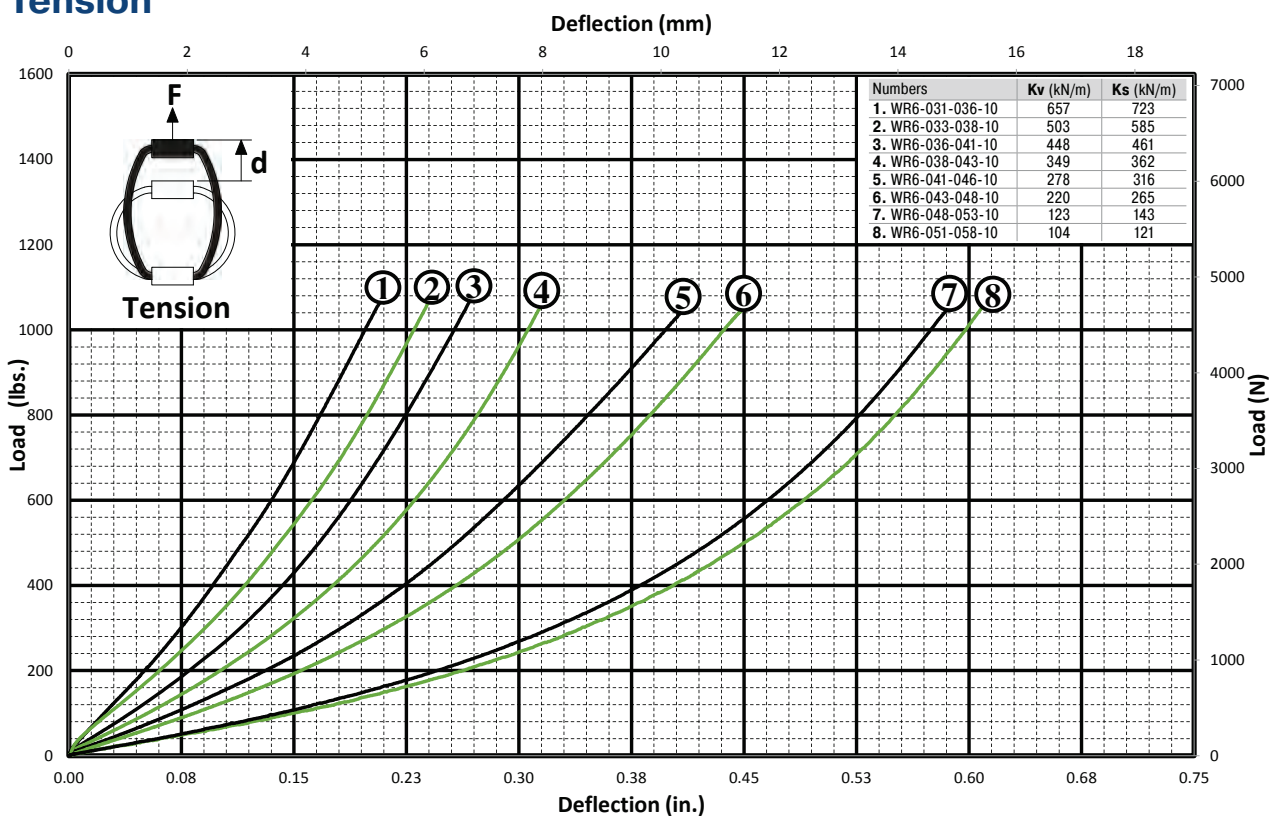


Issue 07/2020 – Specifications subject to change

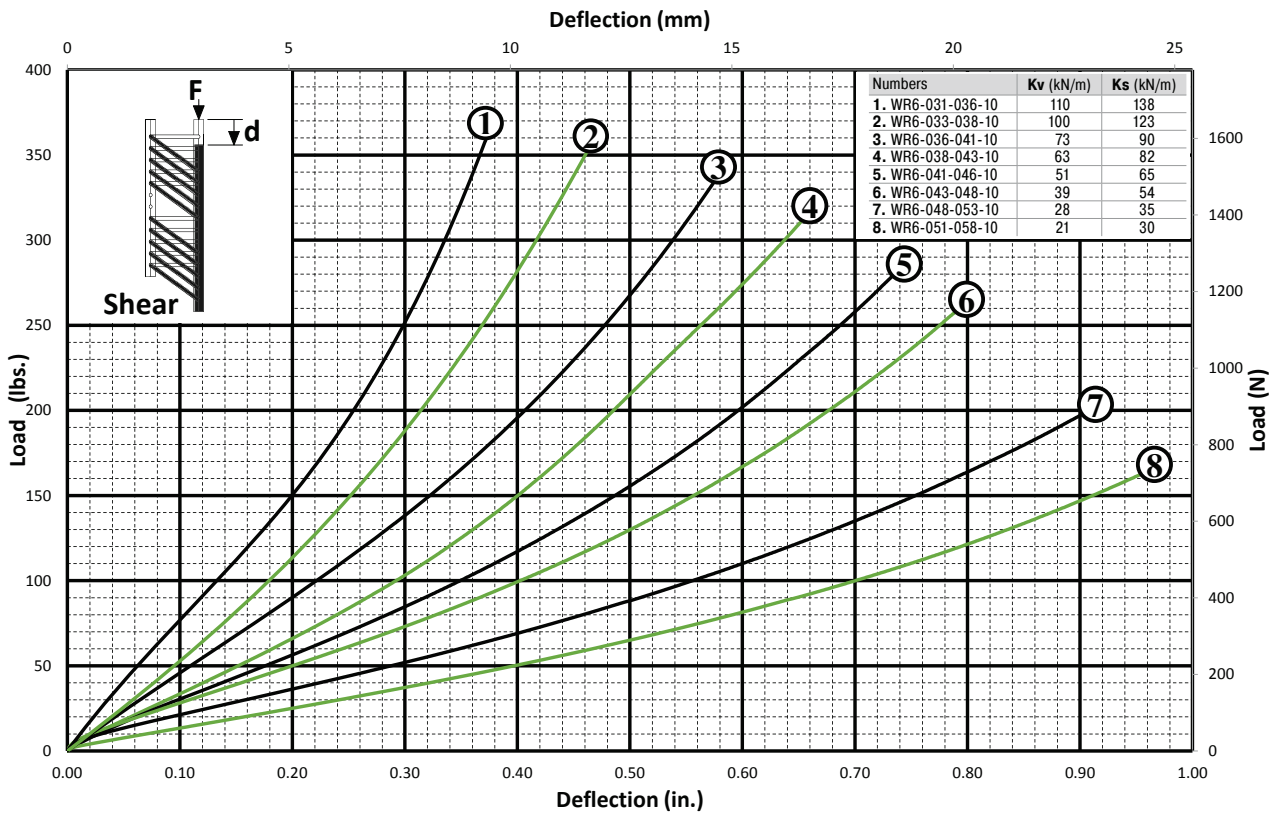
Compression



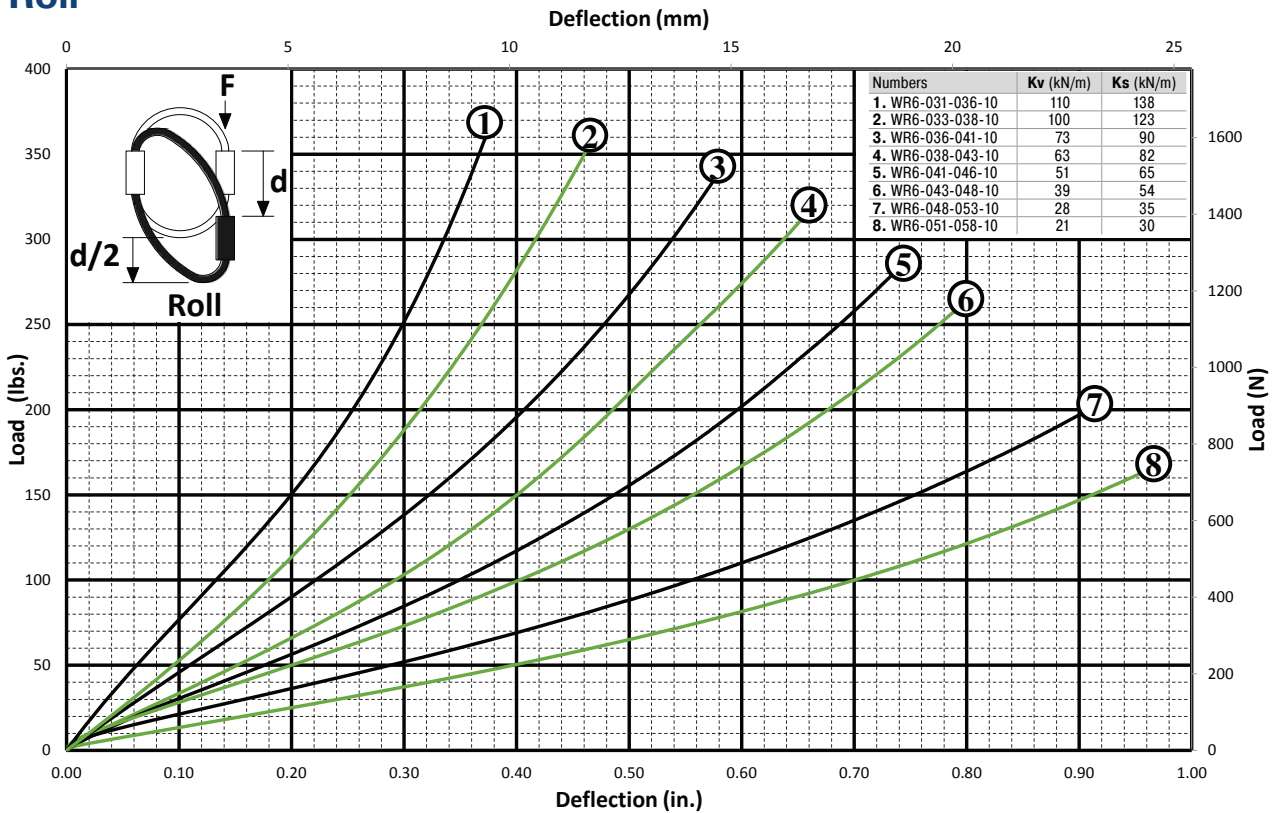
Tension



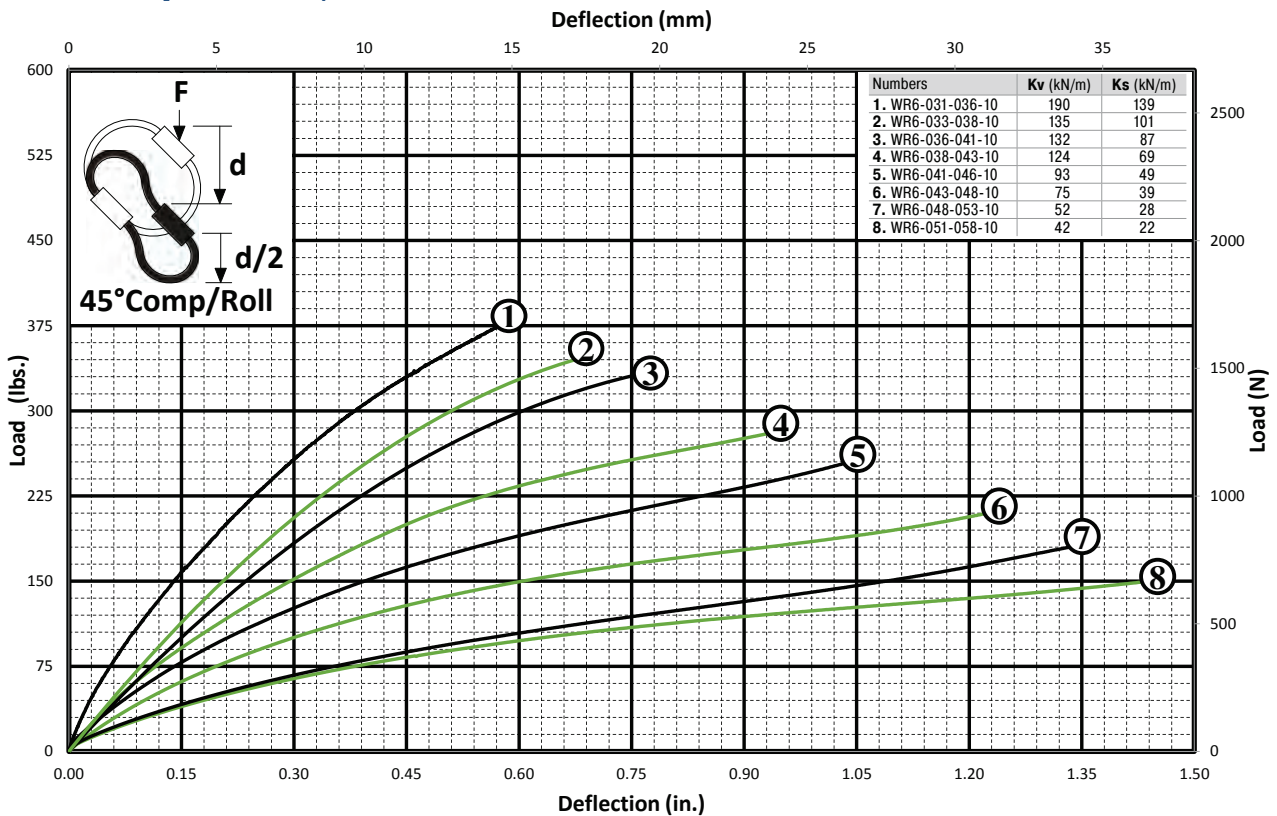
Shear



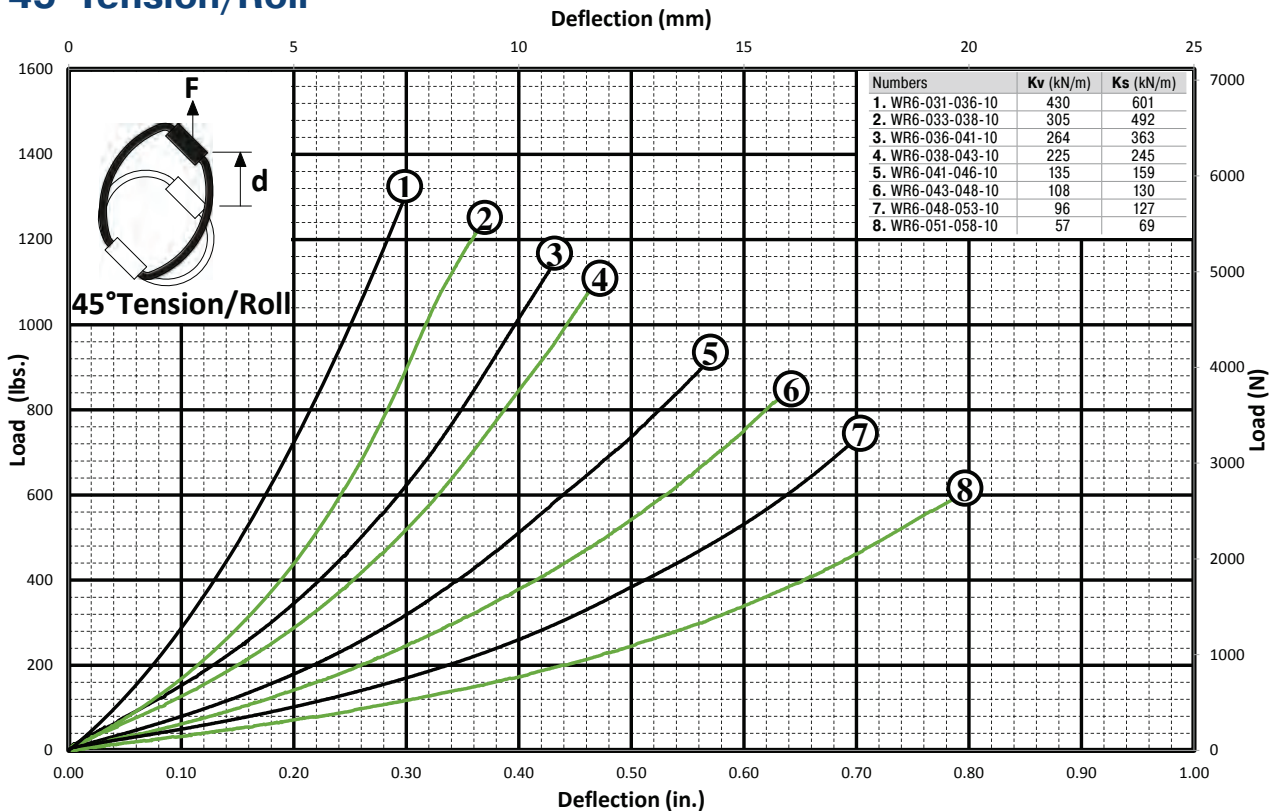
Roll



45° Compression/Roll



45° Tension/Roll



WR8

Helical Isolator

6.35 mm (1/4") Diameter Cable

Features

Rugged all metal construction
Fail safe construction
Long life and maintenance free
Three axis capability (6 dof)
High damping: C/cc $\approx$ 0.15 to 0.20

Operating temperature range

-130°C to +260°C

Material

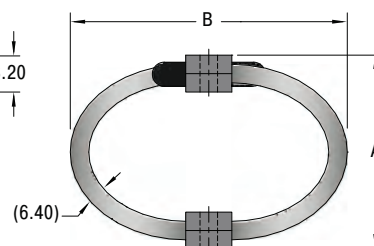
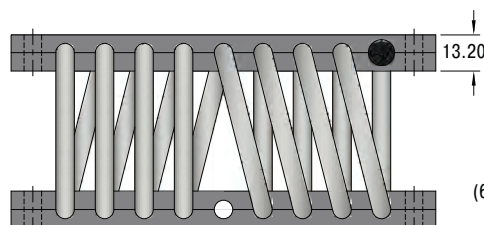
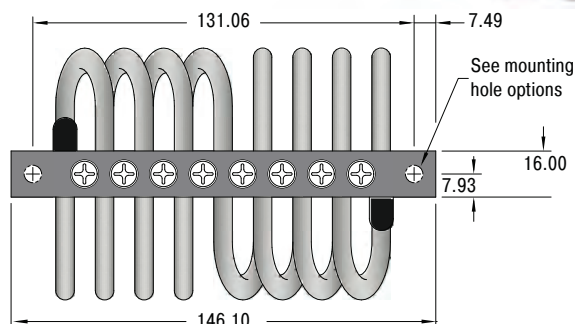
Cable: 300 Series SS per MIL-W-83420 or RR-W-410
Screws: 300 Series SS passivated IAW ASTM A967
Inserts: 300 Series SS (alum bars only)
Retainer bars: Standard: 6061-T6 Alum alloy/
Chem film IAW MIL-DTL-5541, TYPE II, Class 3

Note

Mounting hole tolerances: ± 0.25 mm
Add 0.20 kg to Isolator weight for all stainless steel versions

On request

Special materials, size, mounting holes, finish, etc. available



Performance

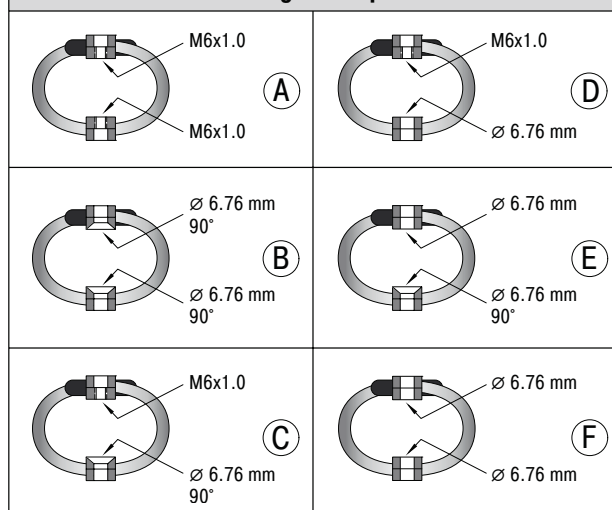
TYPES	A (+/- 0.8) mm	B mm	Compression			Shear/Roll (Average)			Weight kg
			Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	
WR8-048-056-8	48.4	55.9	222	168	17.8	69	76	17.8	0.318
WR8-054-064-8	54.1	63.5	163	121	22.9	67	55	22.9	0.346
WR8-059-071-8	58.7	71.1	116	78	27.9	42	39	27.9	0.358
WR8-062-080-8	62.2	79.5	77	53	31.8	31	28	31.8	0.389
WR8-065-089-8	64.8	88.9	51	37	34.3	22	19	34.3	0.426
WR8-066-095-8	66.0	95.3	50	36	35.6	18	18	35.6	0.443
WR8-069-100-8	68.6	100.3	37	25	38.1	15	14	38.1	0.454
WR8-083-108-8	82.6	108.0	27	17	52.1	9.3	9.3	52.1	0.494

Ordering Example

Type _____
Model size height _____
Model size wide _____
Number of loops _____
Mounting hole _____

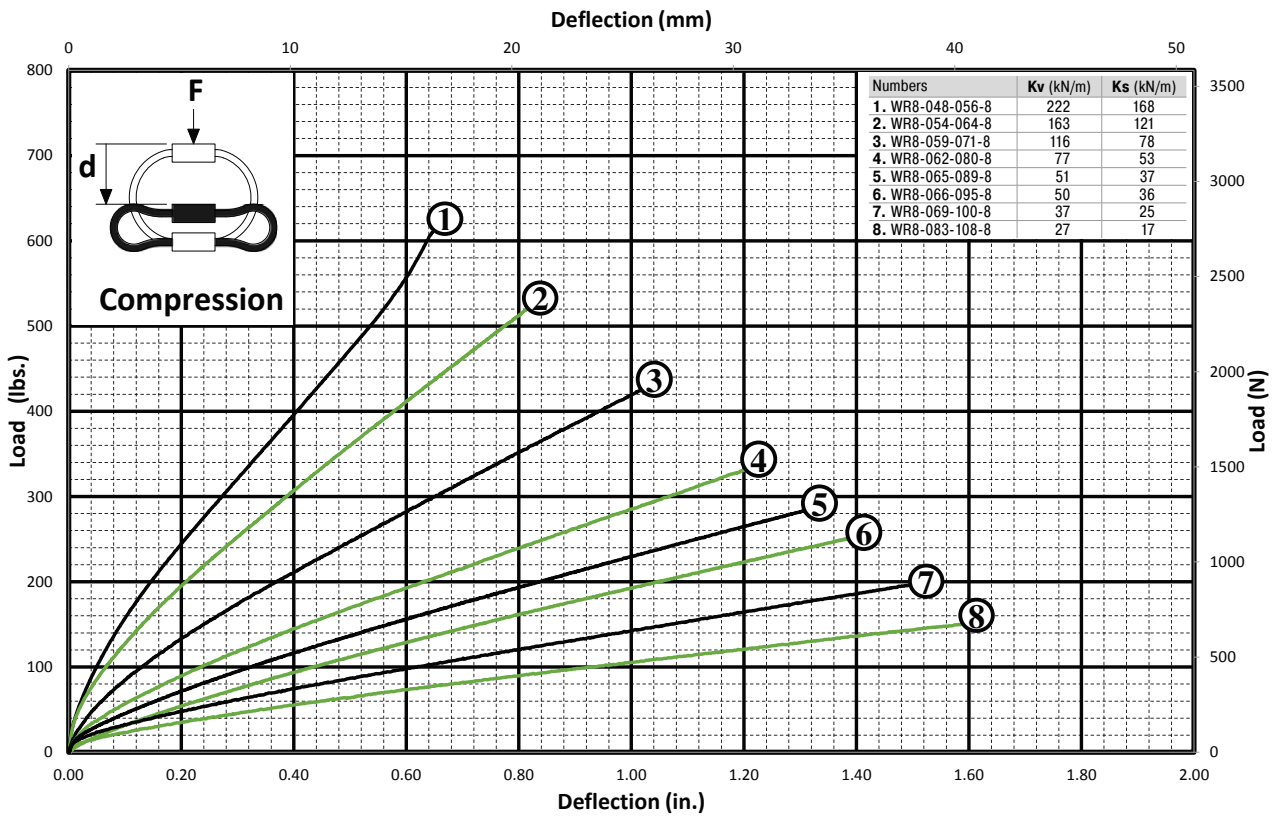
WR8-048-056-8-A

Mounting Hole Options

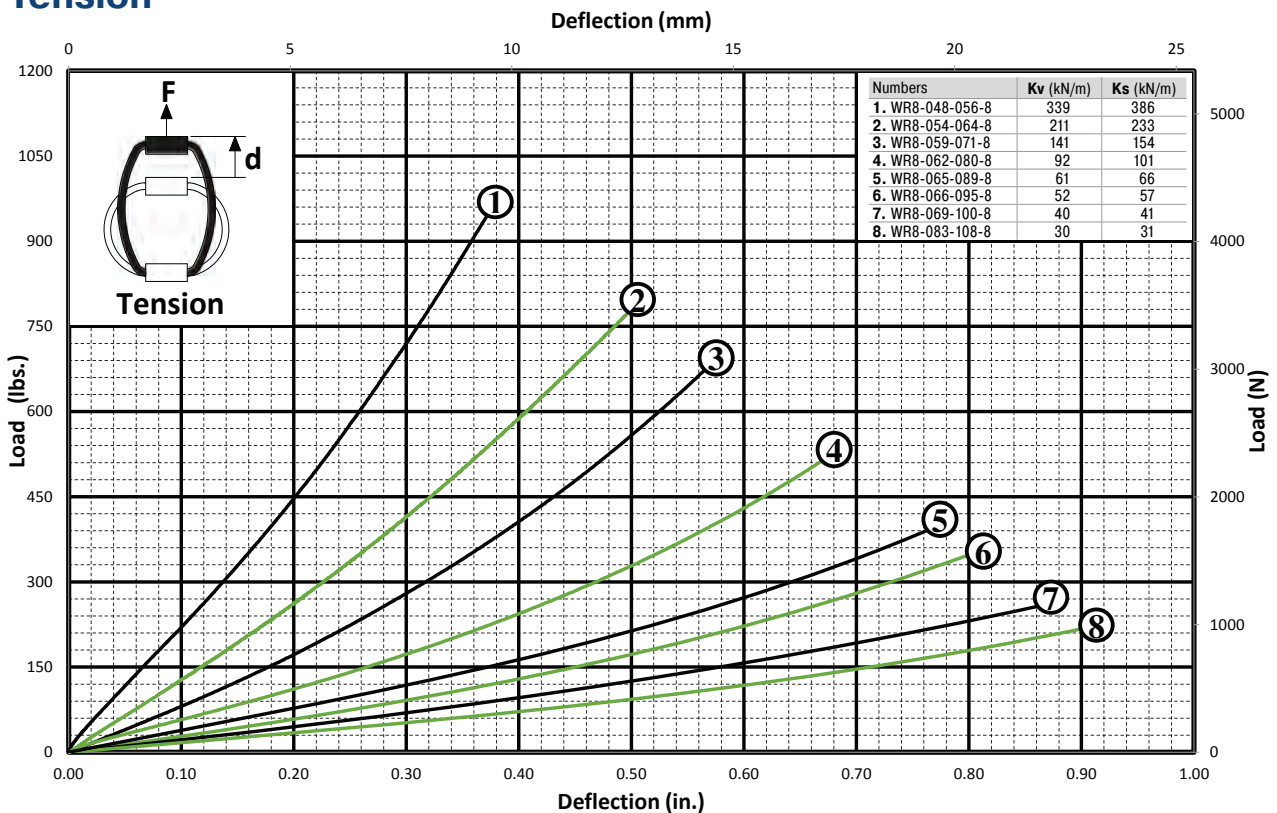


Issue 07/2020 – Specifications subject to change

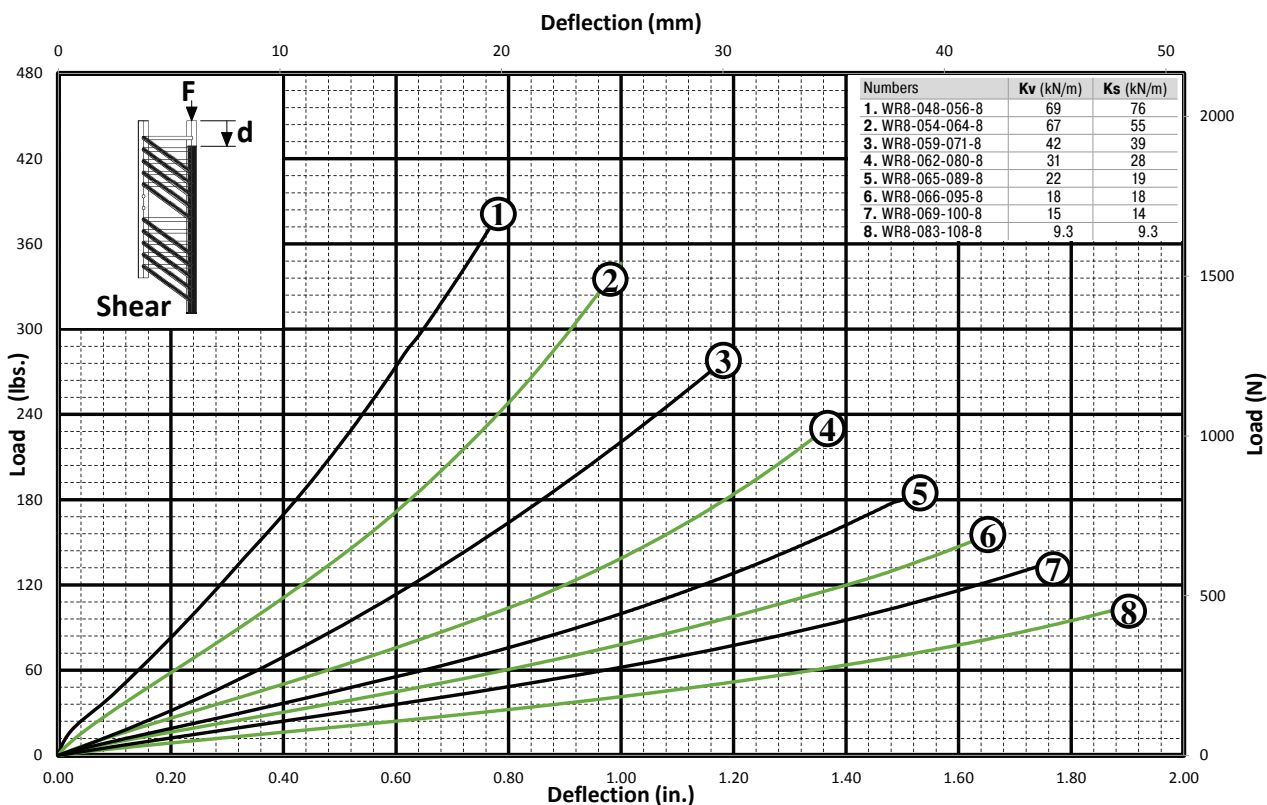
Compression



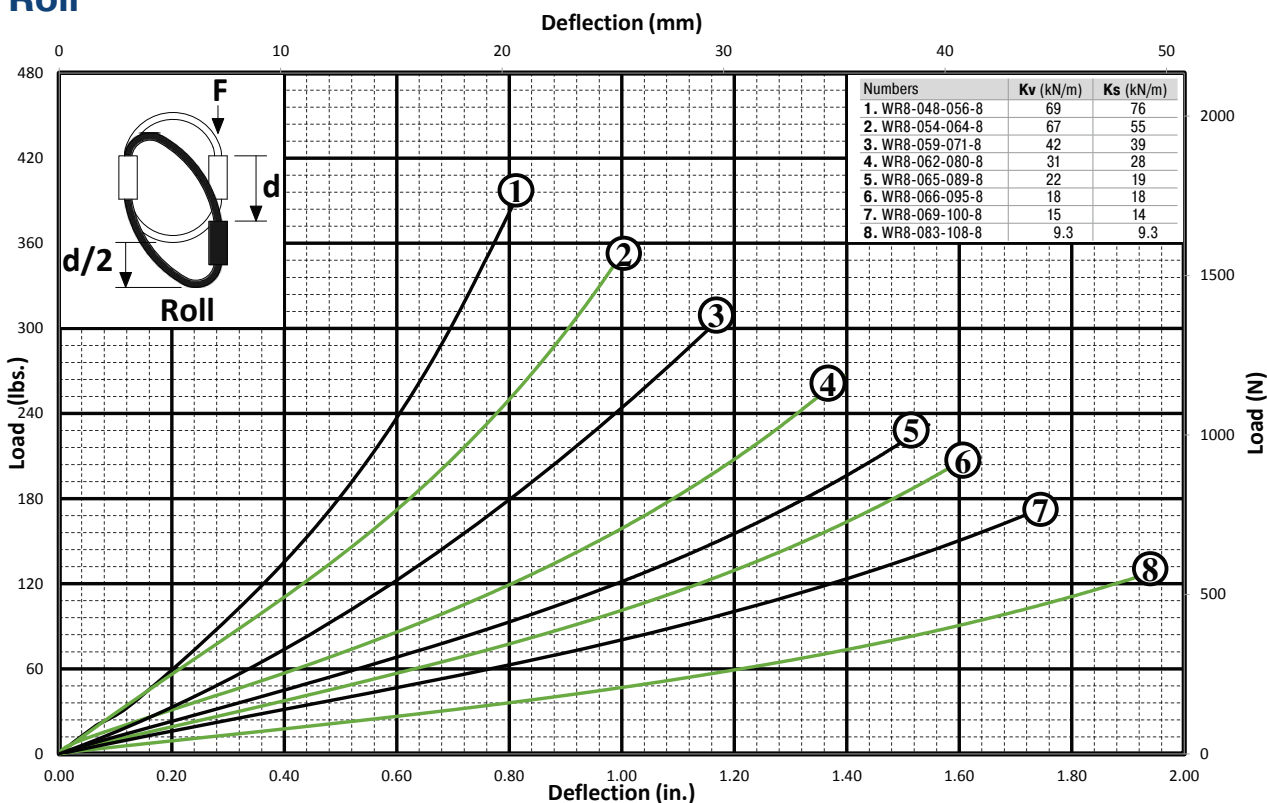
Tension



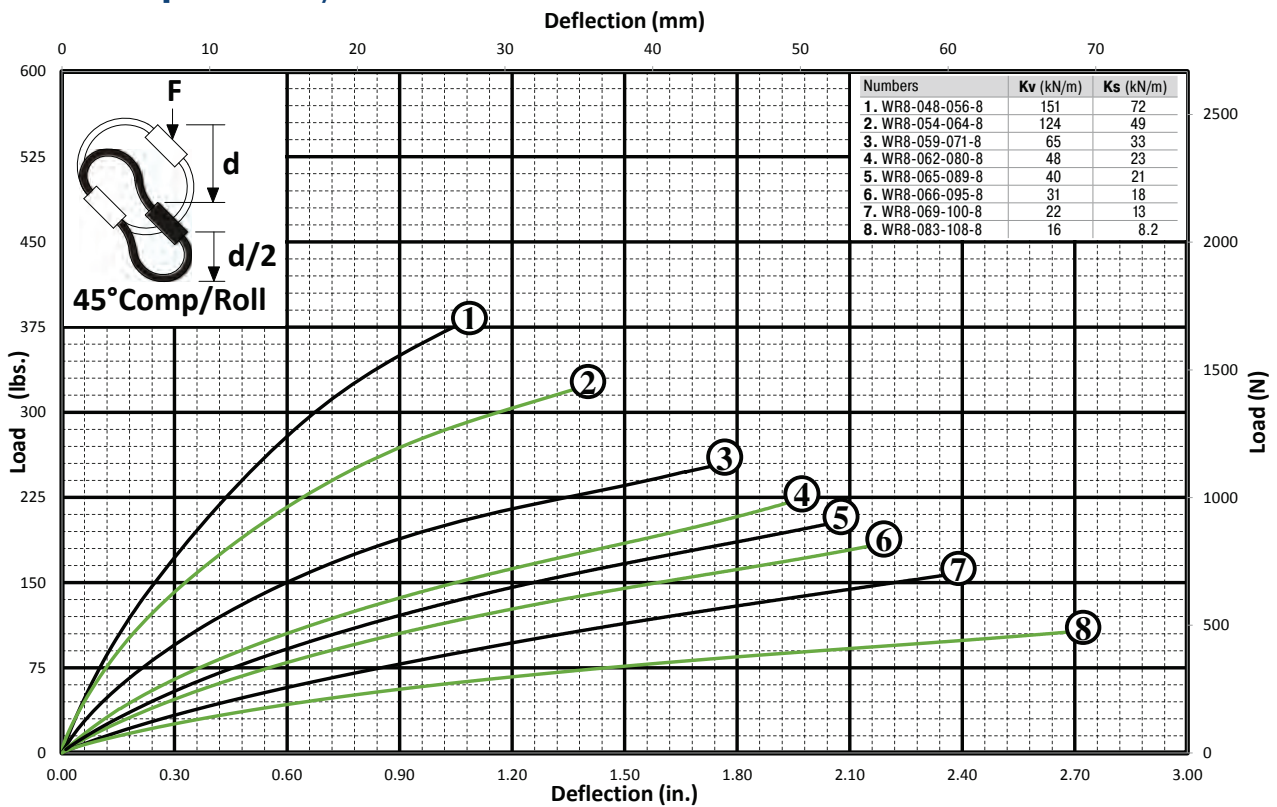
Shear



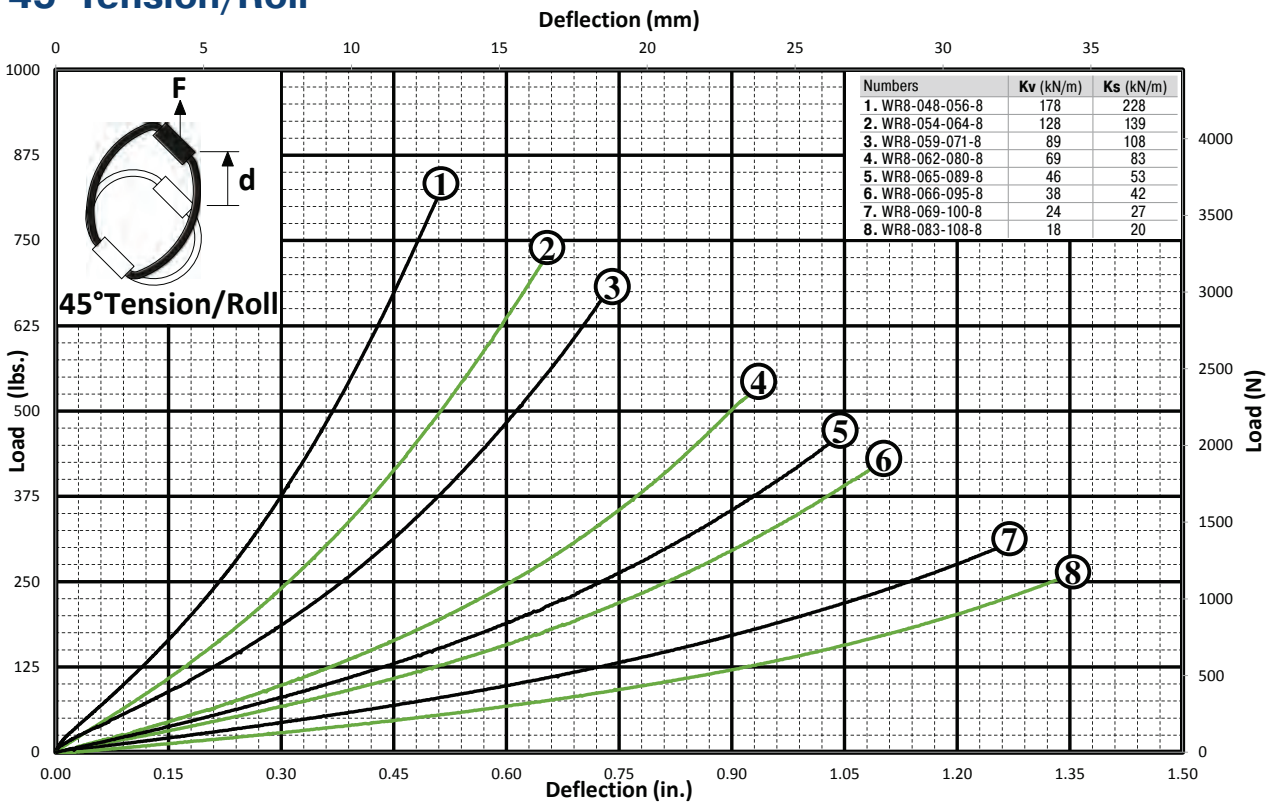
Roll



45° Compression/Roll



45° Tension/Roll



WR10

Helical Isolator

7.94 mm (5/16") Diameter Cable

Features

Rugged all metal construction
Fail safe construction
Long life and maintenance free
Three axis capability (6 dof)
High damping: C/cc $\approx$ 0.15 to 0.20

Operating temperature range

-130°C to +260°C

Material

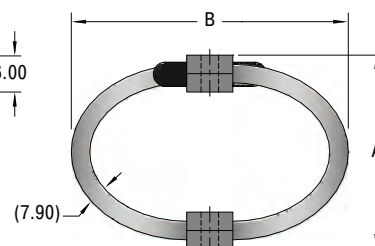
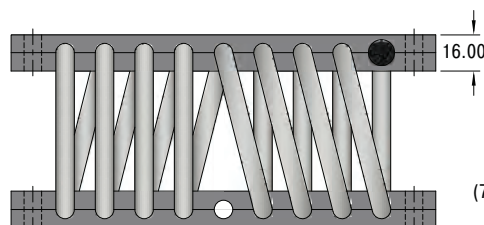
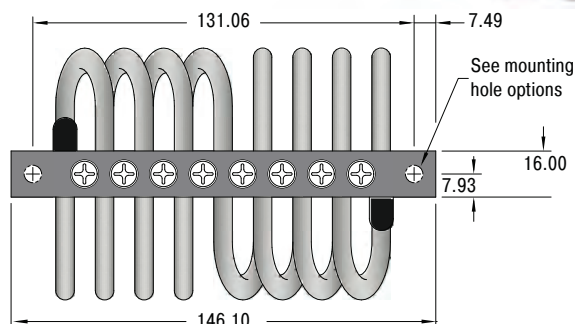
Cable: 300 Series SS per MIL-W-83420 or RR-W-410
Screws: 300 Series SS passivated IAW ASTM A967
Inserts: 300 Series SS (alum bars only)
Retainer bars: Standard: 6061-T6 Alum alloy/
Chem film IAW MIL-DTL-5541, TYPE II, Class 3

Note

Mounting hole tolerances: ± 0.25 mm
Add 0.26 kg to Isolator weight for all stainless steel versions

On request

Special materials, size, mounting holes, finish, etc. available



Performance

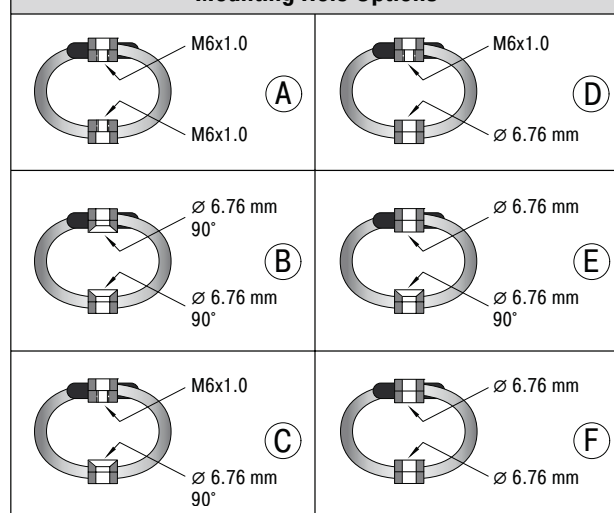
TYPES	A (+/- 0.8) mm	B mm	Compression			Shear/Roll (Average)			Weight kg
			Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	
WR10-055-059-8	54.6	59.2	432	328	17.8	128	173	17.8	0.486
WR10-061-067-8	60.5	66.8	335	214	24.1	96	105	24.1	0.495
WR10-065-074-8	65.0	74.4	189	141	29.2	77	87	29.2	0.522
WR10-069-083-8	68.6	82.8	168	115	31.8	51	62	31.8	0.568
WR10-071-092-8	71.1	92.2	114	81	34.3	38	41	34.3	0.608
WR10-072-099-8	72.4	98.6	95	68	35.6	36	38	35.6	0.631
WR10-075-104-8	74.9	103.6	83	59	38.1	29	31	38.1	0.654
WR10-089-111-8	88.9	111.3	61	39	52.1	18	21	52.1	0.717

Ordering Example

Type _____
Model size height _____
Model size wide _____
Number of loops _____
Mounting hole _____

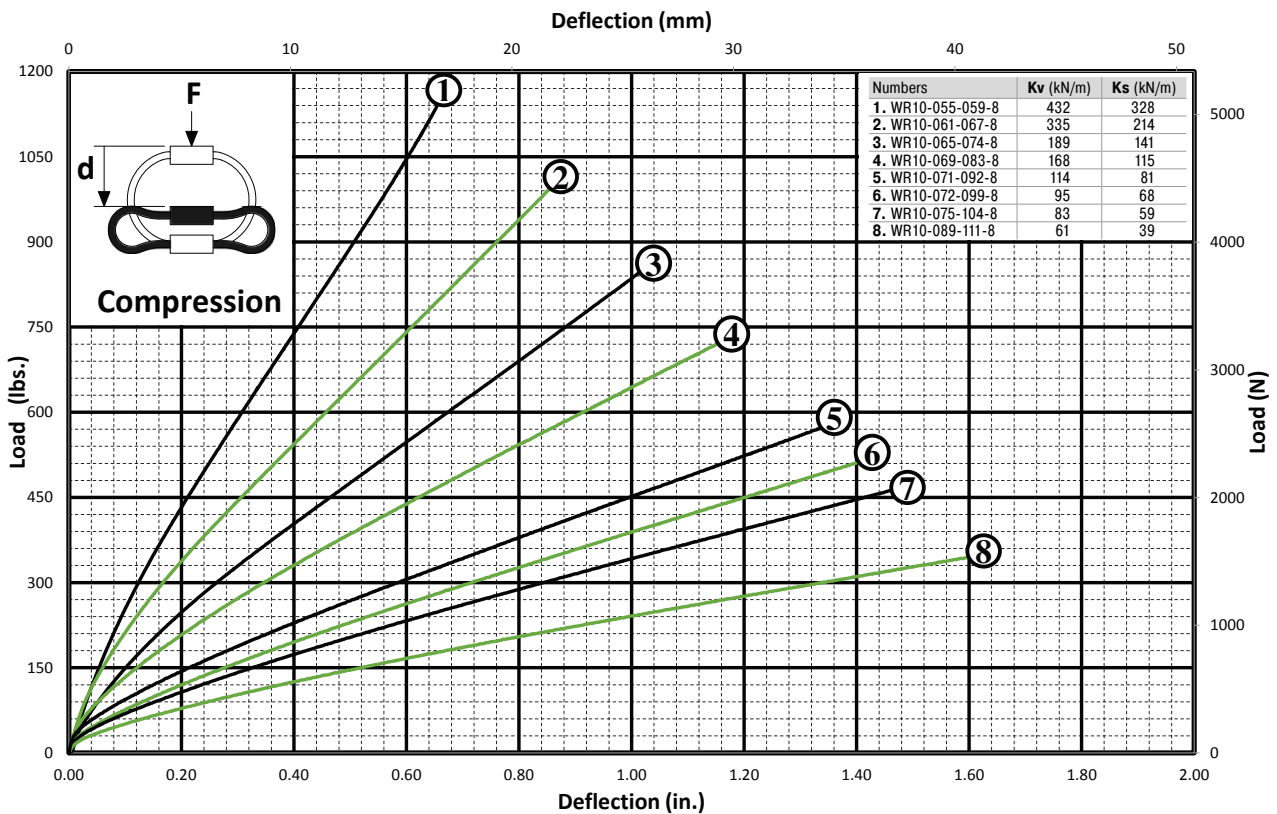
WR10-055-059-8-A

Mounting Hole Options

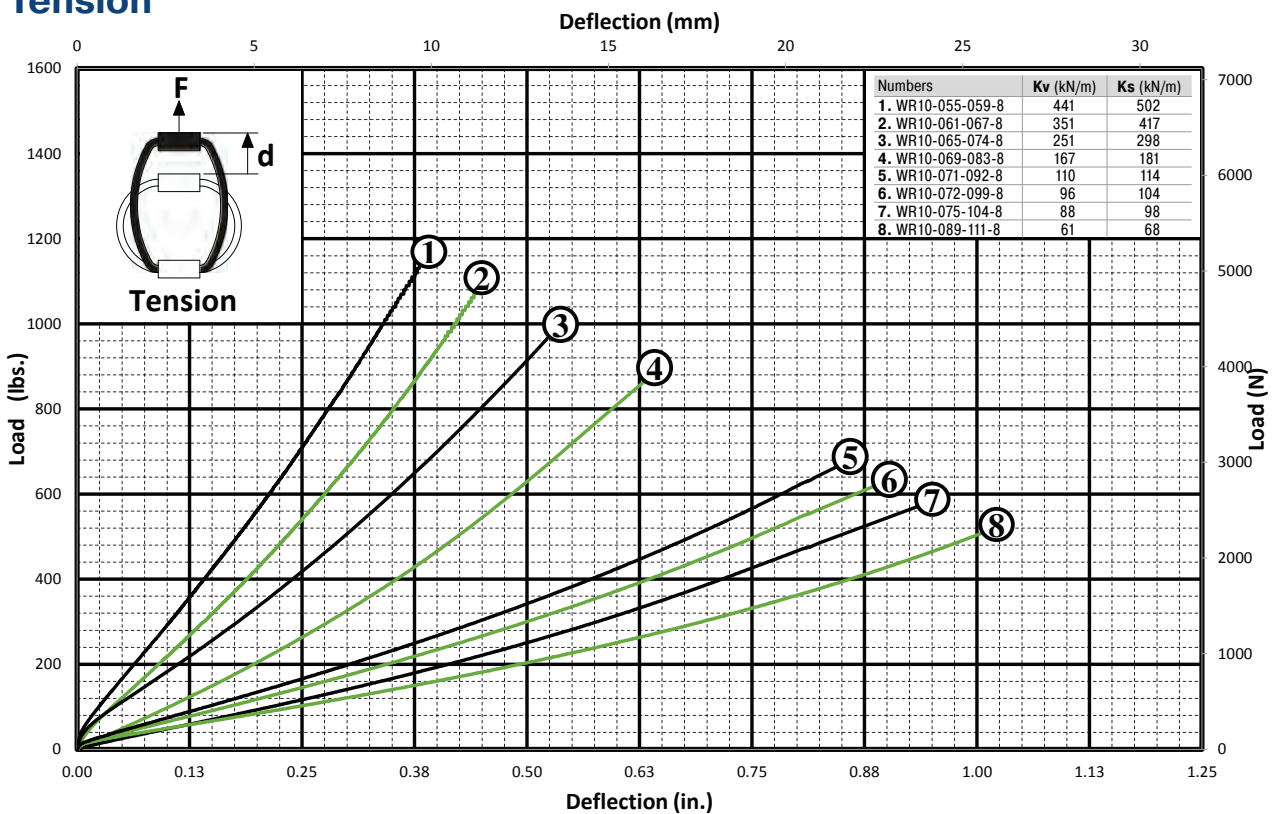


Issue 07/2020 – Specifications subject to change

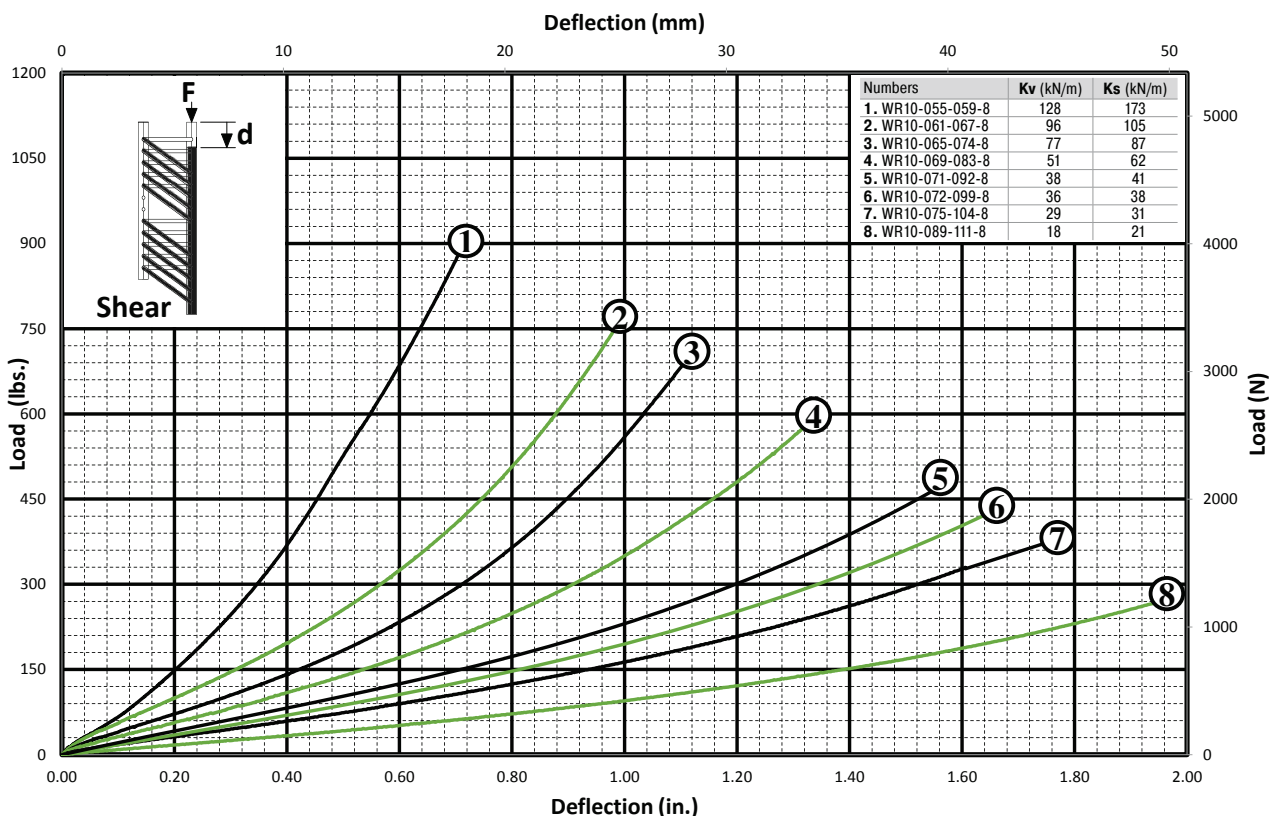
Compression



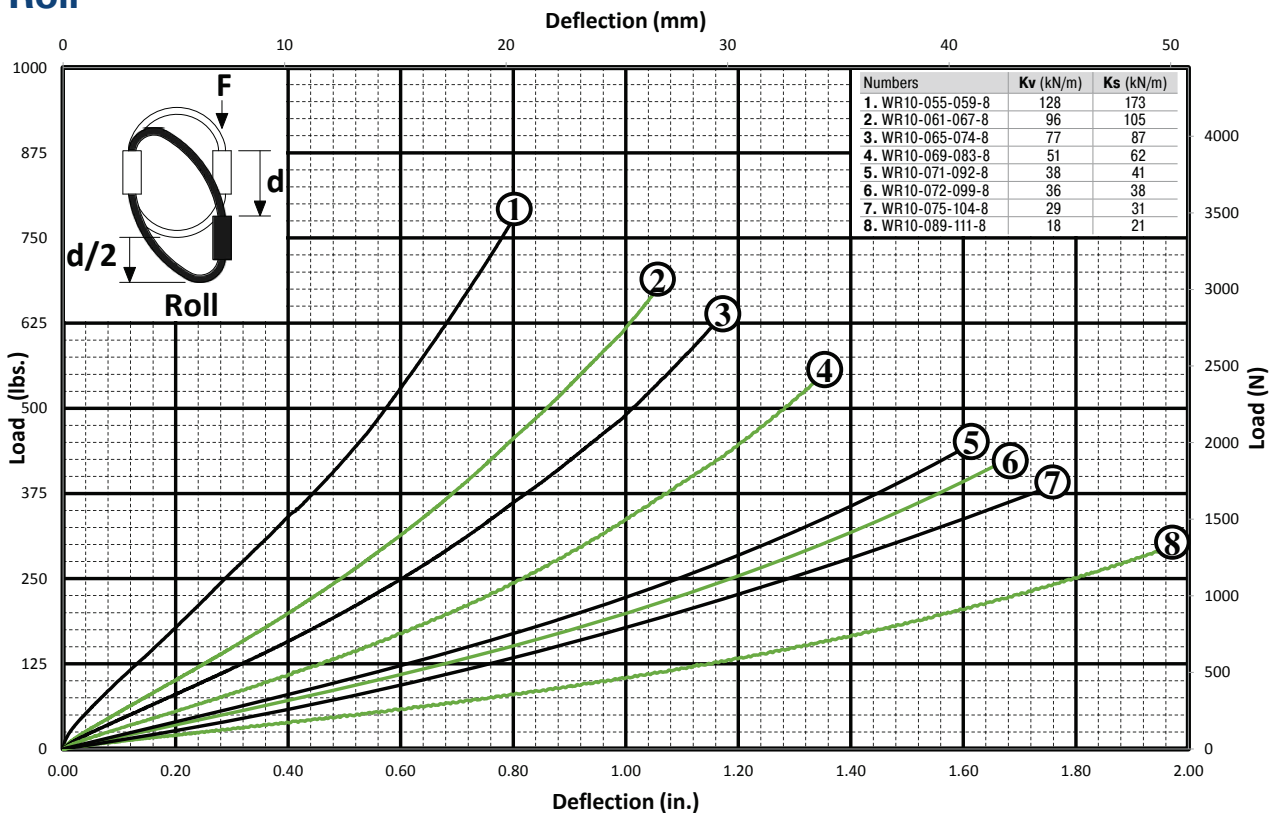
Tension



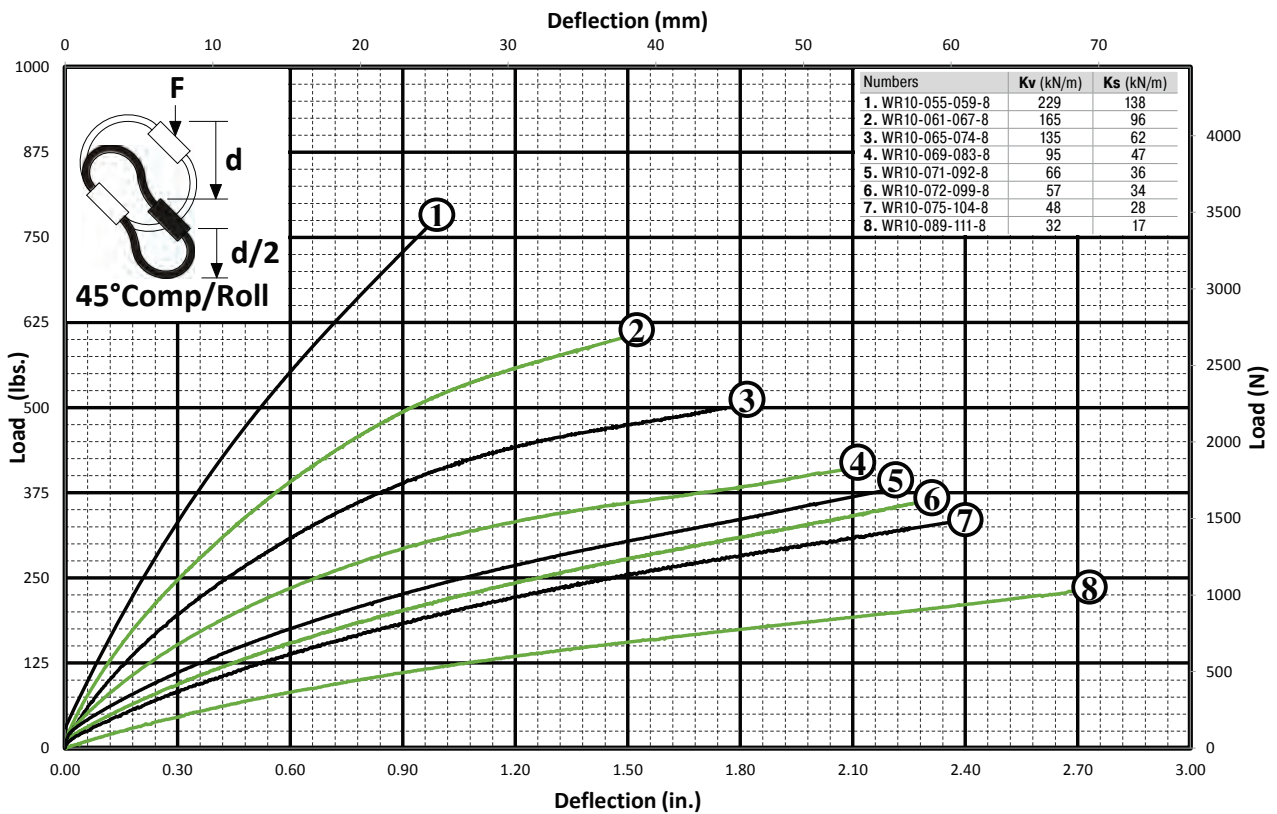
Shear



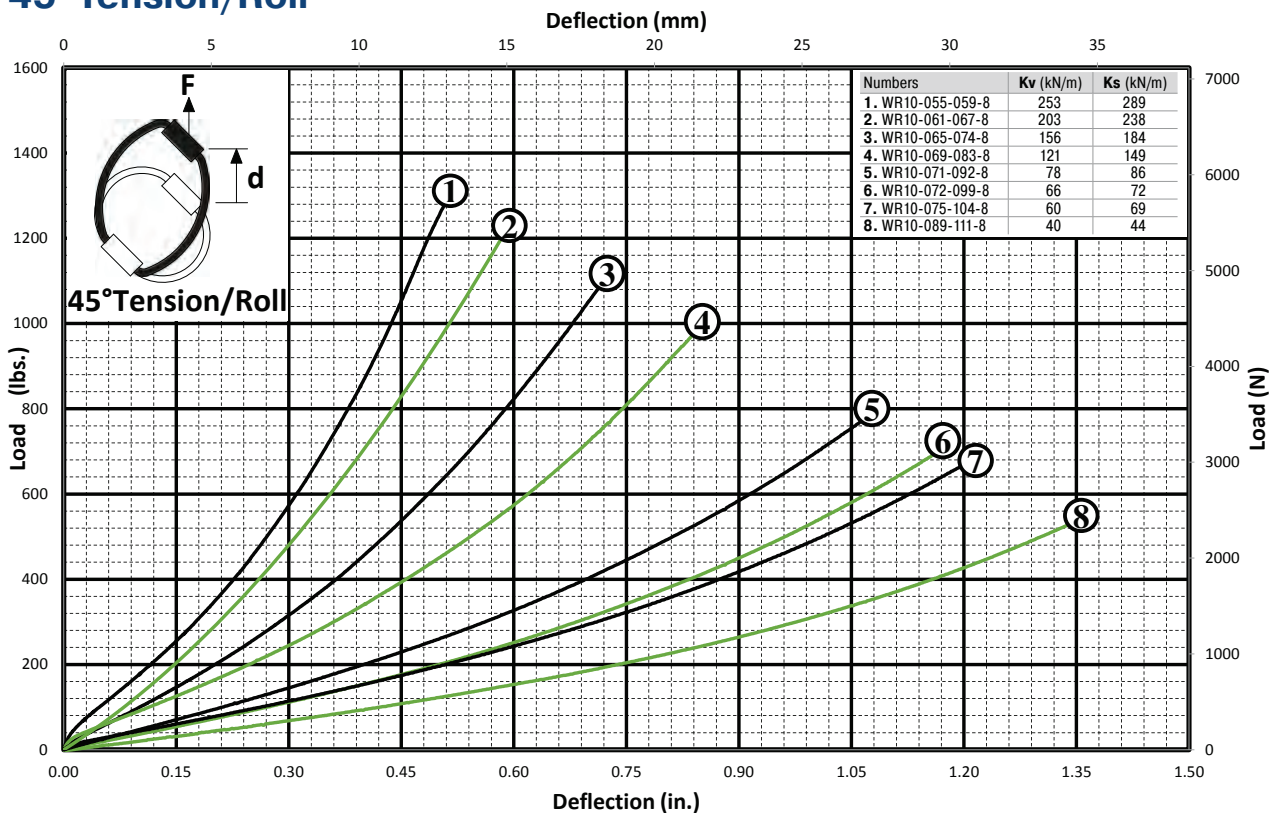
Roll



45° Compression/Roll



45° Tension/Roll



WR12A

Helical Isolator

9.53 mm (3/8") Diameter Cable

Features

Rugged all metal construction
Fail safe construction
Long life and maintenance free
Three axis capability (6 dof)
High damping: C/cc $\approx$ 0.15 to 0.20

Operating temperature range

-130°C to +260°C

Material

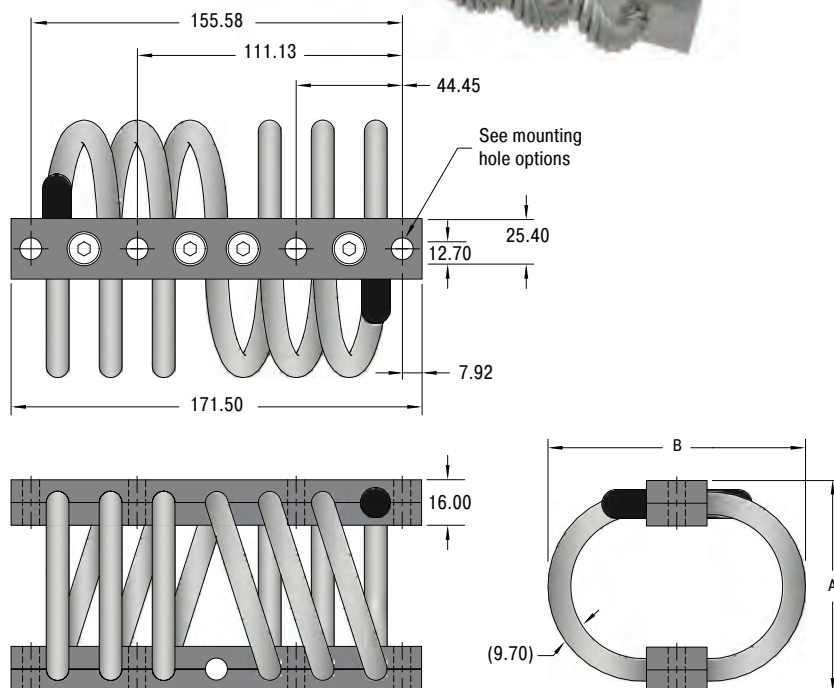
Cable: 300 Series SS per MIL-W-83420 or RR-W-410
Screws: 300 Series SS passivated IAW ASTM A967
Inserts: 300 Series SS (alum bars only)
Retainer bars: Standard: 6061-T6 Alum alloy/
Chem film IAW MIL-DTL-5541, TYPE II, Class 3

Note

Mounting hole tolerances: ± 0.25 mm
Add 0.51 kg to Isolator weight for all stainless steel versions

On request

Special materials, size, mounting holes, finish, etc. available



Performance

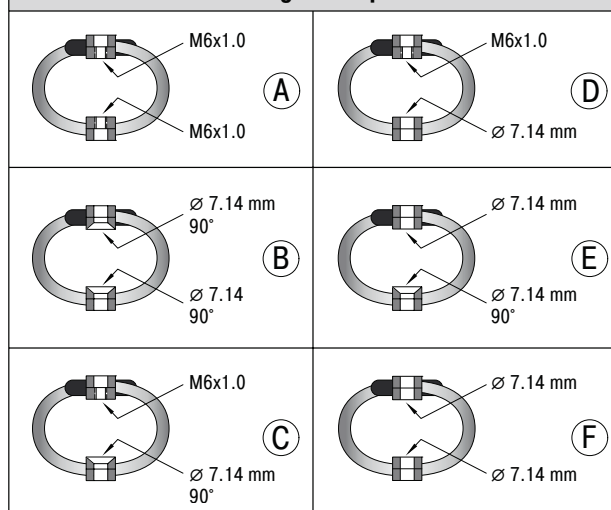
TYPES	A (+/- 0.8) mm	B mm	Compression			Shear/Roll (Average)			Weight kg
			Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	
WR12A-071-084-6	71.1	84.1	226	144	31.8	67	96	31.8	0.790
WR12A-074-089-6	73.7	88.9	197	123	34.3	59	70	34.3	0.800
WR12A-076-105-6	76.2	104.9	174	101	36.8	56	61	36.8	0.870
WR12A-083-108-6	82.6	108.0	141	83	43.2	55	53	43.2	0.900
WR12A-089-108-6	88.9	108.0	134	76	49.5	43	46	49.5	0.930
WR12A-105-121-6	104.9	120.7	84	48	66.0	20	33	66.0	1.020
WR12A-108-140-6	108.0	139.7	63	34	68.6	19	21	68.6	1.110

Ordering Example

Type _____
Model size height _____
Model size wide _____
Number of loops _____
Mounting hole _____

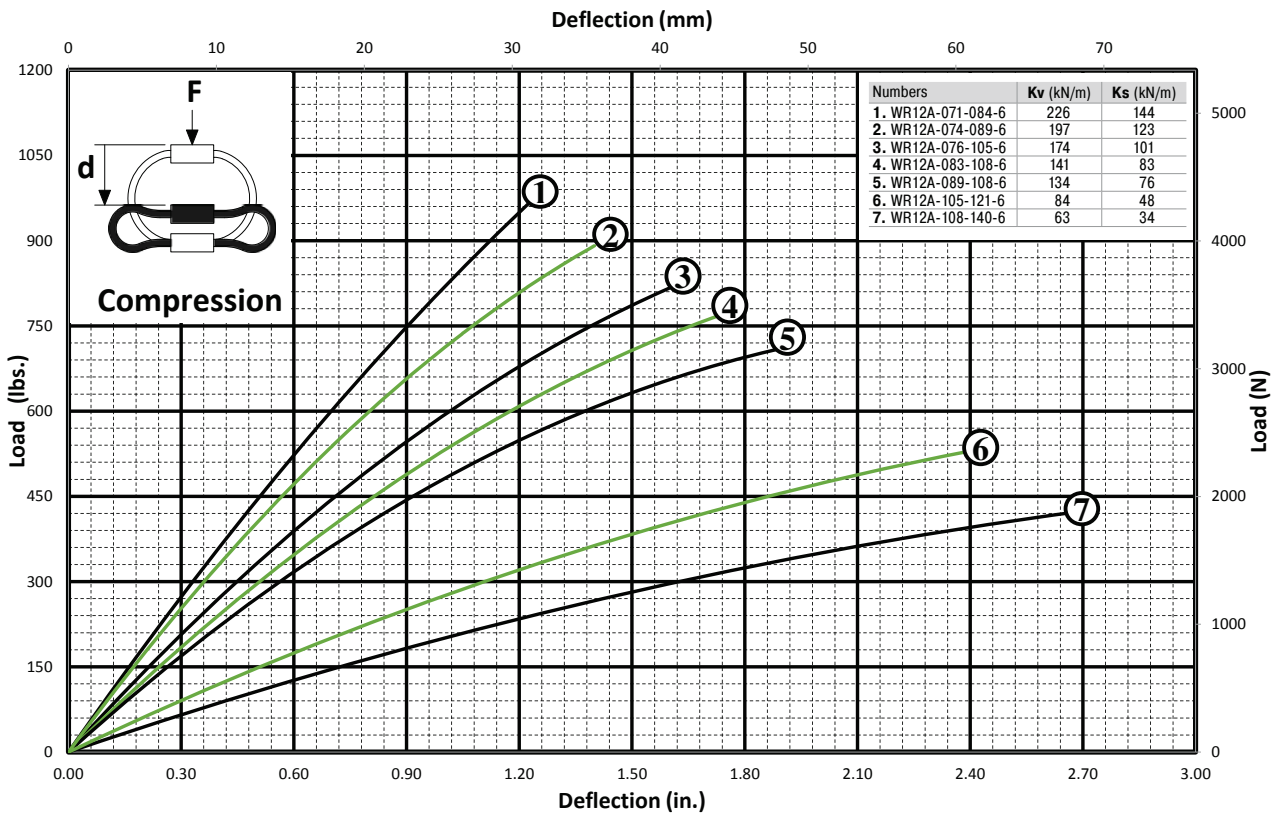
WR12A-071-084-6-A

Mounting Hole Options

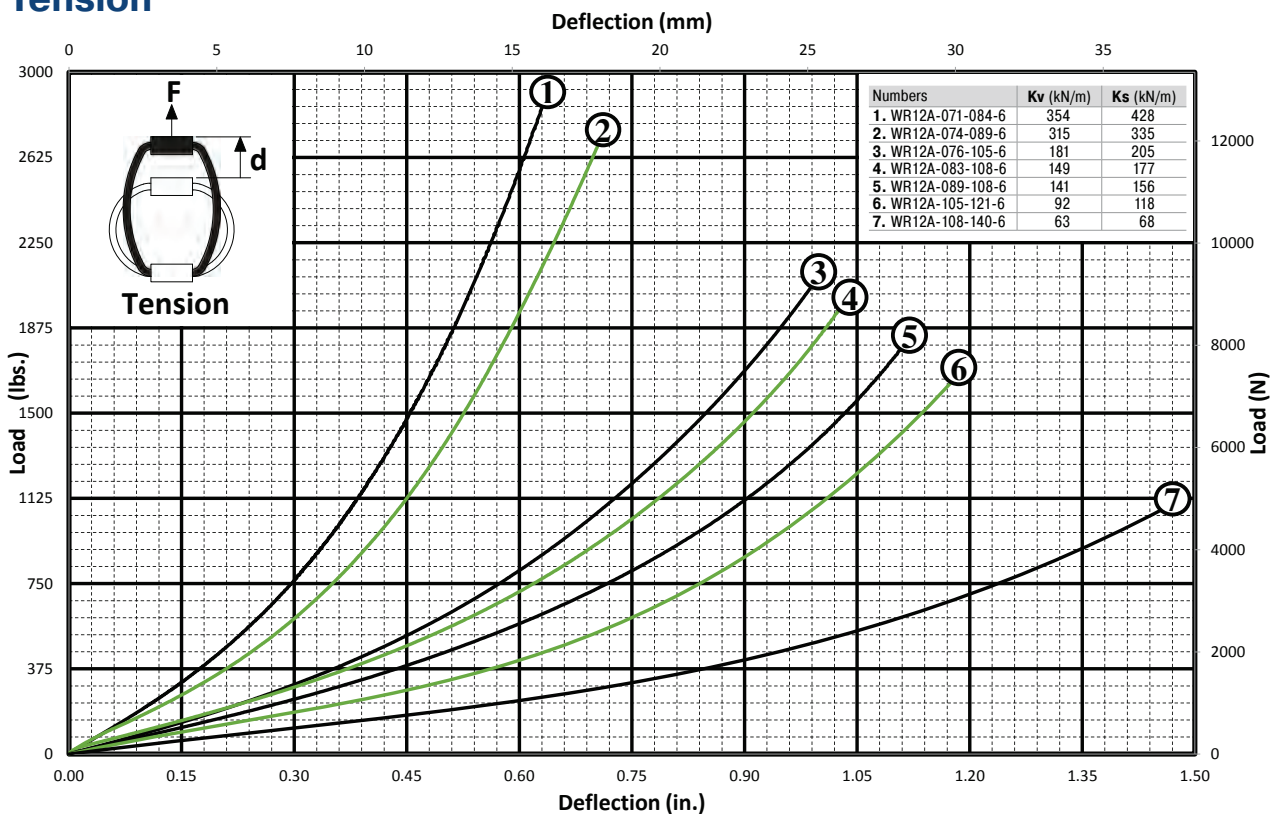


Issue 07/2020 – Specifications subject to change

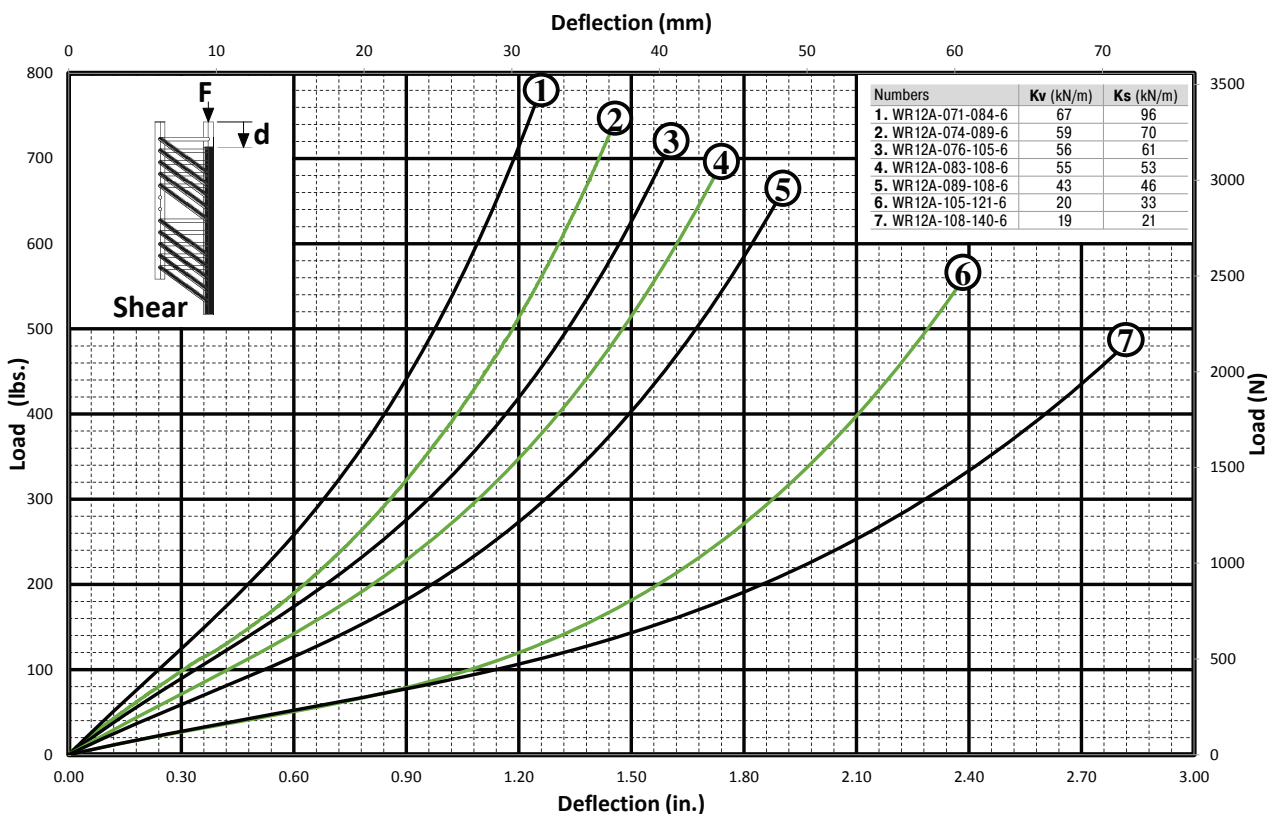
Compression



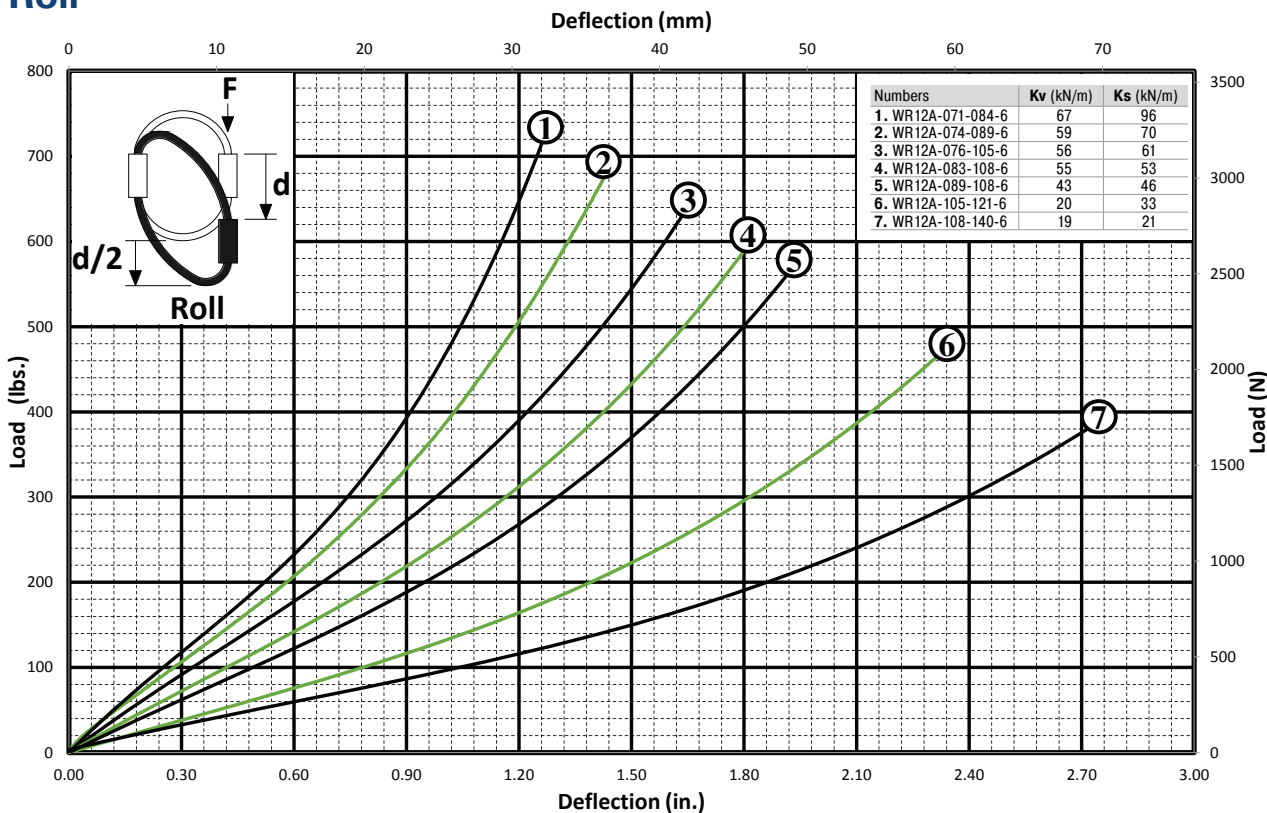
Tension



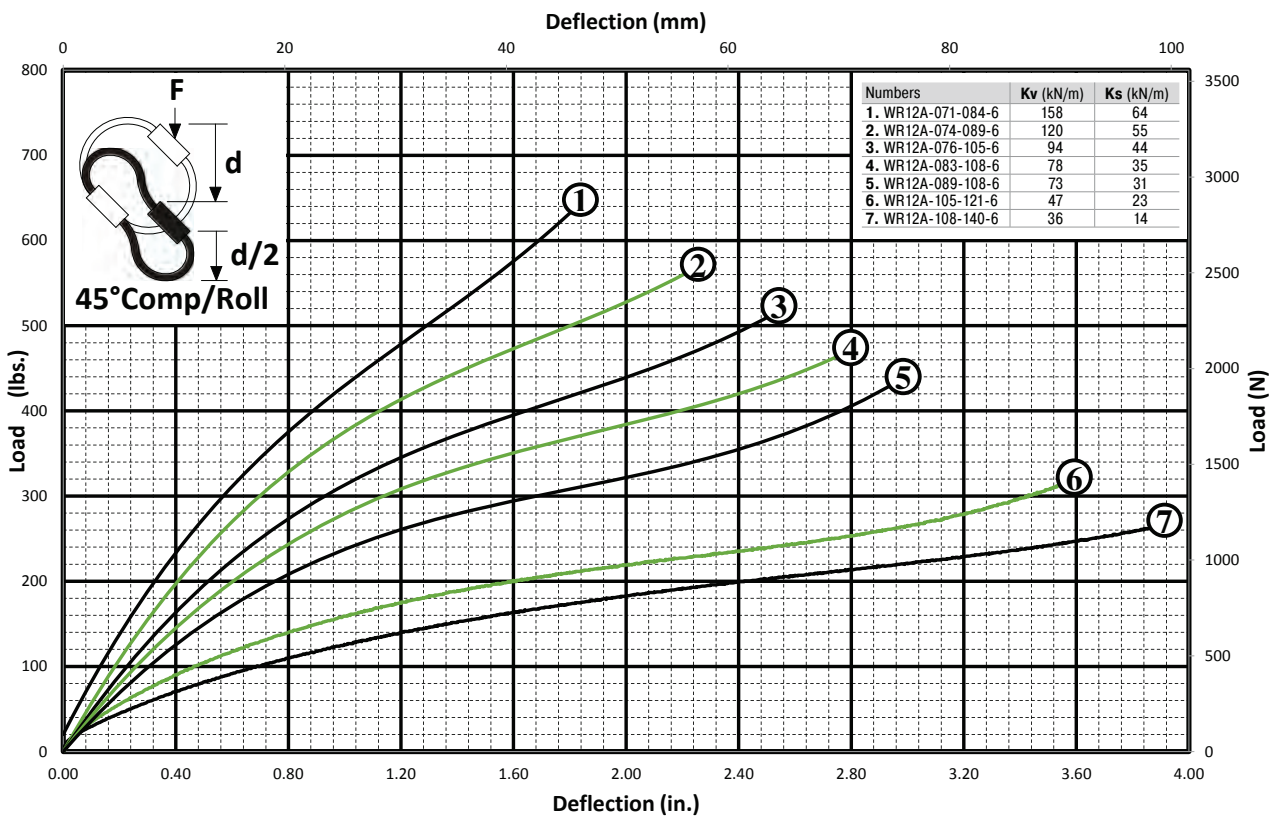
Shear



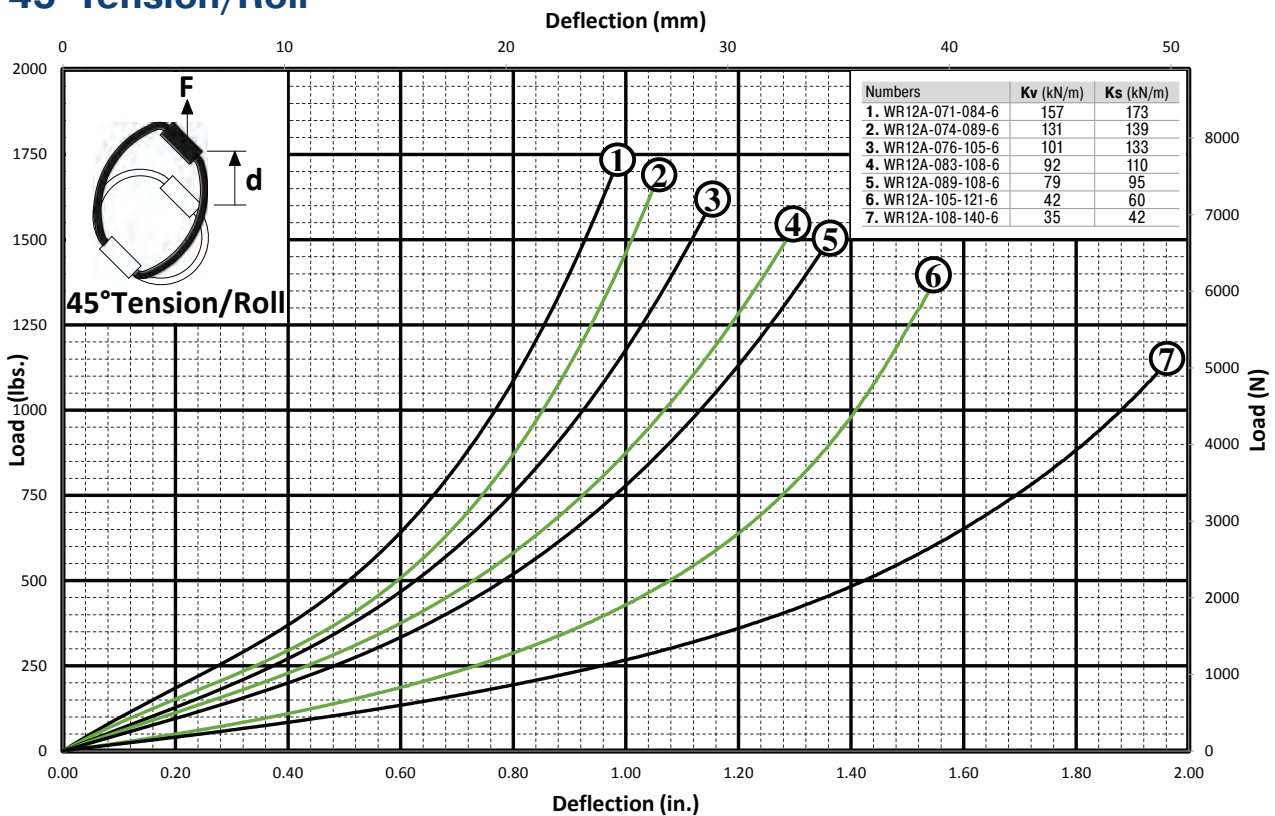
Roll



45° Compression/Roll



45° Tension/Roll



WR12

Helical Isolator

9.53 mm (3/8") Diameter Cable

Features

Rugged all metal construction
Fail safe construction
Long life and maintenance free
Three axis capability (6 dof)
High damping: C/cc $\approx$ 0.15 to 0.20

Operating temperature range

-130°C to +260°C

Material

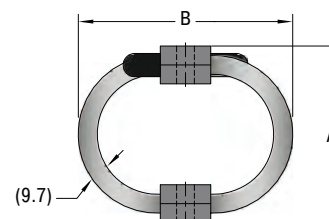
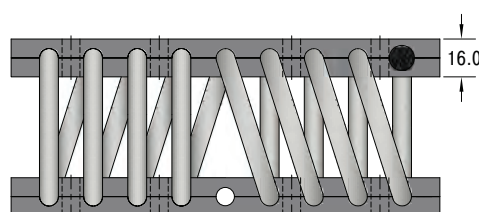
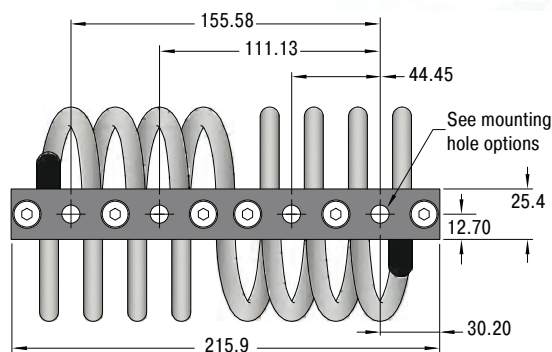
Cable: 300 Series SS per MIL-W-83420 or RR-W-410
Screws: 300 Series SS passivated IAW ASTM A967
Inserts: 300 Series SS (Alum bars only)
Retainer bars: Standard: 6061-T6 Alum alloy/
Chem film IAW MIL-DTL-5541, TYPE II, Class 3

Note

Mounting hole tolerances: ± 0.25 mm
Add 0.62 kg to Isolator weight for all stainless steel versions

On request

Special materials, size, mounting holes, finish, etc. available



Performance

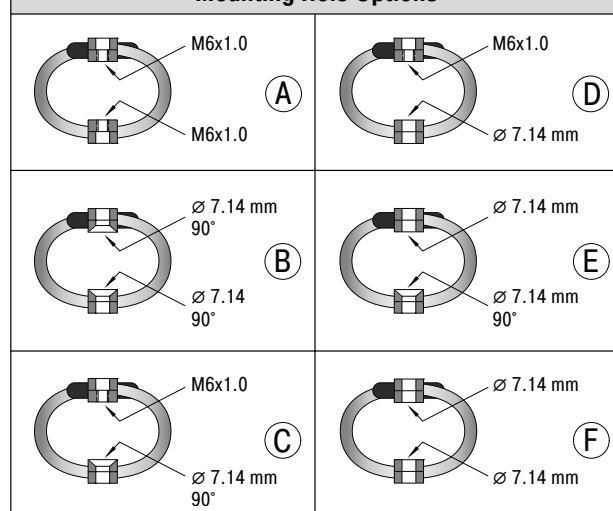
TYPEN	A (+/- 0.8) mm	B mm	Compression			Shear/Roll (Average)			Weight kg
			Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	
WR12-071-084-8	71.1	84.1	302	192	31.8	89	128	31.8	1.050
WR12-074-089-8	73.7	88.9	263	164	34.3	79	93	34.3	1.070
WR12-076-105-8	76.2	104.9	232	135	36.8	75	81	36.8	1.150
WR12-083-108-8	82.6	108.0	187	110	43.2	74	71	43.2	1.190
WR12-089-108-8	88.9	108.0	179	101	49.5	57	62	49.5	1.240
WR12-105-121-8	104.9	120.7	114	64	66.0	26	44	66.0	1.360
WR12-108-140-8	108.0	139.7	84	45	68.6	25	28	68.6	1.480

Ordering Example

Type _____
Model size height _____
Model size wide _____
Number of loops _____
Mounting hole _____

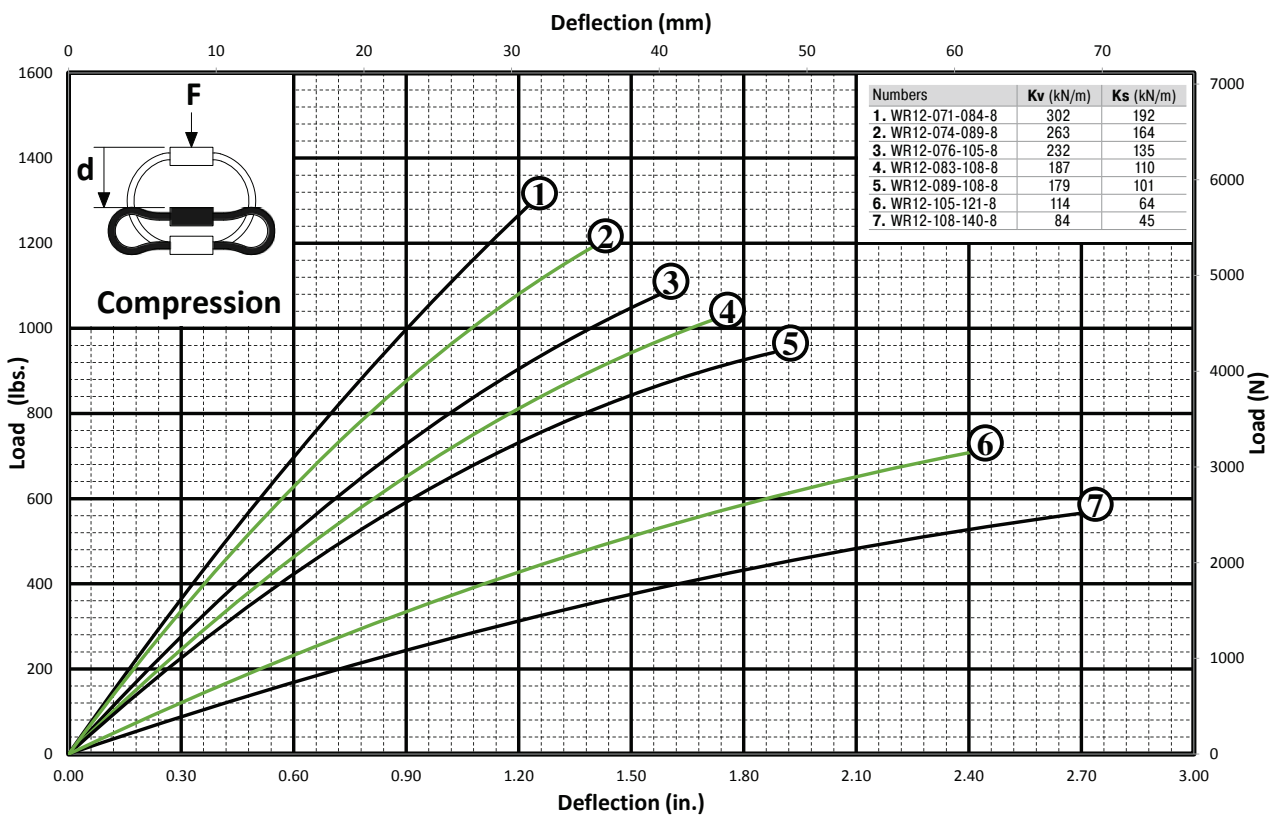
WR12-071-084-8-A

Mounting Hole Options

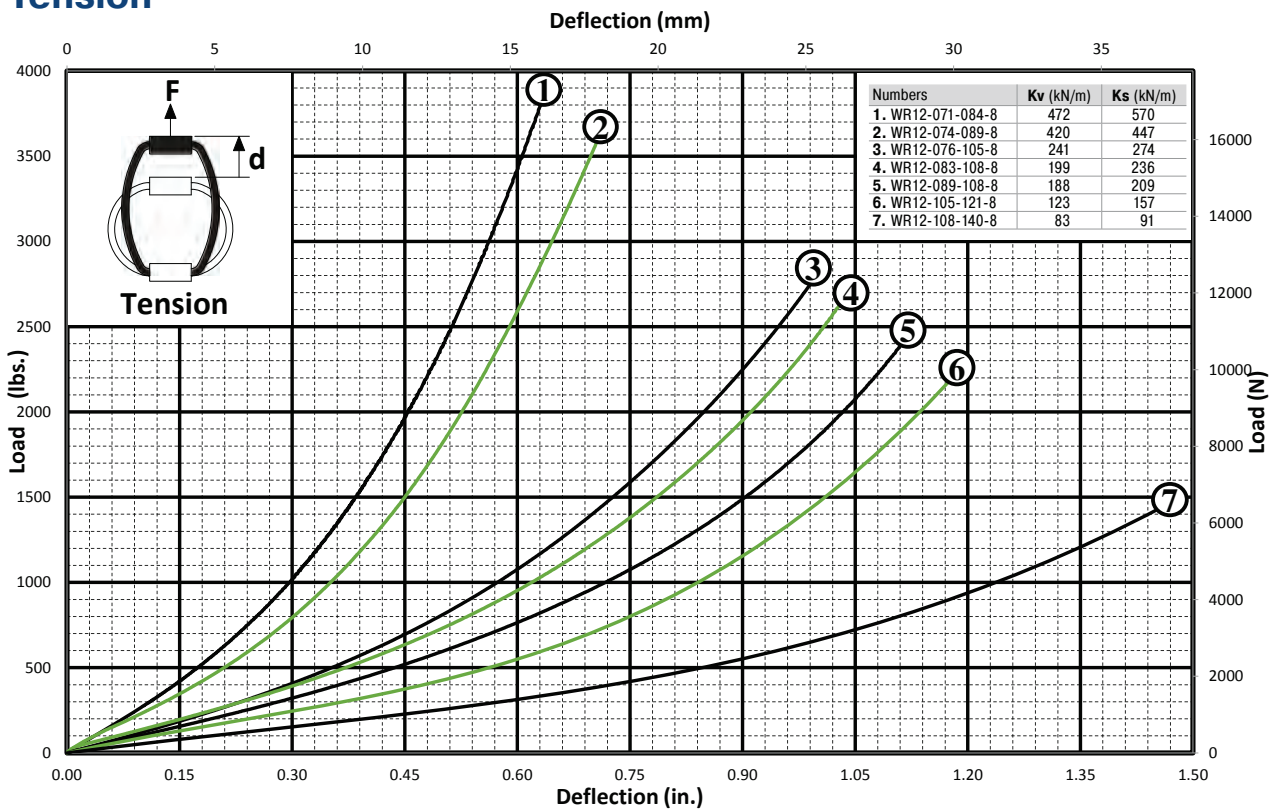


Issue 07/2020 – Specifications subject to change

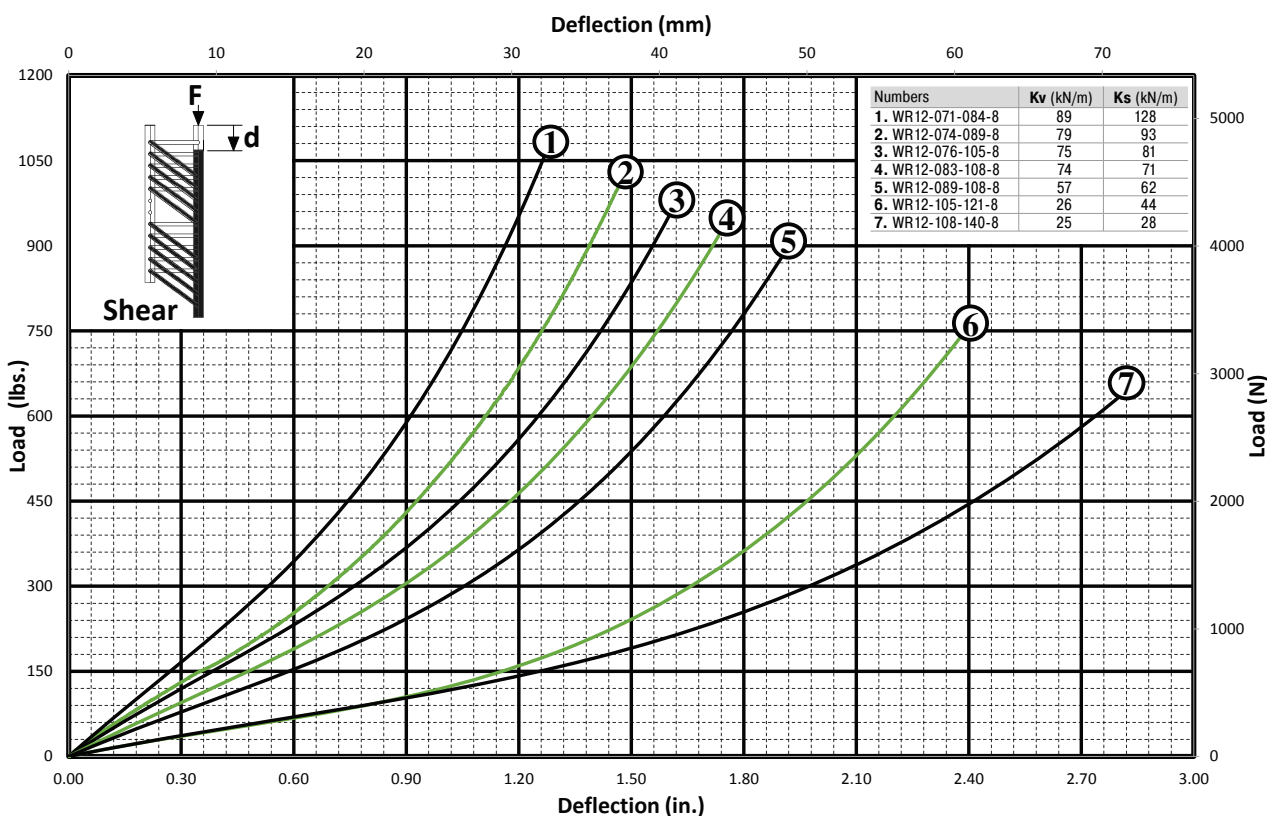
Compression



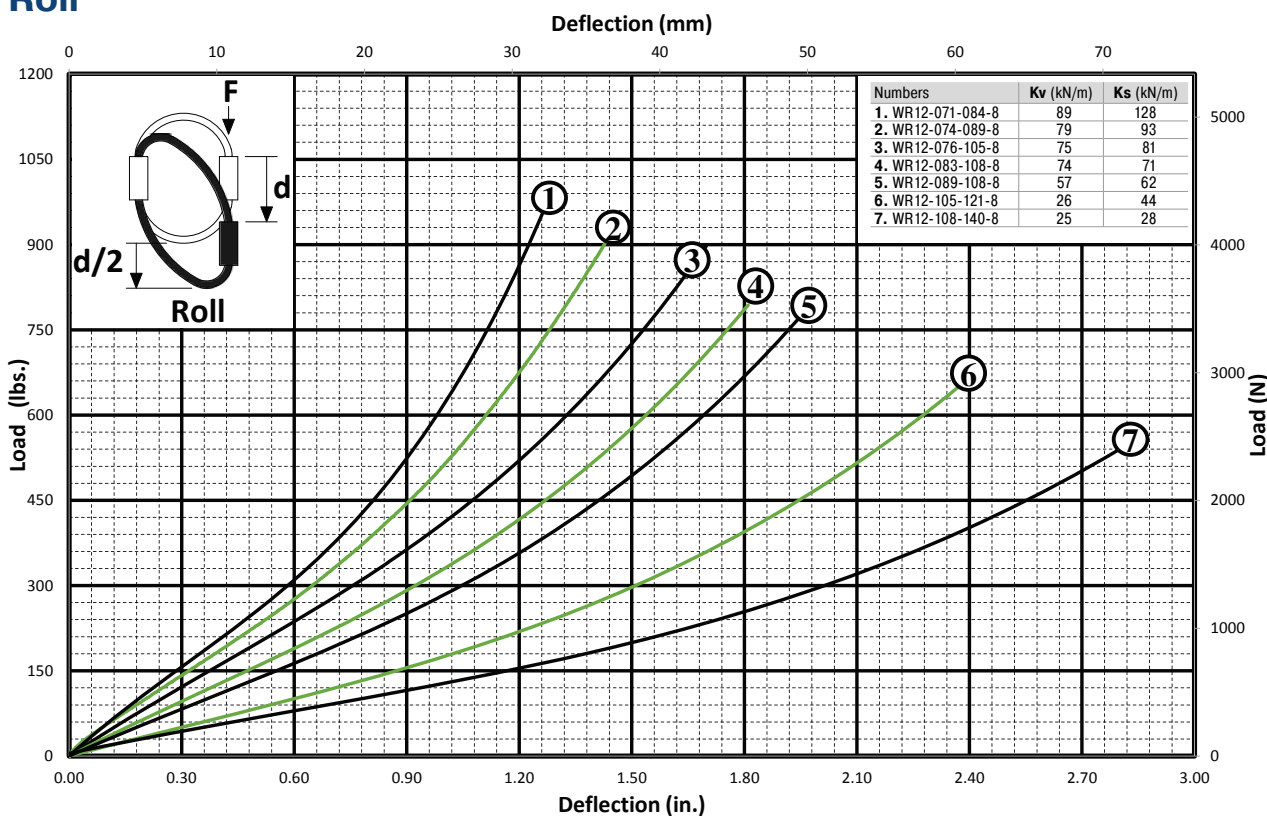
Tension



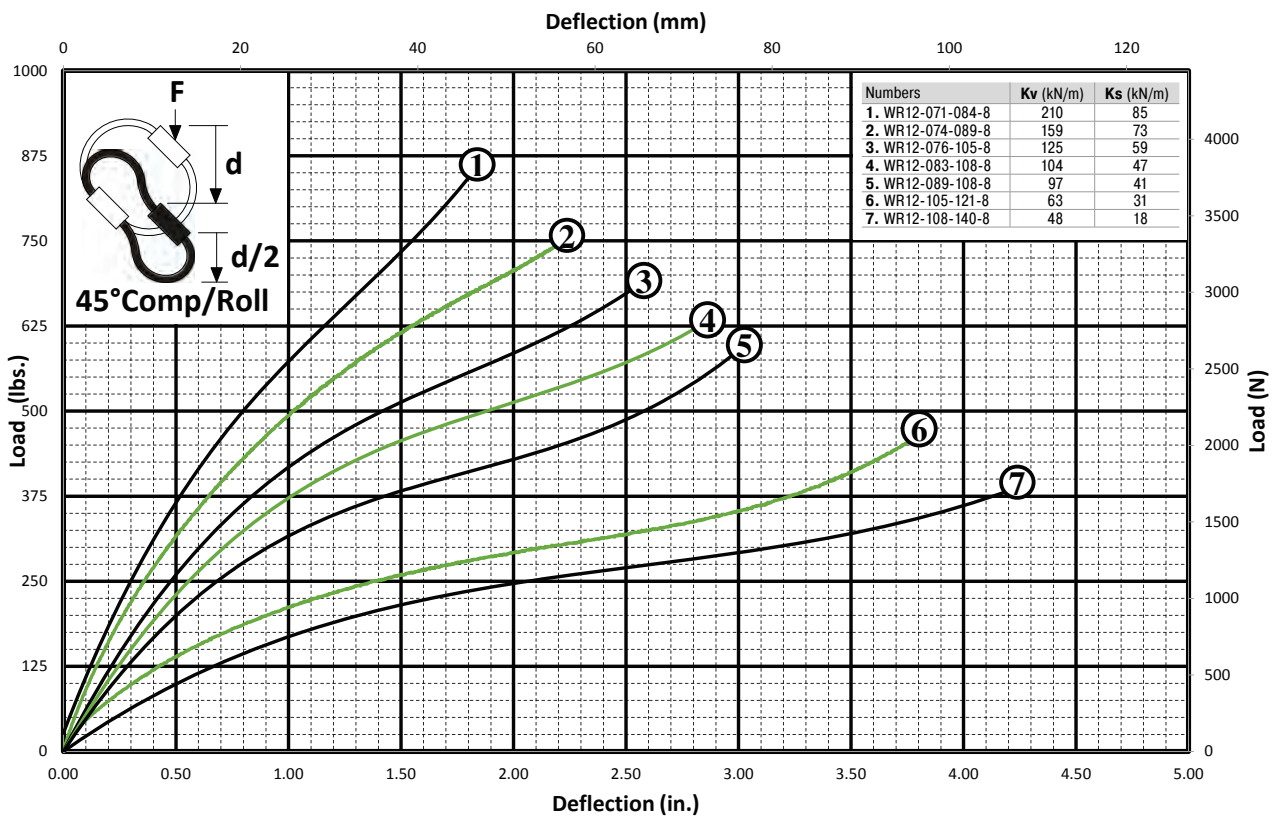
Shear



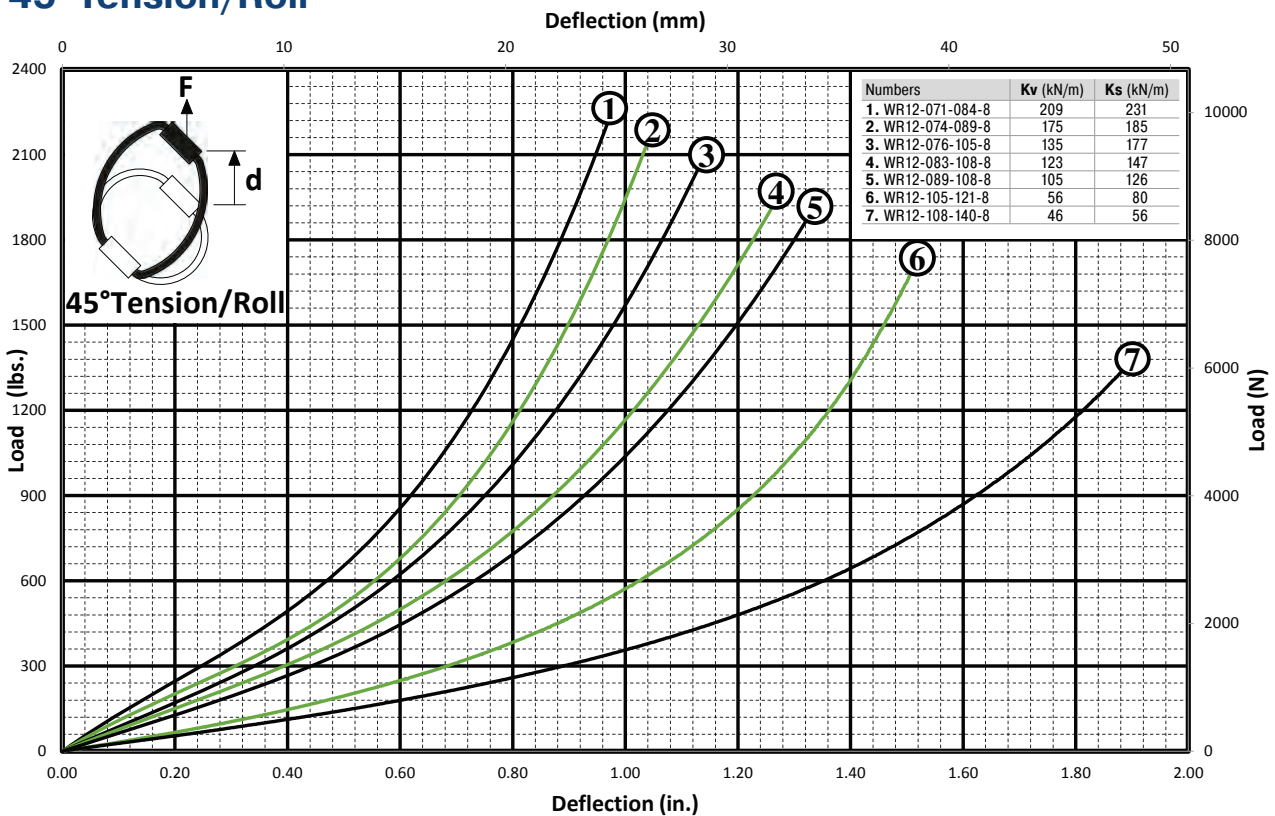
Roll



45° Compression/Roll



45° Tension/Roll



WR16A

Helical Isolator

12.70 mm (1/2") Diameter Cable

Features

Rugged all metal construction
Fail safe construction
Long life and maintenance free
Three axis capability (6 dof)
High damping: C/cc $\approx$ 0.15 to 0.20

Operating temperature range

-130°C to +260°C

Material

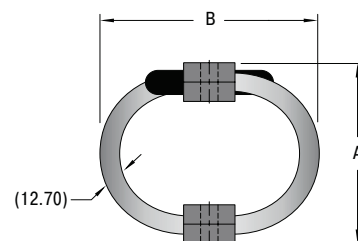
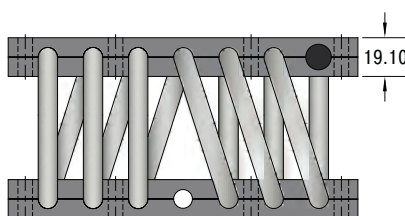
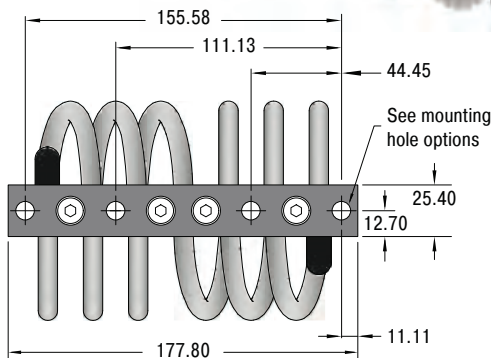
Cable: 300 Series SS per MIL-W-83420 or RR-W-410
Screws: 300 Series SS passivated IAW ASTM A967
Inserts: 300 Series SS (Alum bars only)
Retainer bars: Standard: 6061-T6 Alum alloy/
Chem film IAW MIL-DTL-5541, TYPE II, Class 3

Note

Mounting hole tolerances: ± 0.25 mm
Add 0.53 kg to Isolator weight for all stainless steel versions

On request

Special materials, size, mounting holes, finish, etc. available



Performance

TYPEN	A (+/- 0.8) mm	B mm	Compression			Shear/Roll (Average)			Weight kg
			Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	
WR16A-083-102-6	82.6	101.9	327	220	35.6	169	128	35.6	1.260
WR16A-089-105-6	88.9	104.9	310	197	41.9	94	108	41.9	1.270
WR16A-095-121-6	95.3	120.7	231	137	48.3	71	78	48.3	1.400
WR16A-108-133-6	108.0	133.4	143	86	61.0	44	50	61.0	1.570
WR16A-125-144-6	124.5	143.5	102	60	77.5	33	38	77.5	1.700
WR16A-137-158-6	137.2	157.7	72	45	90.2	23	31	90.2	1.850
WR16A-155-180-6	154.9	180.3	53	29	108.0	12	18	108.0	2.090

Ordering Example

Type _____
Model size height _____
Model size wide _____
Number of loops _____
Mounting hole _____

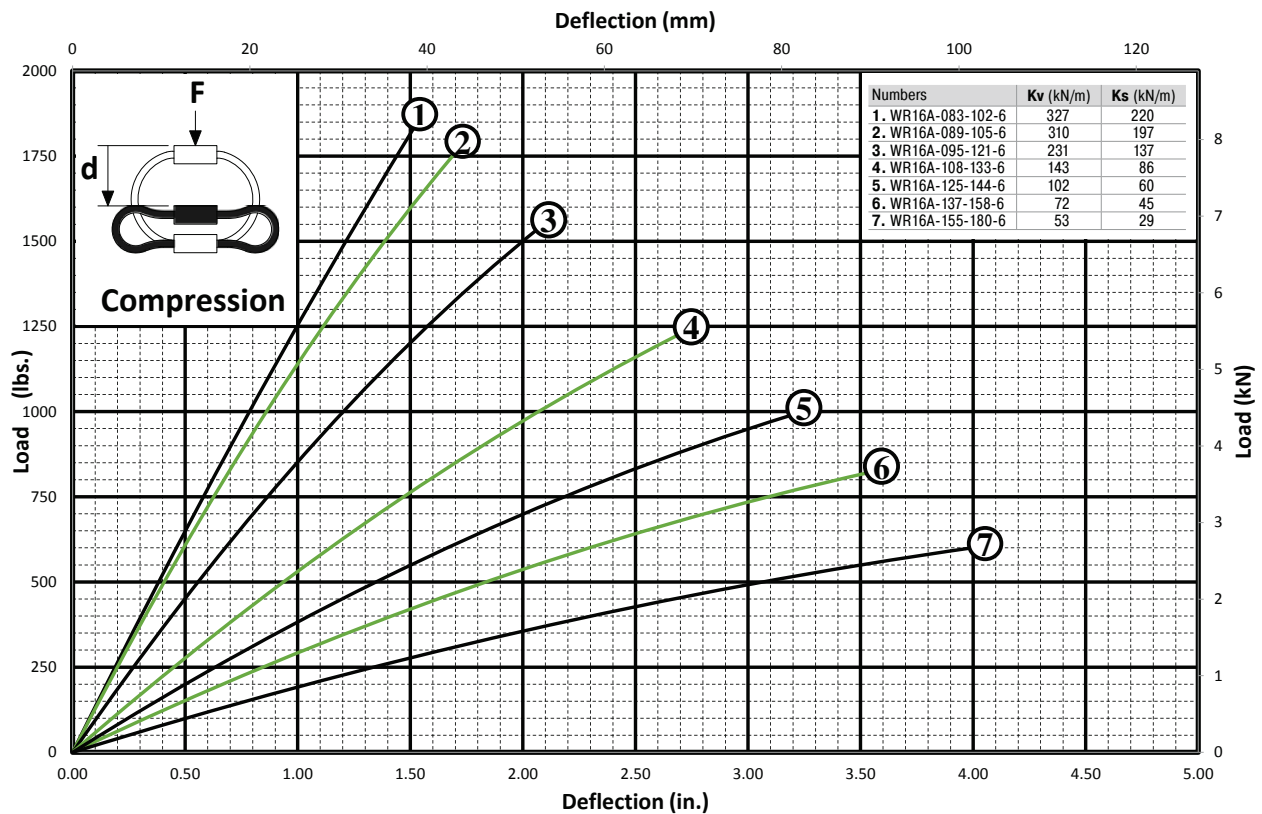
WR16A-083-102-6-A

Mounting Hole Options

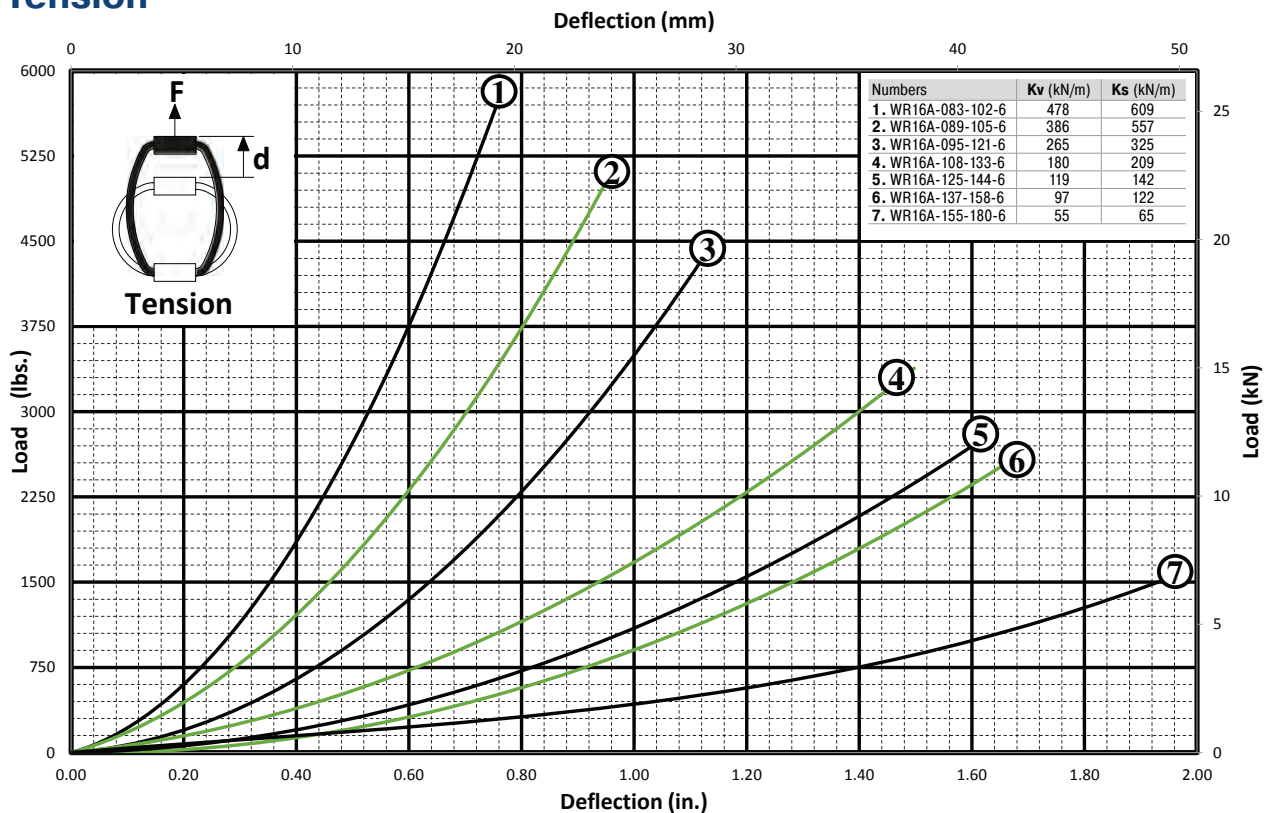
A	D
B	E
C	F

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Compression

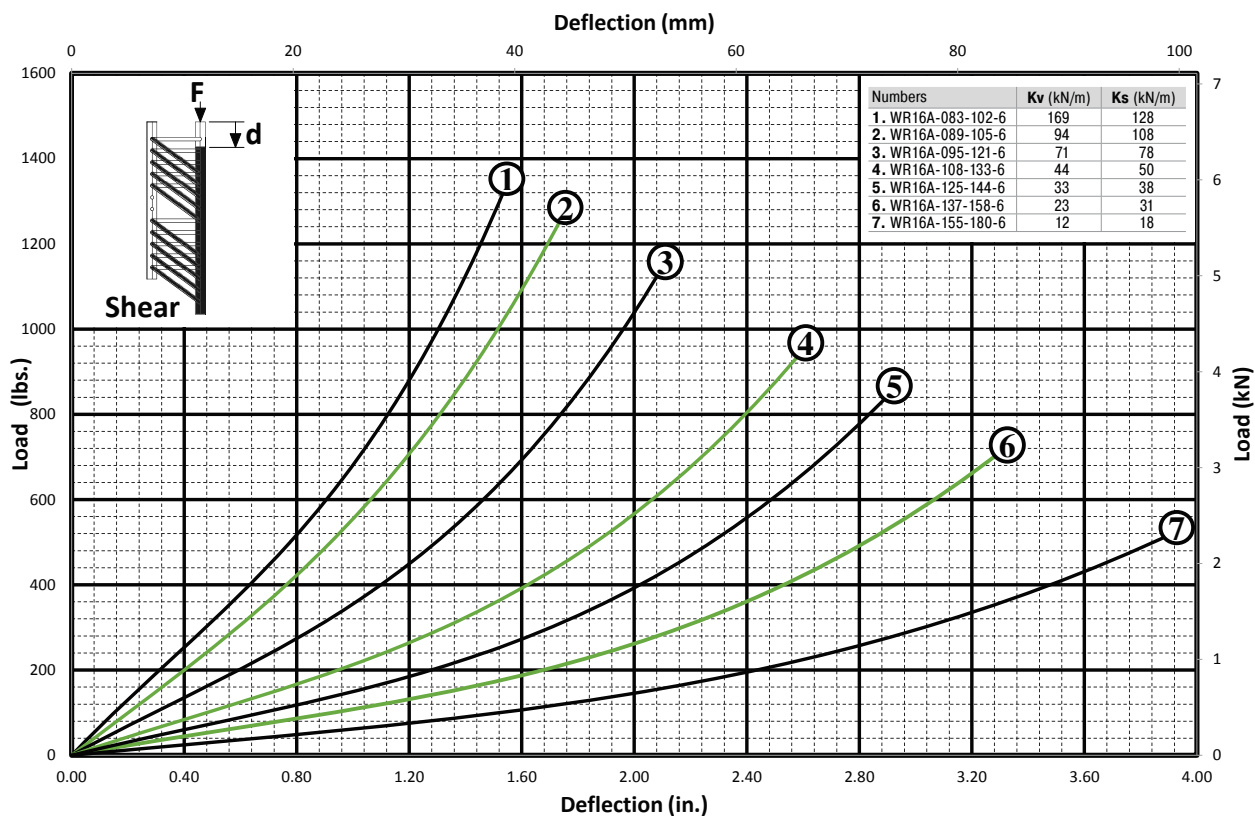


Tension

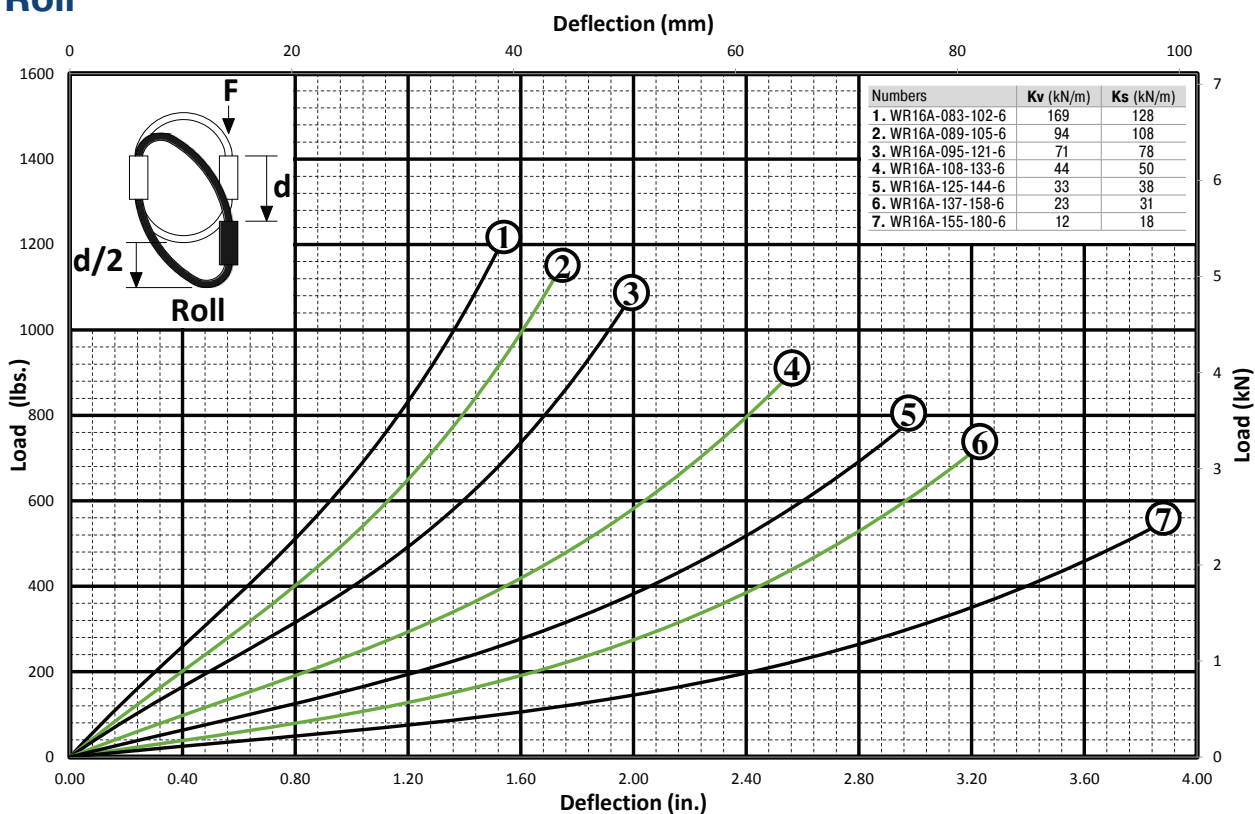


Issue 07/2020 – Specifications subject to change

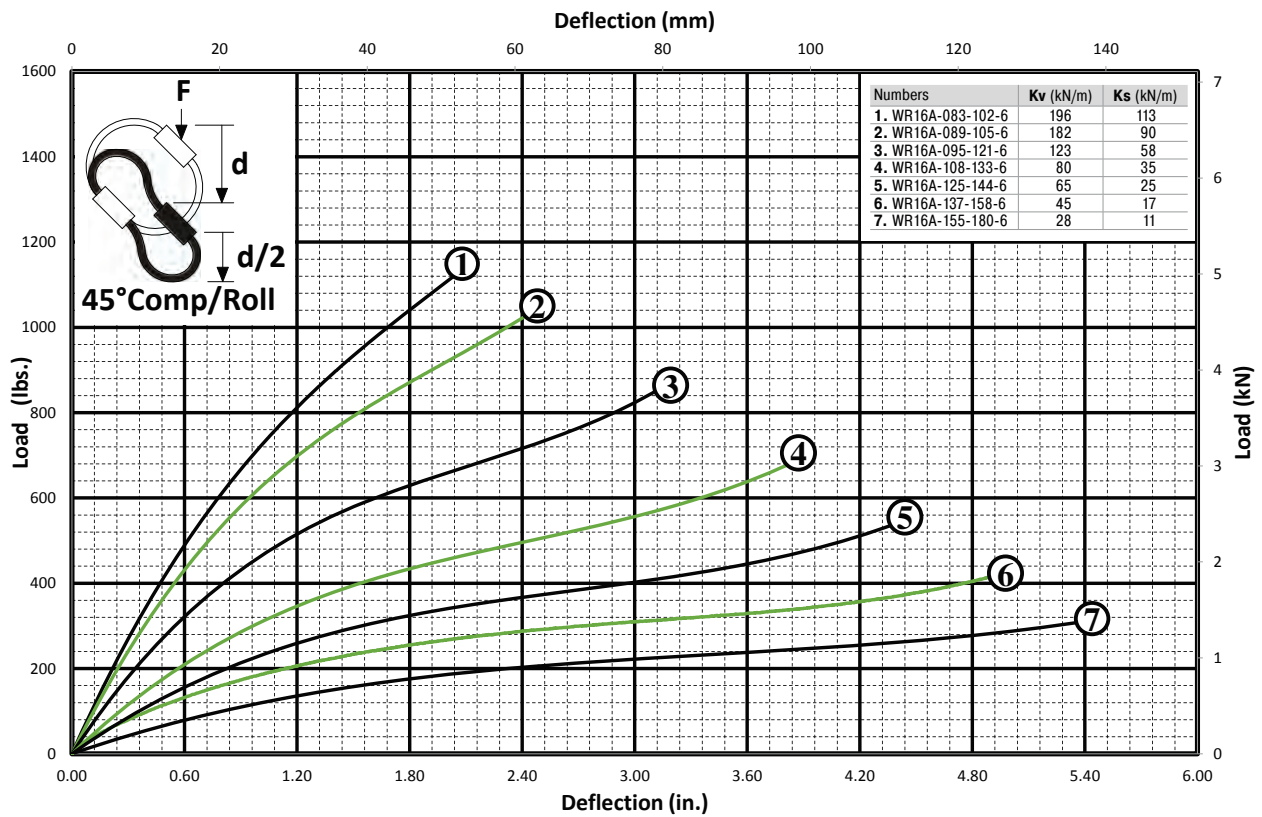
Shear



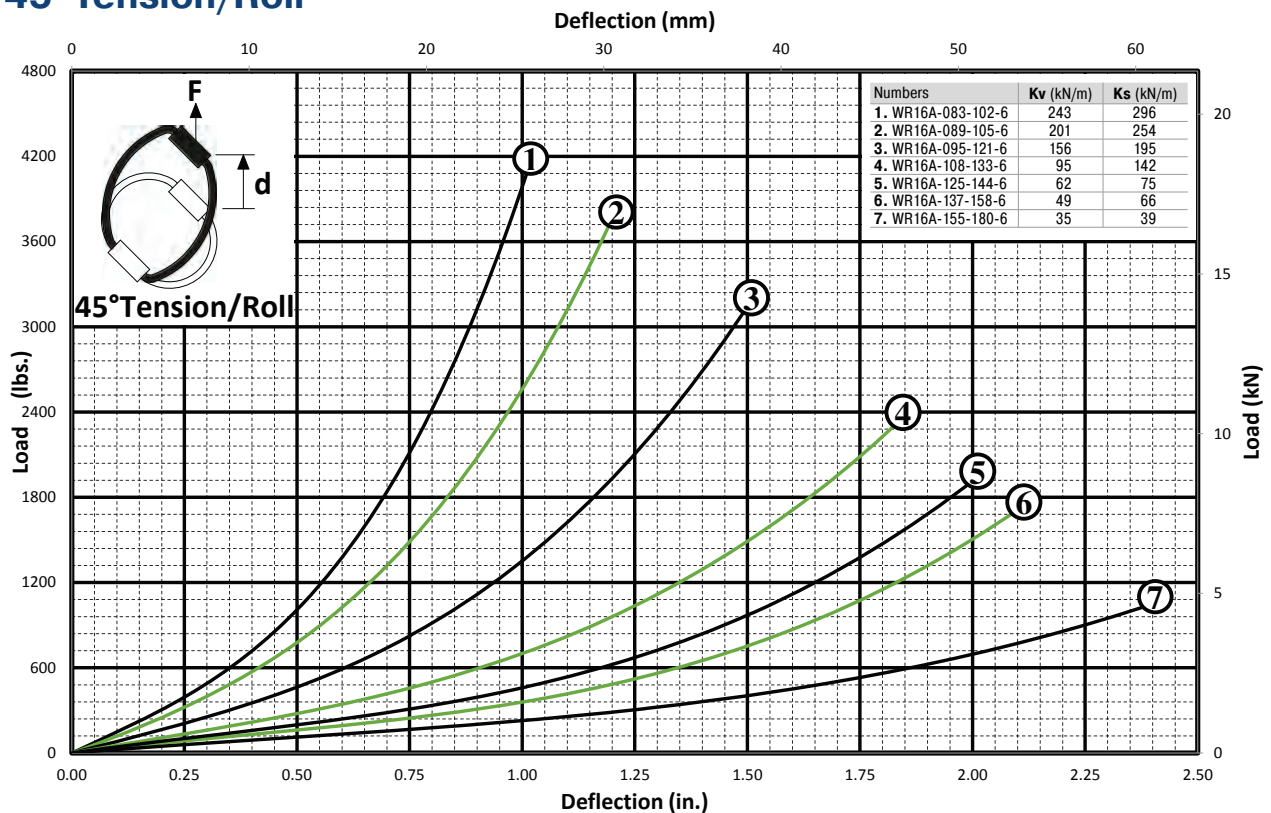
Roll



45° Compression/Roll



45° Tension/Roll



WR16

Helical Isolator

12.70 mm (1/2") Diameter Cable

Features

Rugged all metal construction
Fail safe construction
Long life and maintenance free
Three axis capability (6 dof)
High damping: C/cc $\approx$ 0.15 to 0.20

Operating temperature range

-130°C to +260°C

Material

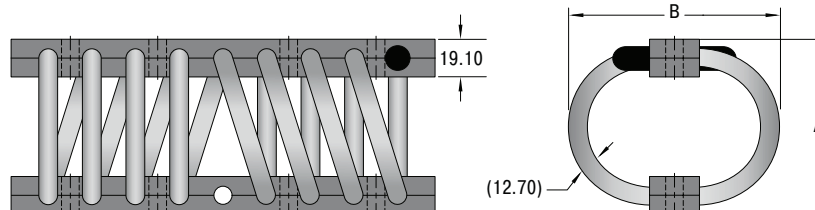
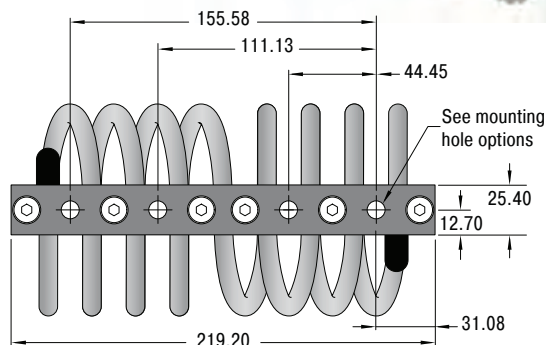
Cable: 300 Series SS per MIL-W-83420 or RR-W-410
Screws: 300 Series SS passivated IAW ASTM A967
Inserts: 300 Series SS (Alum bars only)
Retainer bars: Standard: 6061-T6 Alum alloy/
Chem film IAW MIL-DTL-5541, TYPE II, Class 3

Note

Mounting hole tolerances: ± 0.25 mm
Add 0.64 kg to Isolator weight for all stainless steel versions

On request

Special materials, size, mounting holes, finish, etc. available



Performance

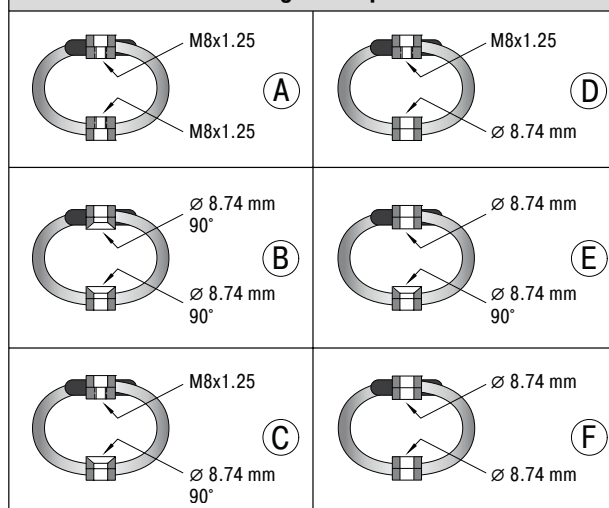
TYPEN	A (+/- 0.8) mm	B mm	Compression			Shear/Roll (Average)			Weight kg
			Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	
WR16-083-102-8	82.6	101.9	436	294	35.6	226	171	35.6	1.680
WR16-089-105-8	88.9	104.9	413	262	41.9	126	143	41.9	1.690
WR16-095-121-8	95.3	120.7	308	183	48.3	95	104	48.3	1.860
WR16-108-133-8	108.0	133.4	191	115	61.0	58	67	61.0	2.090
WR16-125-144-8	124.5	143.5	136	80	77.5	44	51	77.5	2.270
WR16-137-158-8	137.2	157.7	96	61	90.2	30	41	90.2	2.460
WR16-155-180-8	154.9	180.3	70	39	108.0	17	25	108.0	2.790

Ordering Example

Type _____
Model size height _____
Model size wide _____
Number of loops _____
Mounting hole _____

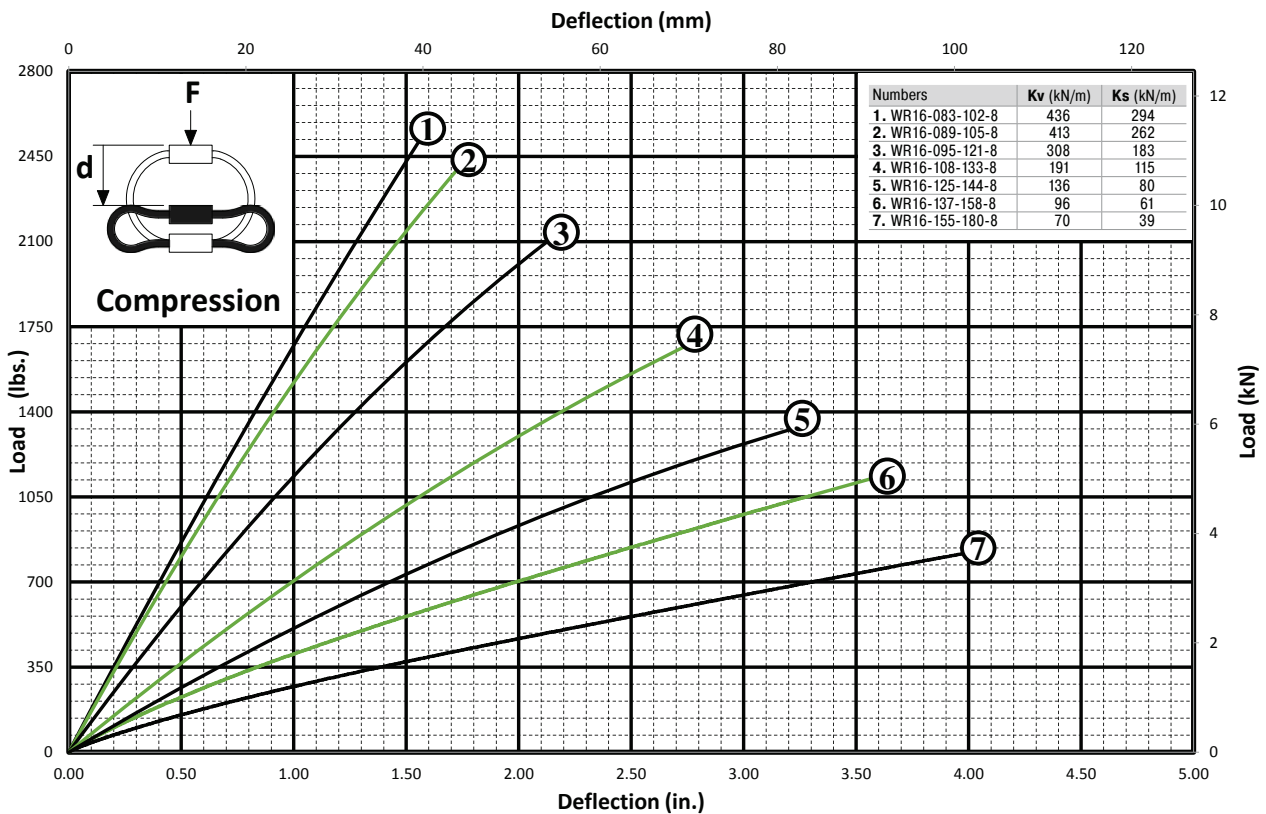
WR16-083-102-8-A

Mounting Hole Options

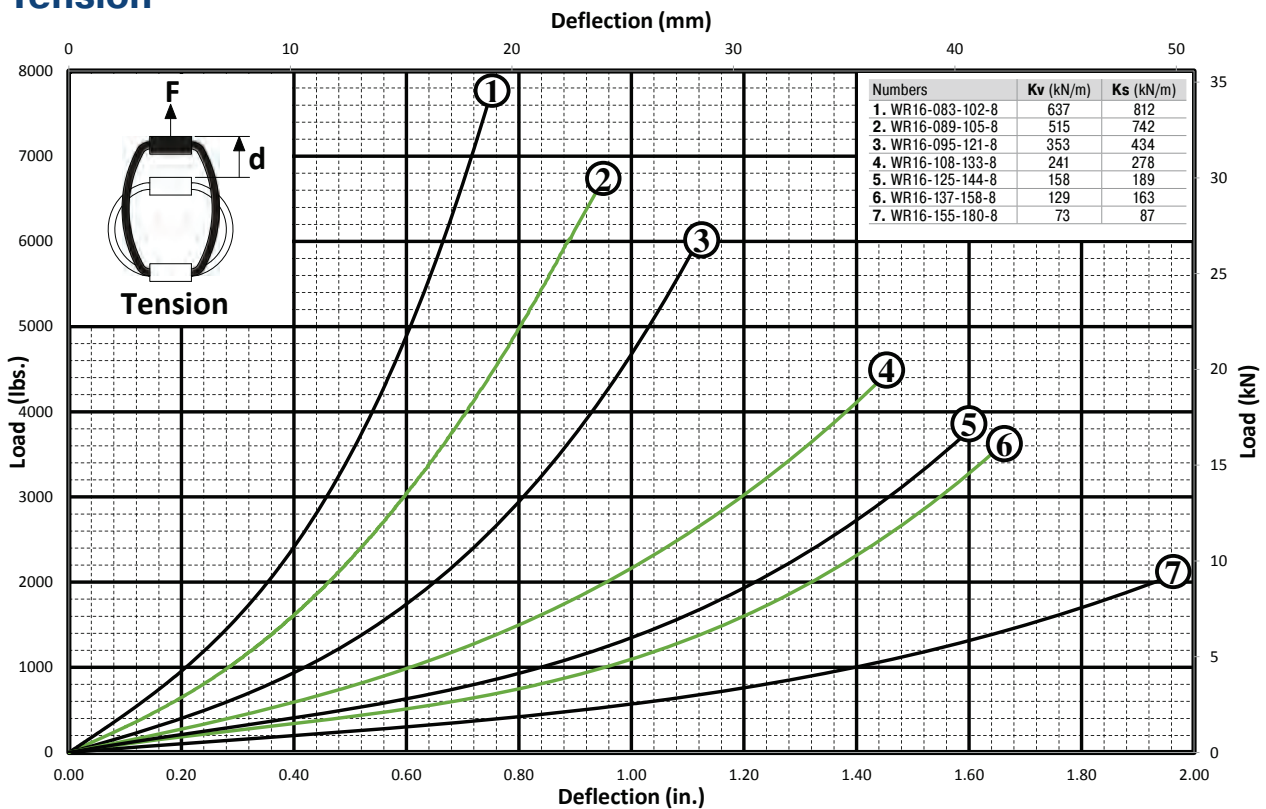


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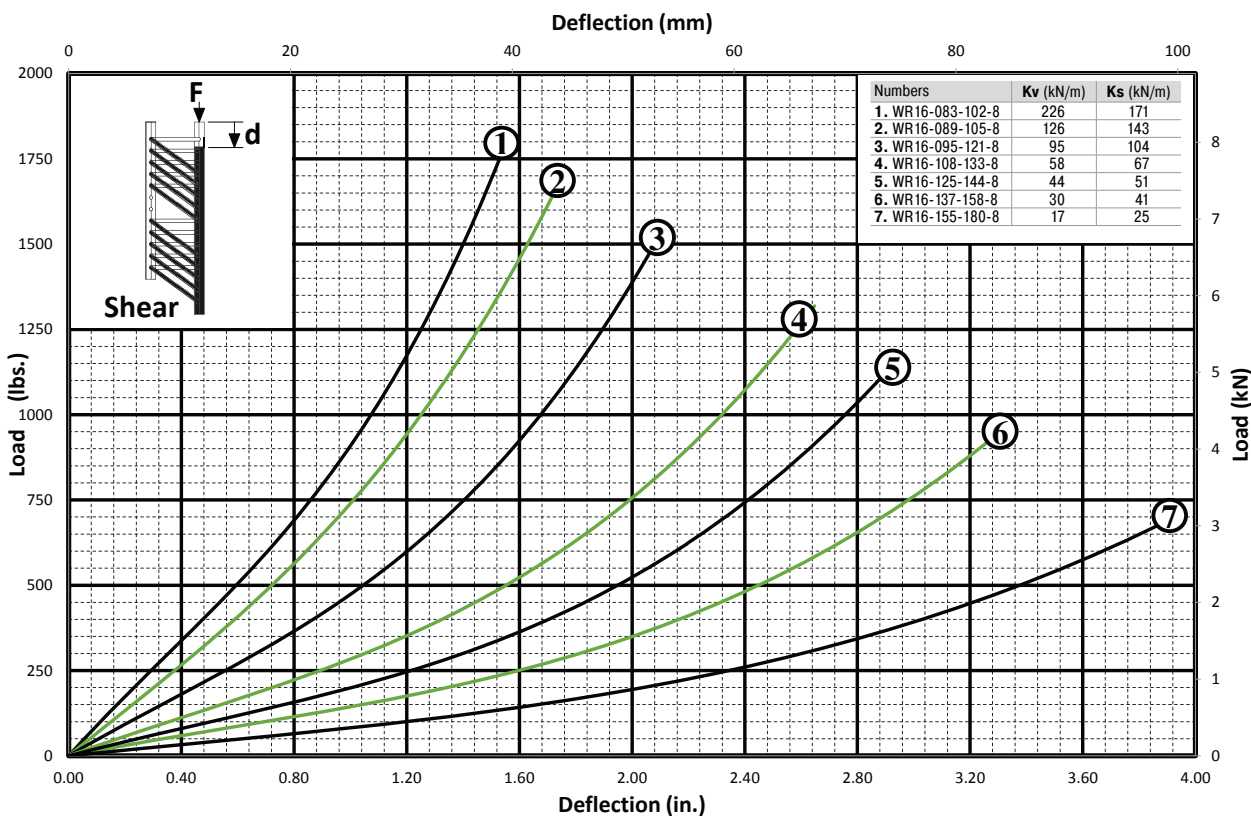
Compression



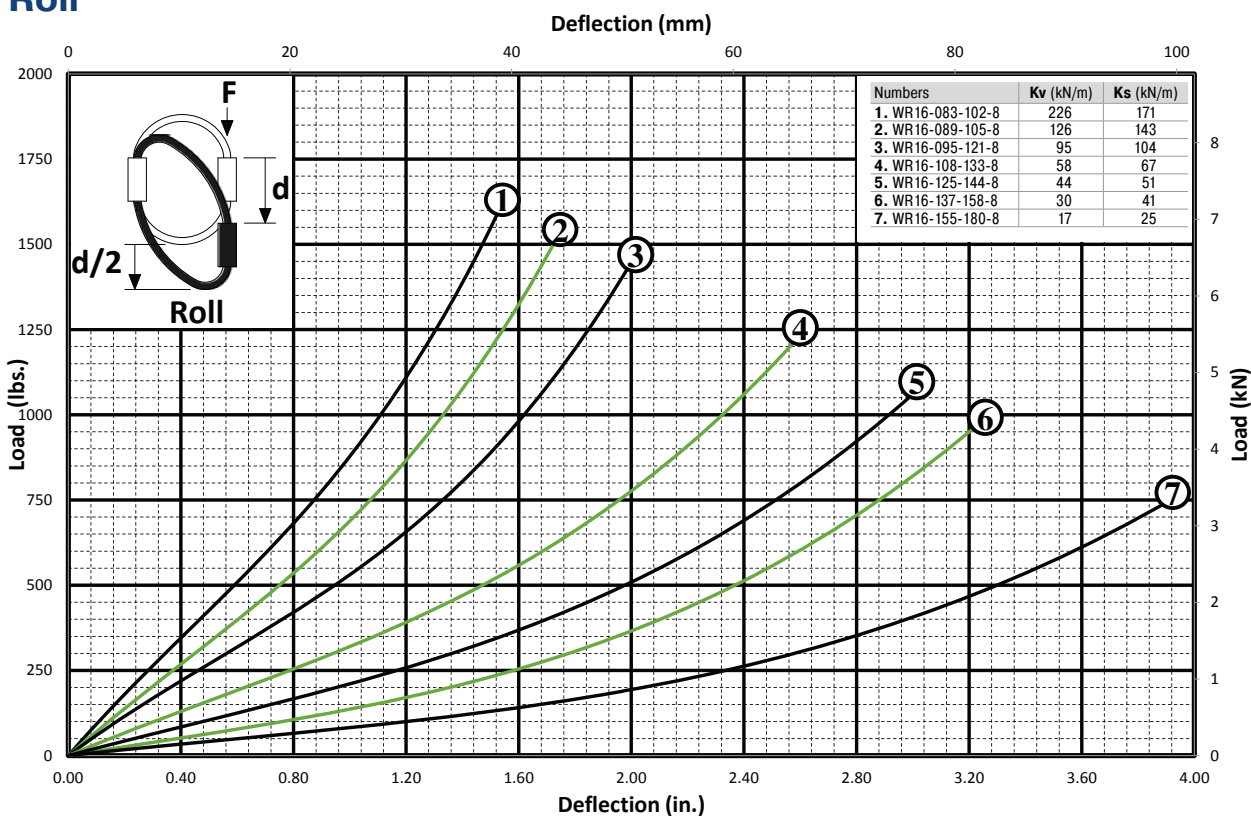
Tension



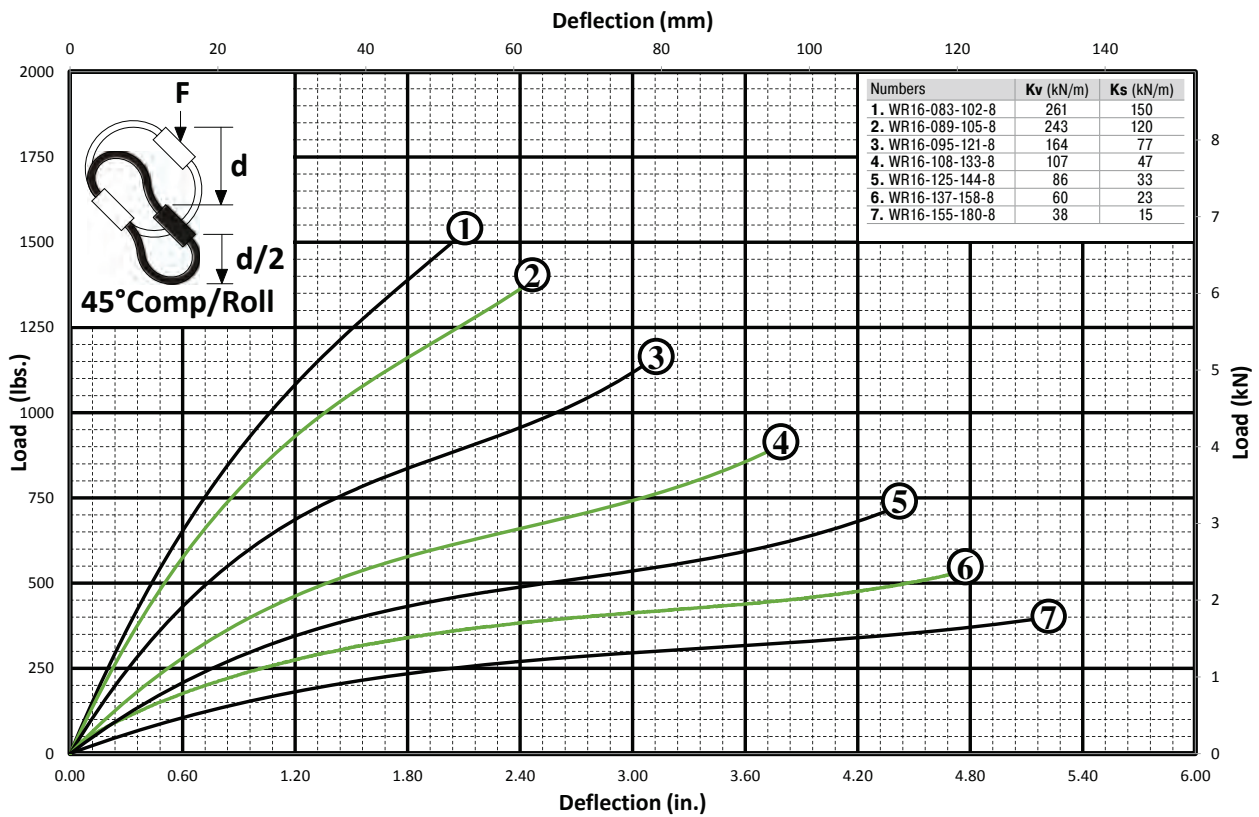
Shear



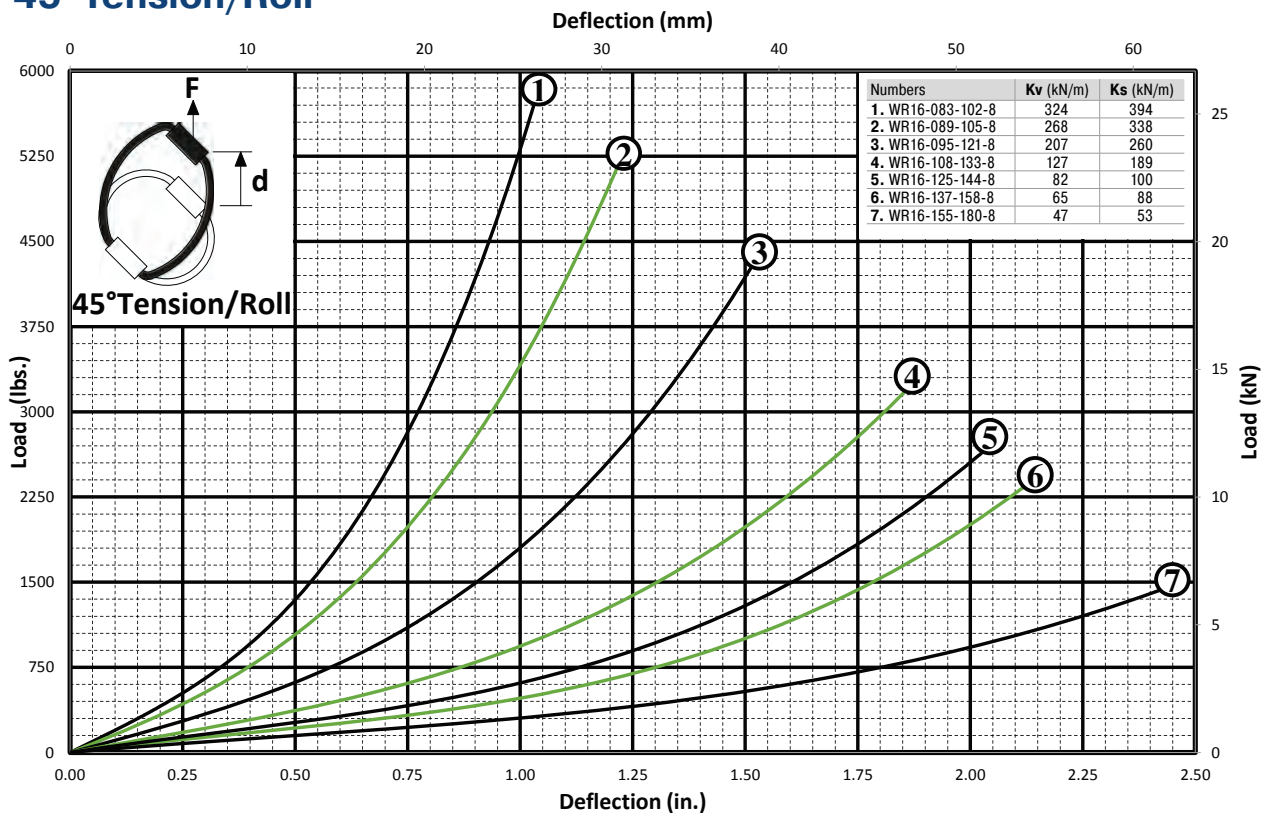
Roll



45° Compression/Roll



45° Tension/Roll



WR20

Helical Isolator

15.88 mm (5/8") Diameter Cable

Features

Rugged all metal construction
Fail safe construction
Long life and maintenance free
Three axis capability (6 dof)
High damping: C/cc $\approx$ 0.15 to 0.20

Operating temperature range

-130°C to +260°C

Material

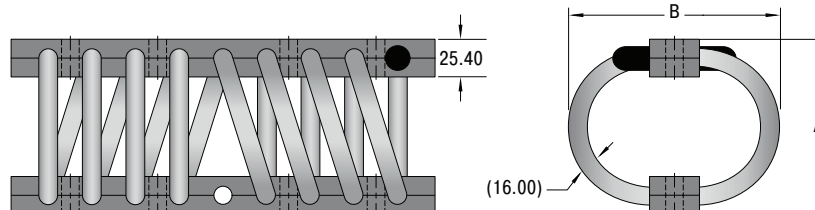
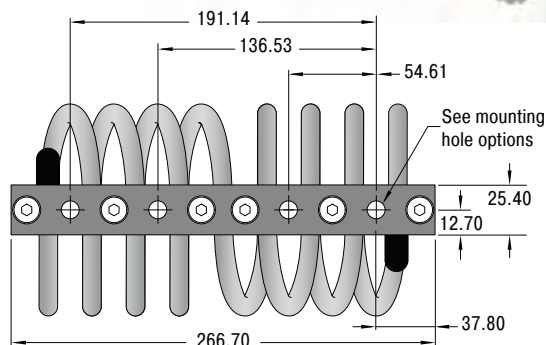
Cable: 300 Series SS per MIL-W-83420 or RR-W-410
Screws: 300 Series SS passivated IAW ASTM A967
Inserts: 300 Series SS (Alum bars only)
Retainer bars: Standard: 6061-T6 Alum alloy/
Chem film IAW MIL-DTL-5541, TYPE II, Class 3

Note

Mounting hole tolerances: ± 0.25 mm
Add 1.02 kg to Isolator weight for all stainless steel versions

On request

Special materials, size, mounting holes, finish, etc. available



Performance

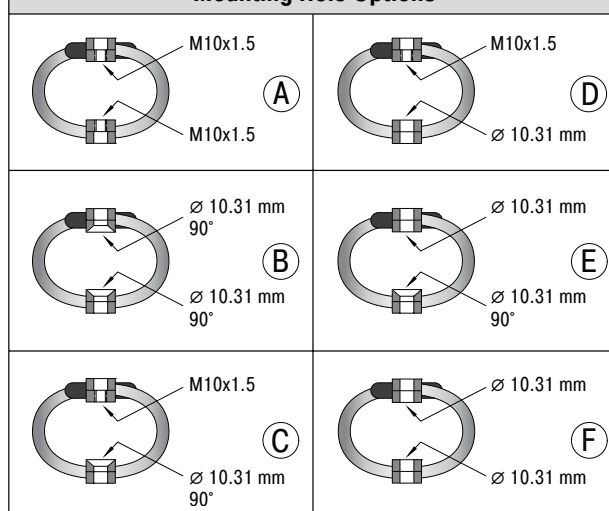
TYPEN	A (+/- 0.8) mm	B mm	Compression			Shear/Roll (Average)			Weight kg
			Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	
WR20-089-102-8	88.9	101.6	1,228	613	30.5	378	307	30.5	2.880
WR20-099-112-8	99.1	111.8	992	476	40.6	258	238	40.6	2.950
WR20-109-135-8	109.2	134.6	787	308	50.8	167	158	50.8	3.180
WR20-119-153-8	119.4	152.6	444	204	61.0	103	106	61.0	3.740
WR20-127-165-8	127.0	165.1	355	161	68.6	98	87	68.6	3.970
WR20-135-178-8	134.6	177.8	322	124	76.2	70	71	76.2	4.220
WR20-152-197-8	152.4	196.8	262	87	94.0	44	48	94.0	4.630

Ordering Example

Type _____
Model size height _____
Model size wide _____
Number of loops _____
Mounting hole _____

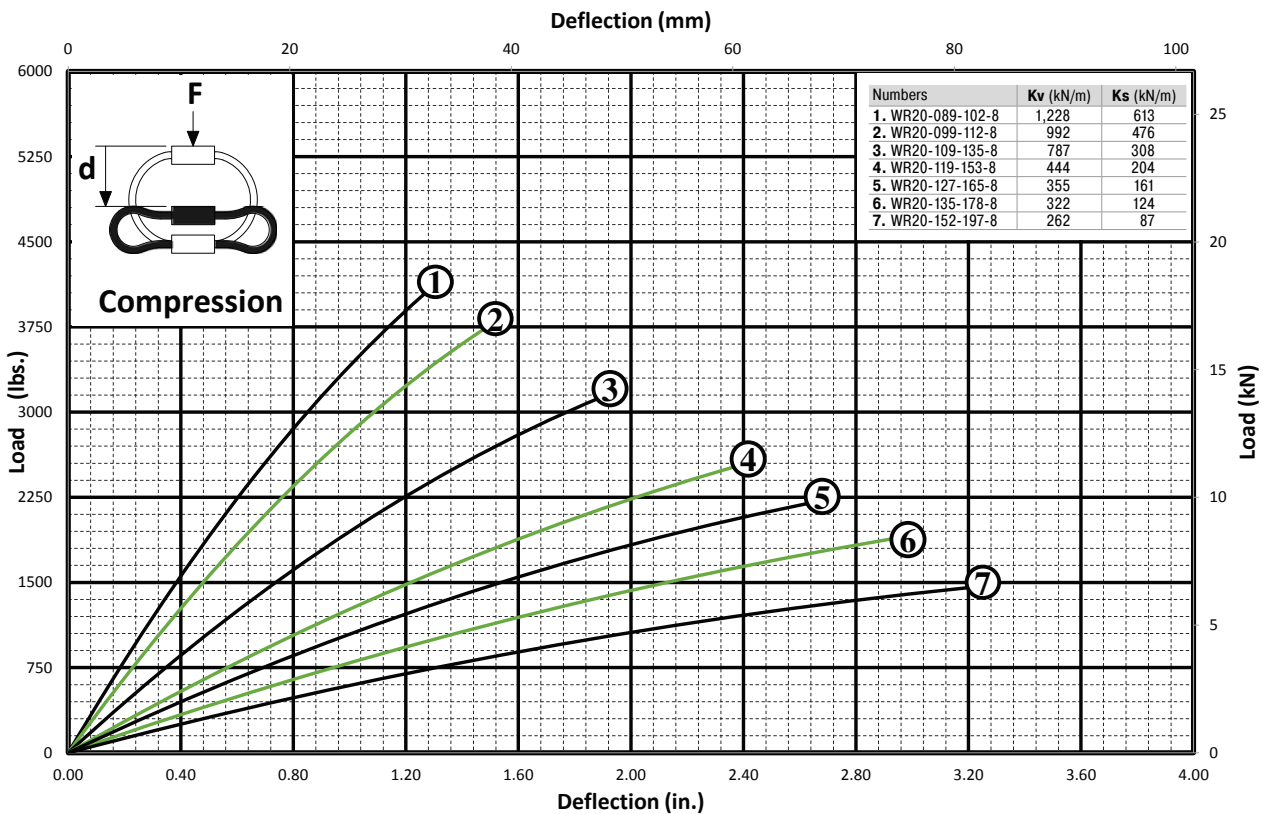
WR20-089-102-8-A

Mounting Hole Options

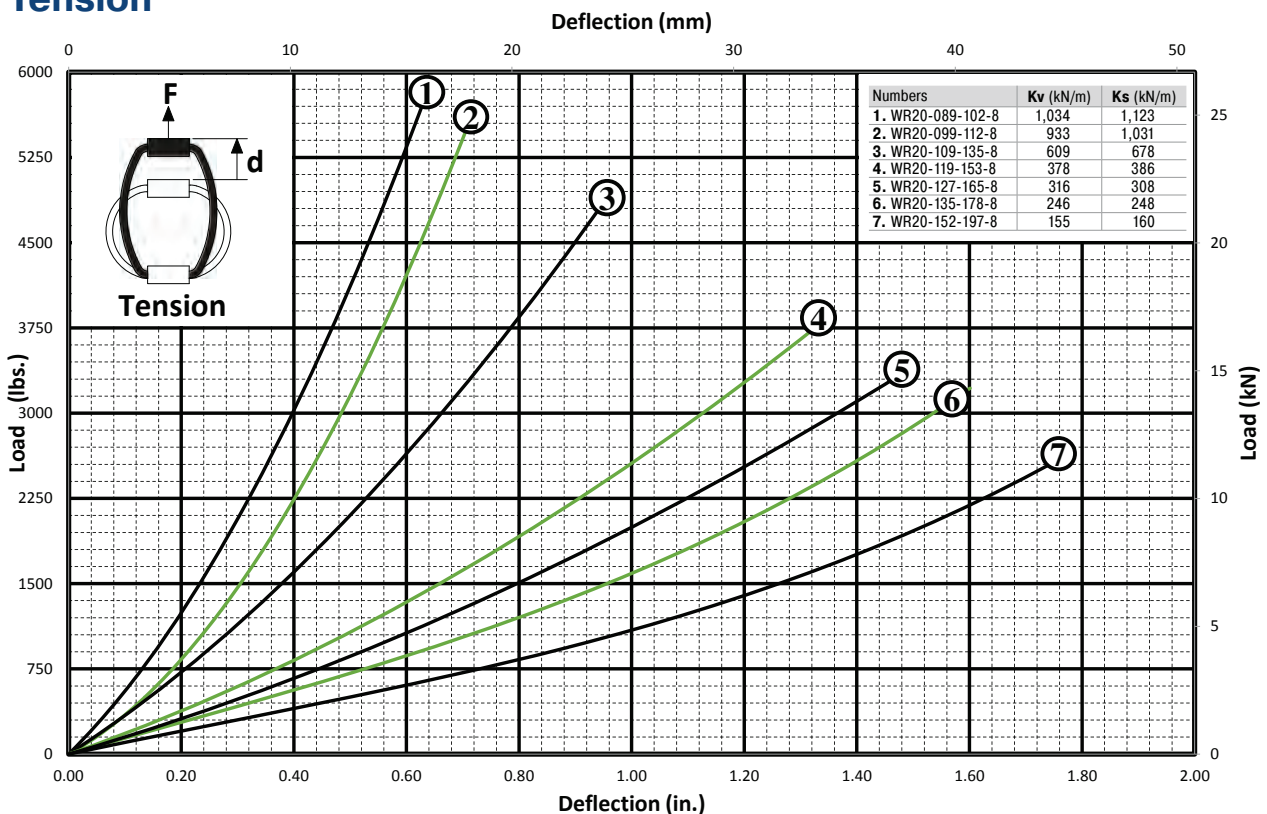


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Compression

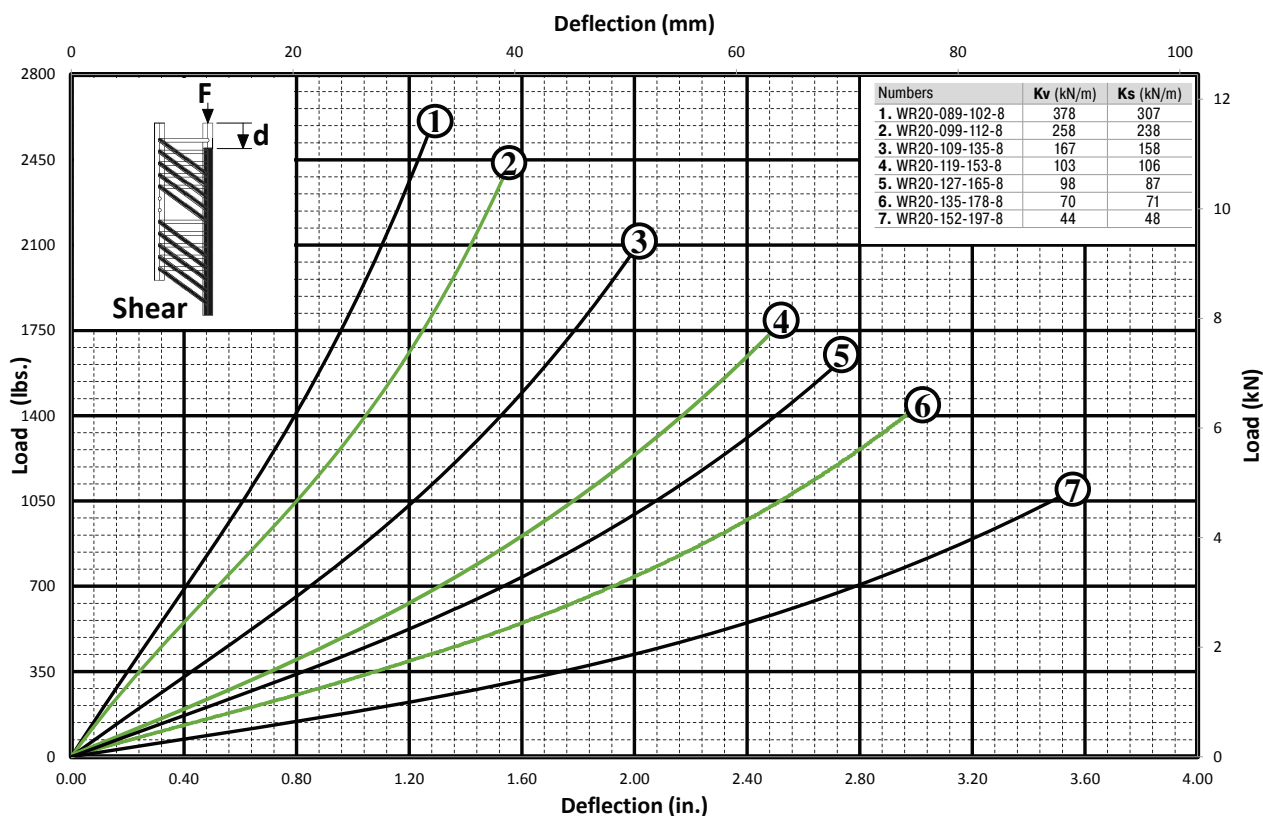


Tension

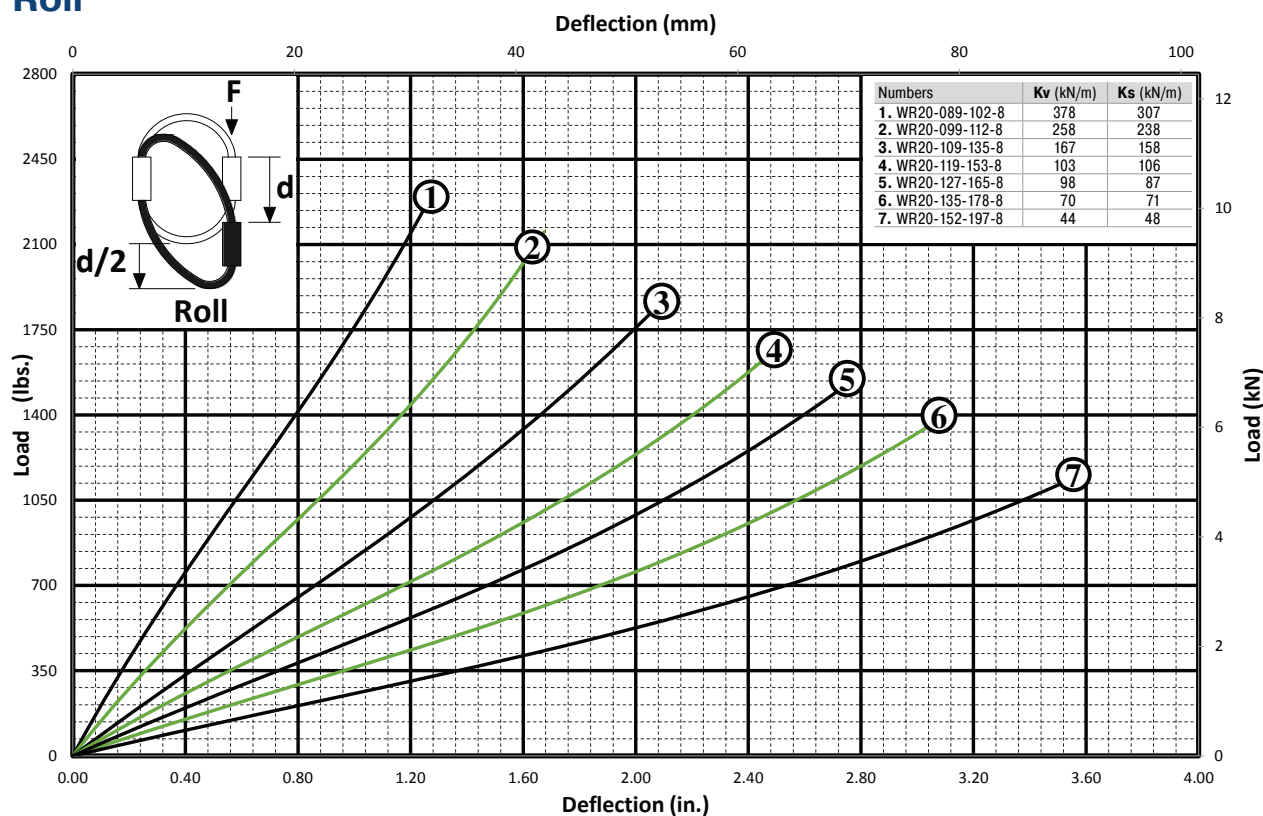


Issue 07/2020 – Specifications subject to change

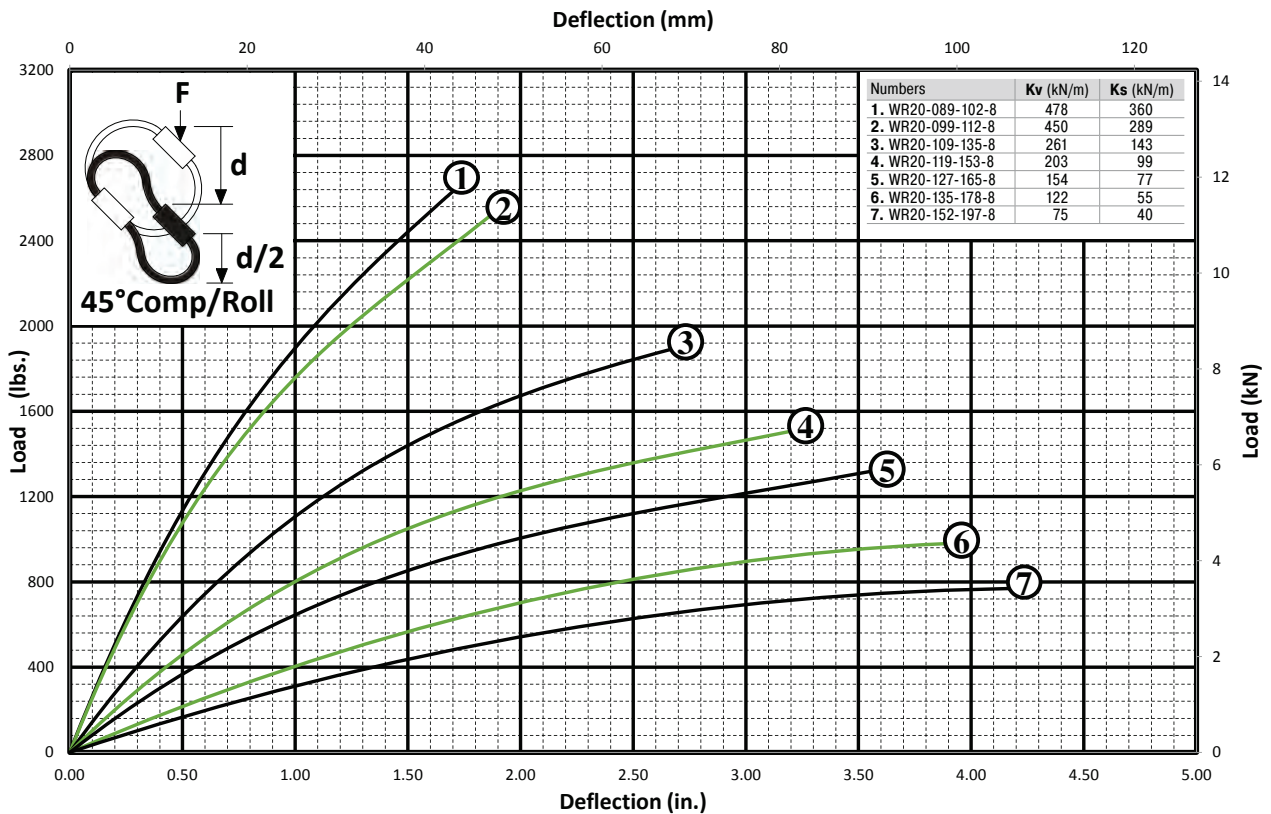
Shear



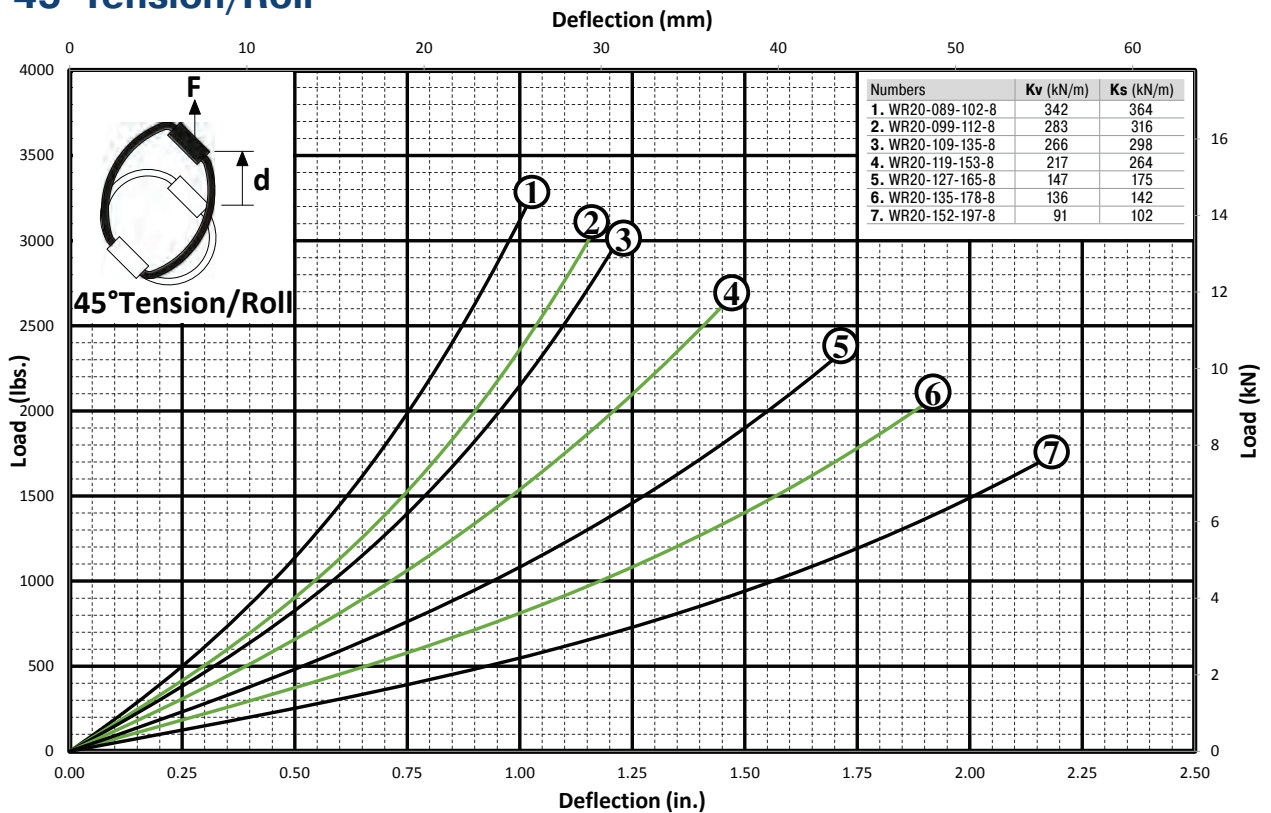
Roll



45° Compression/Roll



45° Tension/Roll



WR24

Helical Isolator

19.05 mm (3/4") Diameter Cable

Features

Rugged all metal construction
Fail safe construction
Long life and maintenance free
Three axis capability (6 dof)
High damping: C/cc $\approx$ 0.15 to 0.20

Operating temperature range

-130°C to +260°C

Material

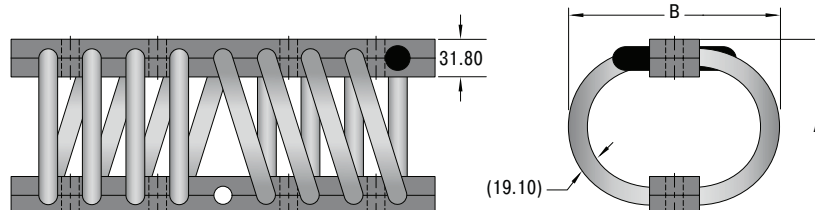
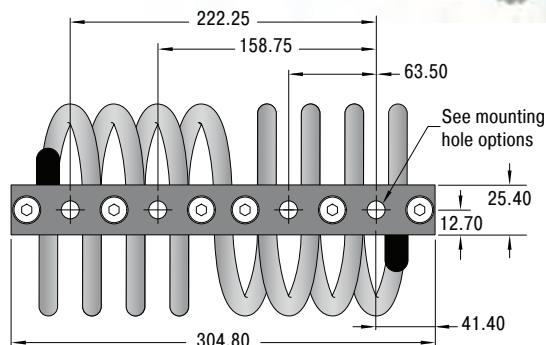
Cable: 300 Series SS per MIL-W-83420 or RR-W-410
Screws: 300 Series SS passivated IAW ASTM A967
Inserts: 300 Series SS (Alum bars only)
Retainer bars: Standard: 6061-T6 Alum alloy/
Chem film IAW MIL-DTL-5541, TYPE II, Class 3

Note

Mounting hole tolerances: ± 0.25 mm
Add 1.53 kg to Isolator weight for all stainless steel versions

On request

Special materials, size, mounting holes, finish, etc. available



Performance

TYPEN	A (+/- 0.8) mm	B mm	Compression			Shear/Roll (Average)			Weight kg
			Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	
WR24-102-108-8	101.6	108.0	1,099	668	30.5	420	443	30.5	4.760
WR24-112-118-8	111.8	118.1	942	644	40.6	406	381	40.6	5.060
WR24-122-140-8	121.9	139.7	807	452	50.8	306	257	50.8	5.450
WR24-131-159-8	131.1	158.8	709	367	61.0	212	199	61.0	5.740
WR24-140-172-8	139.7	171.5	588	311	68.6	178	188	68.6	5.930
WR24-152-210-8	152.4	209.6	422	235	81.3	134	143	81.3	6.210

Ordering Example

Type _____
Model size height _____
Model size wide _____
Number of loops _____
Mounting hole _____

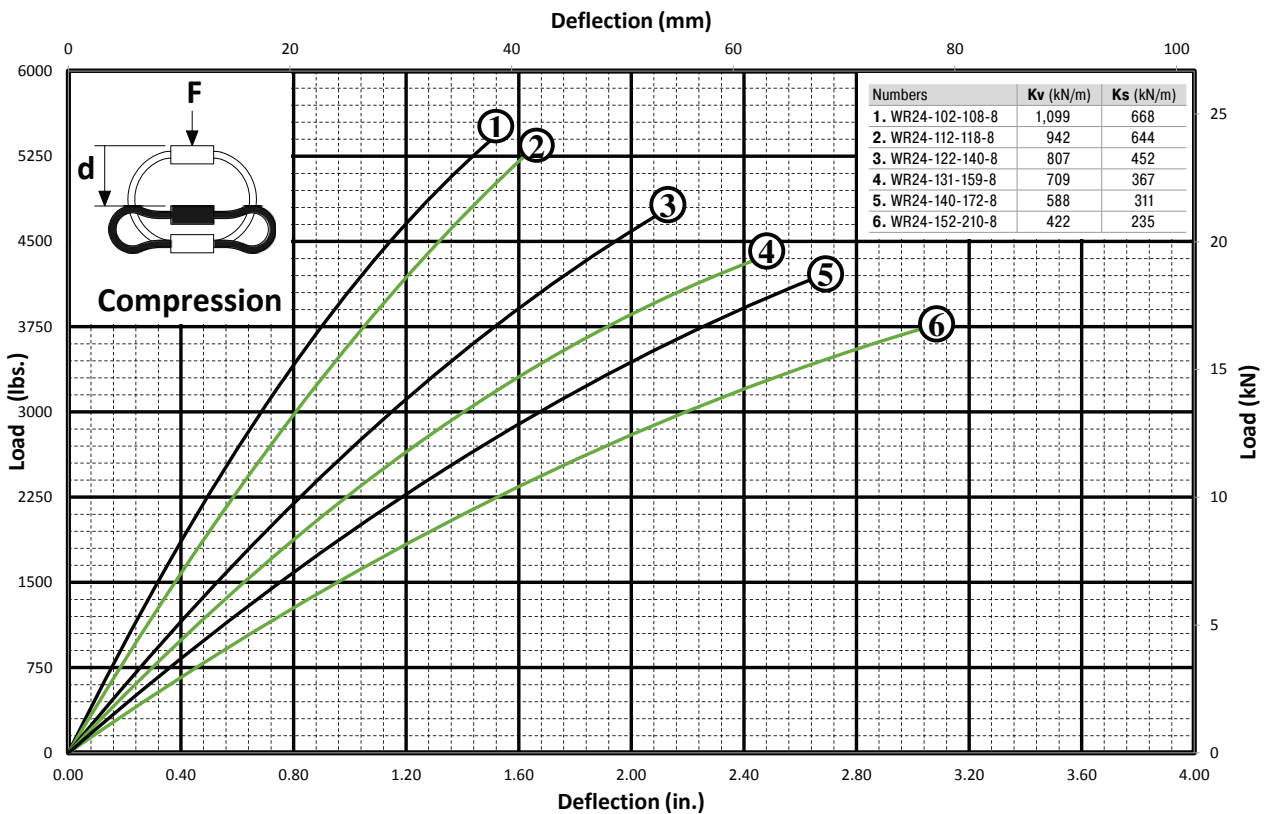
WR24-102-108-8-A

Mounting Hole Options

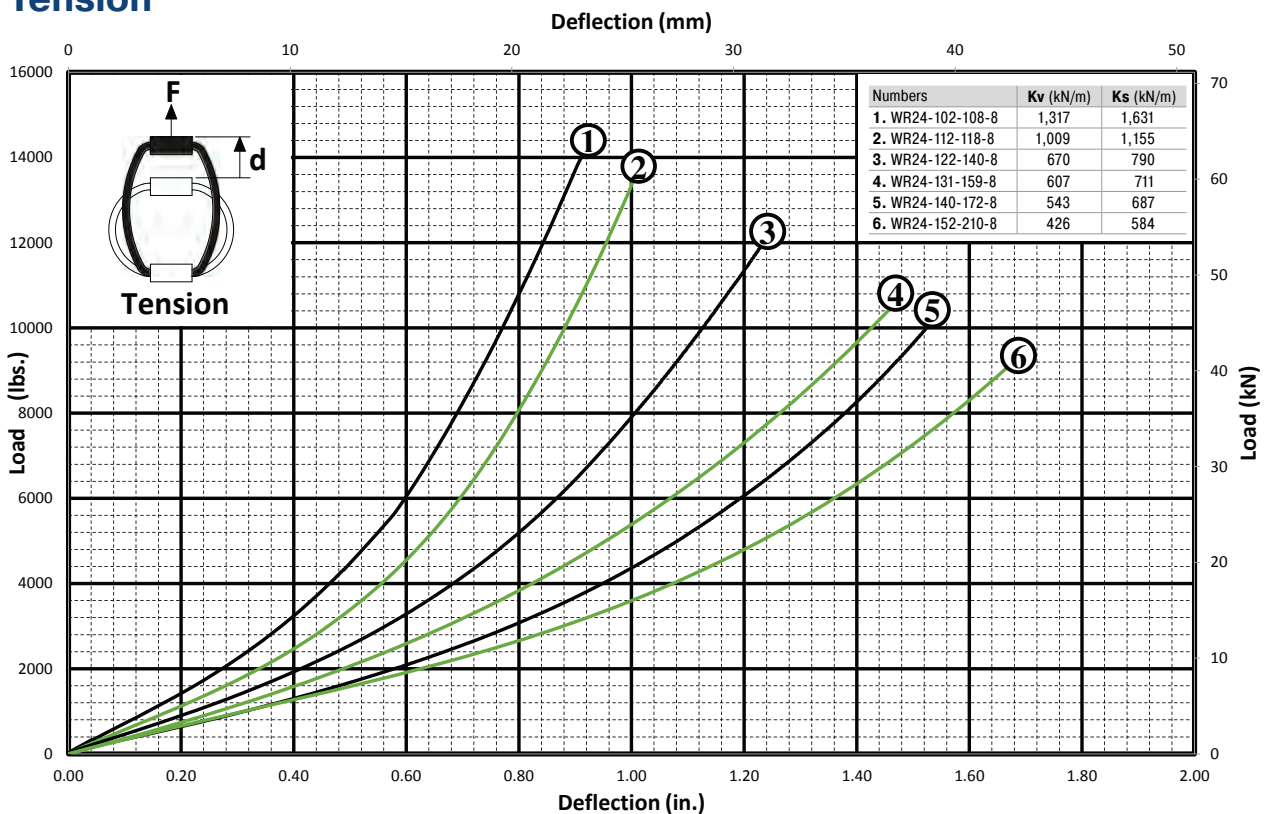
A	D
B	E
C	F

Issue 07.2020 – Specifications subject to change

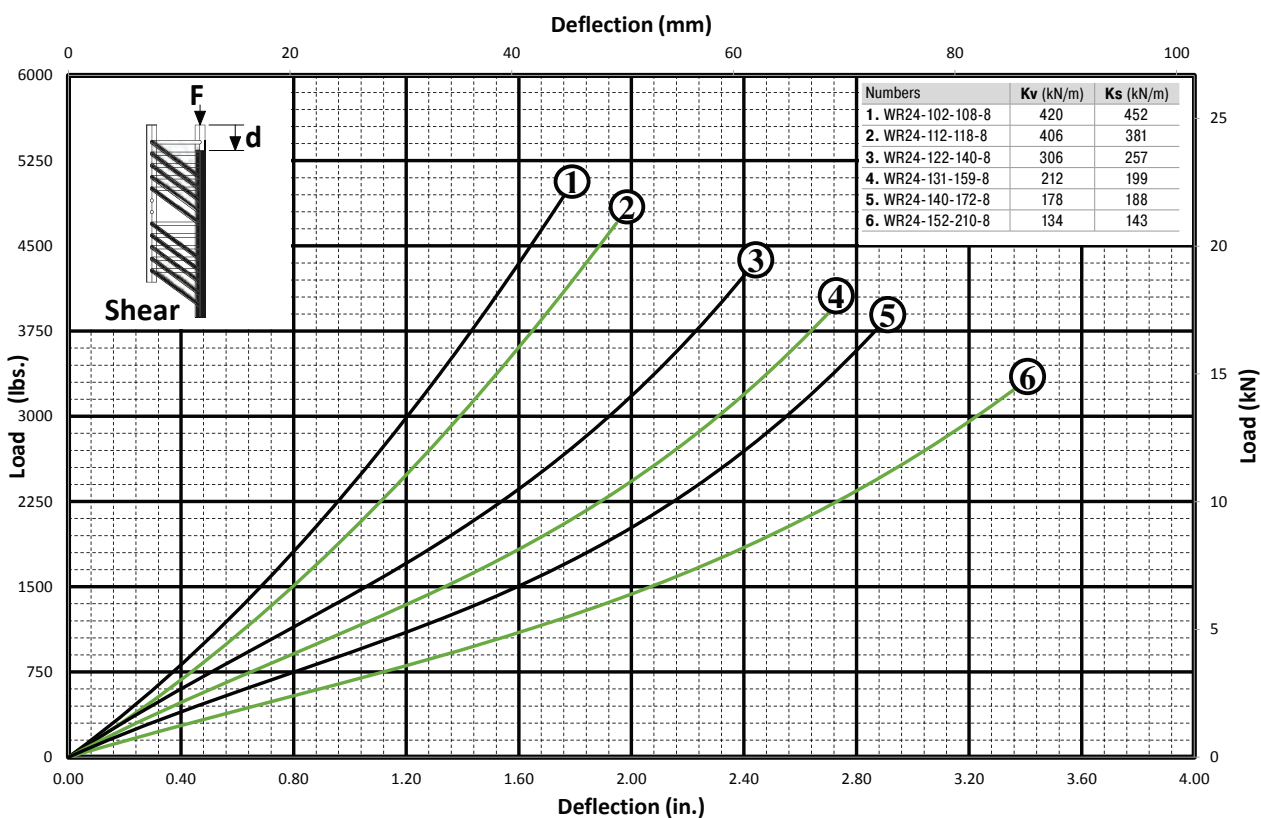
Compression



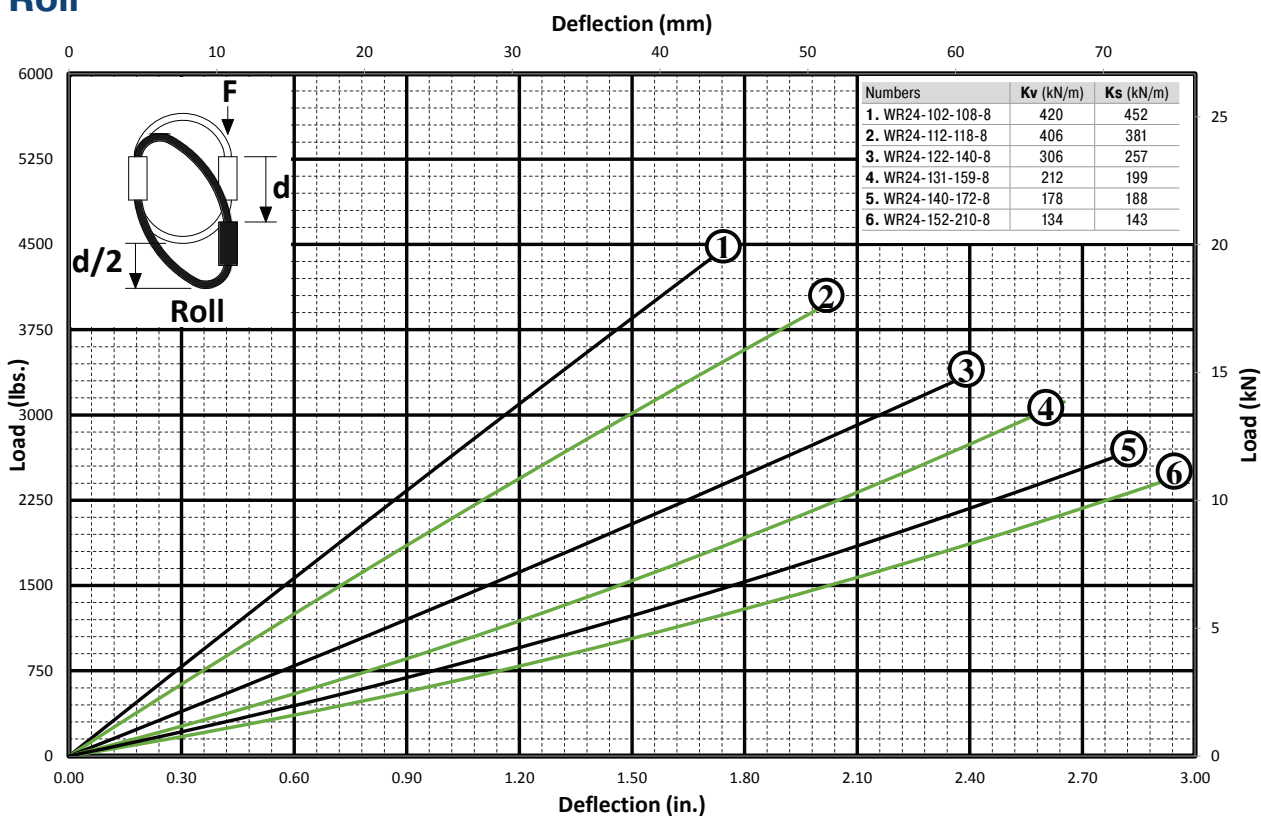
Tension



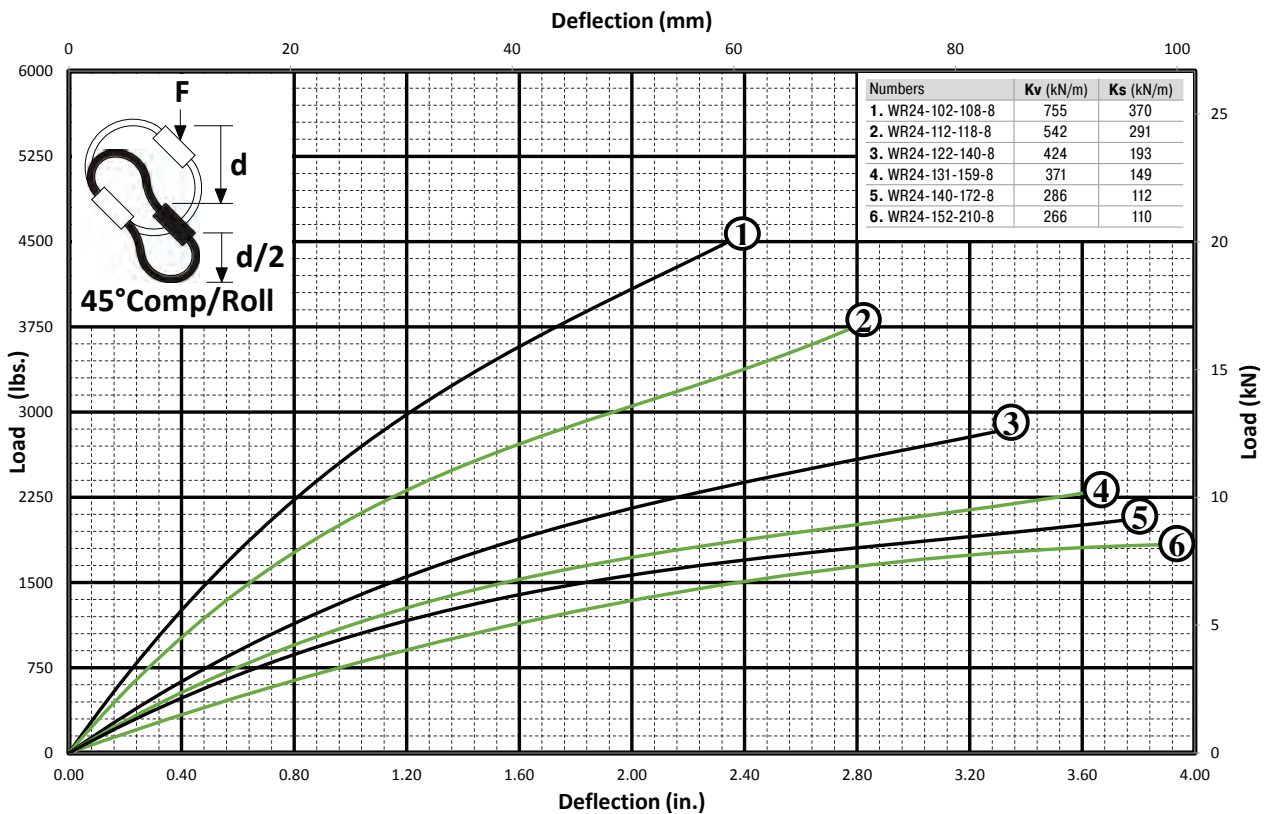
Shear



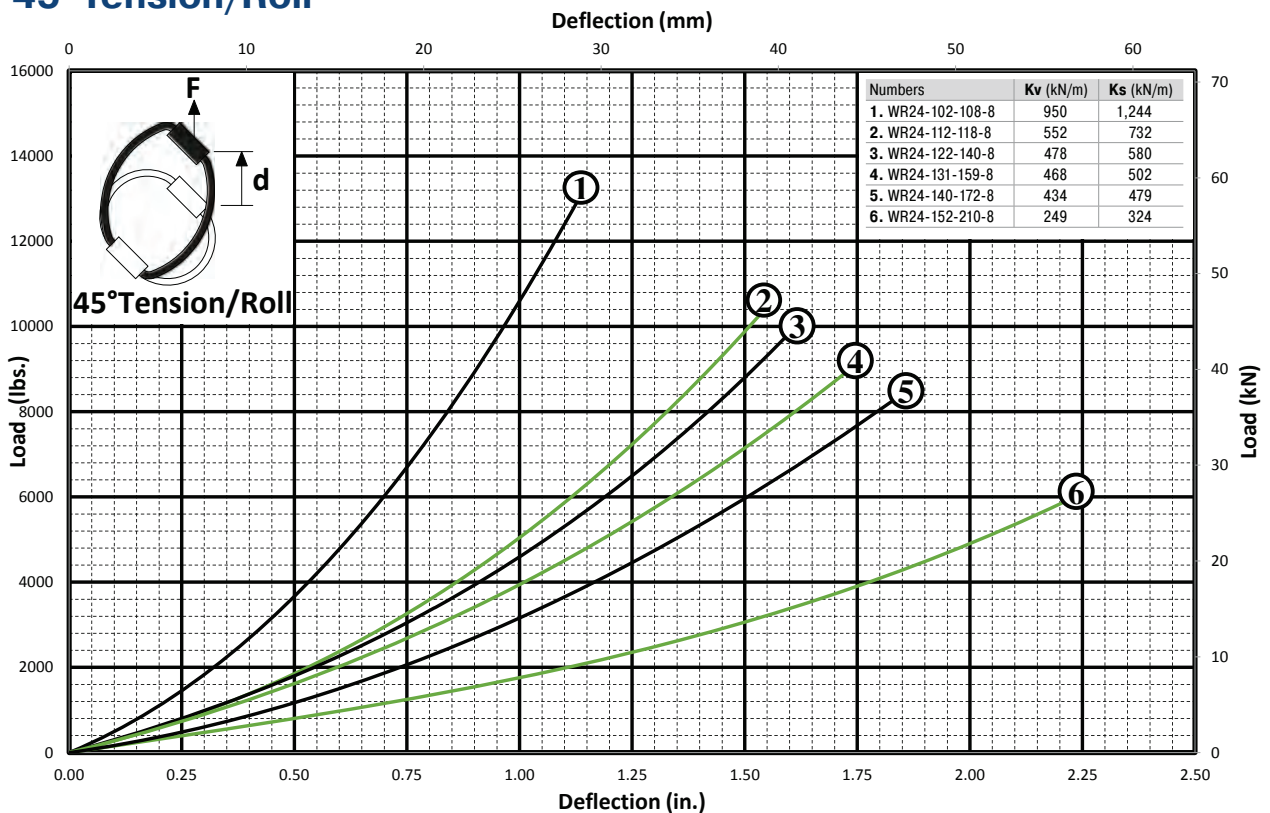
Roll



45° Compression/Roll



45° Tension/Roll



WR28

Helical Isolator

22.23 mm (7/8") Diameter Cable

Features

Rugged all metal construction
Fail safe construction
Long life and maintenance free
Three axis capability (6 dof)
High damping: C/cc $\approx$ 0.15 to 0.20

Operating temperature range

-130°C to +260°C

Material

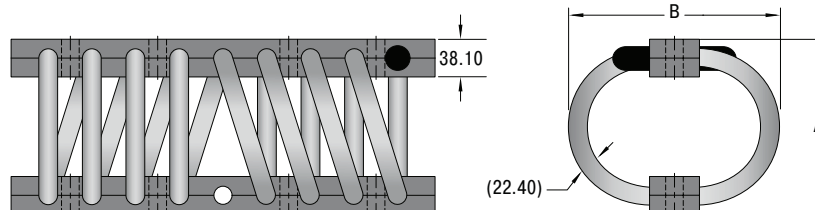
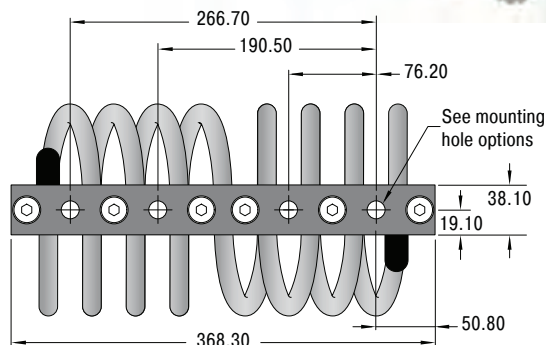
Cable: 300 Series SS per MIL-W-83420 or RR-W-410
Screws: 300 Series SS passivated IAW ASTM A967
Inserts: 300 Series SS (Alum bars only)
Retainer bars: Standard: 6061-T6 Alum alloy/
Chem film IAW MIL-DTL-5541, TYPE II, Class 3

Note

Mounting hole tolerances: ± 0.25 mm
Add 3.50 kg to Isolator weight for all stainless steel versions

On request

Special materials, size, mounting holes, finish, etc. available



Performance

TYPEN	A (+/- 0.8) mm	B mm	Compression			Shear/Roll (Average)			Weight kg
			Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	
WR28-133-172-8	133.4	171.5	1,094	725	45.7	346	375	45.7	9.080
WR28-152-178-8	152.4	177.8	968	651	66.0	278	309	66.0	9.670
WR28-159-184-8	158.8	184.2	736	483	71.1	244	272	71.1	9.830
WR28-178-197-8	177.8	196.9	517	332	88.9	137	152	88.9	10.830
WR28-191-210-8	190.5	209.6	444	238	101.6	116	128	101.6	11.400
WR28-216-235-8	215.9	235.0	323	155	127.0	82	88	127.0	12.200

Ordering Example

Type _____
Model size height _____
Model size wide _____
Number of loops _____
Mounting hole _____

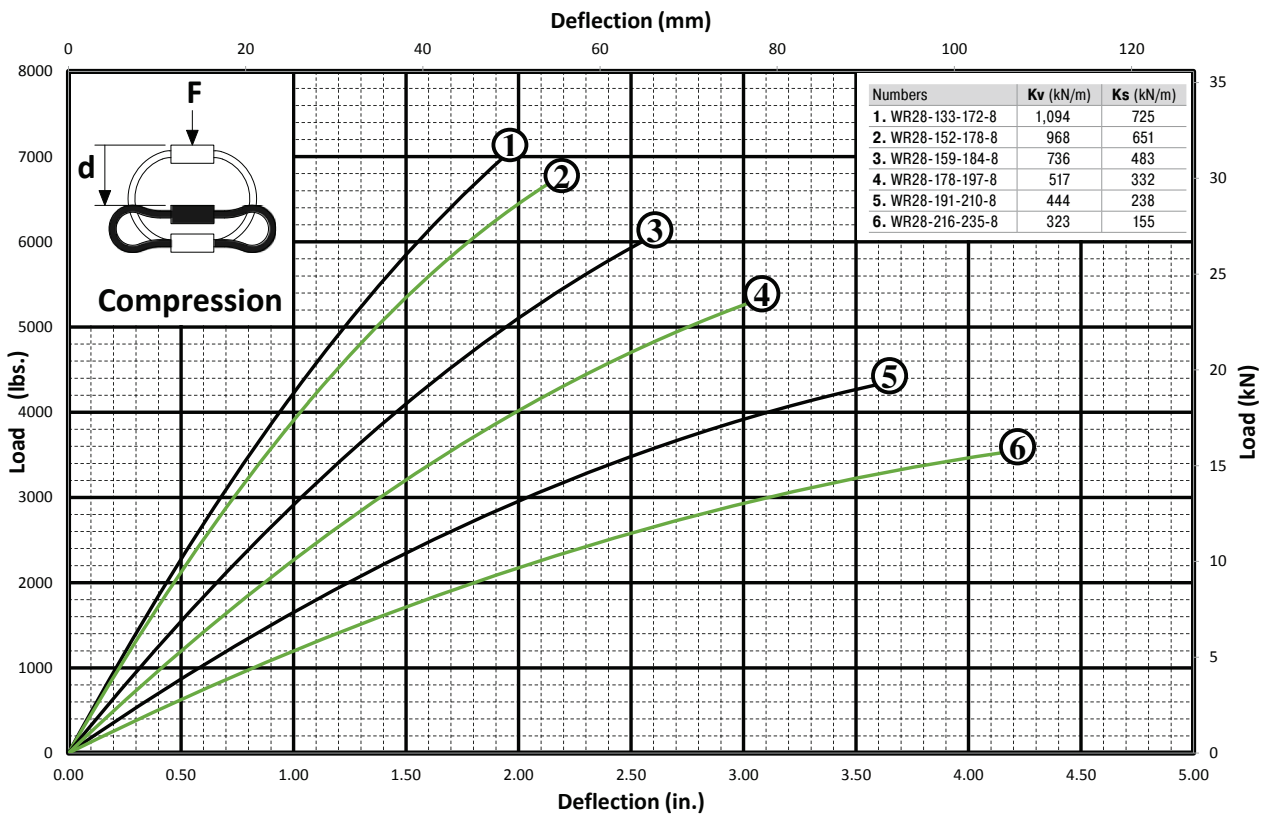
WR28-133-172-8-A

Mounting Hole Options

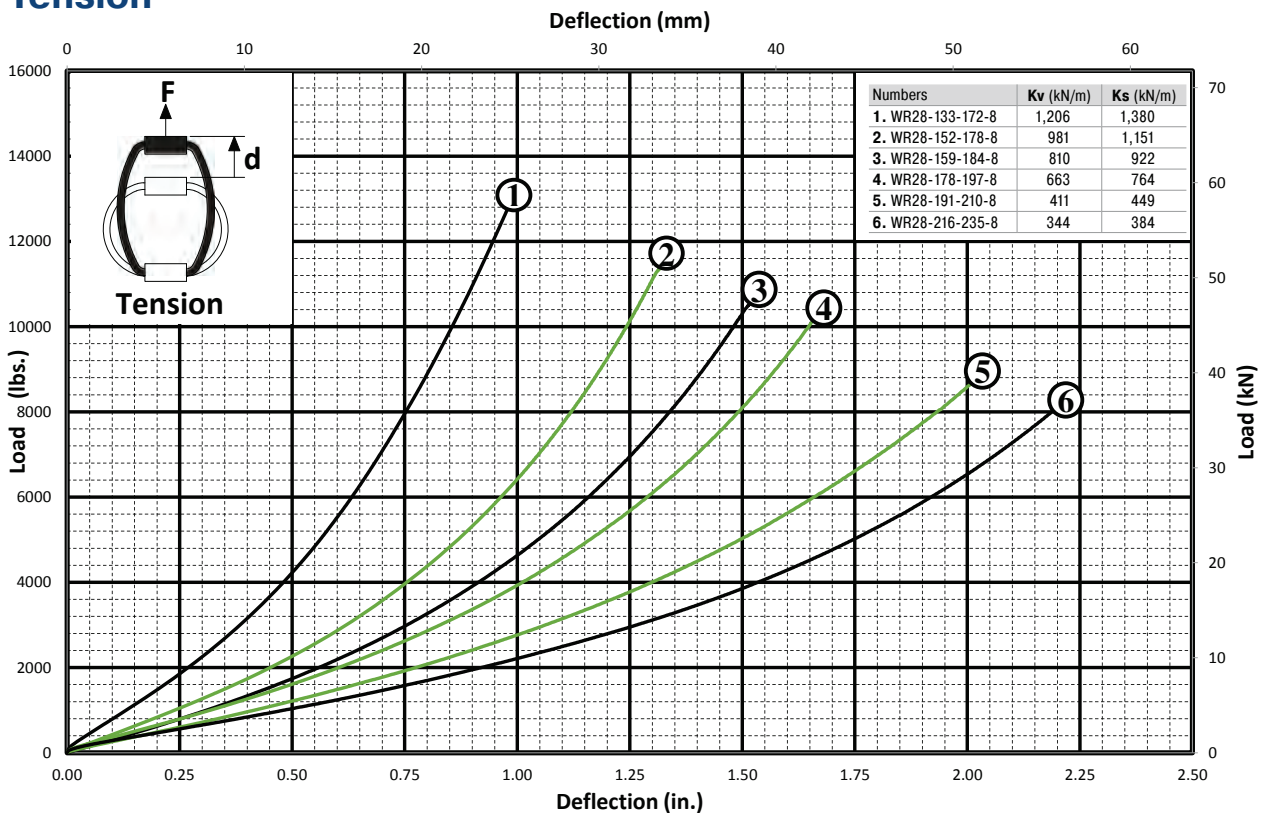
 A	 D
 B	 E
 C	 F

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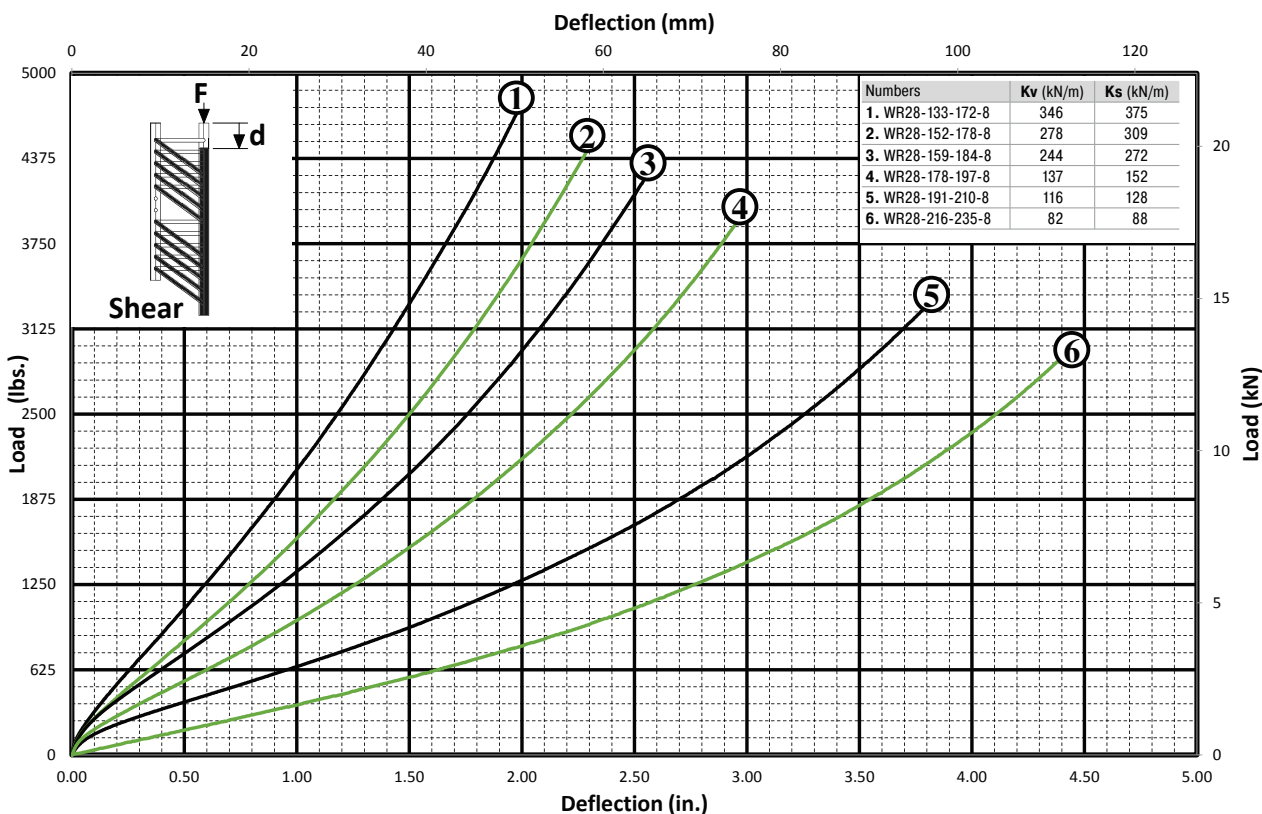
Compression



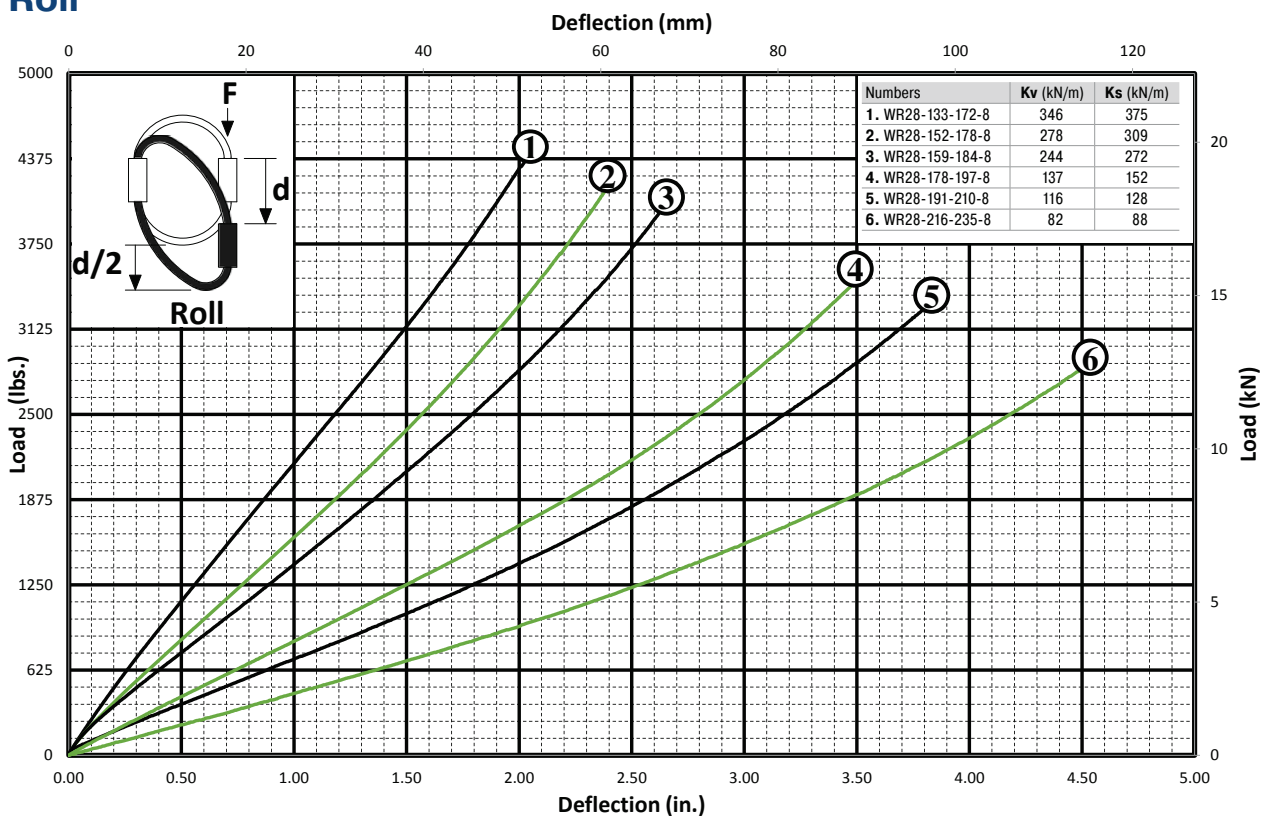
Tension



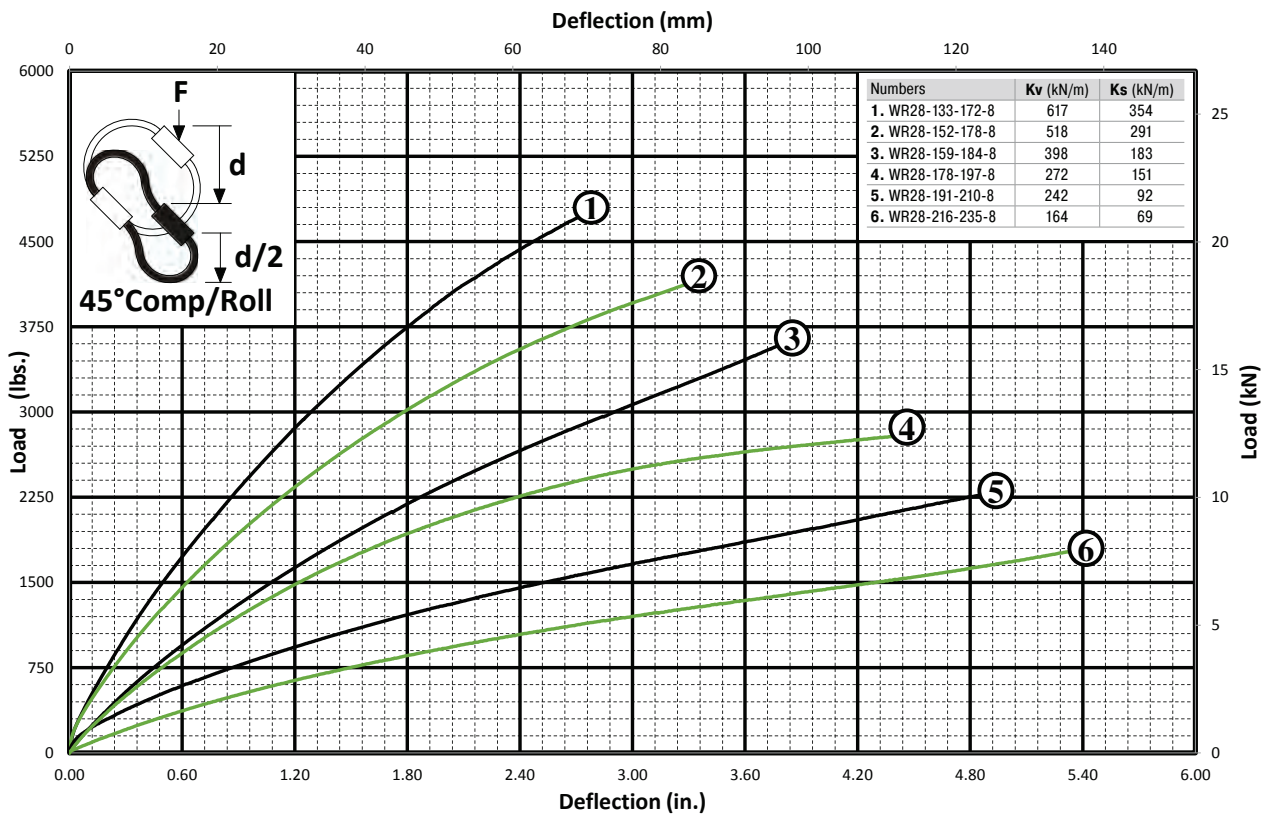
Shear



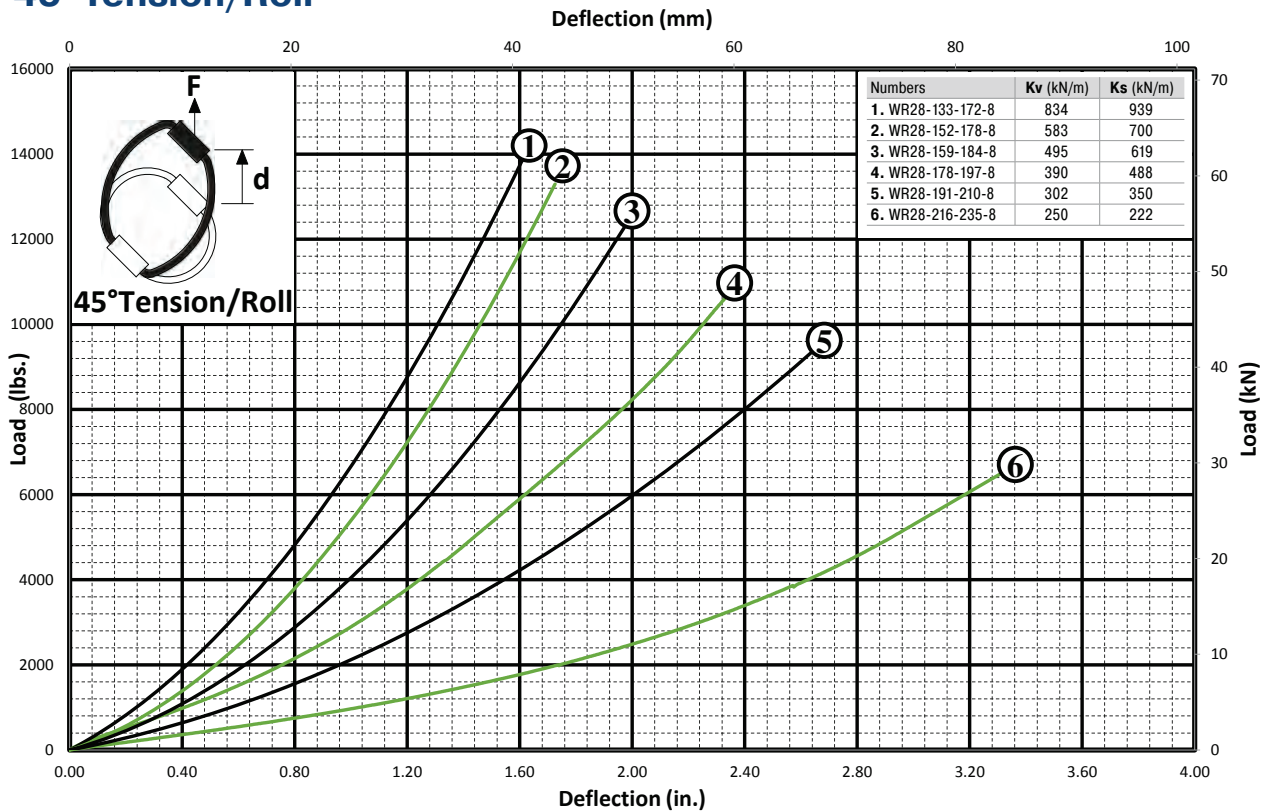
Roll



45° Compression/Roll



45° Tension/Roll



WR32

Helical Isolator

25.40 mm (1") Diameter Cable

Features

Rugged all metal construction
Fail safe construction
Long life and maintenance free
Three axis capability (6 dof)
High damping: $C/cc \approx 0.15$ to 0.20

Operating temperature range

-130°C to +260°C

Material

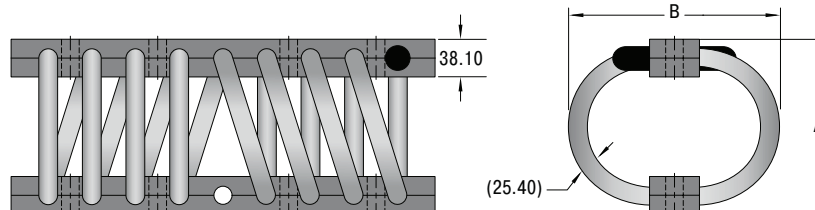
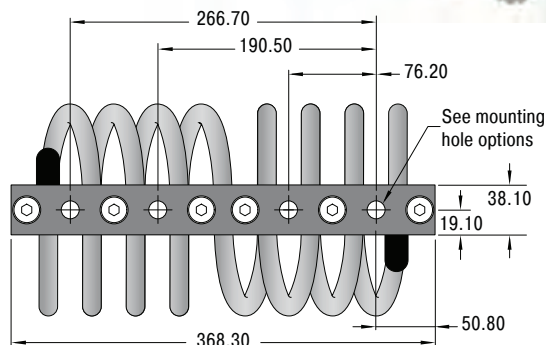
Cable: 300 Series SS per MIL-W-83420 or RR-W-410
Screws: 300 Series SS passivated IAW ASTM A967
Inserts: 300 Series SS (Alum bars only)
Retainer bars: Standard: 6061-T6 Alum alloy/
Chem film IAW MIL-DTL-5541, TYPE II, Class 3

Note

Mounting hole tolerances: ± 0.25 mm
Add 3.05 kg to Isolator weight for all stainless steel versions

On request

Special materials, size, mounting holes, finish, etc. available



Performance

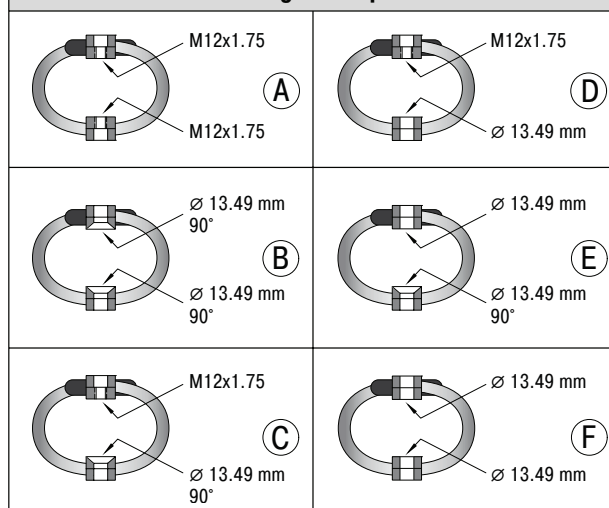
TYPEN	A (+/- 0.8) mm	B mm	Compression			Shear/Roll (Average)			Weight kg
			Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	
WR32-133-178-8	133.4	177.8	1,901	1,083	45.7	850	559	45.7	11.320
WR32-152-184-8	152.4	184.2	1,607	915	66.0	667	450	66.0	11.710
WR32-159-191-8	158.8	190.5	1,311	719	71.1	637	421	71.1	12.080
WR32-178-203-8	177.8	203.2	751	427	88.9	457	306	88.9	12.890
WR32-191-216-8	190.5	215.9	663	368	101.6	358	220	101.6	14.170
WR32-216-241-8	215.9	241.3	502	277	127.0	249	161	127.0	15.340

Ordering Example

Type _____
Model size height _____
Model size wide _____
Number of loops _____
Mounting hole _____

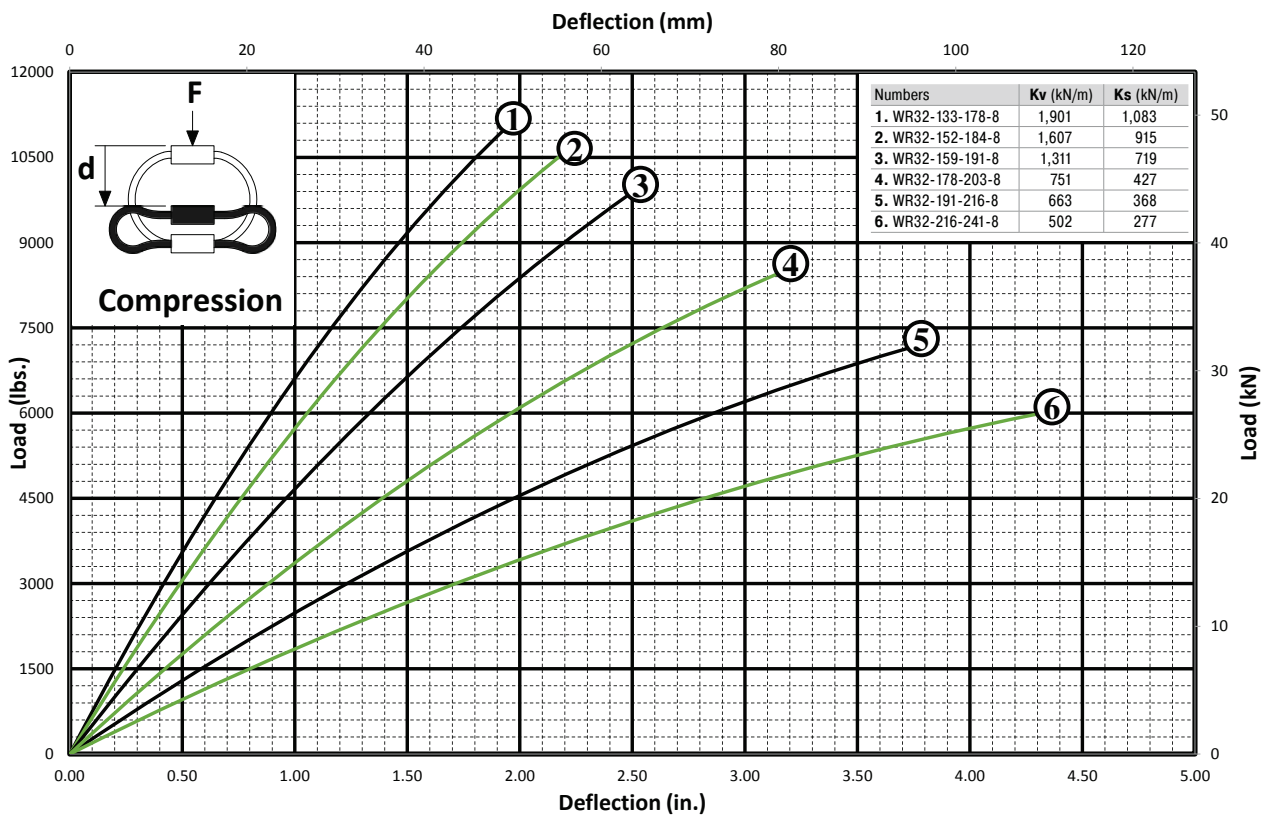
WR32-133-178-8-A

Mounting Hole Options

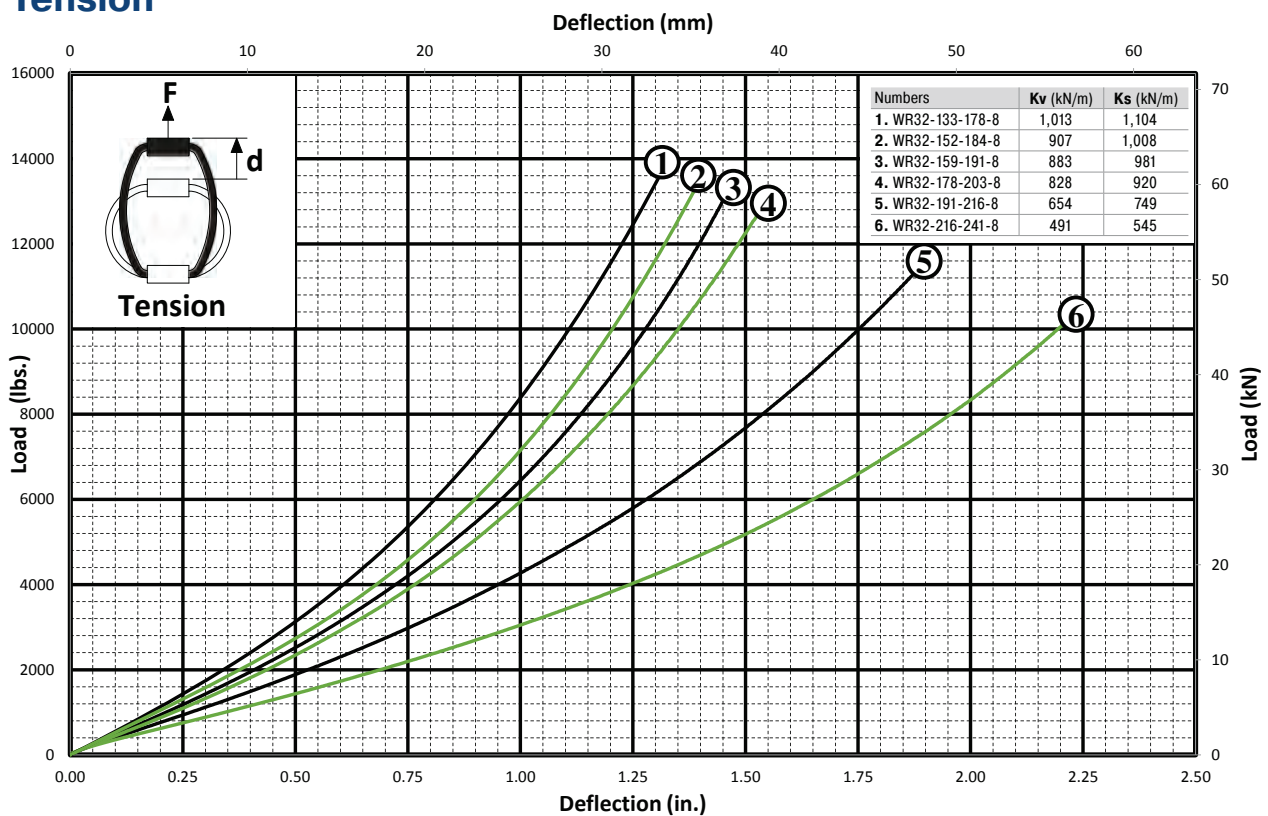


Issue 07.2020 – Specifications subject to change

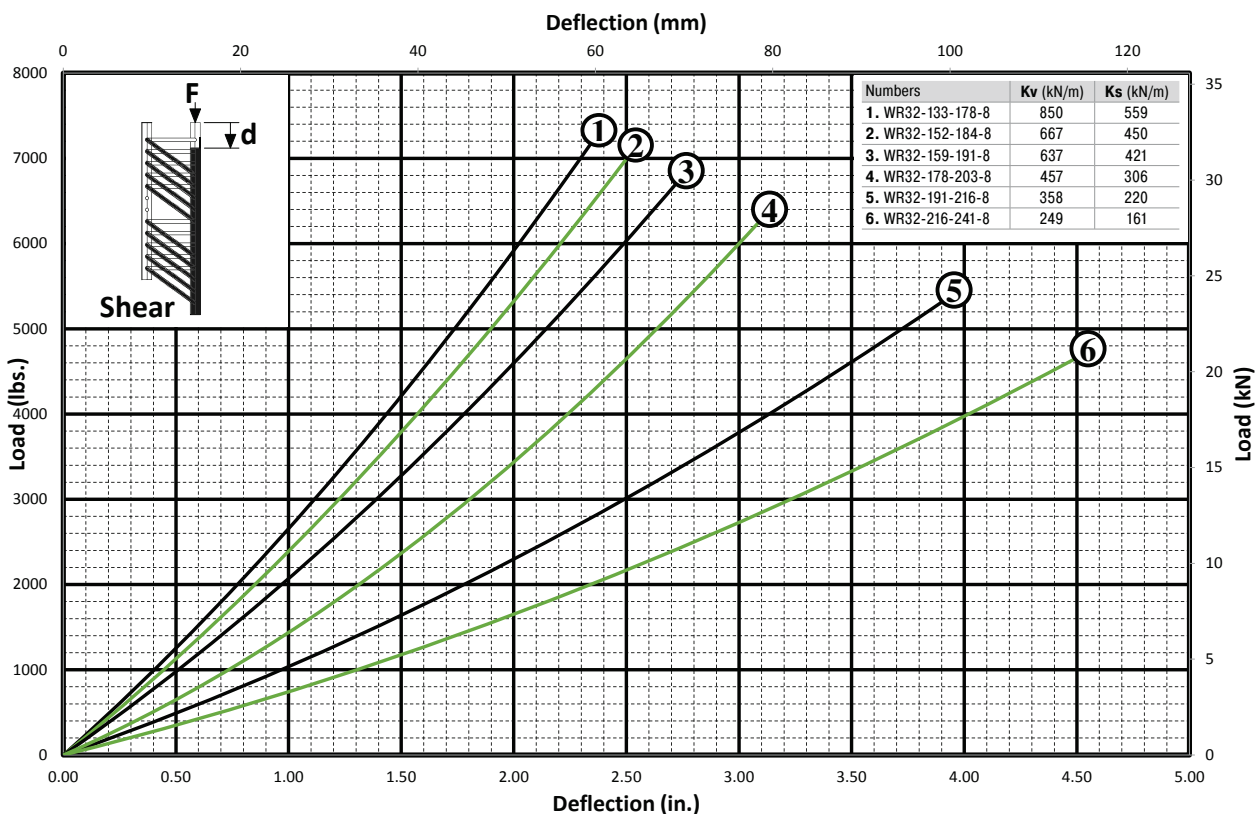
Compression



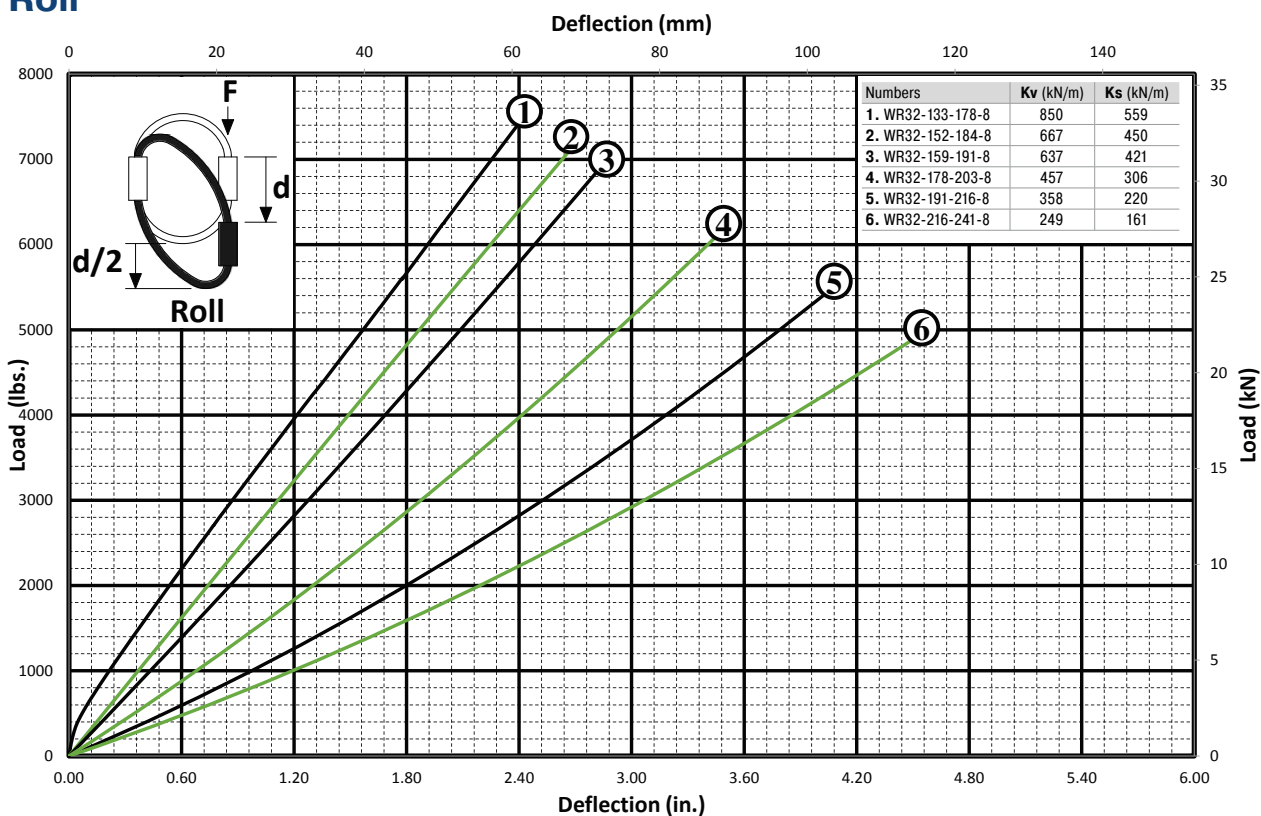
Tension



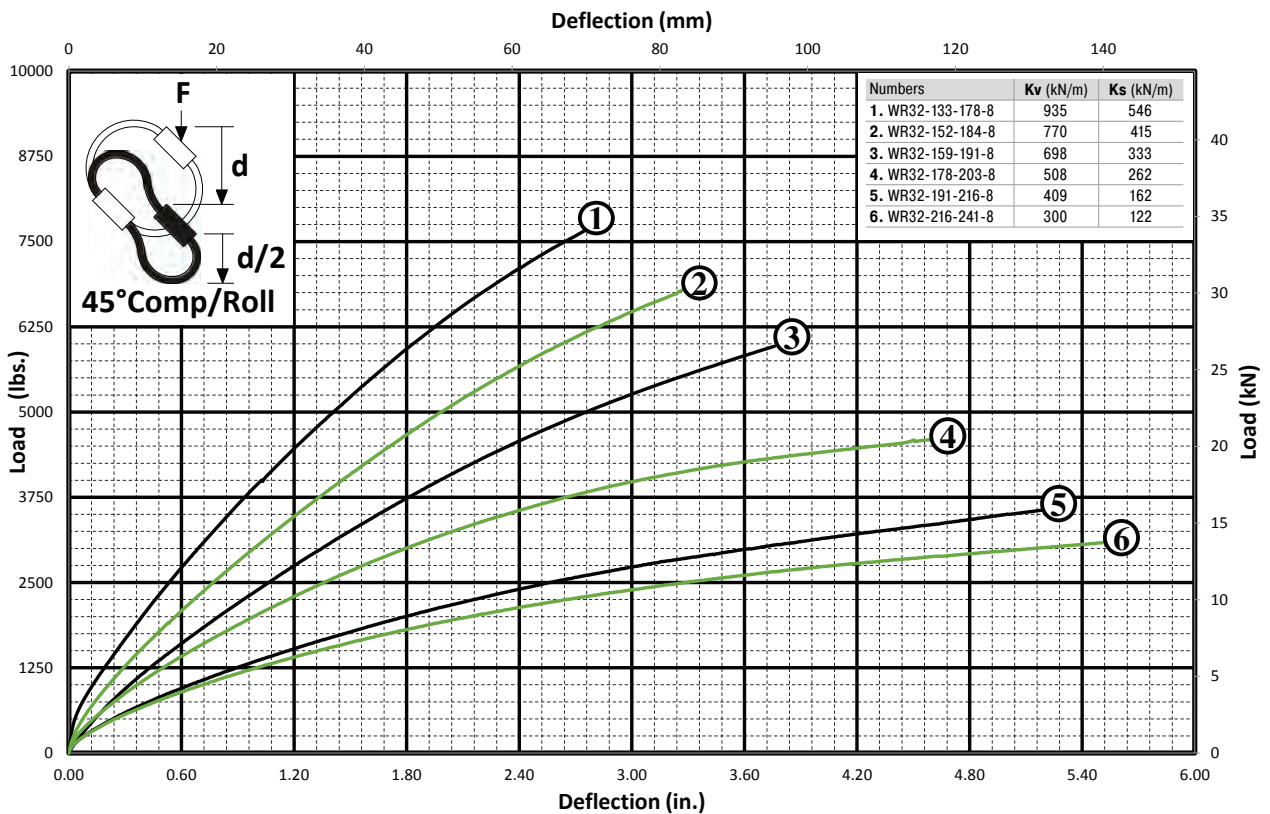
Shear



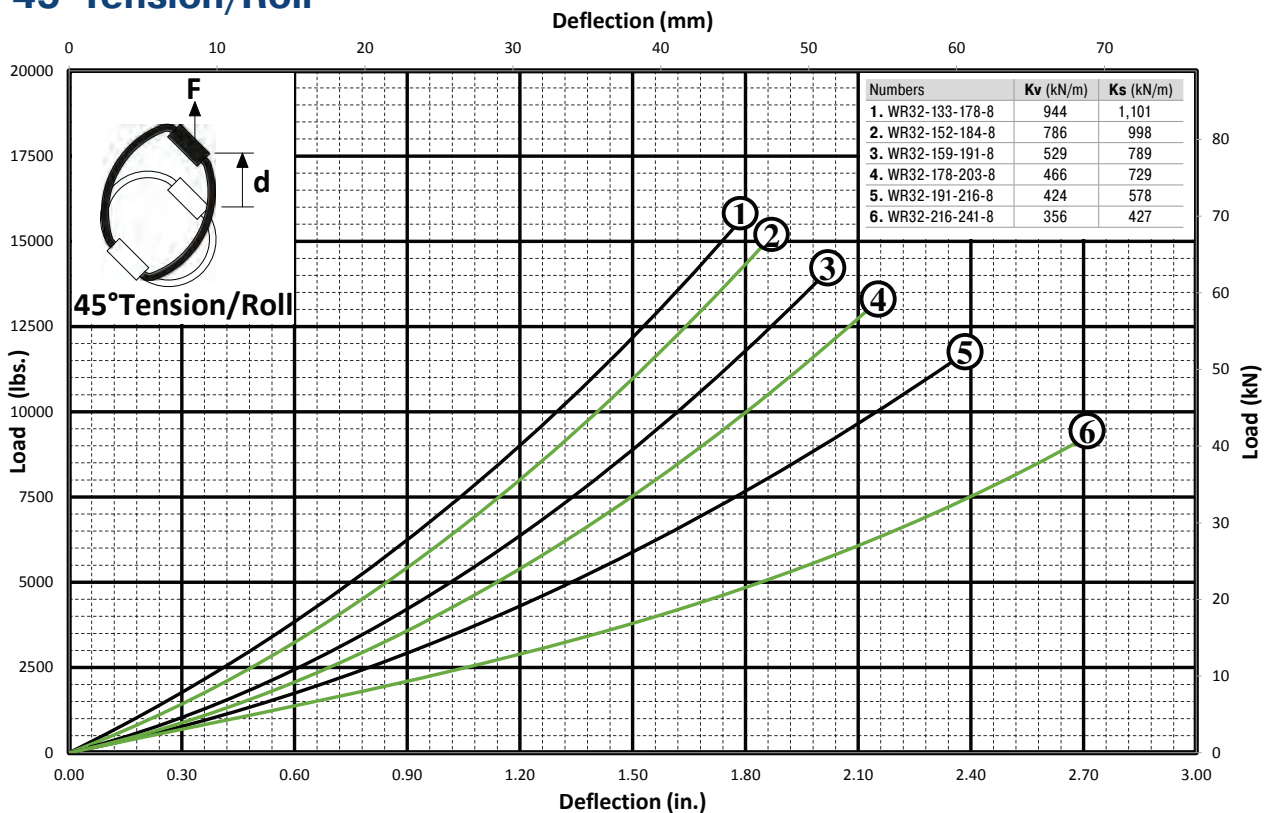
Roll



45° Compression/Roll



45° Tension/Roll



WR36

Helical Isolator

28.58 mm (1 1/8") Diameter Cable

Features

Rugged all metal construction
Fail safe construction
Long life and maintenance free
Three axis capability (6 dof)
High damping: C/cc $\approx$ 0.15 to 0.20

Operating temperature range

-130°C to +260°C

Material

Cable: 300 Series SS per MIL-W-83420 or RR-W-410

Screws: 300 Series SS passivated IAW ASTM A967

Inserts: 300 Series SS (Alum bars only)

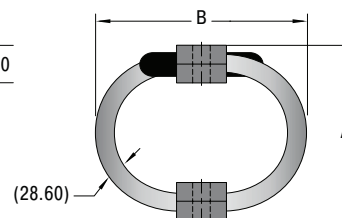
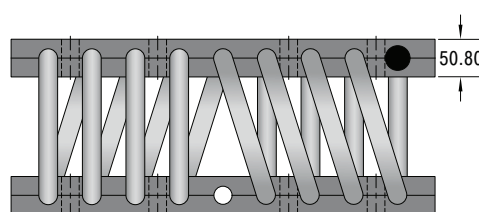
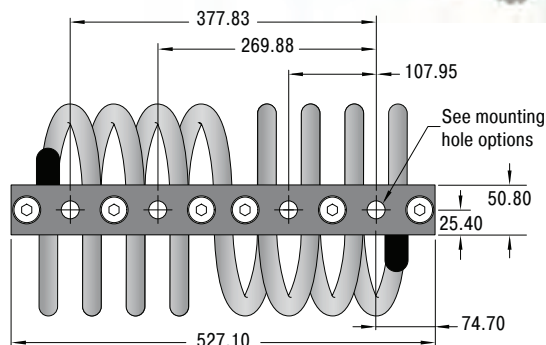
Retainer bars: Standard: 6061-T6 Alum alloy/
Chem film IAW MIL-DTL-5541, TYPE II, Class 3

Note

Mounting hole tolerances: ± 0.25 mm
Add 9.99 kg to Isolator weight for all stainless steel versions

On request

Special materials, size, mounting holes, finish, etc. available



Performance

TYPEN	A (+/- 0.8) mm	B mm	Compression			Shear/Roll (Average)			Weight kg
			Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	
WR36-178-216-8	177.8	215.9	1,944	867	61.0	455	387	61.0	20.880
WR36-197-235-8	196.9	235.0	1,220	574	81.3	426	274	81.3	22.250
WR36-216-241-8	215.9	241.3	706	382	99.1	305	222	99.1	23.610
WR36-235-260-8	235.0	260.4	684	305	119.4	161	181	119.4	24.520

Ordering Example

Type _____
Model size height _____
Model size wide _____
Number of loops _____
Mounting hole _____

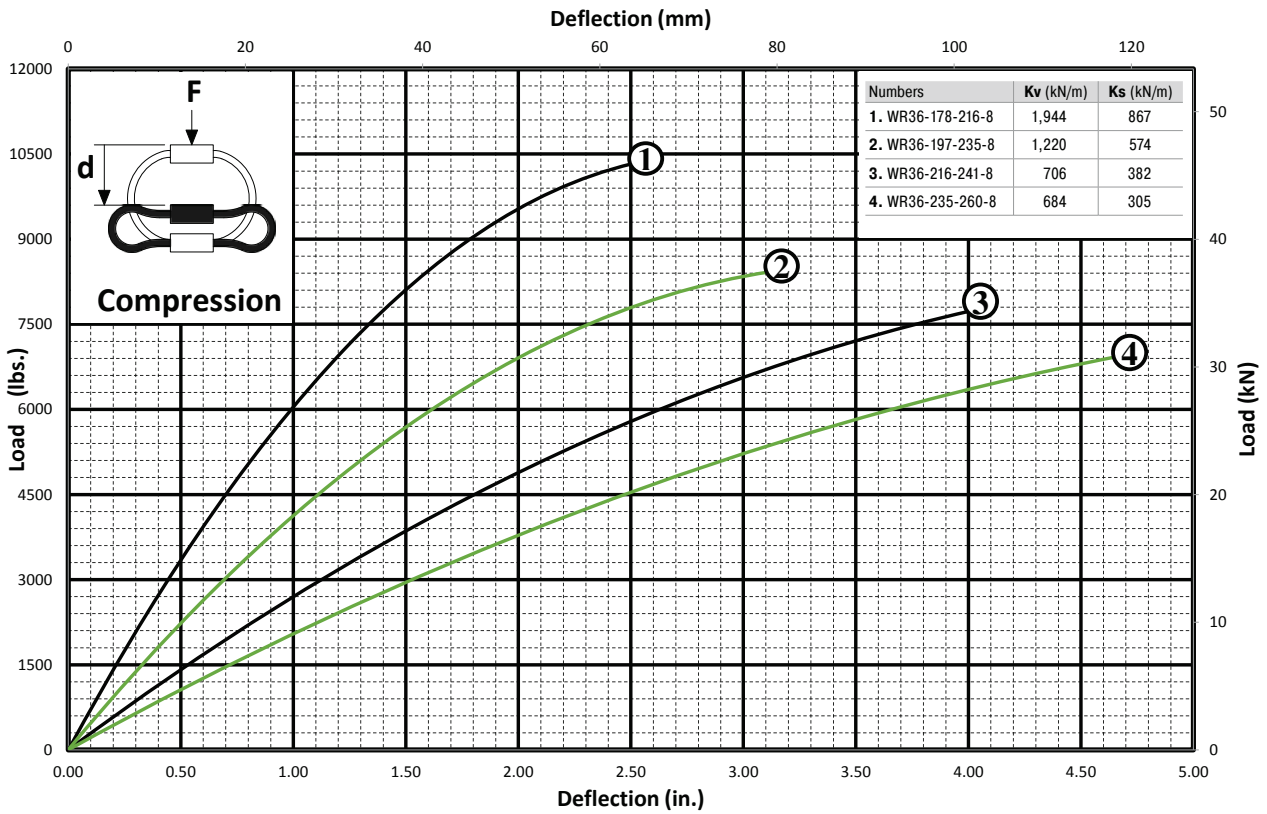
WR36-178-216-8-A

Mounting Hole Options

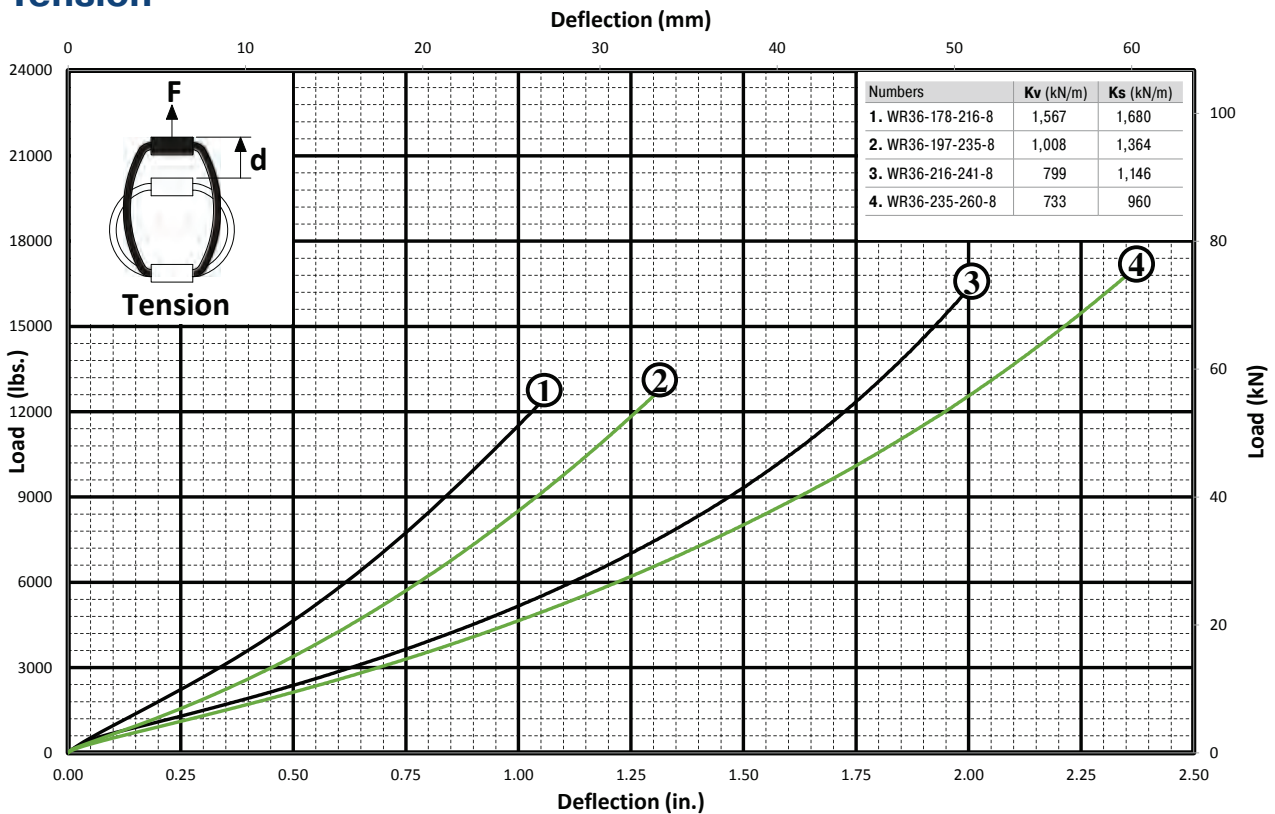
 A	 D
 B	 E
 C	 F

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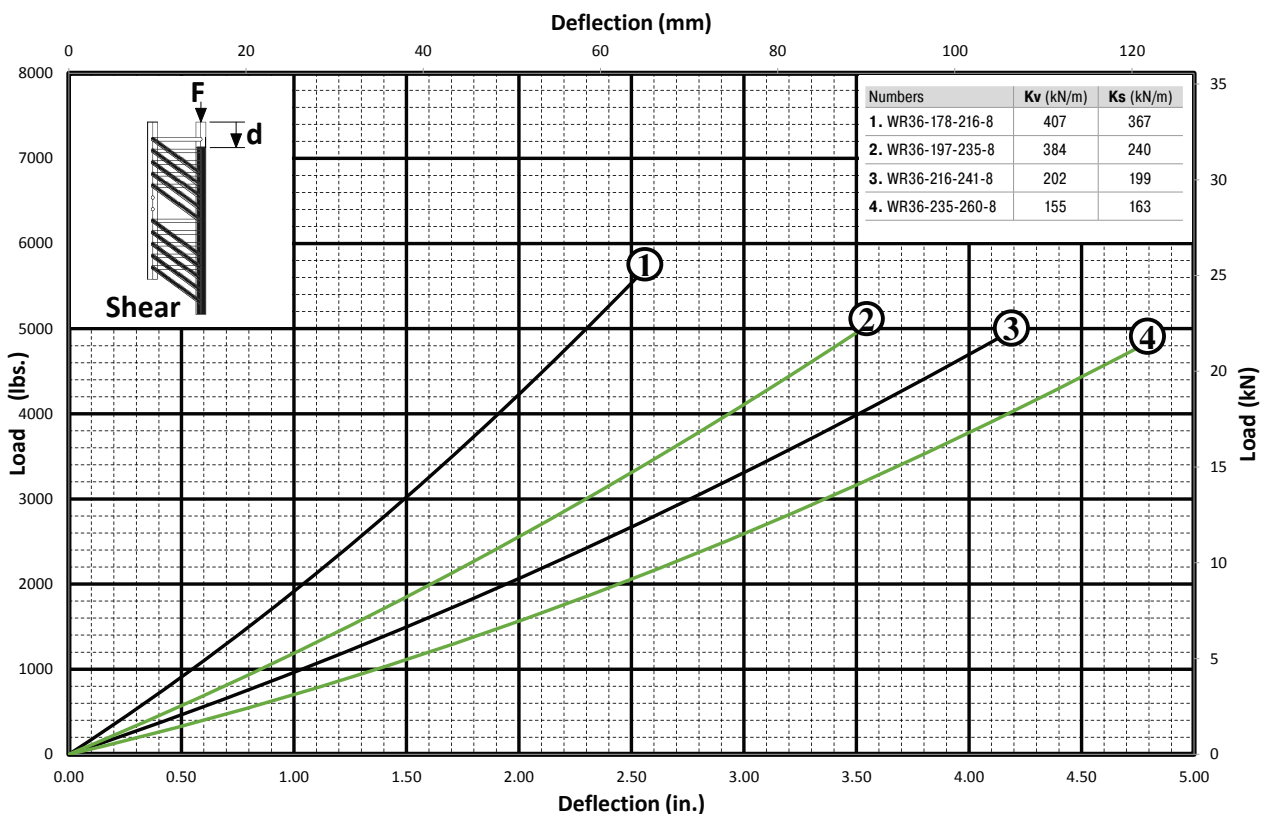
Compression



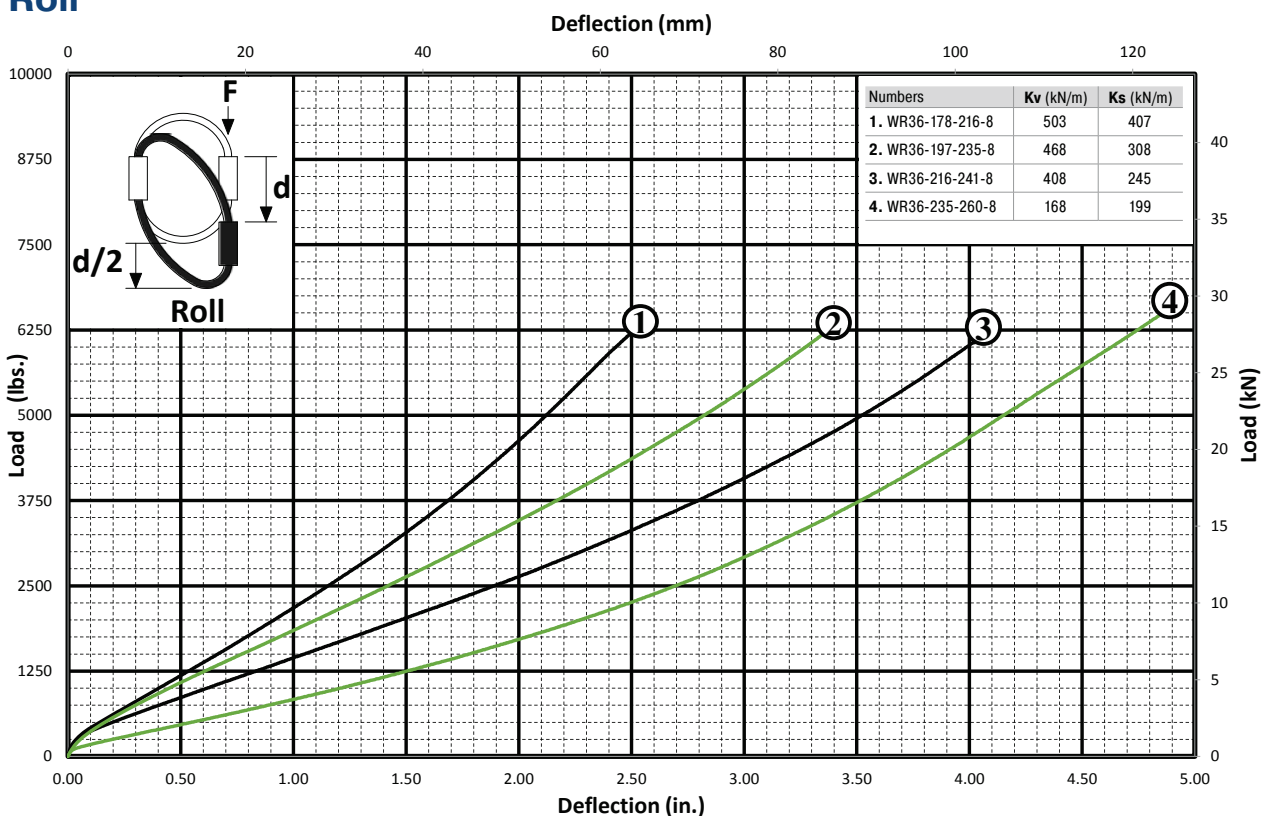
Tension



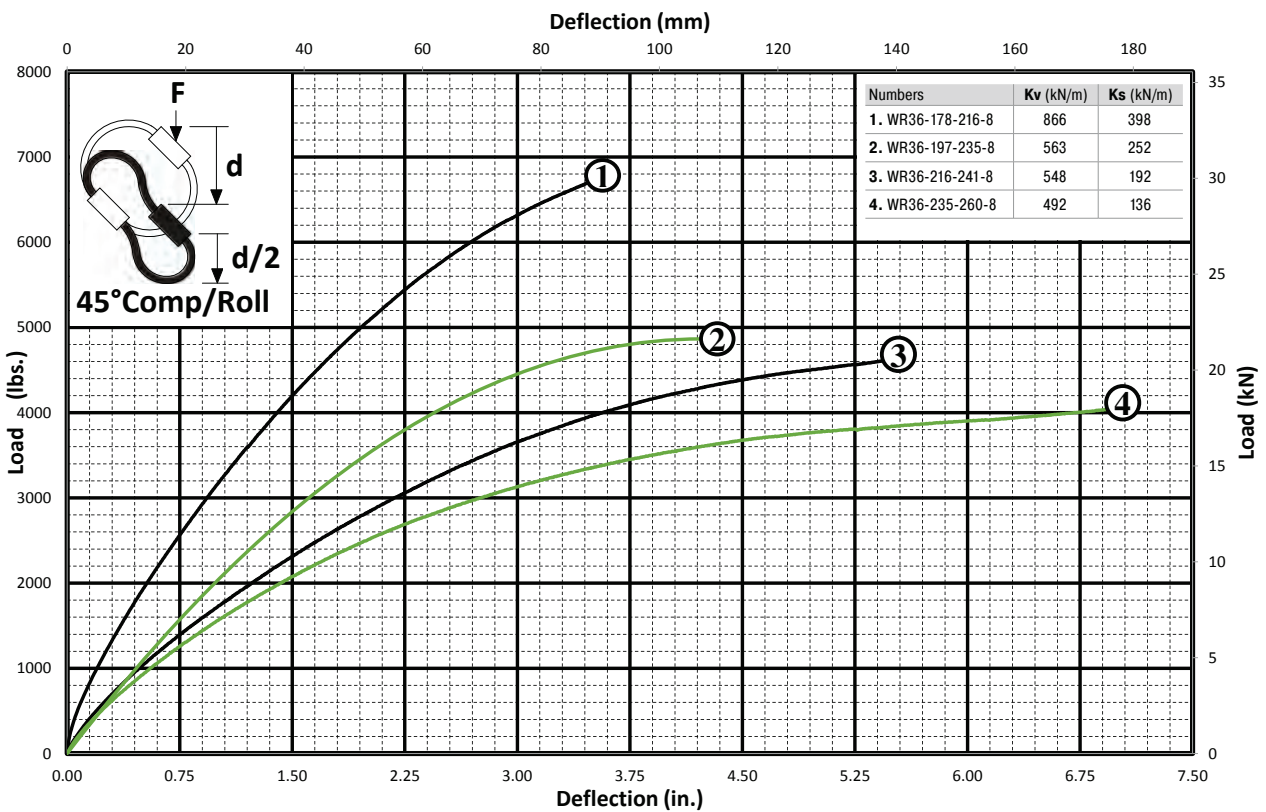
Shear



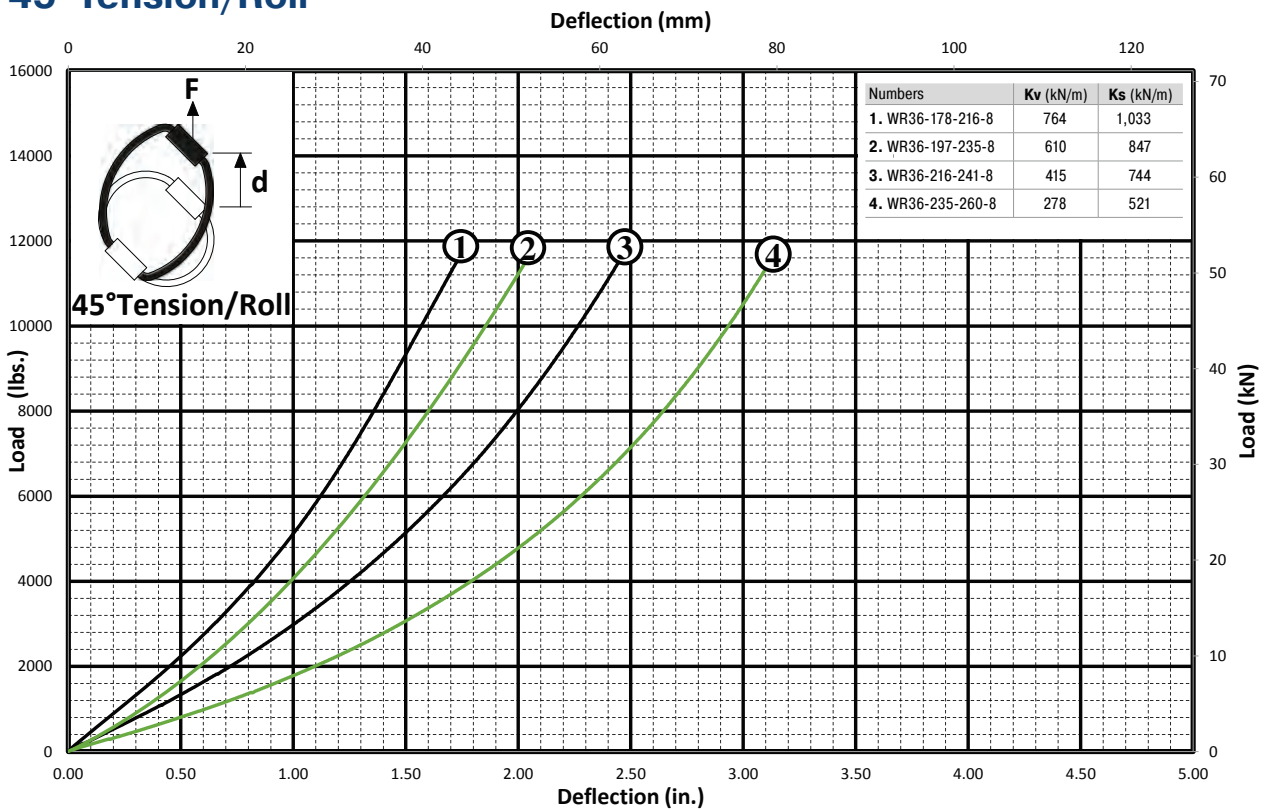
Roll



45° Compression/Roll



45° Tension/Roll



WR40

Helical Isolator

31.75 mm (1¼") Diameter Cable

Features

Rugged all metal construction
Fail safe construction
Long life and maintenance free
Three axis capability (6 dof)
High damping: C/cc $\approx$ 0.15 to 0.20

Operating temperature range

-130°C to +260°C

Material

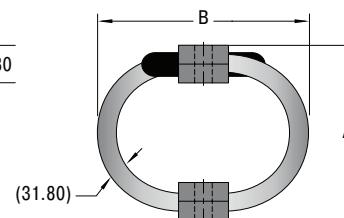
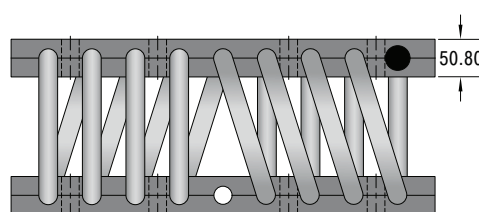
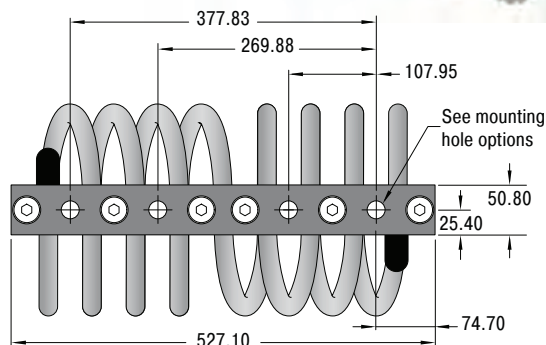
Cable: 300 Series SS per MIL-W-83420 or RR-W-410
Screws: 300 Series SS passivated IAW ASTM A967
Inserts: 300 Series SS (Alum bars only)
Retainer bars: Standard: 6061-T6 Alum alloy/
Chem film IAW MIL-DTL-5541, TYPE II, Class 3

Note

Mounting hole tolerances: ± 0.25 mm
Add 8.39 kg to Isolator weight for all stainless steel versions

On request

Special materials, size, mounting holes, finish, etc. available



Performance

TYPEN	A (+/- 0.8) mm	B mm	Compression			Shear/Roll (Average)			Weight kg
			Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	
WR40-178-229-8	177.8	228.6	2,219	1,249	61.0	652	500	61.0	24.060
WR40-197-254-8	196.9	254.0	1,695	714	81.3	635	389	81.3	25.420
WR40-216-260-8	215.9	260.4	1,255	556	99.1	434	276	99.1	27.240
WR40-235-273-8	235.0	273.1	1,109	476	119.4	388	272	119.4	28.600

Ordering Example

Type _____
Model size height _____
Model size wide _____
Number of loops _____
Mounting hole _____

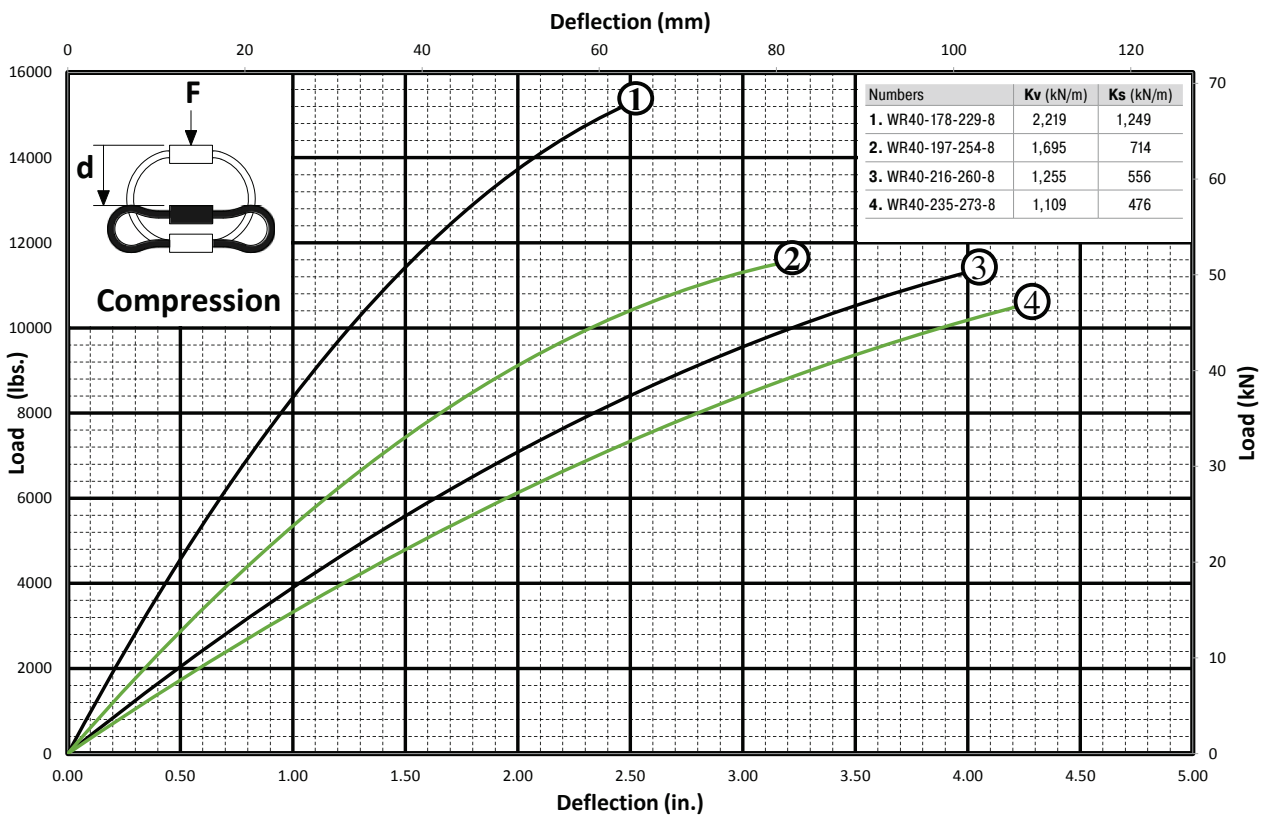
WR40-178-229-8-A

Mounting Hole Options

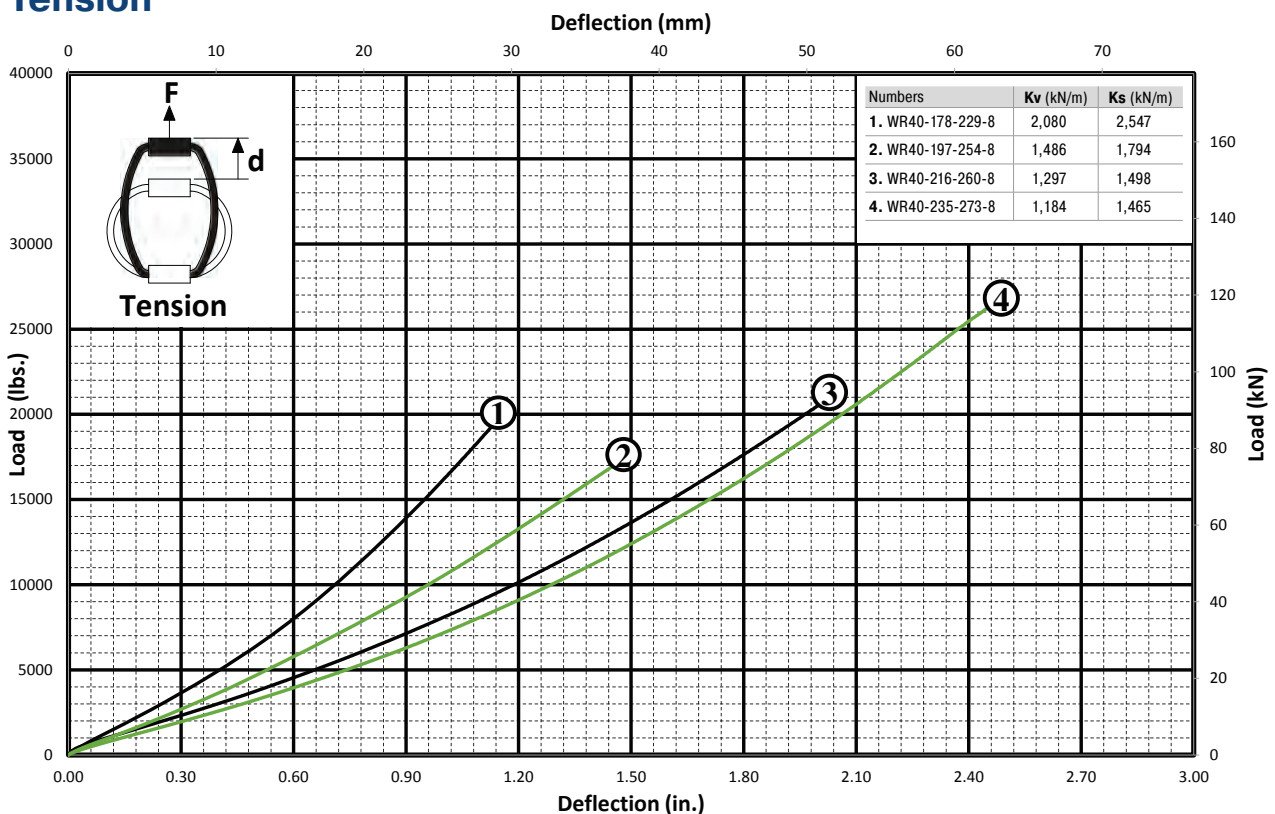
A	D
B	E
C	F

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Compression



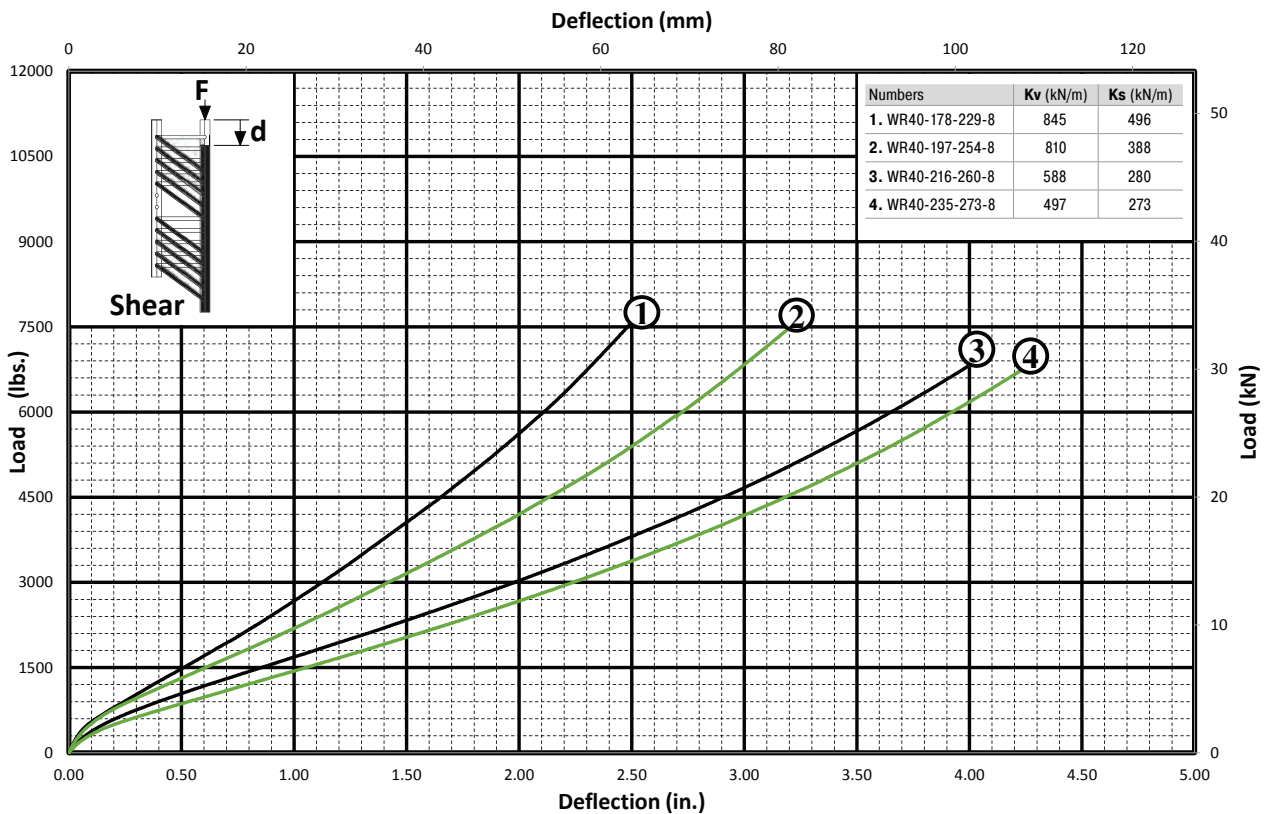
Tension



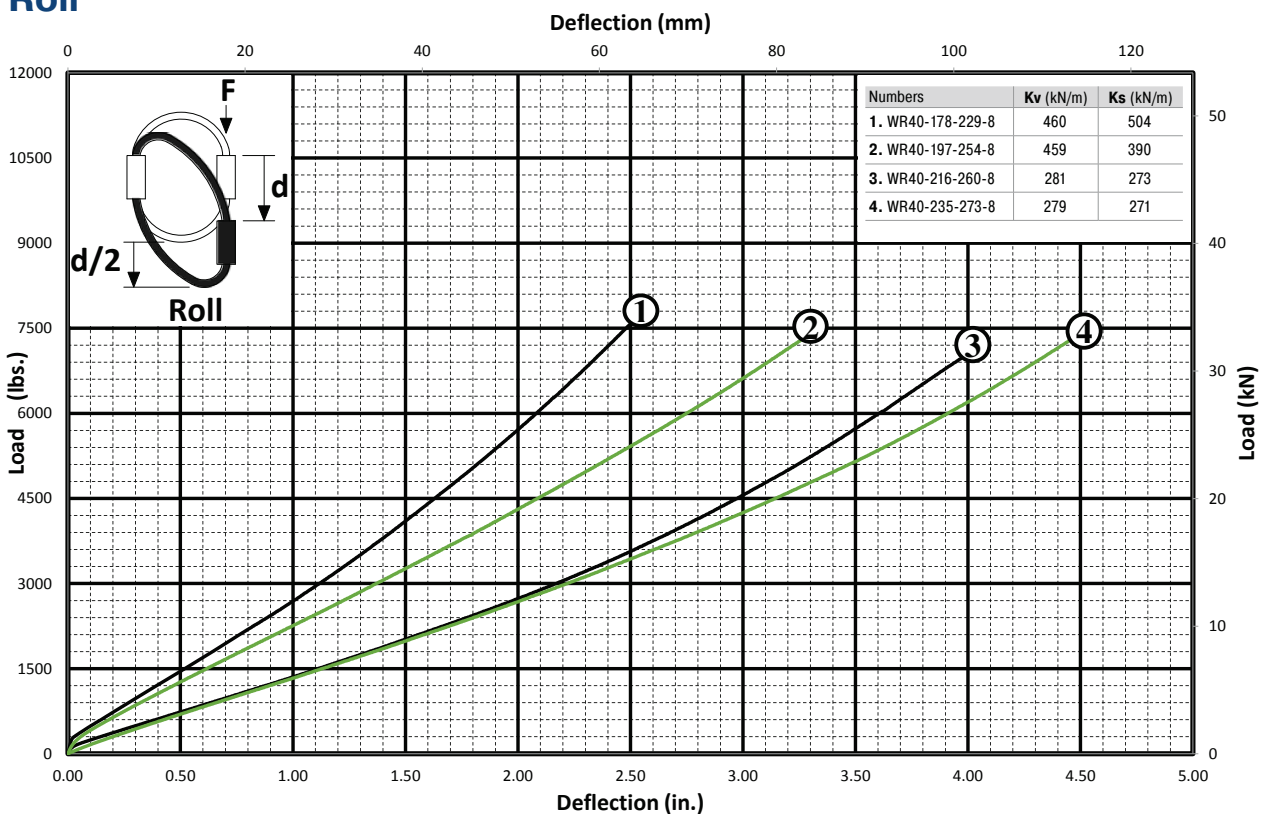
Issue 07/2020 – Specifications subject to change

Helical Isolator, 31.75 mm (1 1/4") Diameter Cable

Shear

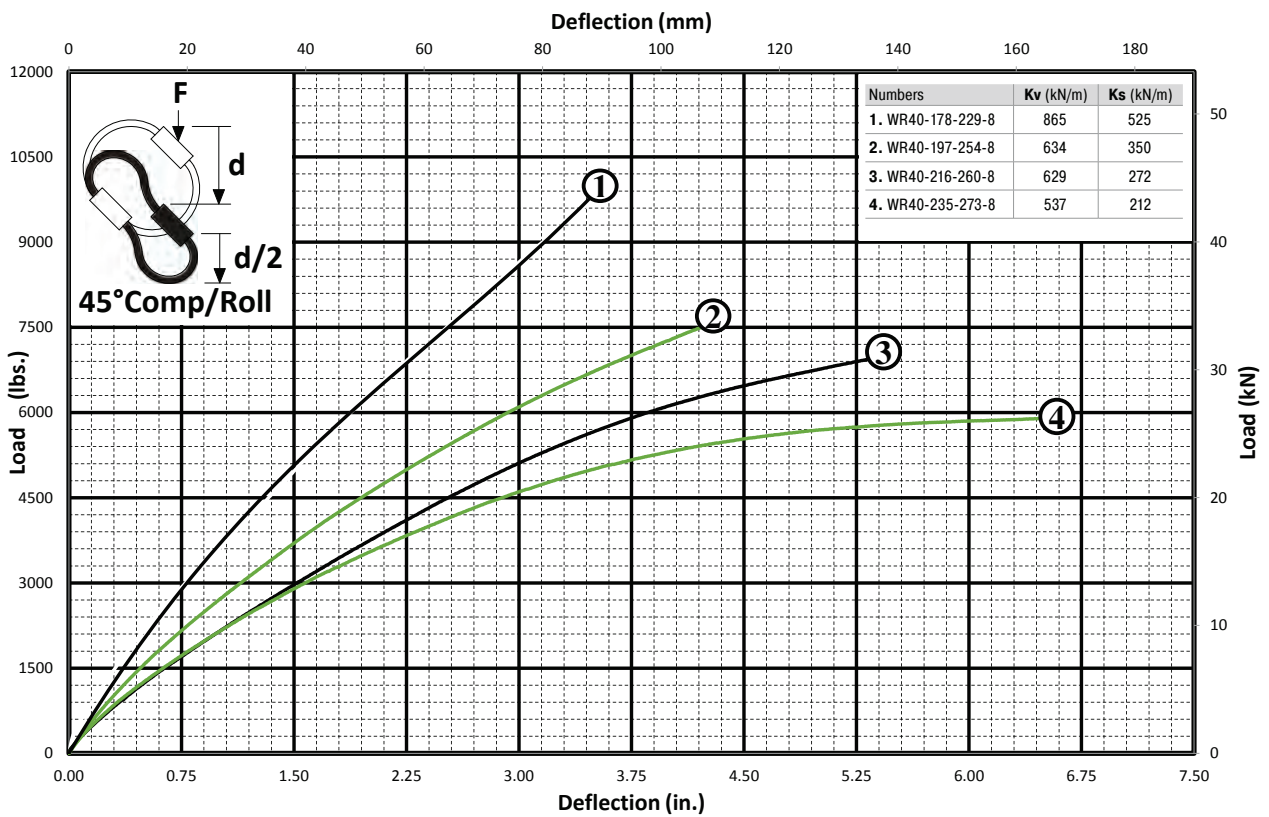


Roll

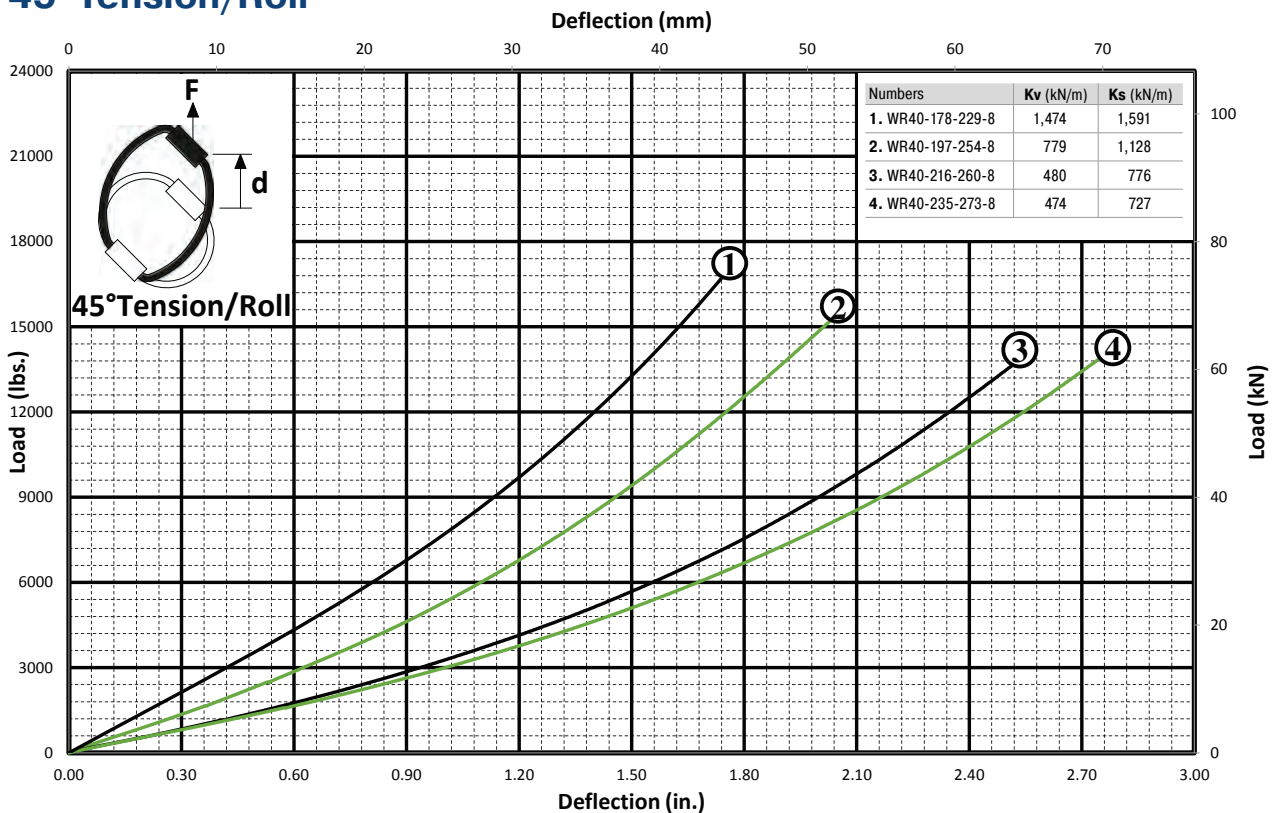


Issue 07/2020 – Specifications subject to change

45° Compression/Roll



45° Tension/Roll



WRS2

Helical Isolator Short

1.59 mm (1/16") Diameter Cable

Features

Rugged all metal construction
Fail safe construction
Long life and maintenance free
Three axis capability (6 dof)
High damping: $C/cc \approx 0.15$ to 0.20

Operating temperature range

-130°C to +260°C

Material

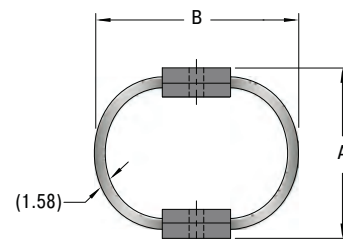
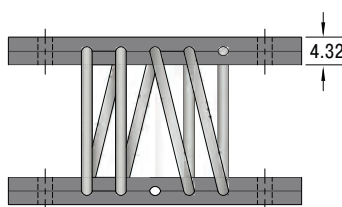
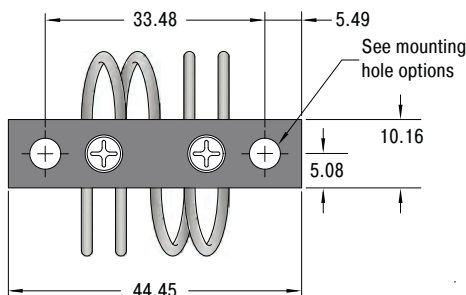
Cable: 300 Series SS per MIL-W-83420 or RR-W-410
Screws: 300 Series SS per MS51959-12
Inserts: 300 Series SS (alum bars only)
Retainer bars: Standard: 6061-T6 Alum alloy/
Chem film IAW MIL-DTL-5541, TYPE II, Class 3

Note

Mounting hole tolerances: ± 0.25 mm
Add 0.02 kg to Isolator weight for all stainless
steel versions

On request

Special materials, size, mounting holes, finish,
etc. available



Performance

TYPEN	A (+/- 0.8) mm	B mm	Compression			Shear/Roll (Average)			Weight kg
			Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	
WRS2-018-025-4	17.8	25.4	7.0	5.6	7.6	2.3	4.0	7.6	0.008
WRS2-020-028-4	20.3	27.9	5.8	4.9	10.2	1.9	3.5	10.2	0.009
WRS2-025-031-4	25.4	30.5	3.2	2.6	15.2	0.7	1.9	15.2	0.010
WRS2-028-033-4	27.9	33.0	2.1	1.6	17.8	0.5	1.8	17.8	0.011
WRS2-031-036-4	30.5	35.6	1.8	1.2	20.3	0.4	1.4	20.3	0.012
WRS2-033-038-4	33.0	38.1	1.4	1.1	22.9	0.4	0.5	22.9	0.014

Ordering Example

Type _____
Model size height _____
Model size wide _____
Number of loops _____
Mounting hole _____

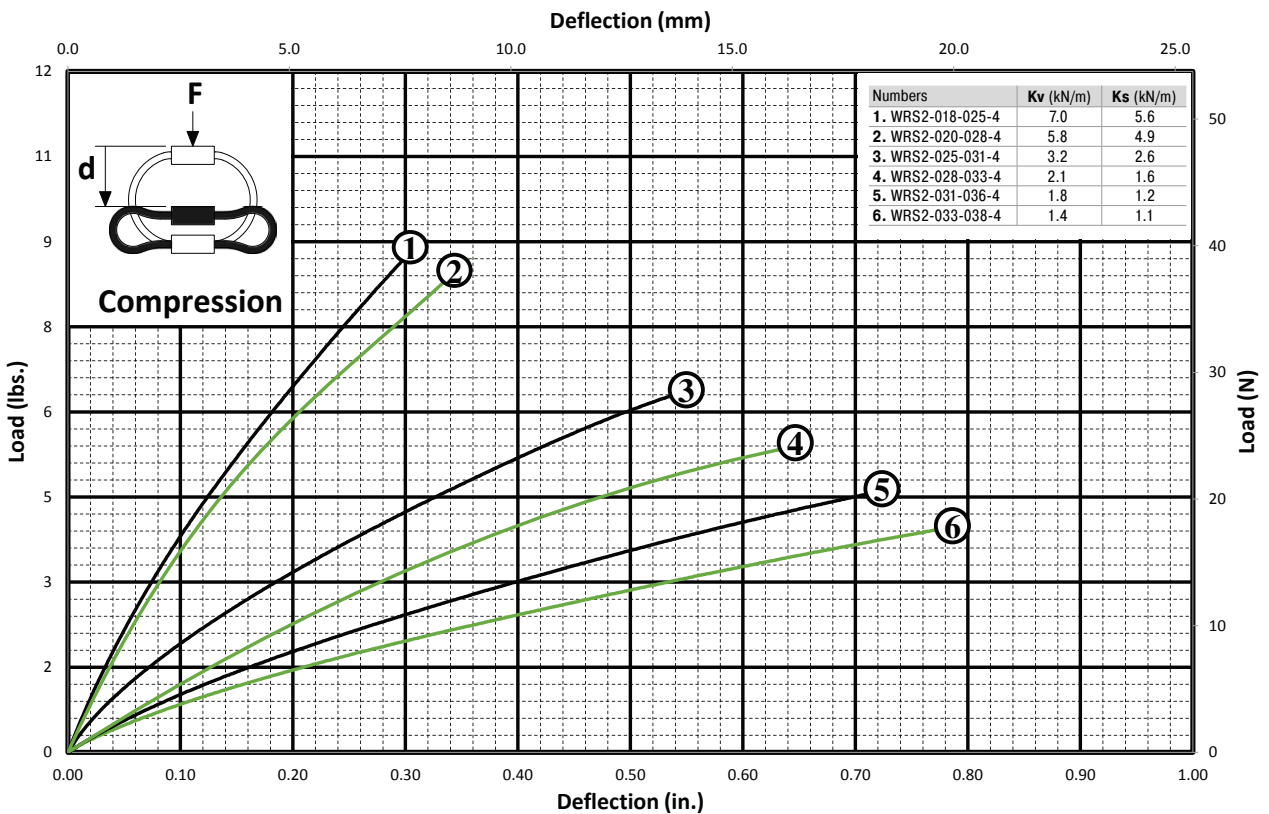
WRS2-018-025-4-A

Mounting Hole Options

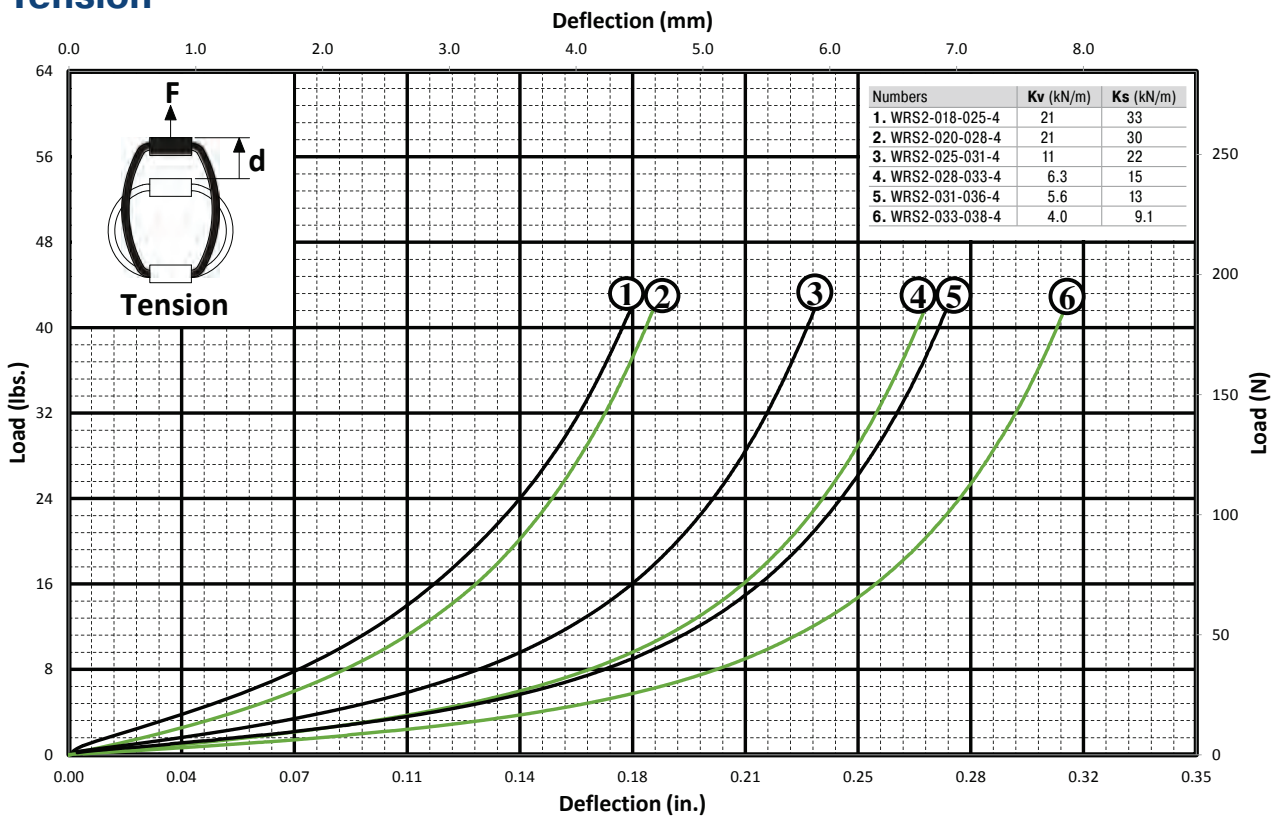
A	D
B	E
C	F

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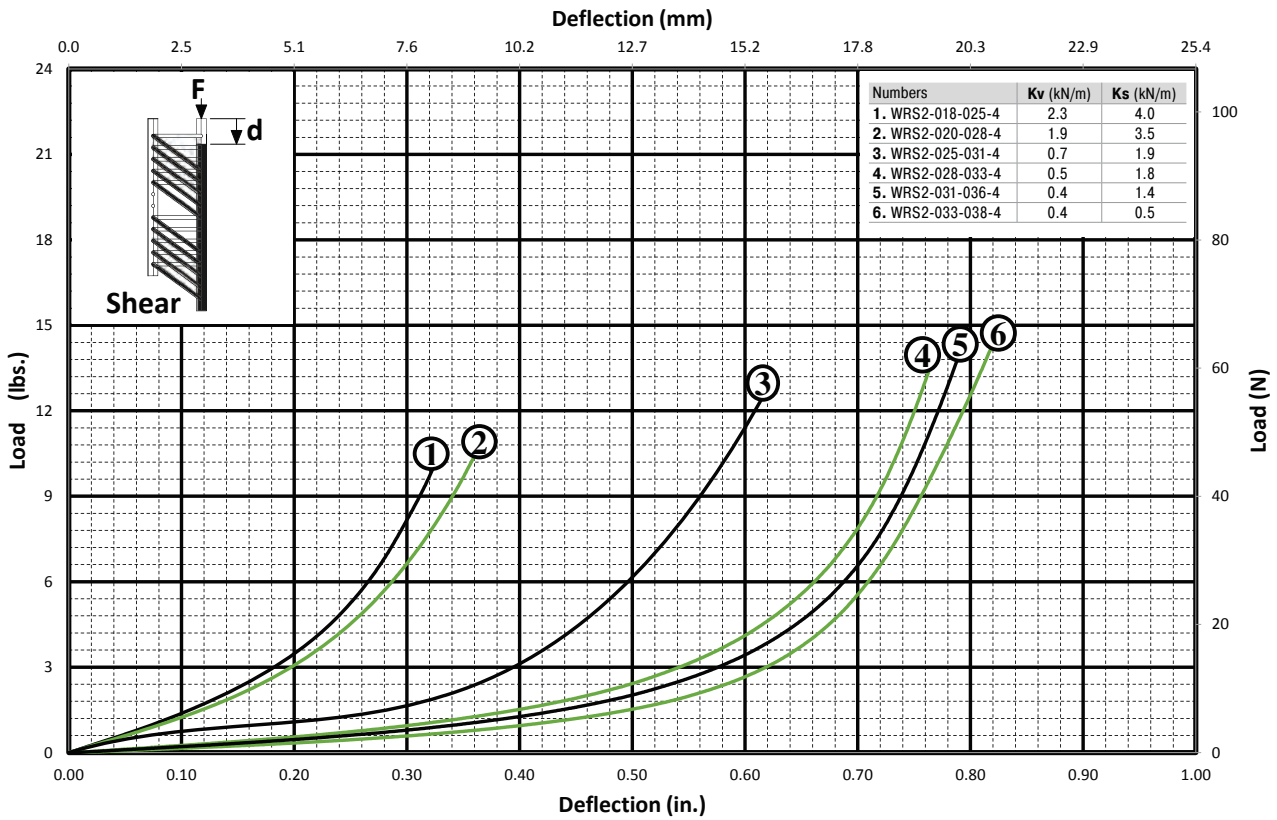
Compression



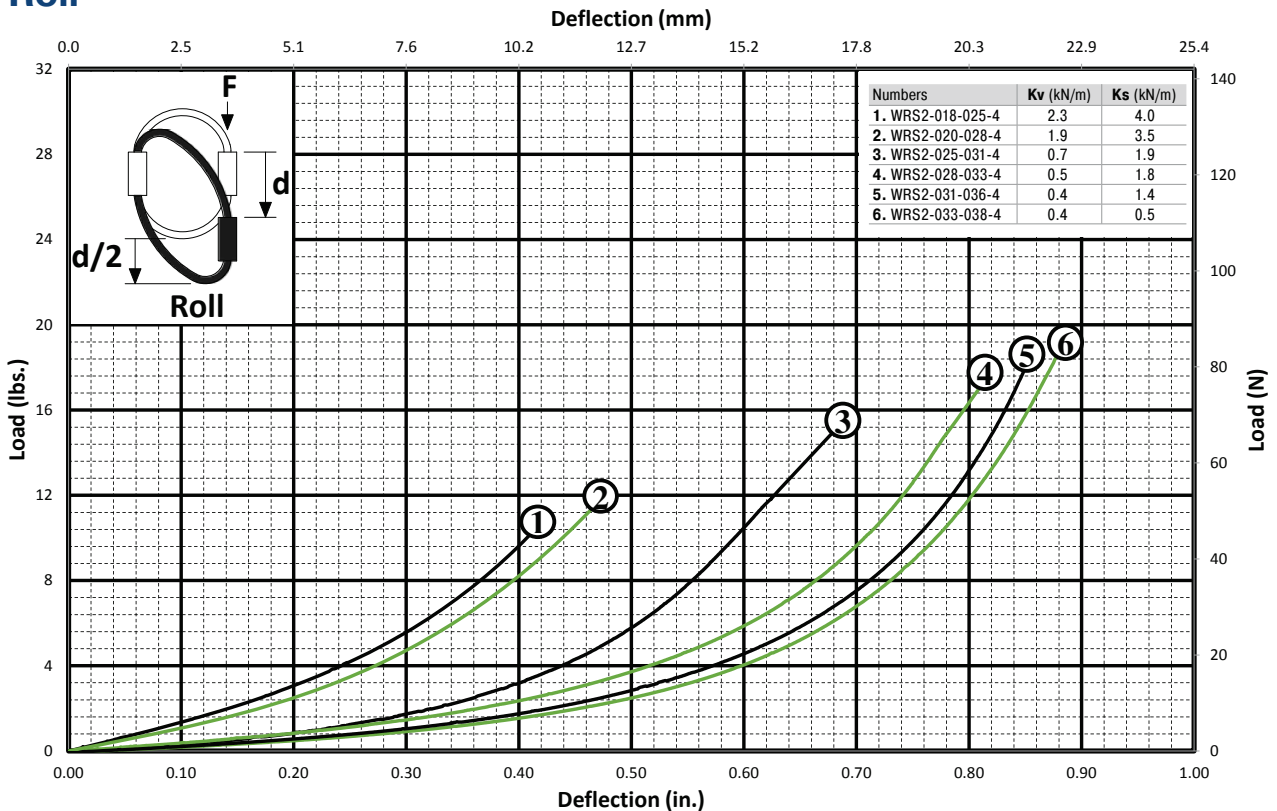
Tension



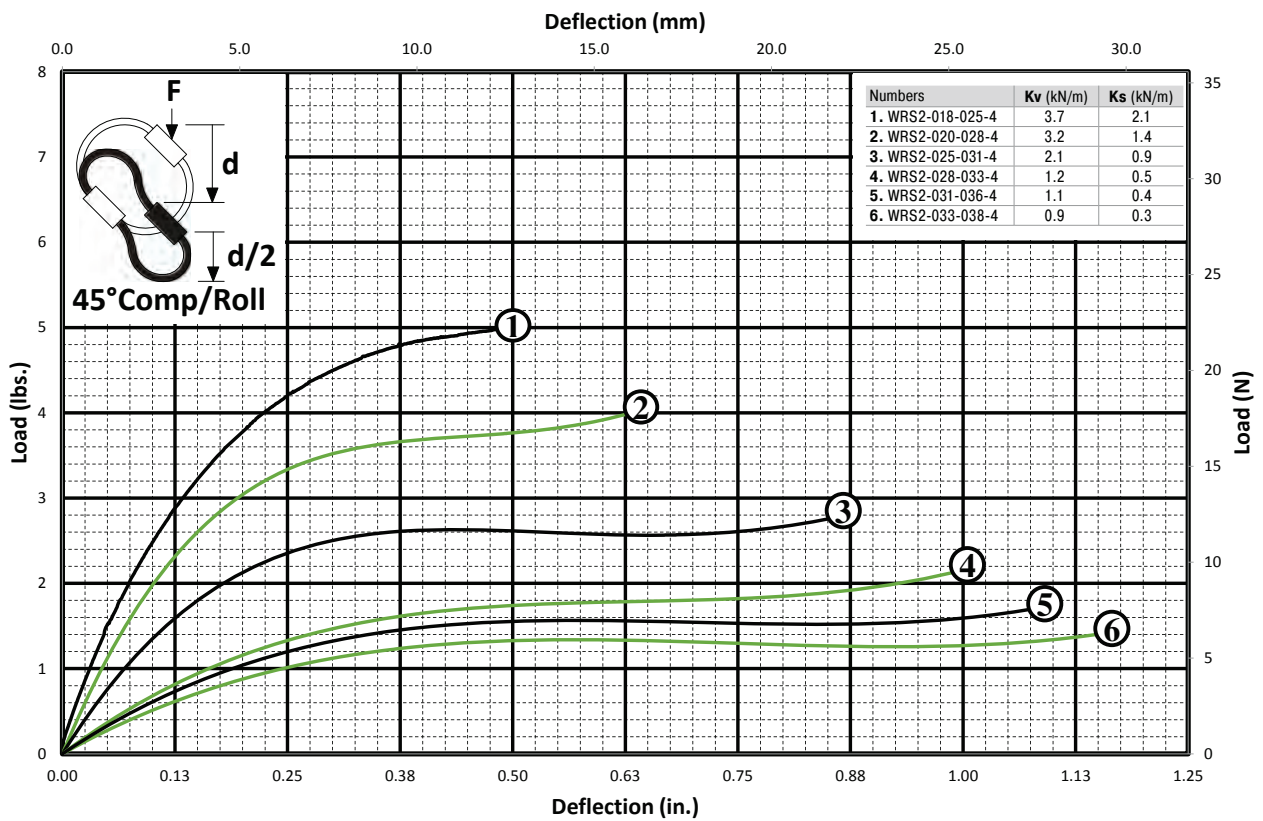
Shear



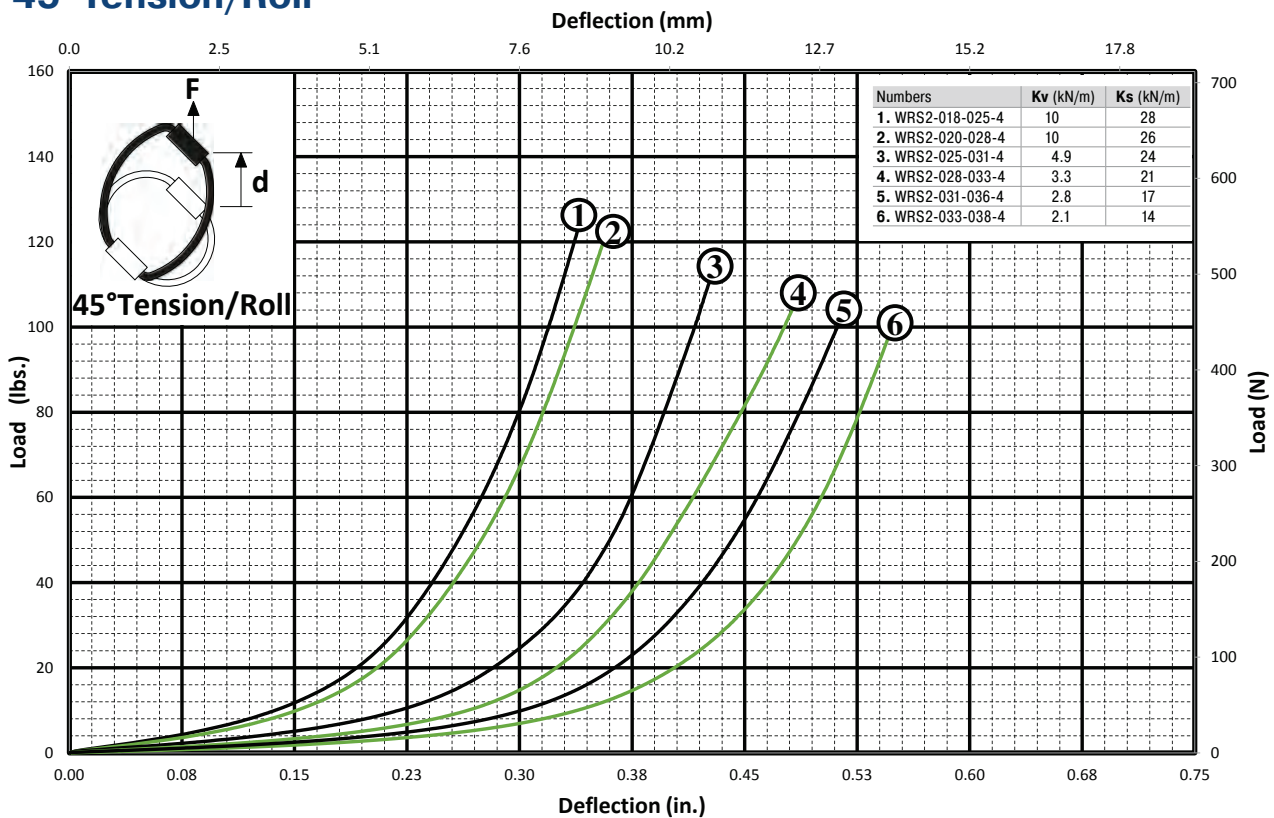
Roll



45° Compression/Roll



45° Tension/Roll



WRS3

Helical Isolator Short

2.38 mm (3/32") Diameter Cable

Features

Rugged all metal construction
Fail safe construction
Long life and maintenance free
Three axis capability (6 dof)
High damping: $C/cc \approx 0.15$ to 0.20

Operating temperature range

-130°C to +260°C

Material

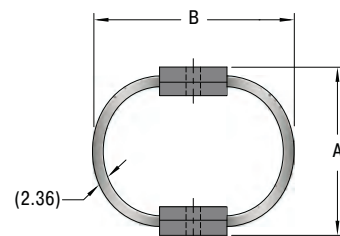
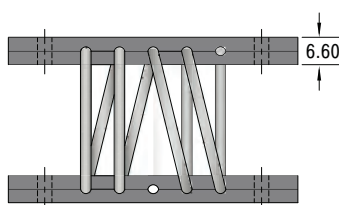
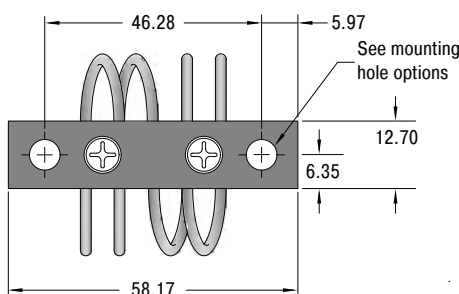
Cable: 300 Series SS per MIL-W-83420 or RR-W-410
Screws: 300 Series SS per MS51959-26
Inserts: 300 Series SS (alum bars only)
Retainer bars: Standard: 6061-T6 Alum alloy/
Chem film IAW MIL-DTL-5541, TYPE II, Class 3

Note

Mounting hole tolerances: ± 0.25 mm
Add 0.04 kg to Isolator weight for all stainless
steel versions

On request

Special materials, size, mounting holes, finish,
etc. available



Performance

TYPEN	A (+/- 0.8) mm	B mm	Compression			Shear/Roll (Average)			Weight kg
			Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	
WRS3-023-028-4	22.9	27.9	29	25	7.6	9.8	13	7.6	0.027
WRS3-025-031-4	25.4	30.5	20	18	10.2	6.8	11	10.2	0.028
WRS3-028-034-4	27.9	33.5	14	12	12.7	3.9	7.2	12.7	0.030
WRS3-033-038-4	33.0	38.1	6.7	5.6	17.8	2.1	3.2	17.8	0.031
WRS3-036-041-4	35.6	40.6	6.0	4.9	20.3	1.8	2.8	20.3	0.032
WRS3-038-043-4	38.1	43.2	4.6	3.5	22.9	1.2	2.1	22.9	0.034

Ordering Example

Type _____
Model size height _____
Model size wide _____
Number of loops _____
Mounting hole _____

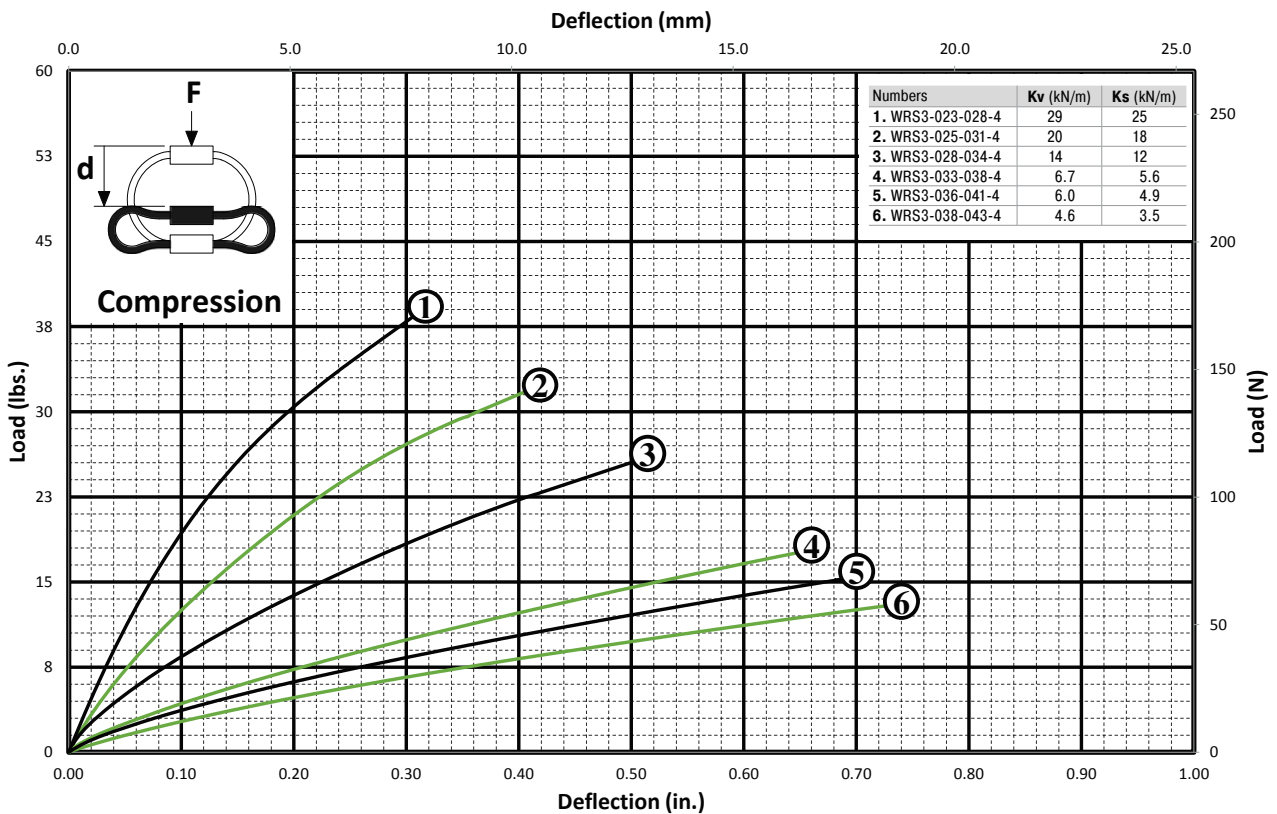
WRS3-023-028-4-A

Mounting Hole Options

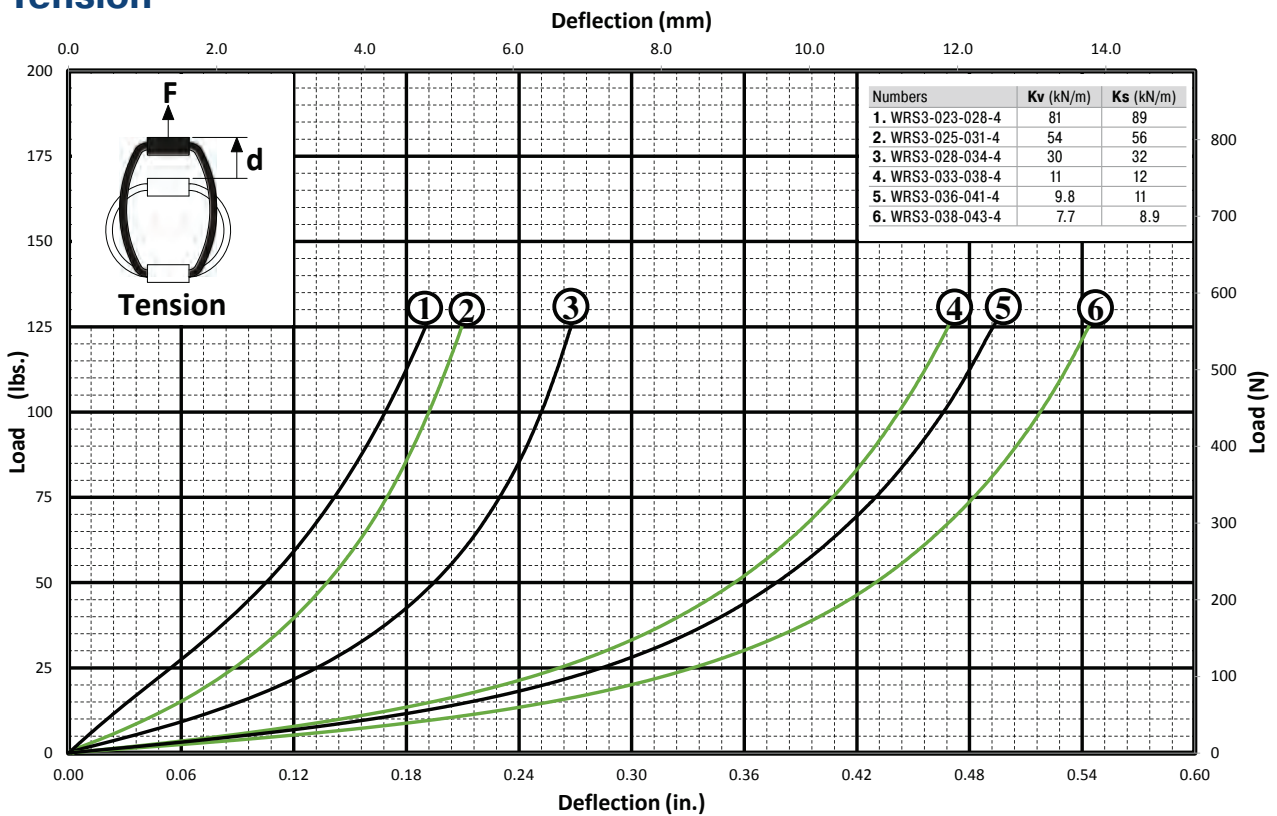
A	D
B	E
C	F

Issue 07/2020 – Specifications subject to change

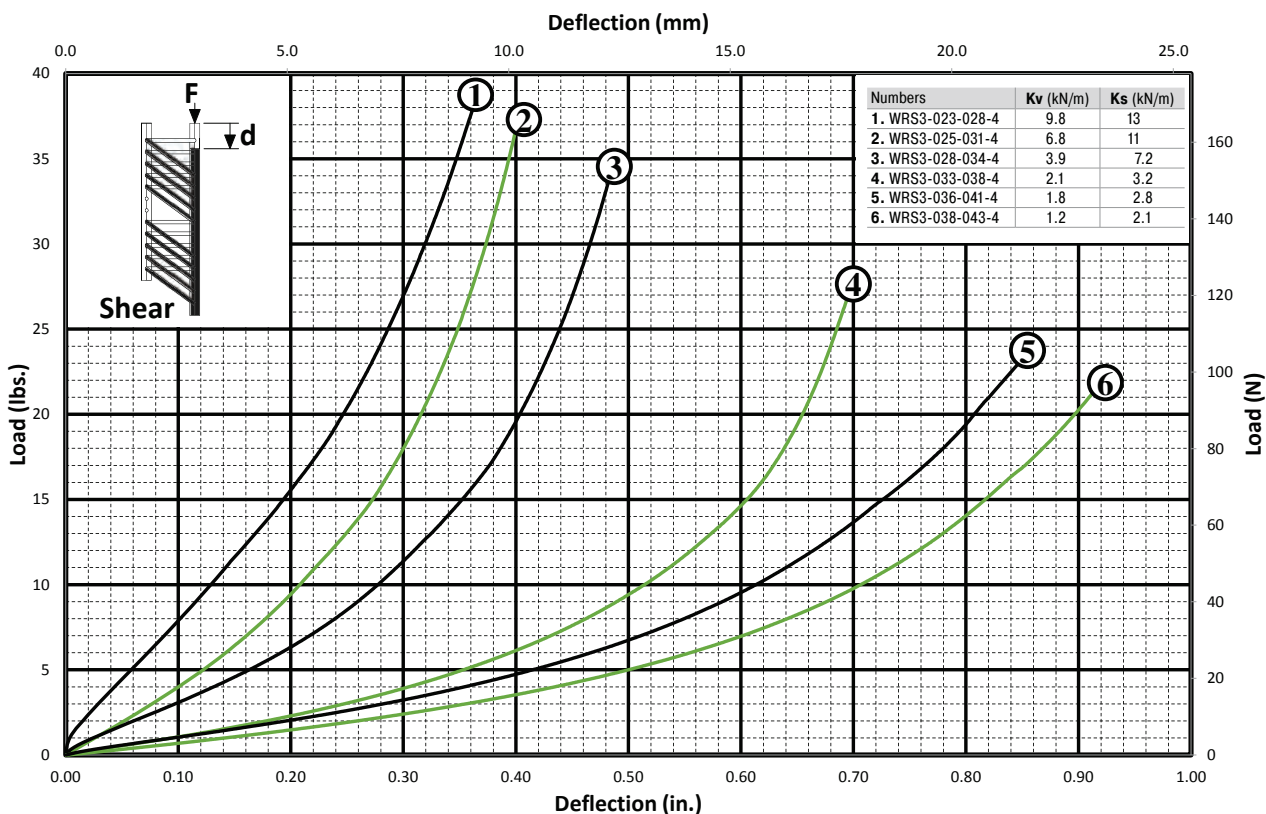
Compression



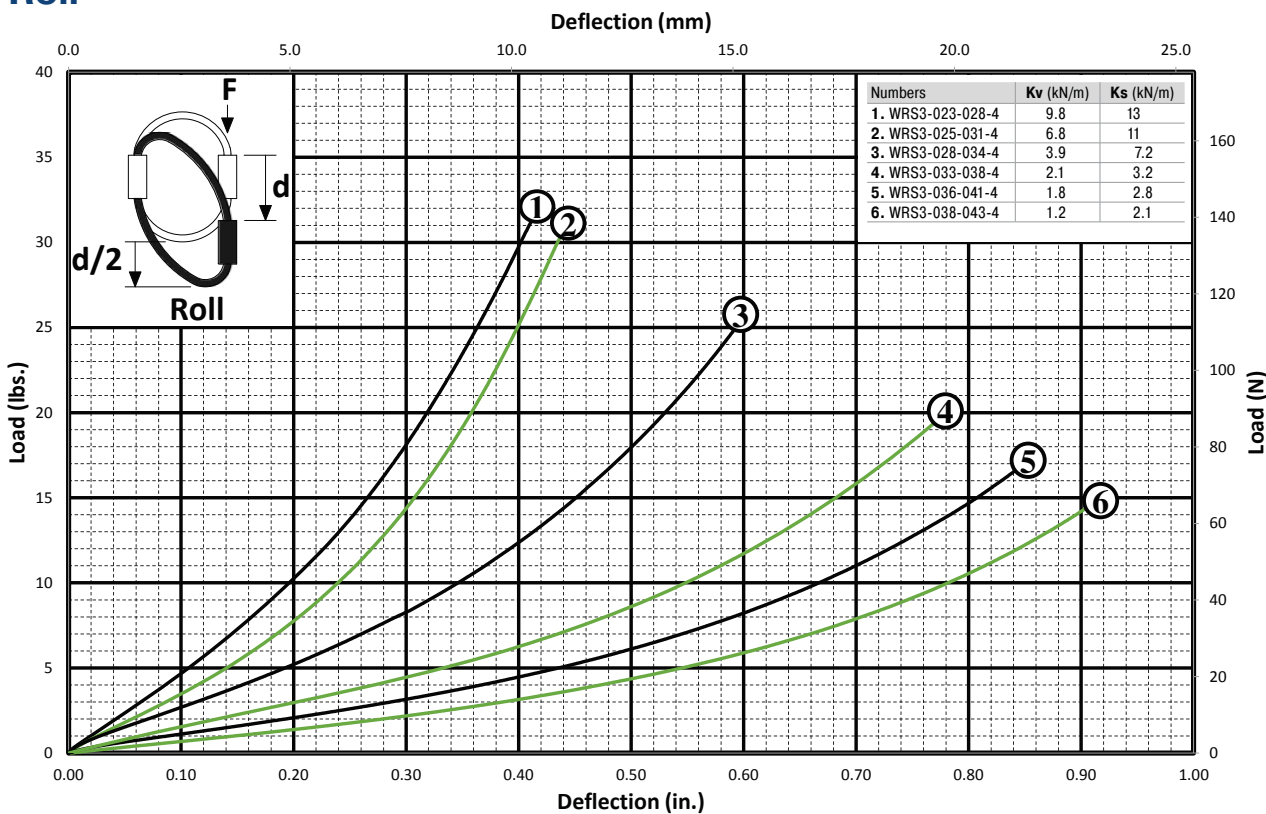
Tension



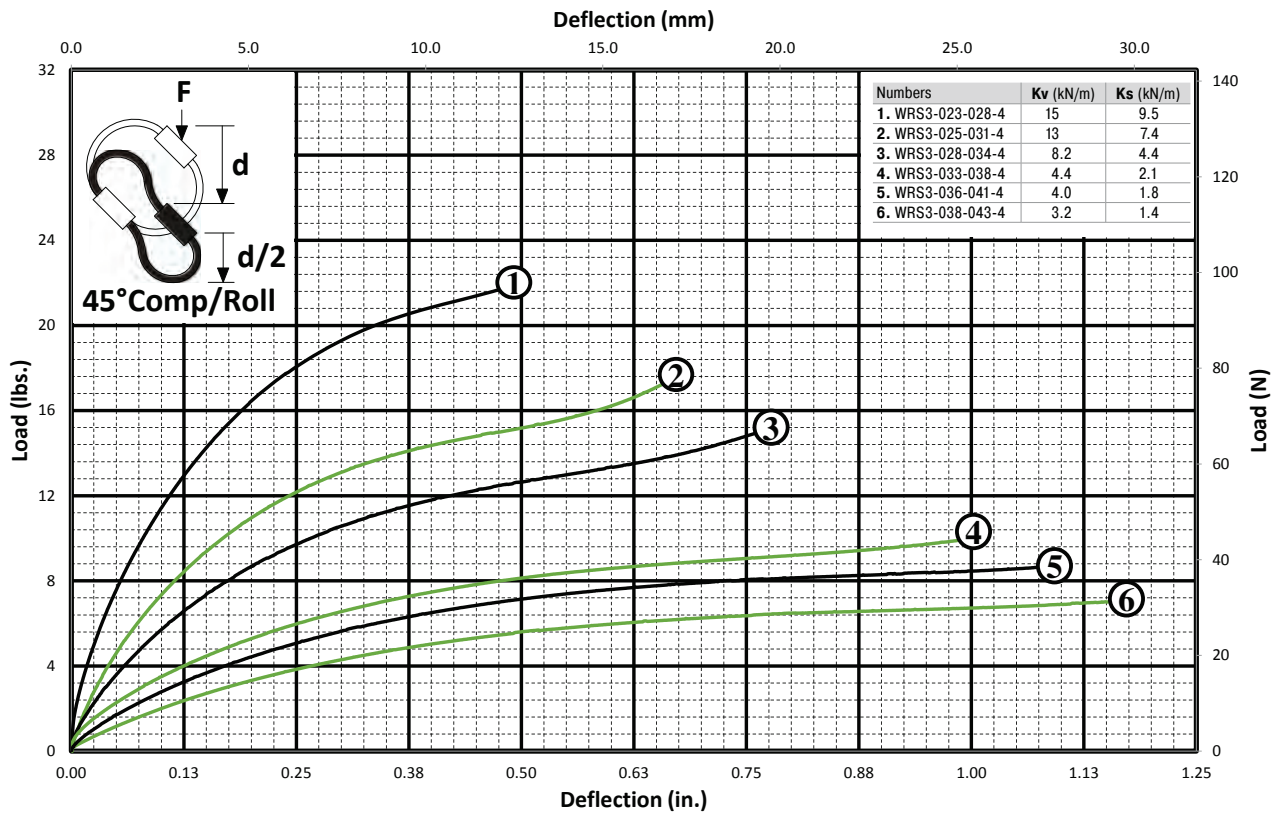
Shear



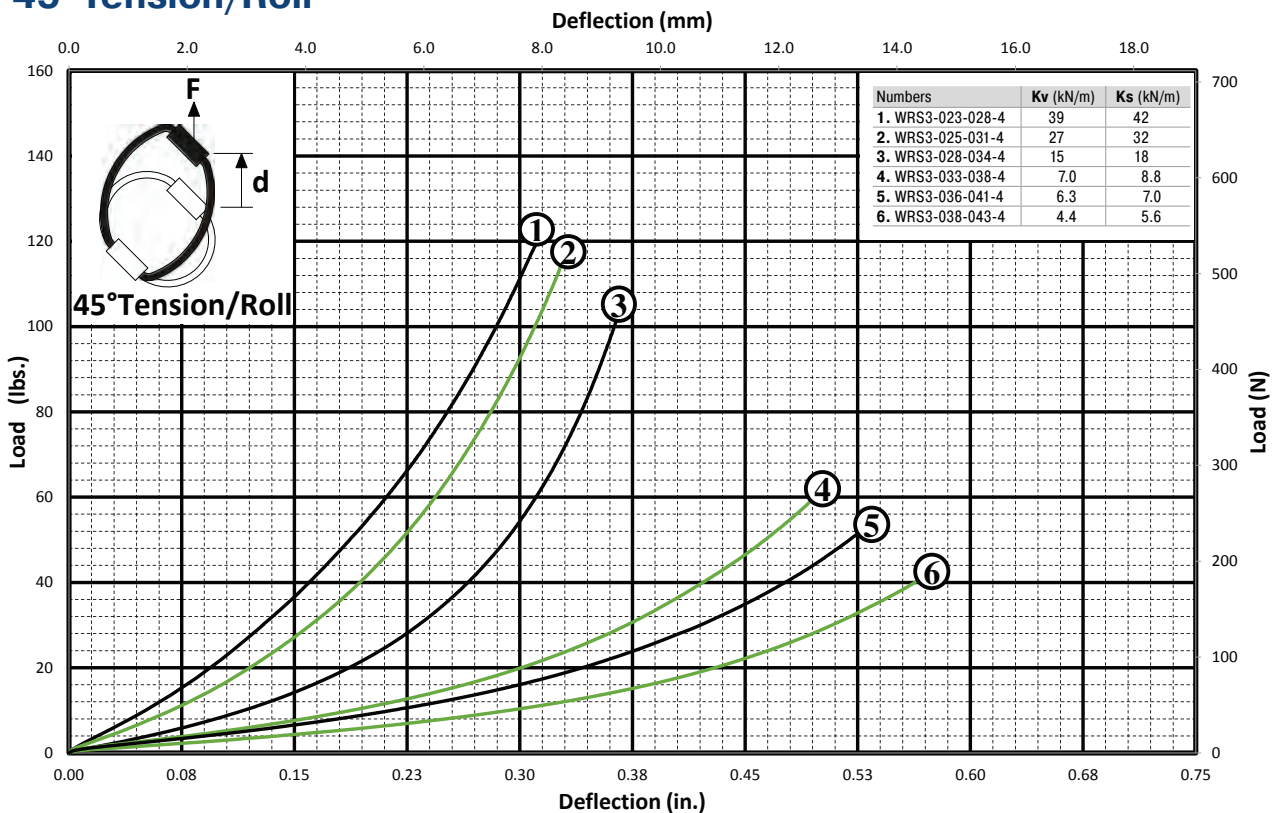
Roll



45° Compression/Roll



45° Tension/Roll



WRS4

Helical Isolator Short

3.18 mm (1/8") Diameter Cable

Features

Rugged all metal construction
Fail safe construction
Long life and maintenance free
Three axis capability (6 dof)
High damping: $C/cc \approx 0.15$ to 0.20

Operating temperature range

-130°C to +260°C

Material

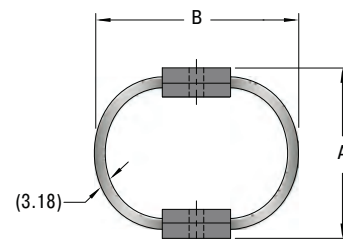
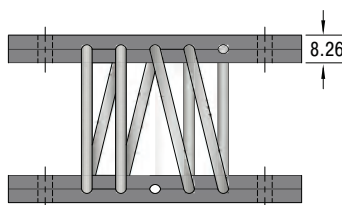
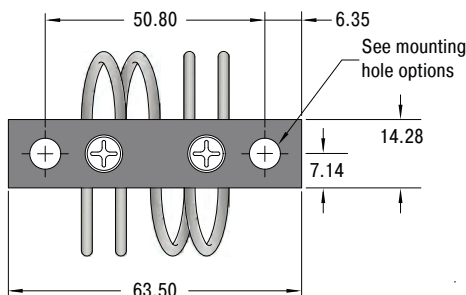
Cable: 300 Series SS per MIL-W-83420 or RR-W-410
Screws: 300 Series SS per MS51959-42
Inserts: 300 Series SS (alum bars only)
Retainer bars: Standard: 6061-T6 Alum alloy/
Chem film IAW MIL-DTL-5541, TYPE II, Class 3

Note

Mounting hole tolerances: ± 0.25 mm
Add 0.06 kg to Isolator weight for all stainless
steel versions

On request

Special materials, size, mounting holes, finish,
etc. available



Performance

TYPEN	A (+/- 0.8) mm	B mm	Compression			Shear/Roll (Average)			Weight kg
			Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	
WRS4-028-036-4	27.9	35.6	35	32	8.9	13	15	8.9	0.045
WRS4-031-038-4	30.5	38.1	34	29	11.4	11	14	11.4	0.045
WRS4-033-041-4	33.0	40.6	27	21	14.0	8.4	12	14.0	0.048
WRS4-036-043-4	35.6	43.2	20	17	16.5	5.8	8.8	16.5	0.049
WRS4-038-046-4	38.1	45.7	16	13	19.1	5.3	7.9	19.1	0.050
WRS4-041-048-4	40.6	48.2	14	10	21.6	3.9	6.1	21.6	0.051

Ordering Example

Type _____
Model size height _____
Model size wide _____
Number of loops _____
Mounting hole _____

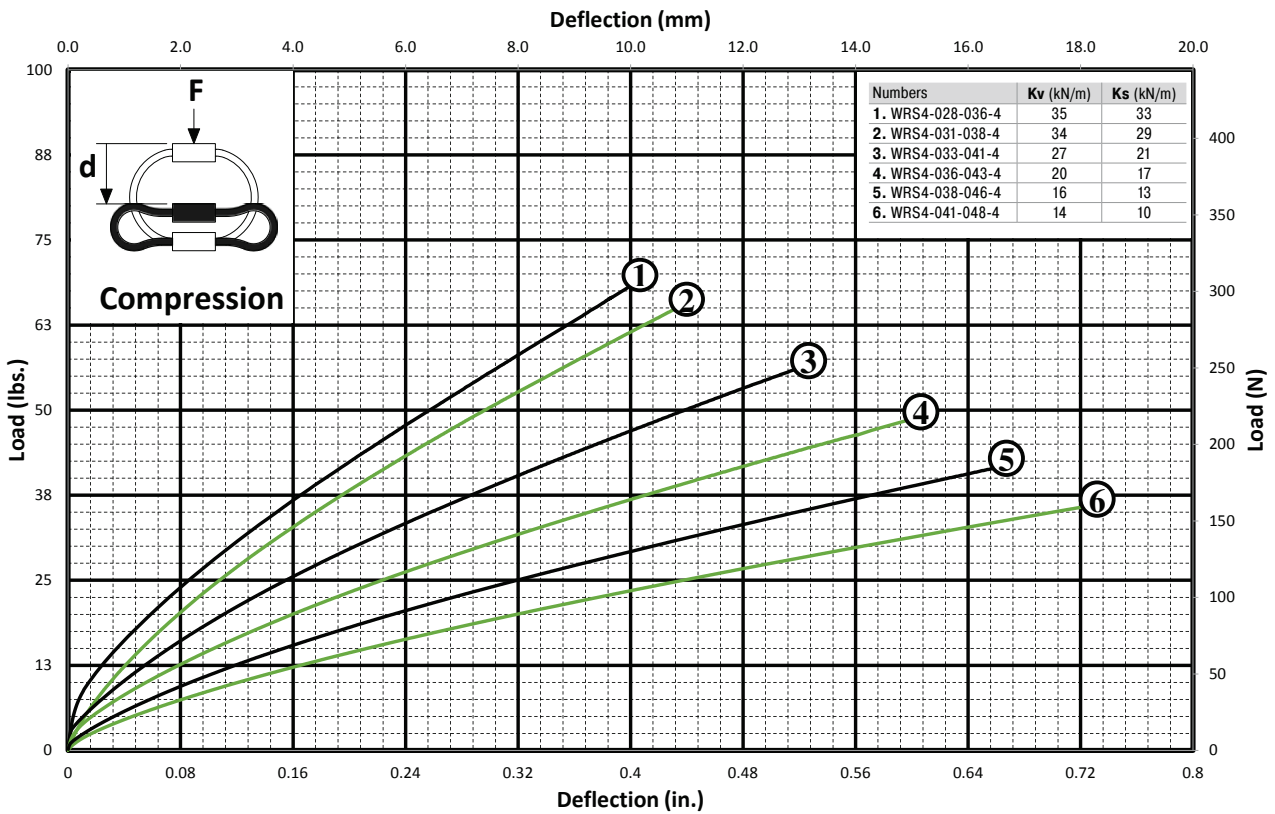
WRS4-028-036-4-A

Mounting Hole Options

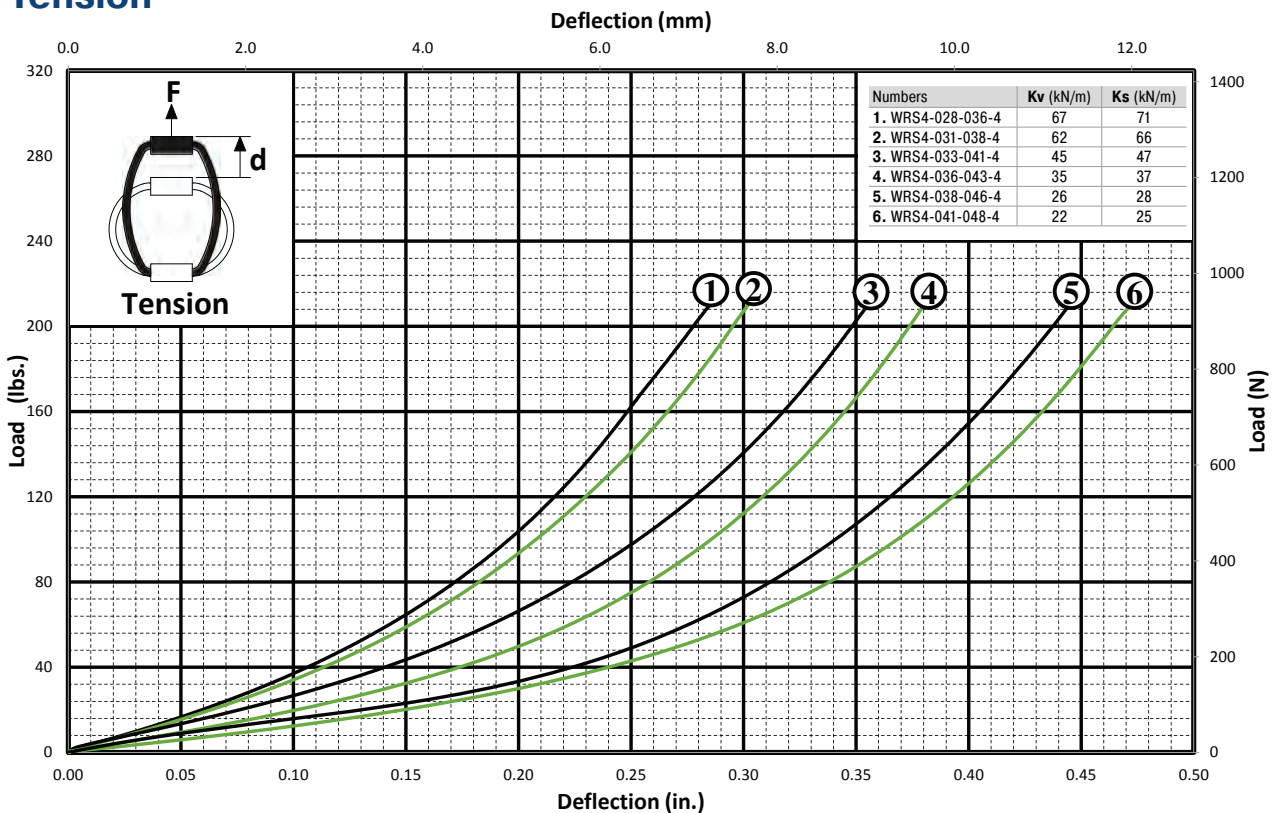
A	D
B	E
C	F

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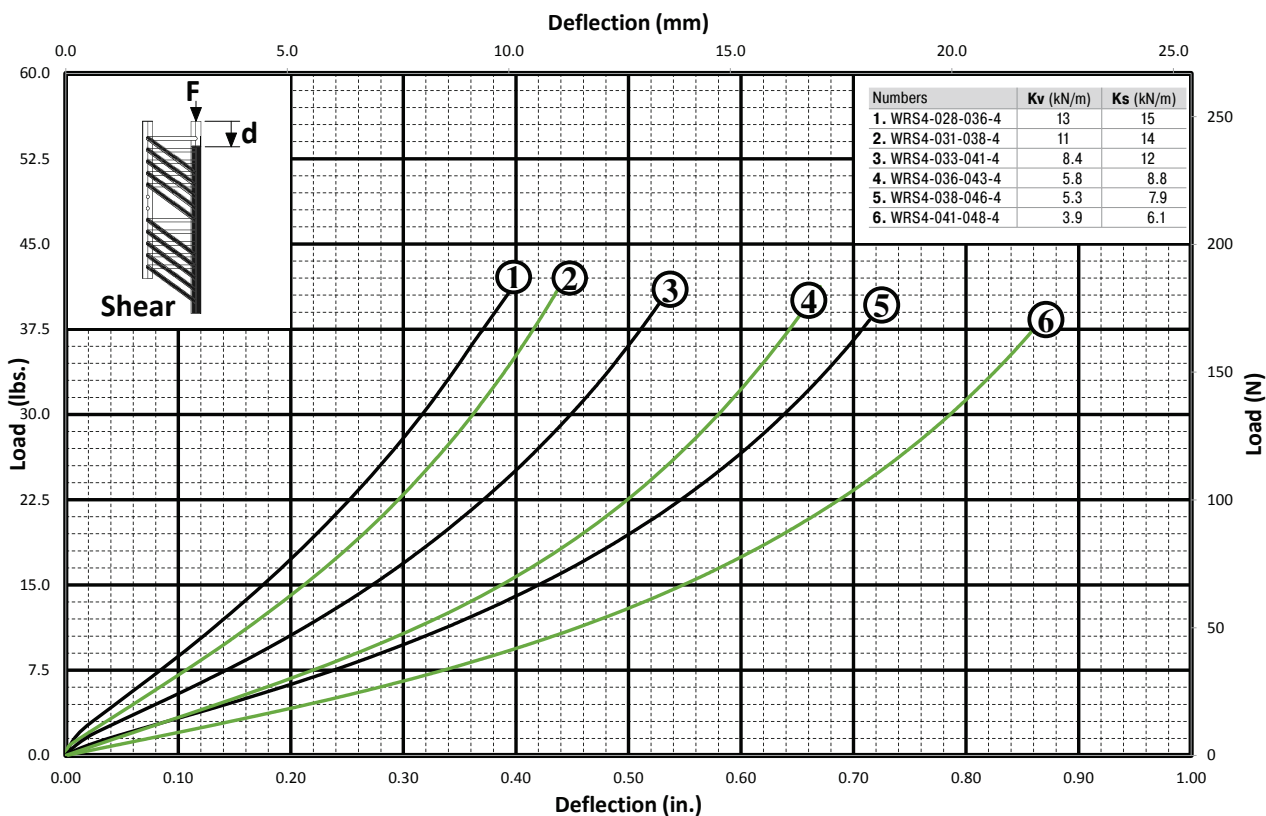
Compression



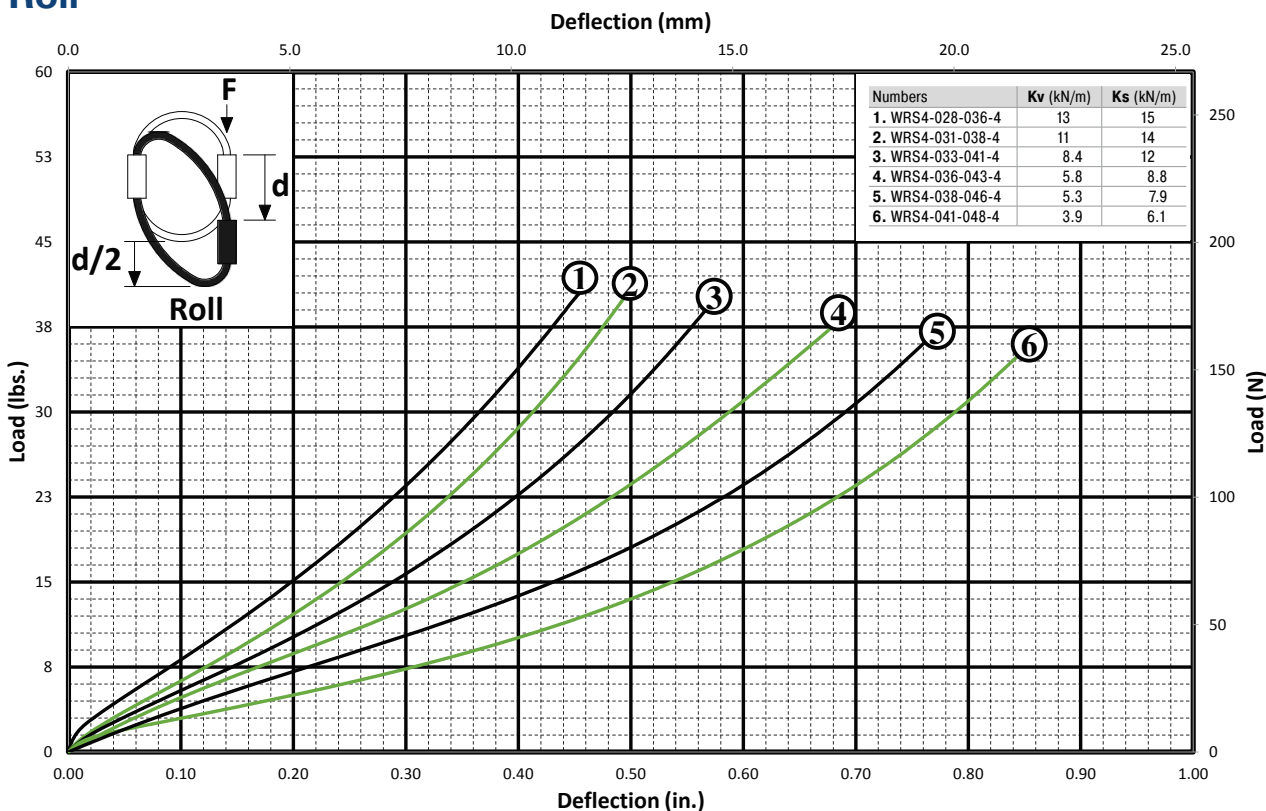
Tension



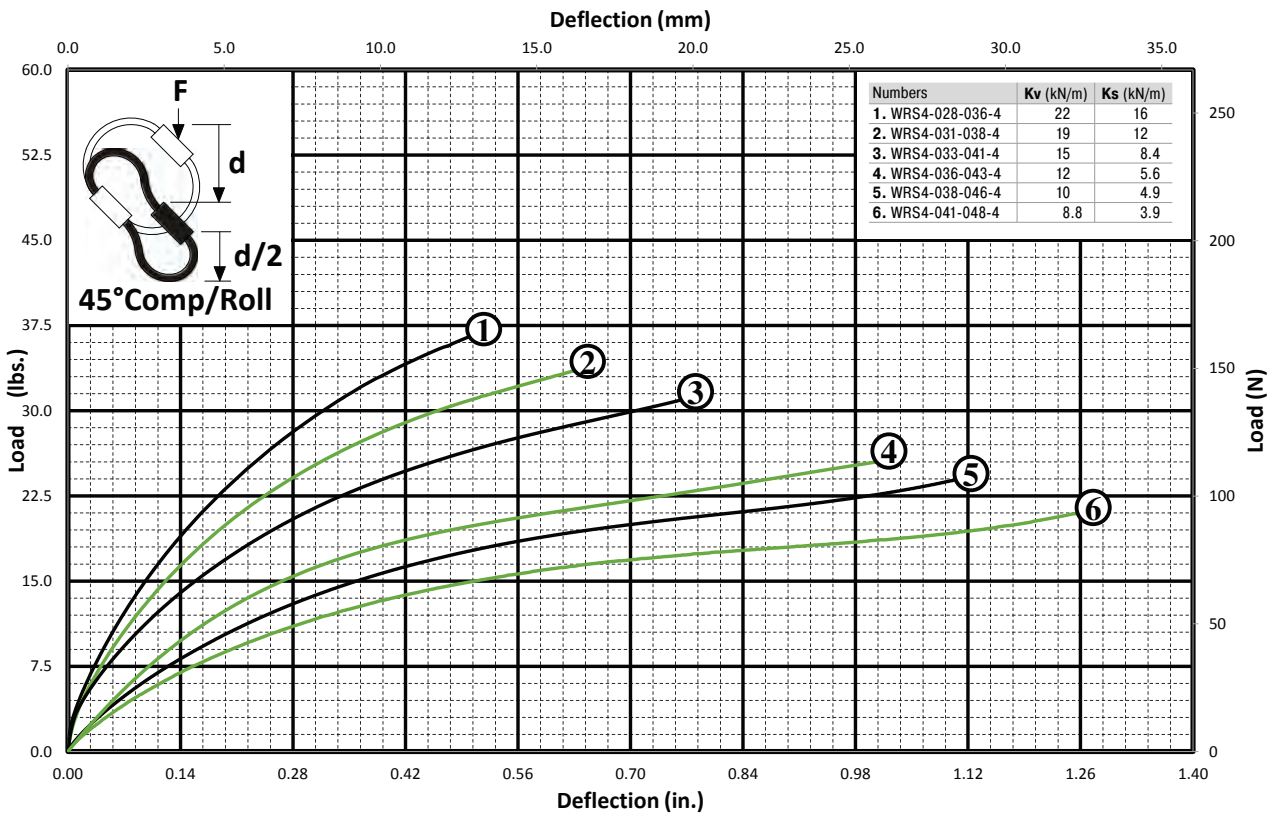
Shear



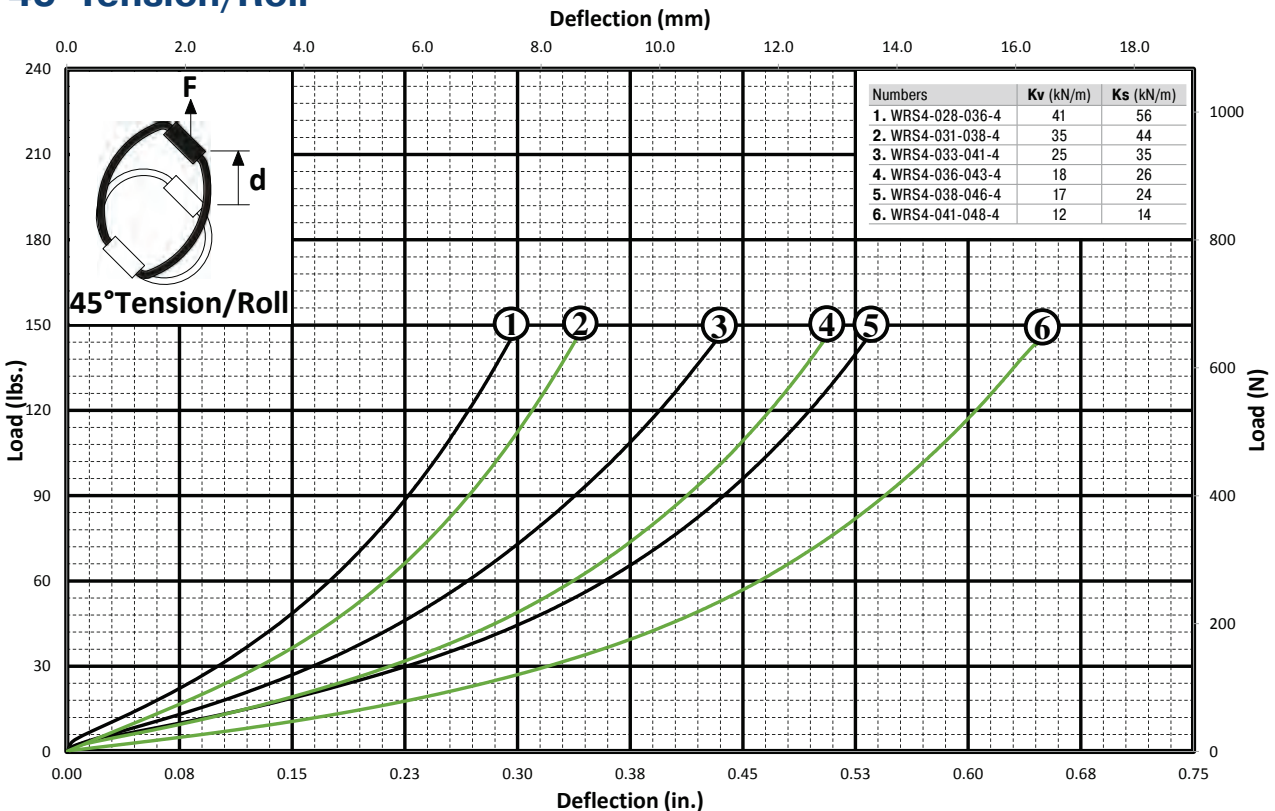
Roll



45° Compression/Roll



45° Tension/Roll



WRS5

Helical Isolator Short

3.97 mm (5/32") Diameter Cable

Features

Rugged all metal construction
Fail safe construction
Long life and maintenance free
Three axis capability (6 dof)
High damping: C/cc $\approx$ 0.15 to 0.20

Operating temperature range

-130°C to +260°C

Material

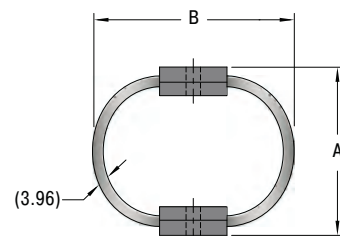
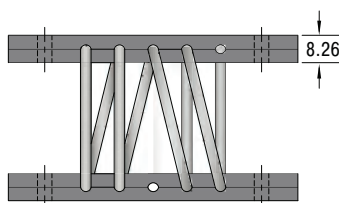
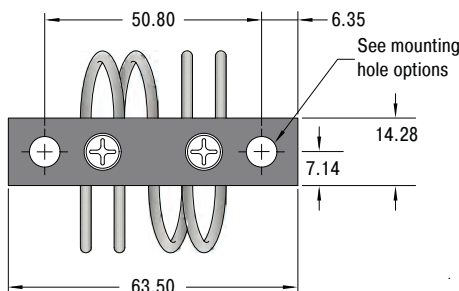
Cable: 300 Series SS per MIL-W-83420 or RR-W-410
Screws: 300 Series SS per MS51959-42
Inserts: 300 Series SS (alum bars only)
Retainer bars: Standard: 6061-T6 Alum alloy/
Chem film IAW MIL-DTL-5541, TYPE II, Class 3

Note

Mounting hole tolerances: ± 0.25 mm
Add 0.06 kg to Isolator weight for all stainless
steel versions

On request

Special materials, size, mounting holes, finish,
etc. available



Performance

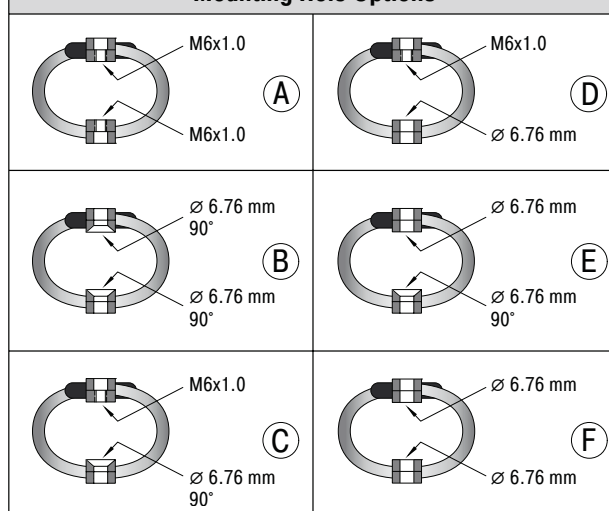
TYPEN	A (+/- 0.8) mm	B mm	Compression			Shear/Roll (Average)			Weight kg
			Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	
WRS5-028-036-4	27.9	35.6	91	84	8.9	33	39	8.9	0.052
WRS5-031-038-4	30.5	38.1	79	70	11.4	25	30	11.4	0.054
WRS5-033-041-4	33.0	40.6	55	47	14.0	17	20	14.0	0.059
WRS5-036-043-4	35.6	43.2	47	37	16.5	13	17	16.5	0.059
WRS5-038-046-4	38.1	45.7	36	29	19.1	8.9	14	19.1	0.061
WRS5-041-048-4	40.6	48.2	27	21	21.6	7.4	11	21.6	0.061

Ordering Example

Type _____
Model size height _____
Model size wide _____
Number of loops _____
Mounting hole _____

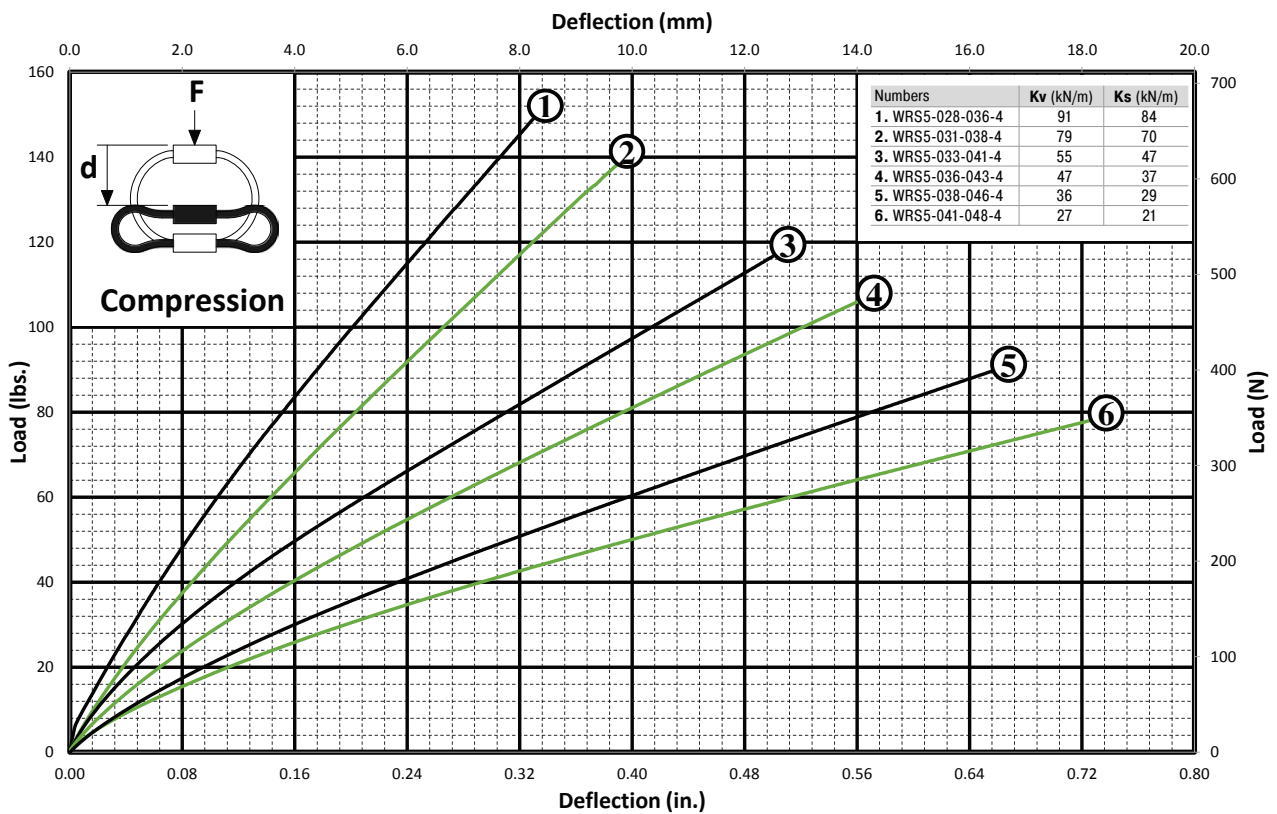
WRS5-028-036-4-A

Mounting Hole Options

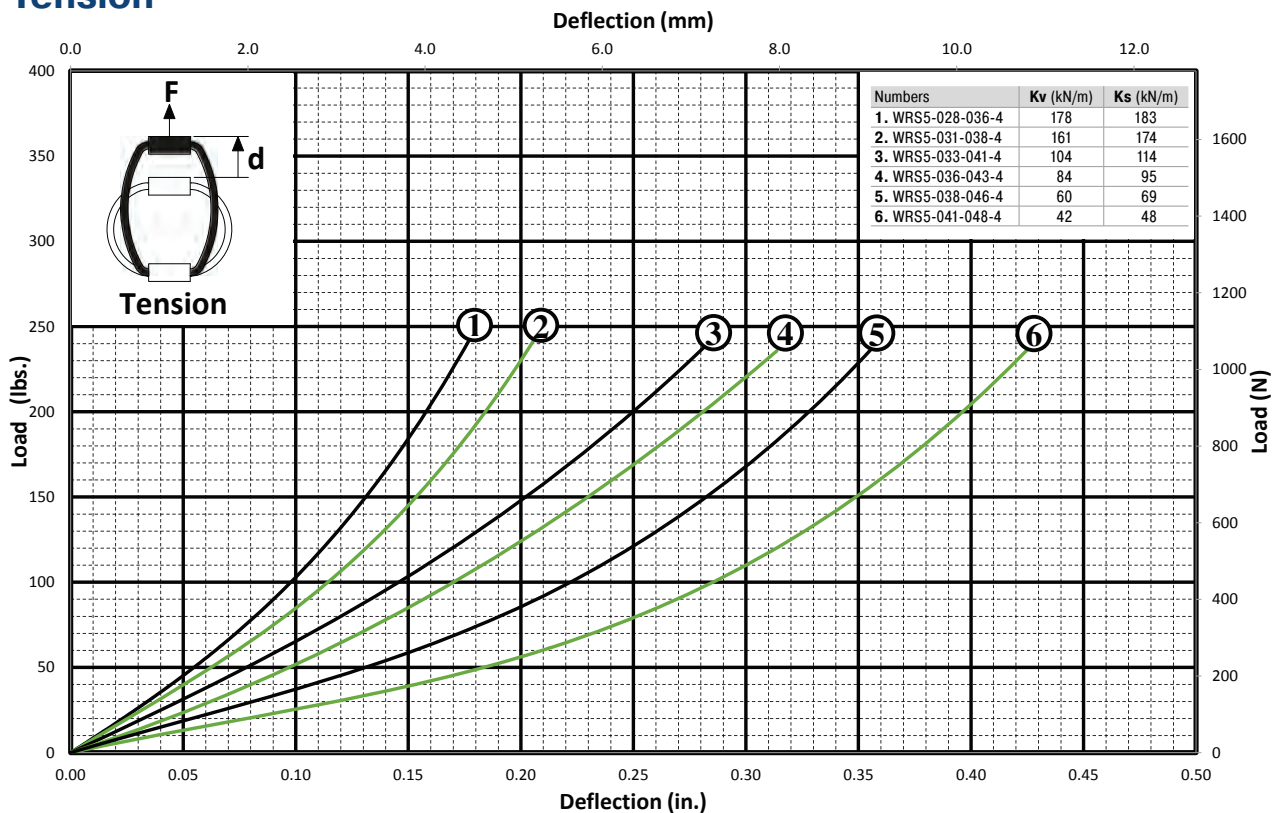


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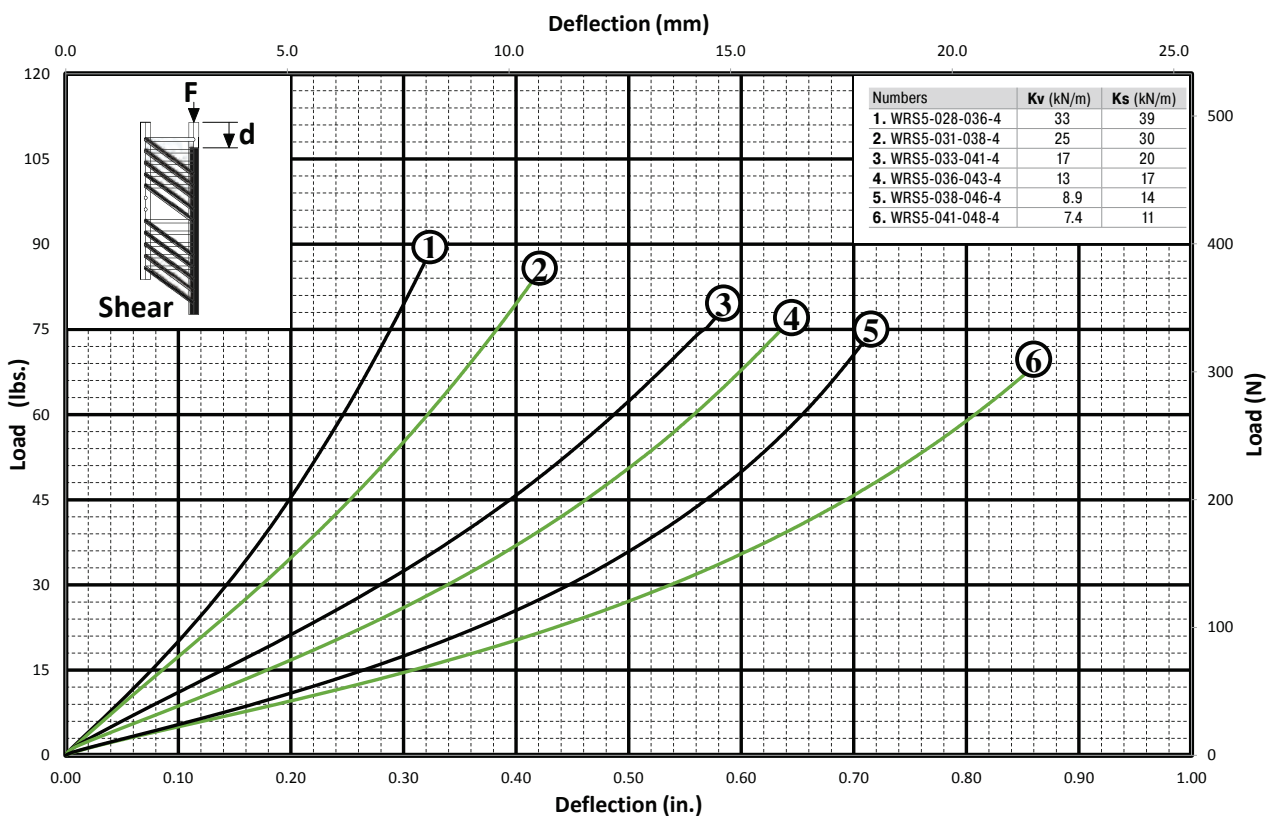
Compression



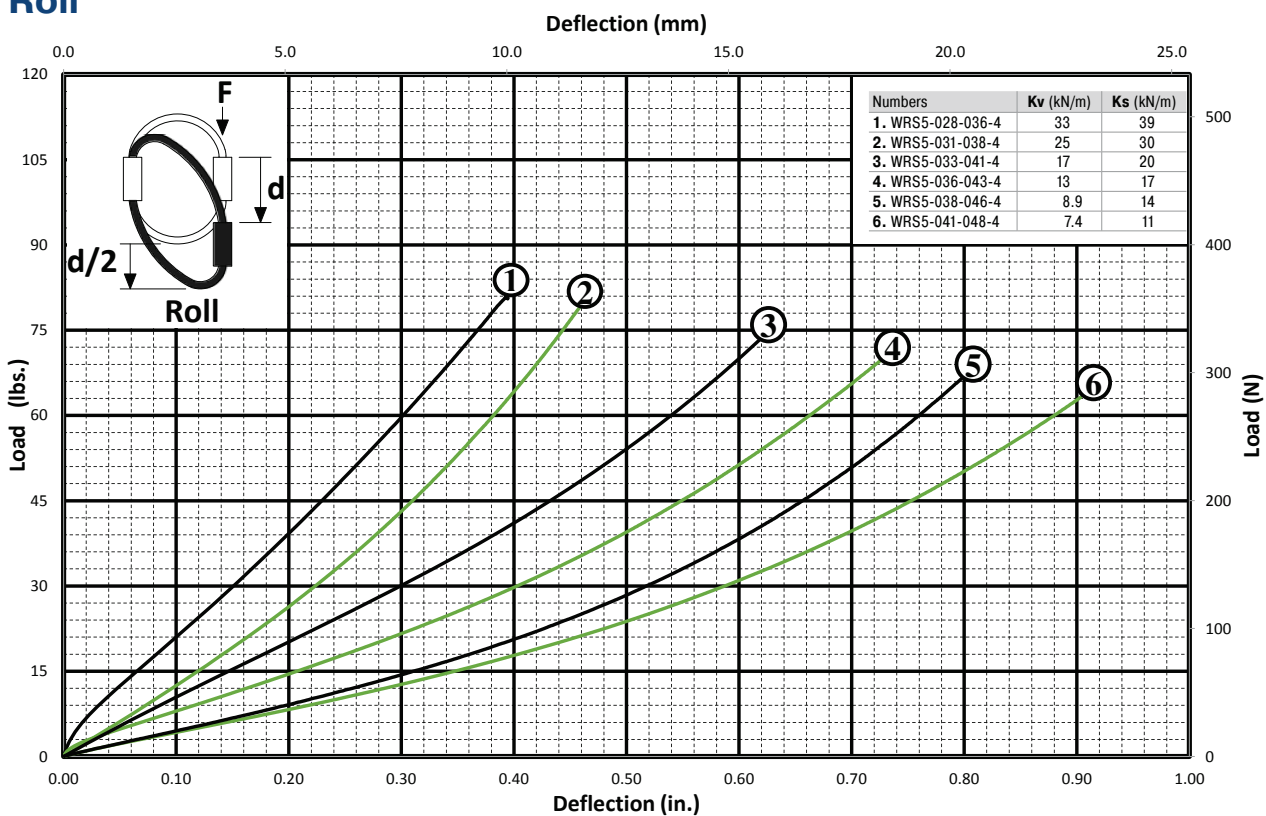
Tension



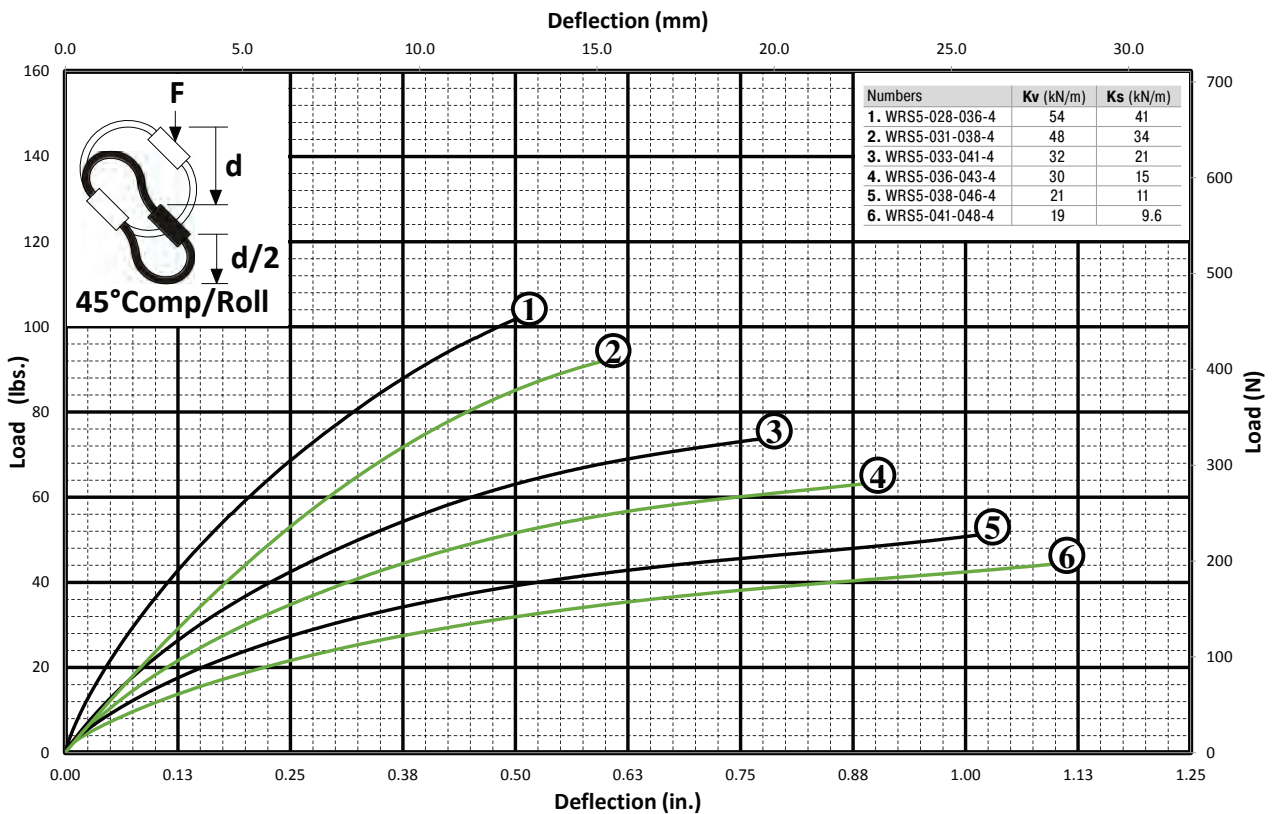
Shear



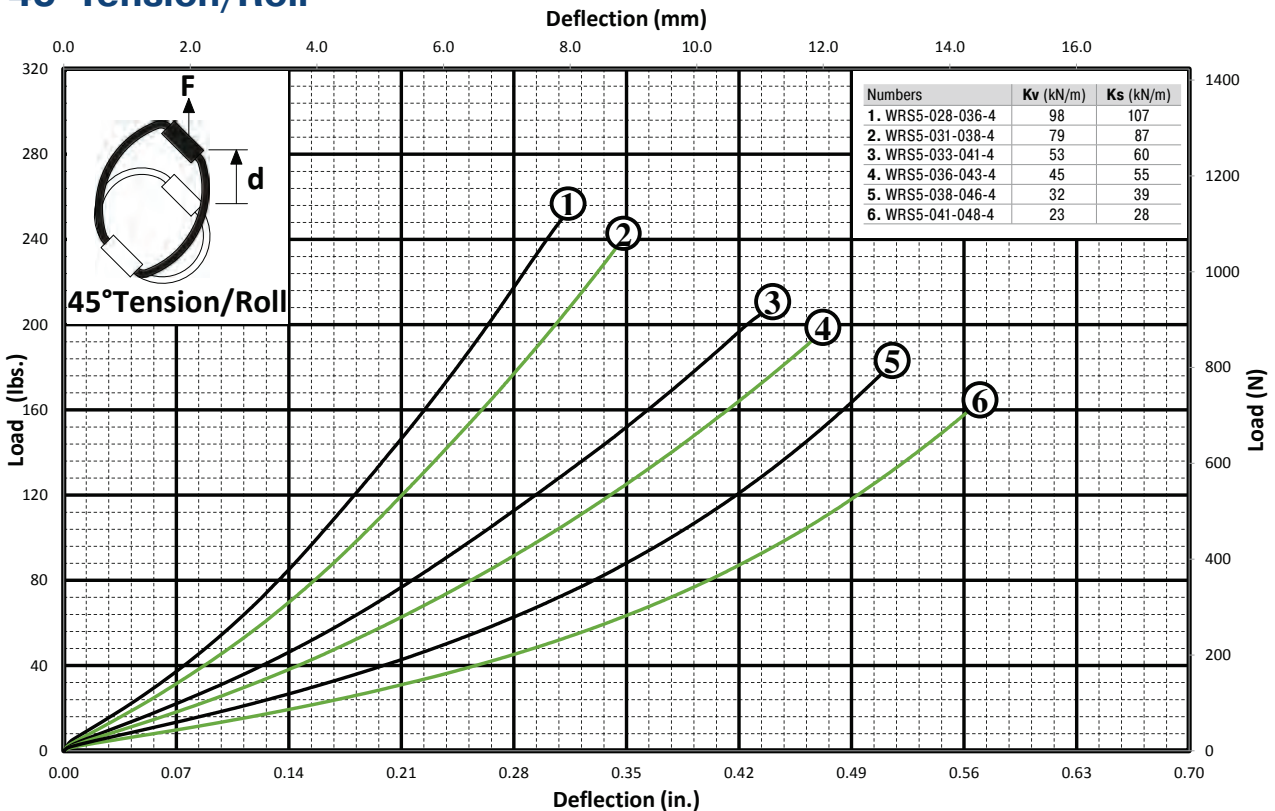
Roll



45° Compression/Roll



45° Tension/Roll



WRS6A

Helical Isolator Short

4.76 mm (3/16") Diameter Cable

Features

Rugged all metal construction
Fail safe construction
Long life and maintenance free
Three axis capability (6 dof)
High damping: C/cc $\approx$ 0.15 to 0.20

Operating temperature range

-130°C to +260°C

Material

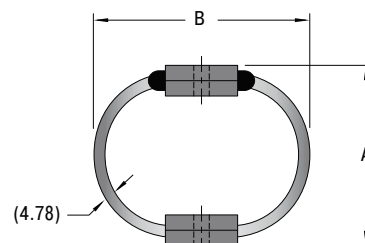
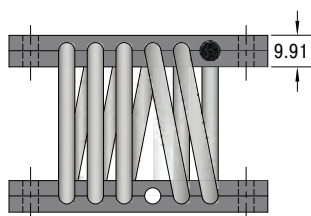
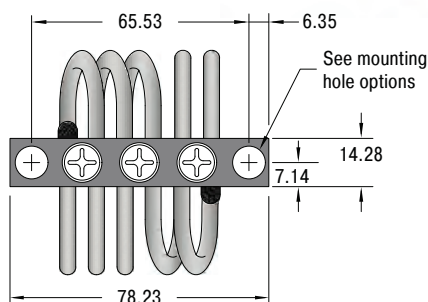
Cable: 300 Series SS per MIL-W-83420 or RR-W-410
Screws: 300 Series SS per MS51959-28
Inserts: 300 Series SS (alum bars only)
Retainer bars: Standard: 6061-T6 Alum alloy/
Chem film IAW MIL-DTL-5541, TYPE II, Class 3

Note

Mounting hole tolerances: ± 0.25 mm
Add 0.08 kg to Isolator weight for all stainless steel versions

On request

Special materials, size, mounting holes, finish, etc. available



Performance

TYPEN	A (+/- 0.8) mm	B mm	Compression			Shear/Roll (Average)			Weight kg
			Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	
WRS6A-051-058-5	50.8	57.9	37	26	25.4	12.1	13	25.4	0.089
WRS6A-052-064-5	52.3	63.5	30	22	26.7	8.2	11	26.7	0.092
WRS6A-054-075-5	54.1	74.7	21	15	27.9	6.1	8.1	27.9	0.097
WRS6A-056-081-5	55.6	81.0	14	11	29.2	5.1	6.7	29.2	0.105
WRS6A-062-088-5	62.2	87.6	13	8.8	40.6	2.3	5.1	40.6	0.109
WRS6A-081-107-5	81.3	106.7	7.0	3.9	55.9	1.4	2.6	55.9	0.132

Ordering Example

Type _____
Model size height _____
Model size wide _____
Number of loops _____
Mounting hole _____

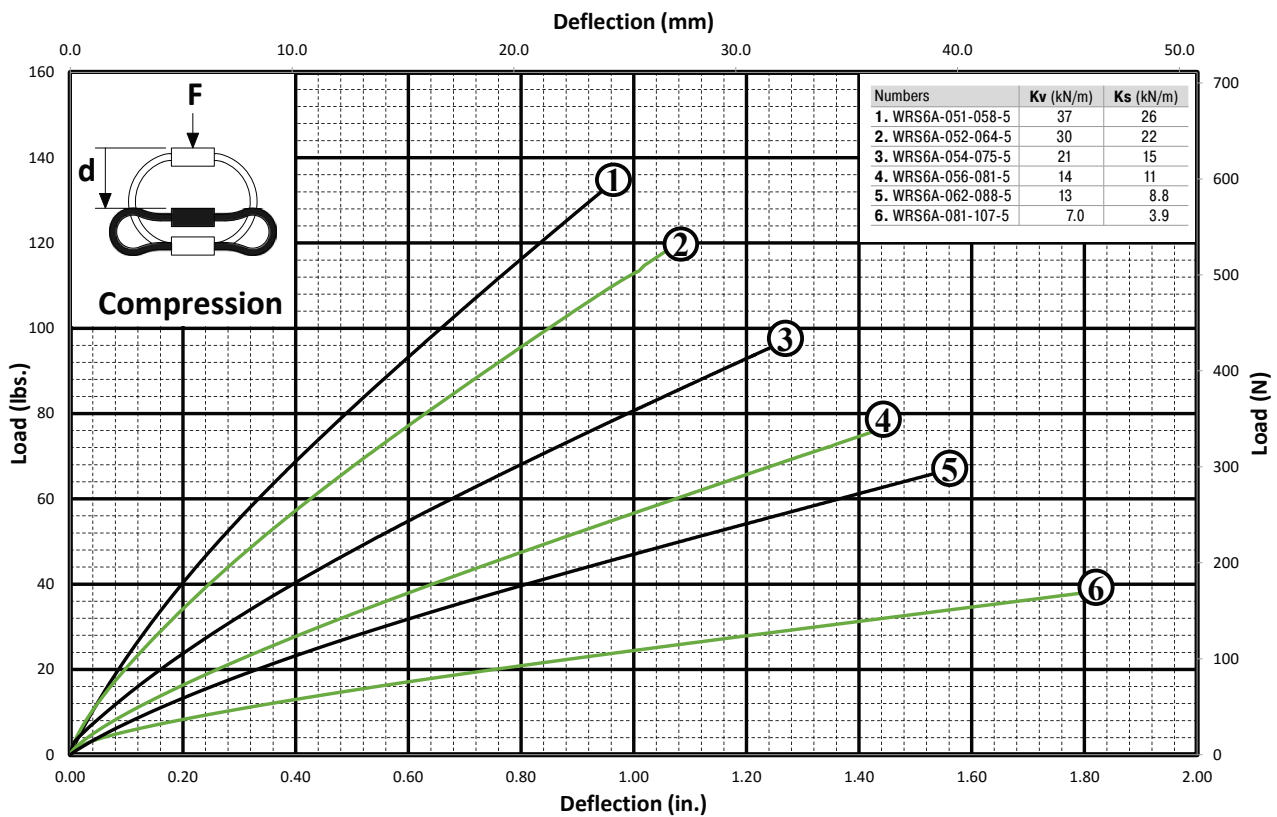
WRS6A-051-058-5-A

Mounting Hole Options

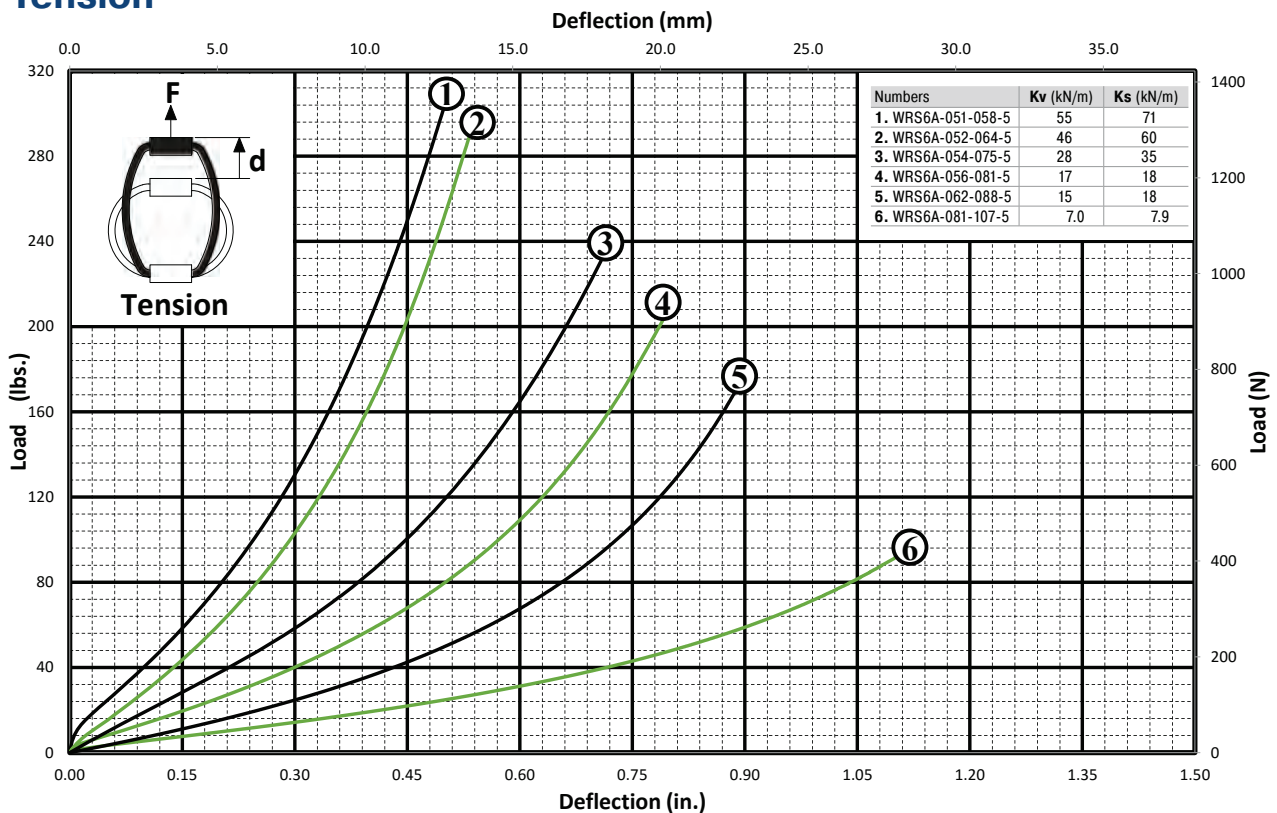
A	D
B	E
C	F

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Compression

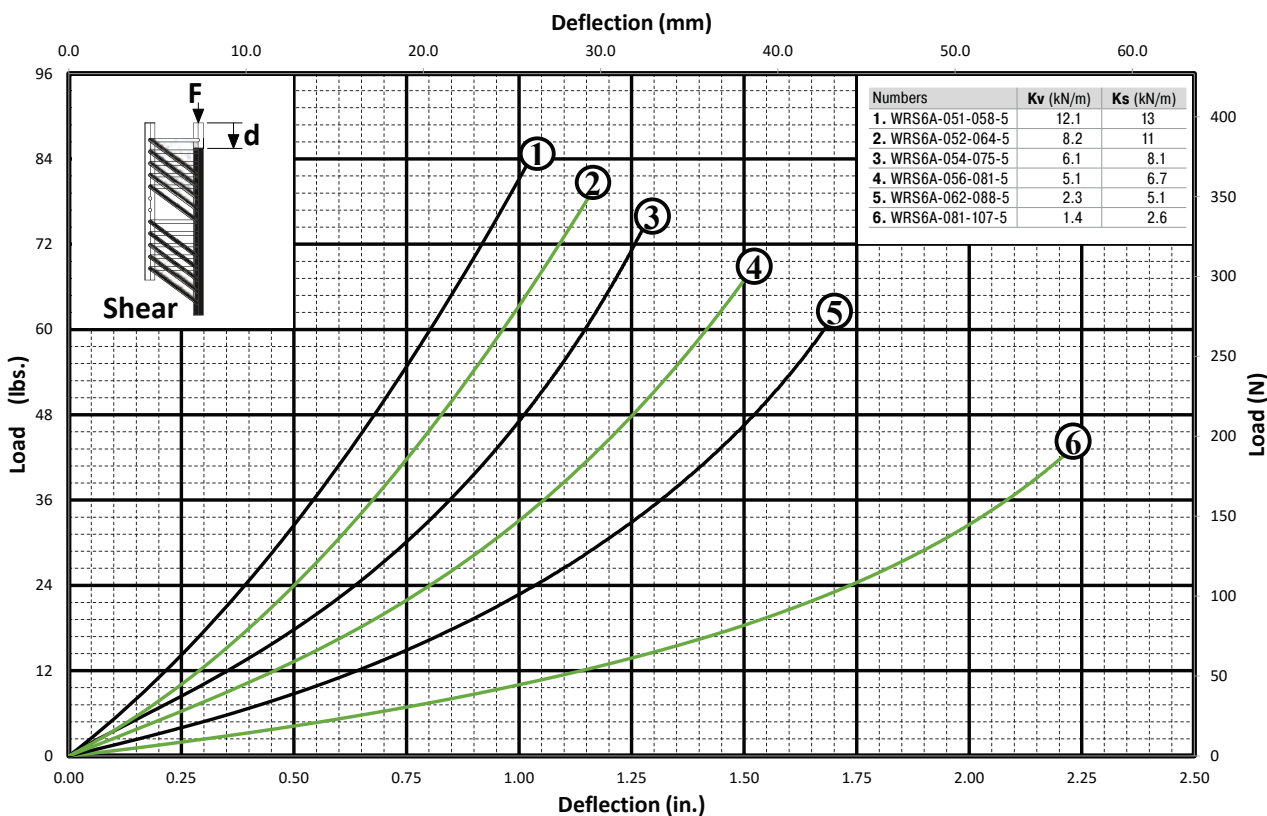


Tension

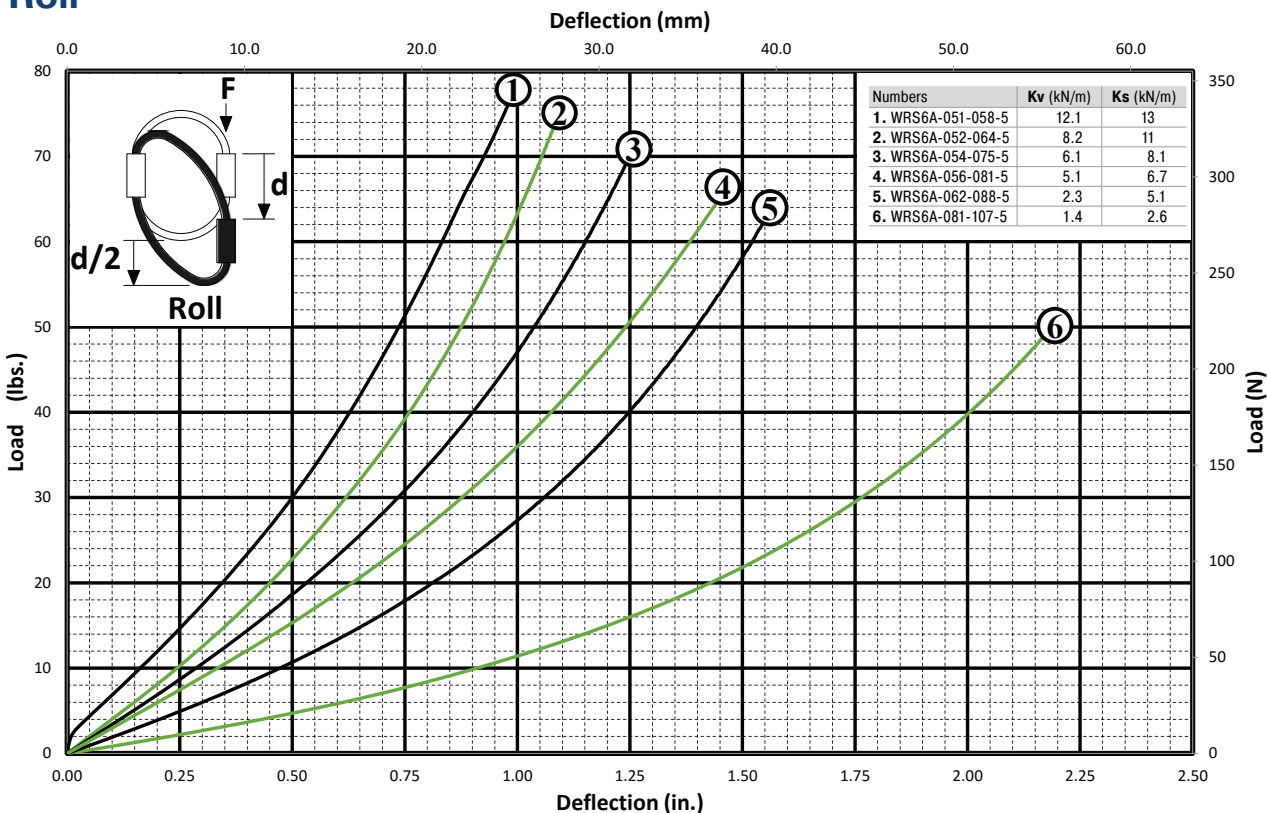


Issue 07/2020 – Specifications subject to change

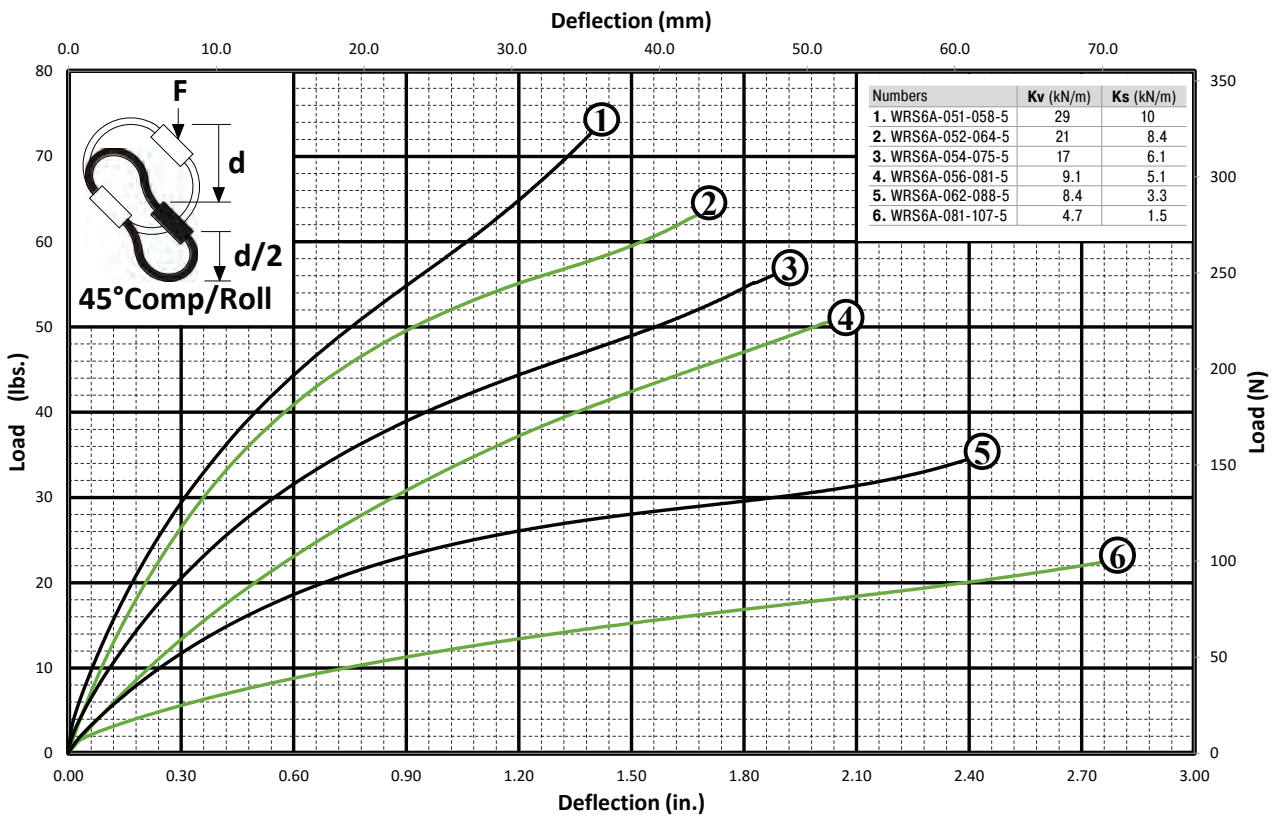
Shear



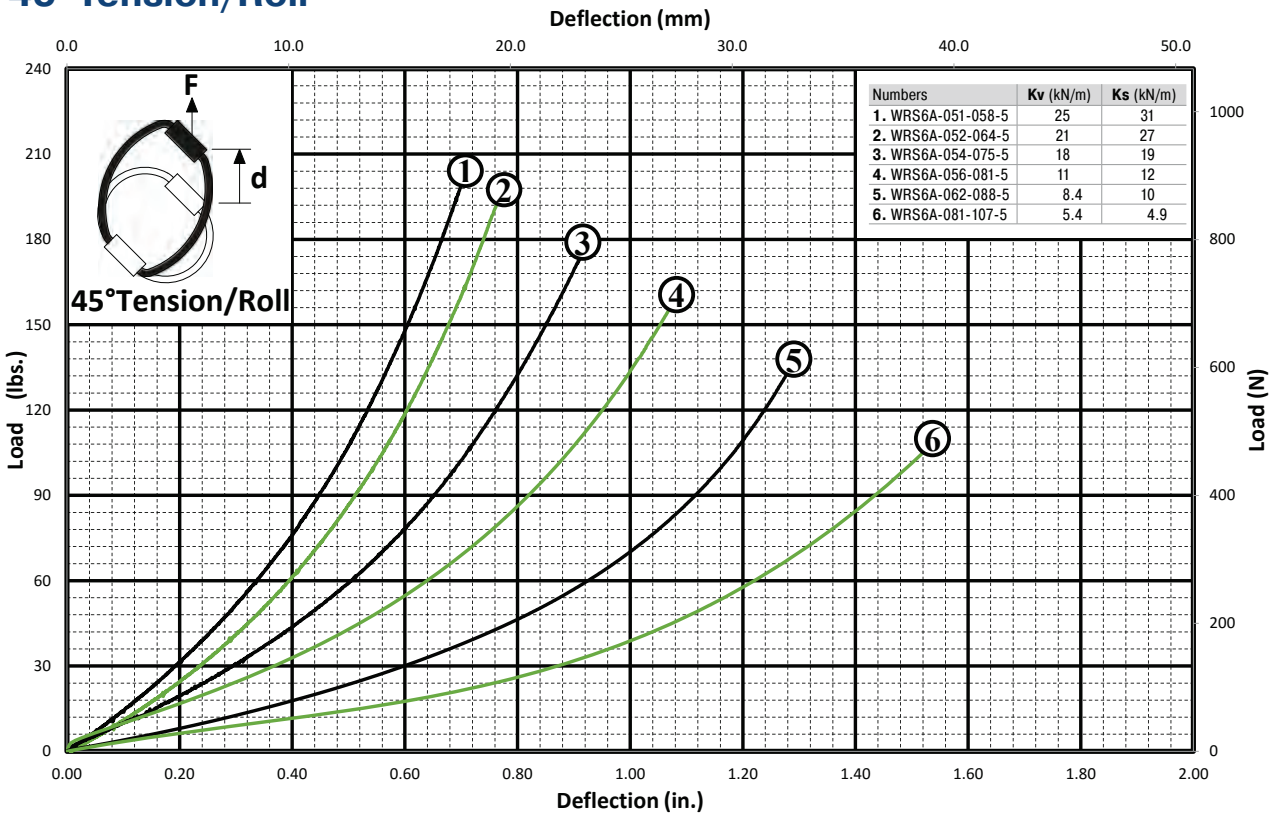
Roll



45° Compression/Roll



45° Tension/Roll



WRS6

Helical Isolator Short

4.76 mm (3/16") Diameter Cable

Features

Rugged all metal construction
Fail safe construction
Long life and maintenance free
Three axis capability (6 dof)
High damping: $C/cc \approx 0.15$ to 0.20

Operating temperature range

-130°C to +260°C

Material

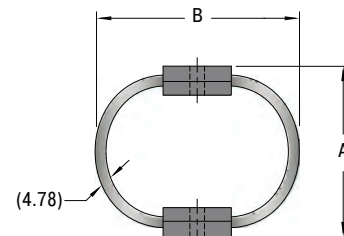
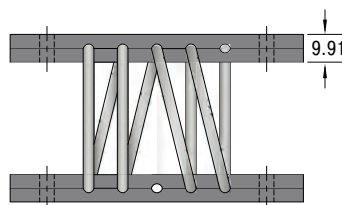
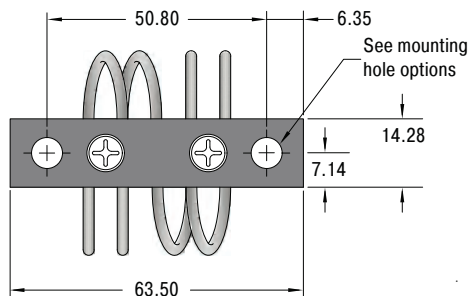
Cable: 300 Series SS per MIL-W-83420 or RR-W-410
Screws: 300 Series SS per MS51959-28
Inserts: 300 Series SS (alum bars only)
Retainer bars: Standard: 6061-T6 Alum alloy/
Chem film IAW MIL-DTL-5541, TYPE II, Class 3

Note

Mounting hole tolerances: ± 0.25 mm
Add 0.06 kg to Isolator weight for all stainless
steel versions

On request

Special materials, size, mounting holes, finish,
etc. available



Performance

TYPEN	A (+/- 0.8) mm	B mm	Compression			Shear/Roll (Average)			Weight kg
			Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	
WRS6-031-036-10	30.5	35.6	134	127	10.2	44	55	10.2	0.067
WRS6-033-038-10	33.0	38.1	111	99	11.4	40	49	11.4	0.068
WRS6-036-041-4	35.6	40.6	100	89	12.7	29	36	12.7	0.070
WRS6-038-043-4	38.1	43.2	88	75	15.2	25	33	15.2	0.073
WRS6-041-046-4	40.6	45.7	67	55	17.8	21	26	17.8	0.075
WRS6-043-048-4	43.2	48.2	52	41	20.3	15	22	20.3	0.077
WRS6-048-053-4	48.2	53.3	36	27	25.4	11	14	25.4	0.084
WRS6-051-058-4	51.0	58.4	30	23	27.9	8.6	12	27.9	0.089

Ordering Example

Type _____
Model size height _____
Model size wide _____
Number of loops _____
Mounting hole _____

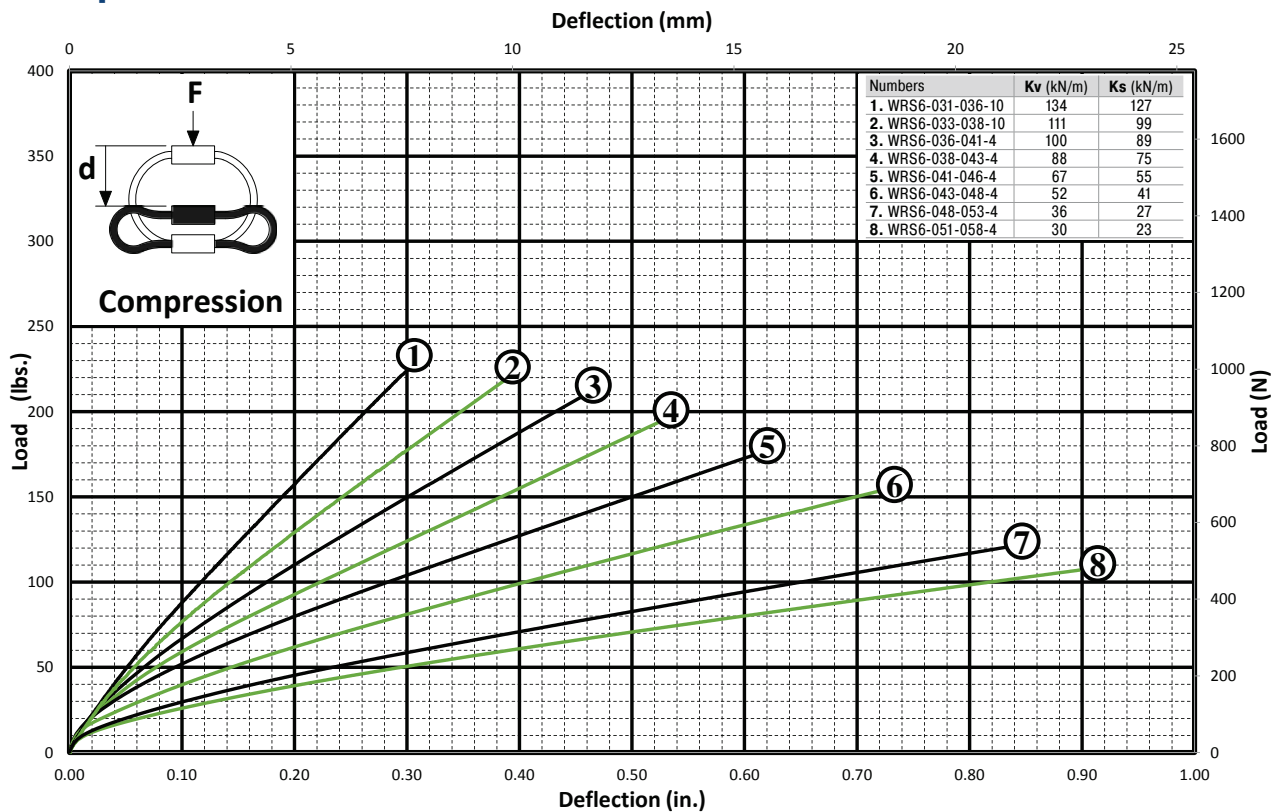
WRS6-036-041-4-A

Mounting Hole Options

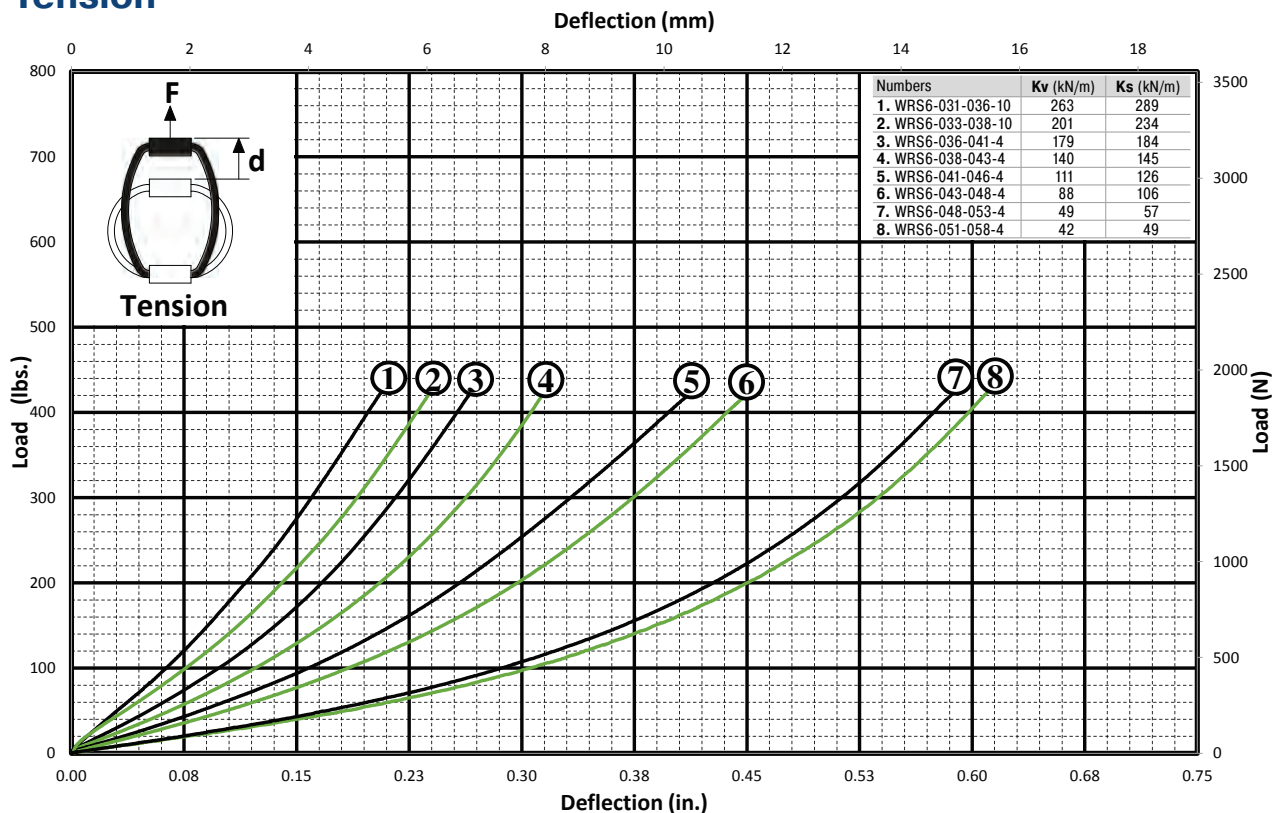
A	D
B	E
C	F

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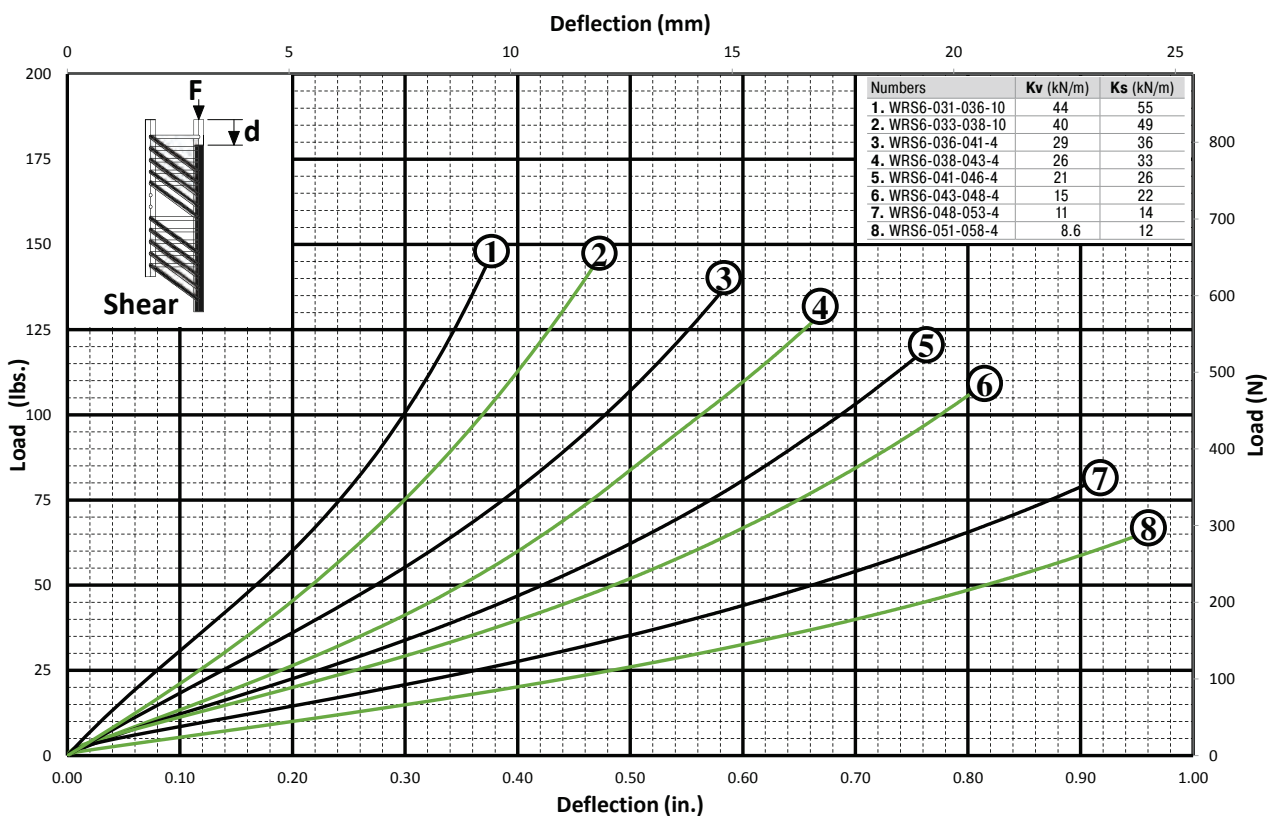
Compression



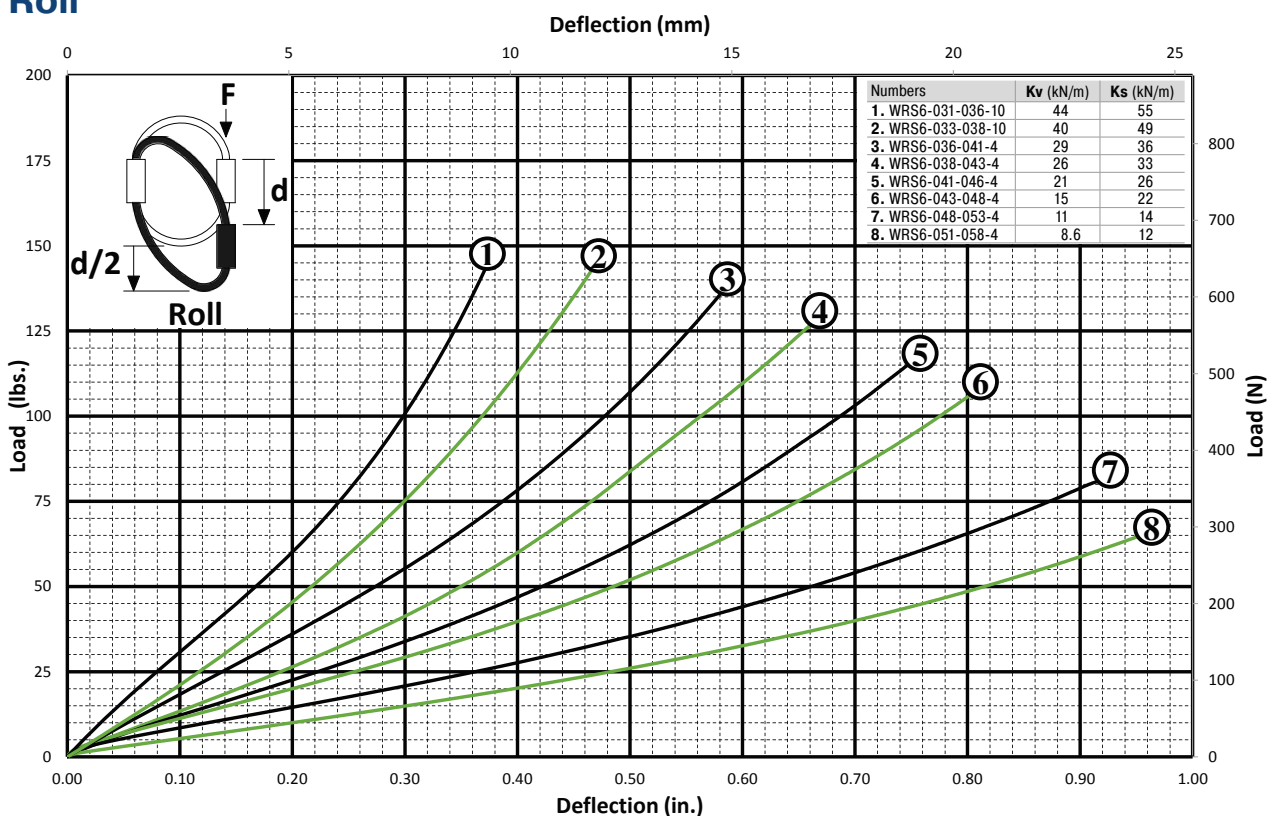
Tension



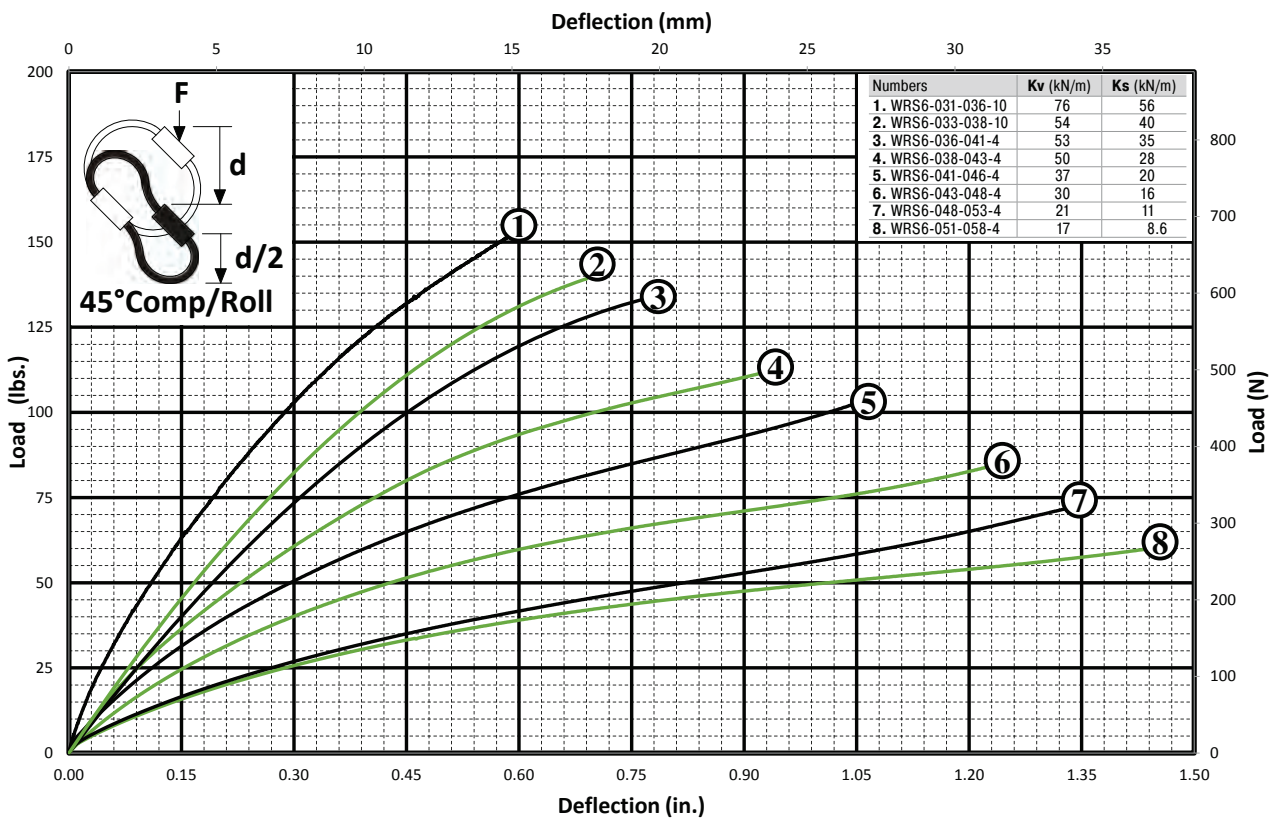
Shear



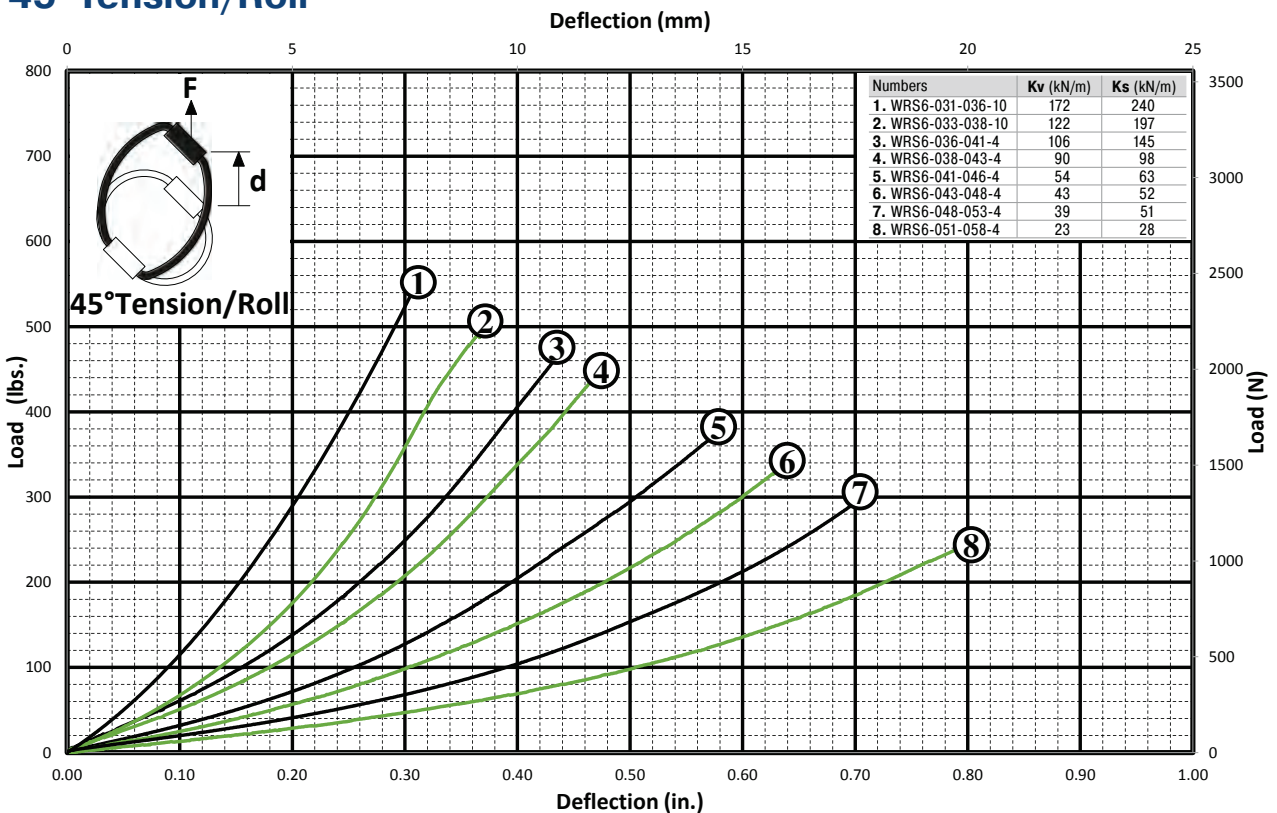
Roll



45° Compression/Roll



45° Tension/Roll



WRS8

Helical Isolator Short

6.35 mm (1/4") Diameter Cable

Features

Rugged all metal construction
Fail safe construction
Long life and maintenance free
Three axis capability (6 dof)
High damping: $C/cc \approx 0.15$ to 0.20

Operating temperature range

-130°C to +260°C

Material

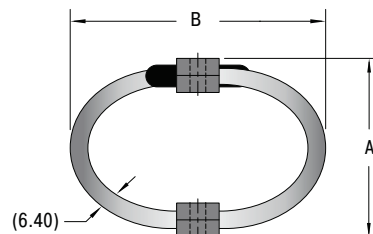
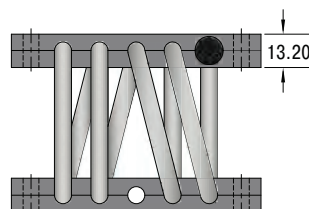
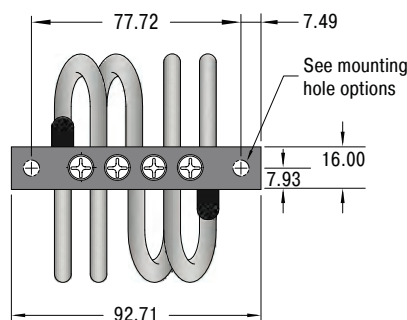
Cable: 300 Series SS per MIL-W-83420 or RR-W-410
Screws: 300 Series SS passivated IAW ASTM A967
Inserts: 300 Series SS (alum bars only)
Retainer bars: Standard: 6061-T6 Alum alloy/
Chem film IAW MIL-DTL-5541, TYPE II, Class 3

Note

Mounting hole tolerances: ± 0.25 mm
Add 0.10 kg to Isolator weight for all stainless steel versions

On request

Special materials, size, mounting holes, finish, etc. available



Performance

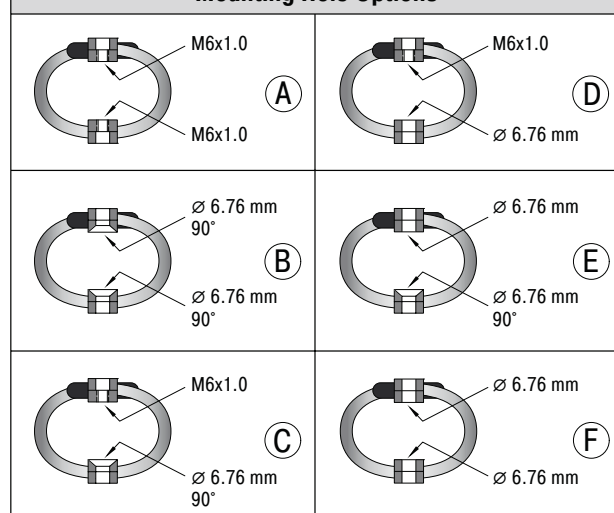
TYPEN	A (+/- 0.8) mm	B mm	Compression			Shear/Roll (Average)			Weight kg
			Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	
WRS8-048-056-4	48.4	55.9	111	84	17.8	34	38	17.8	0.159
WRS8-054-064-4	54.1	63.5	82	60	22.9	34	28	22.9	0.173
WRS8-059-071-4	58.7	71.1	58	39	27.9	21	19	27.9	0.179
WRS8-062-080-4	62.2	79.5	39	27	31.8	15	14	31.8	0.194
WRS8-065-089-4	64.8	88.9	25	18	34.3	11	9.6	34.3	0.213
WRS8-066-095-4	66.0	95.3	25	18	35.6	8.9	8.8	35.6	0.221
WRS8-069-100-4	68.6	100.3	19	12	38.1	7.4	6.8	38.1	0.227
WRS8-083-108-4	82.6	108.0	14	8.6	52.1	5.1	4.7	52.1	0.247

Ordering Example

Type _____
Model size height _____
Model size wide _____
Number of loops _____
Mounting hole _____

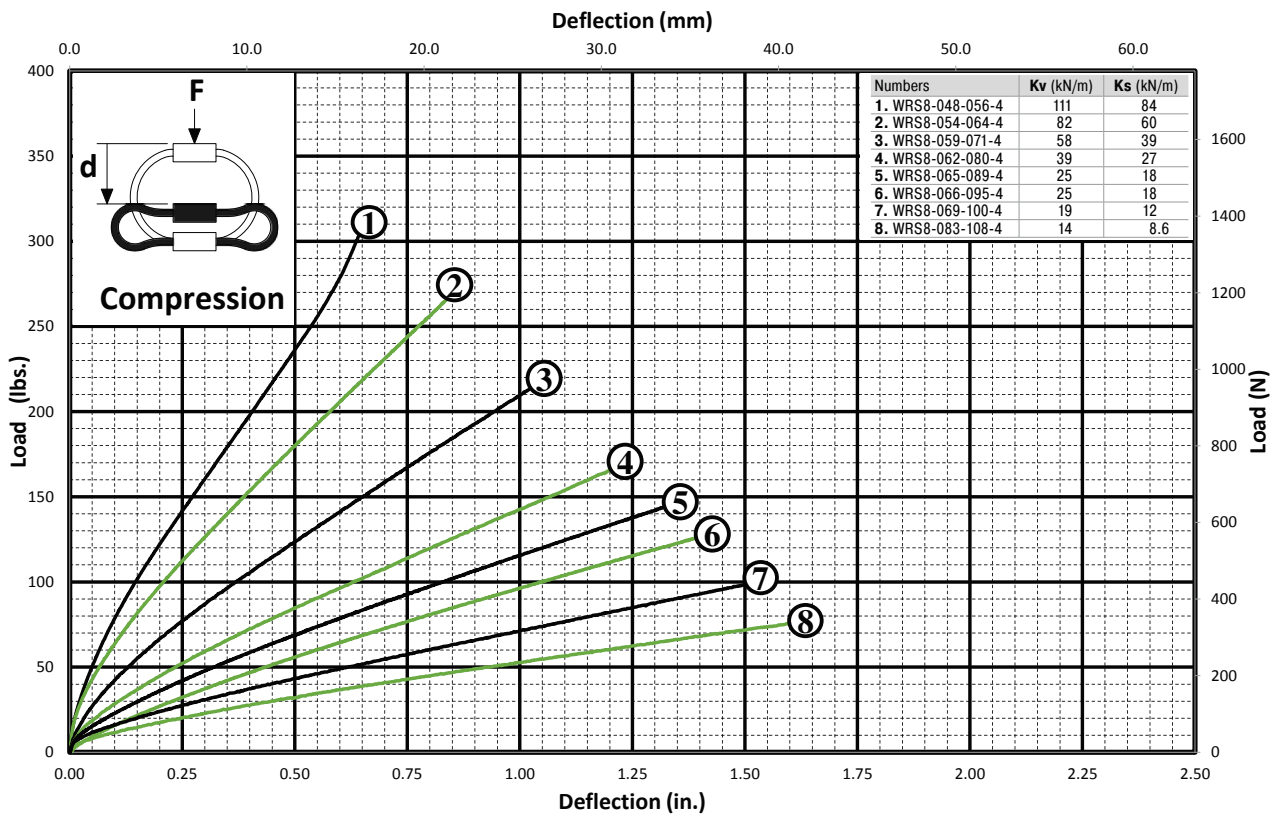
WRS8-048-056-4-A

Mounting Hole Options

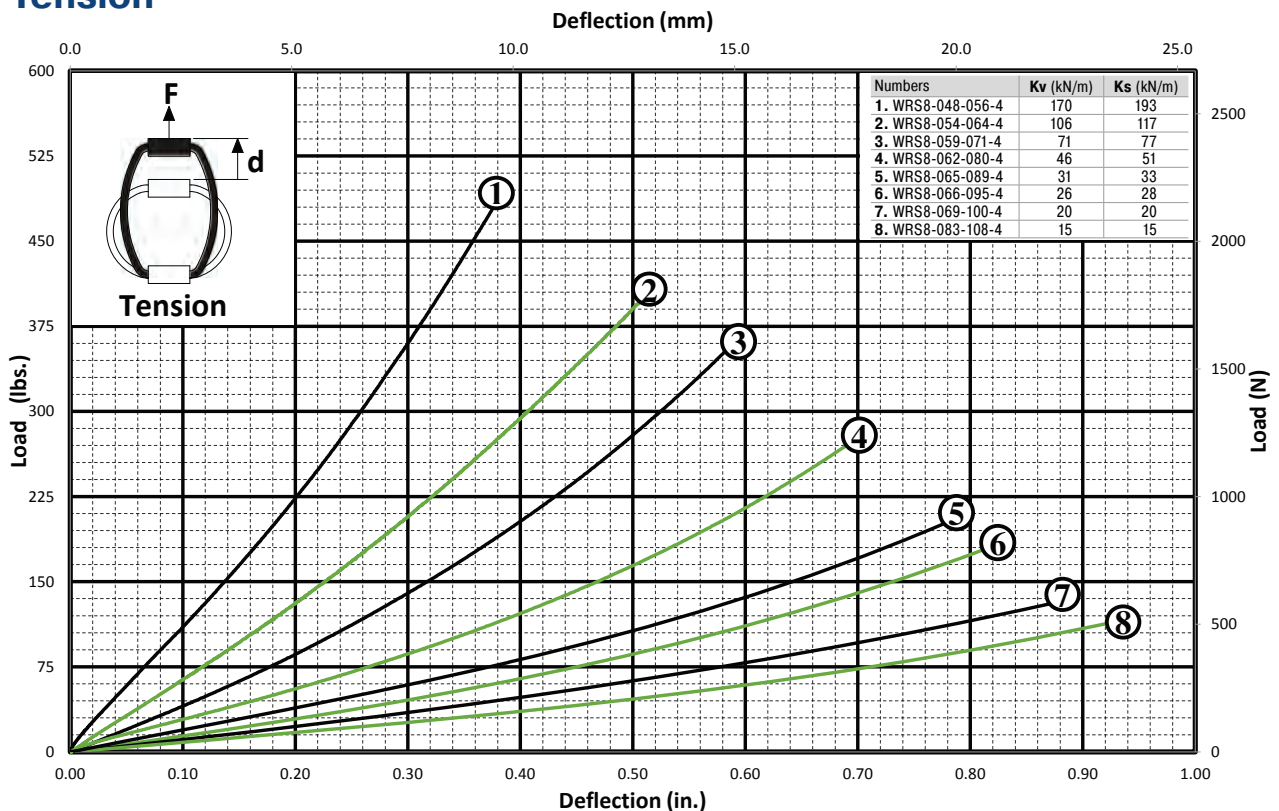


Issue 07/2020 – Specifications subject to change

Compression

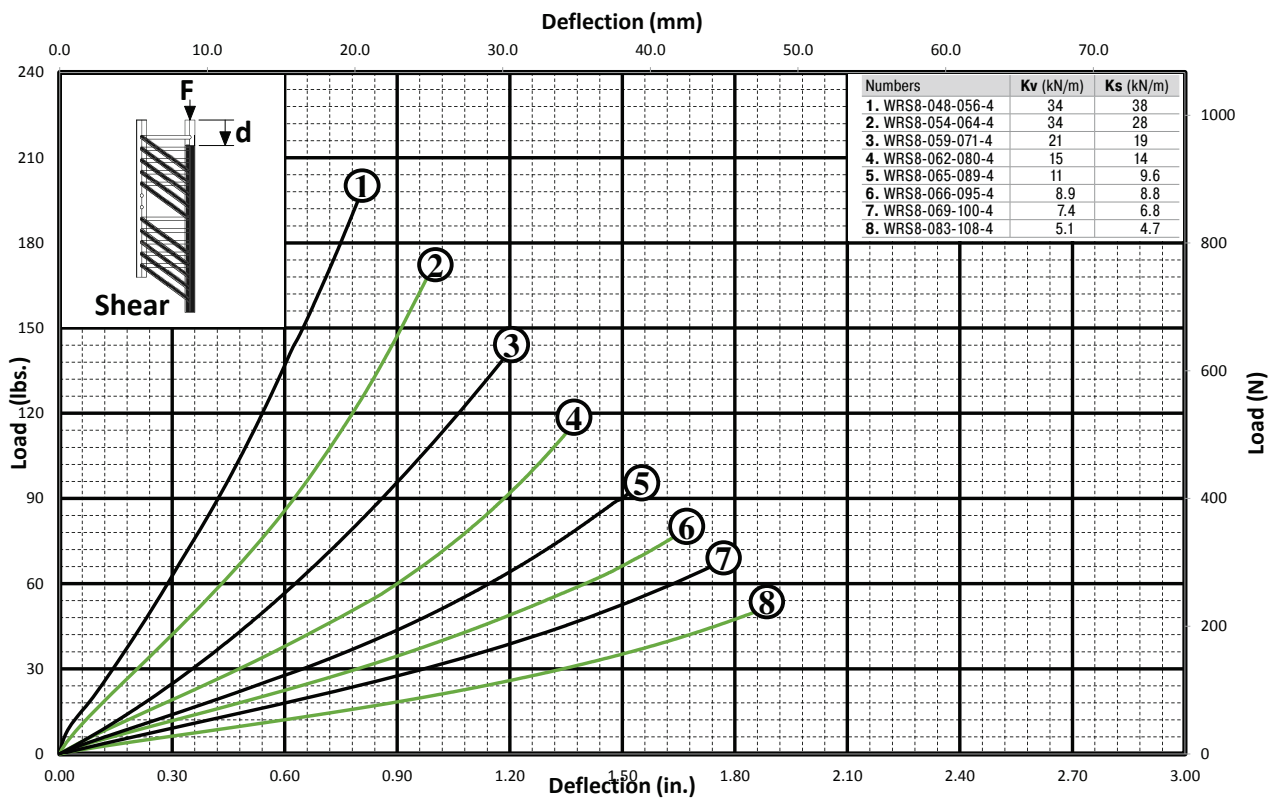


Tension

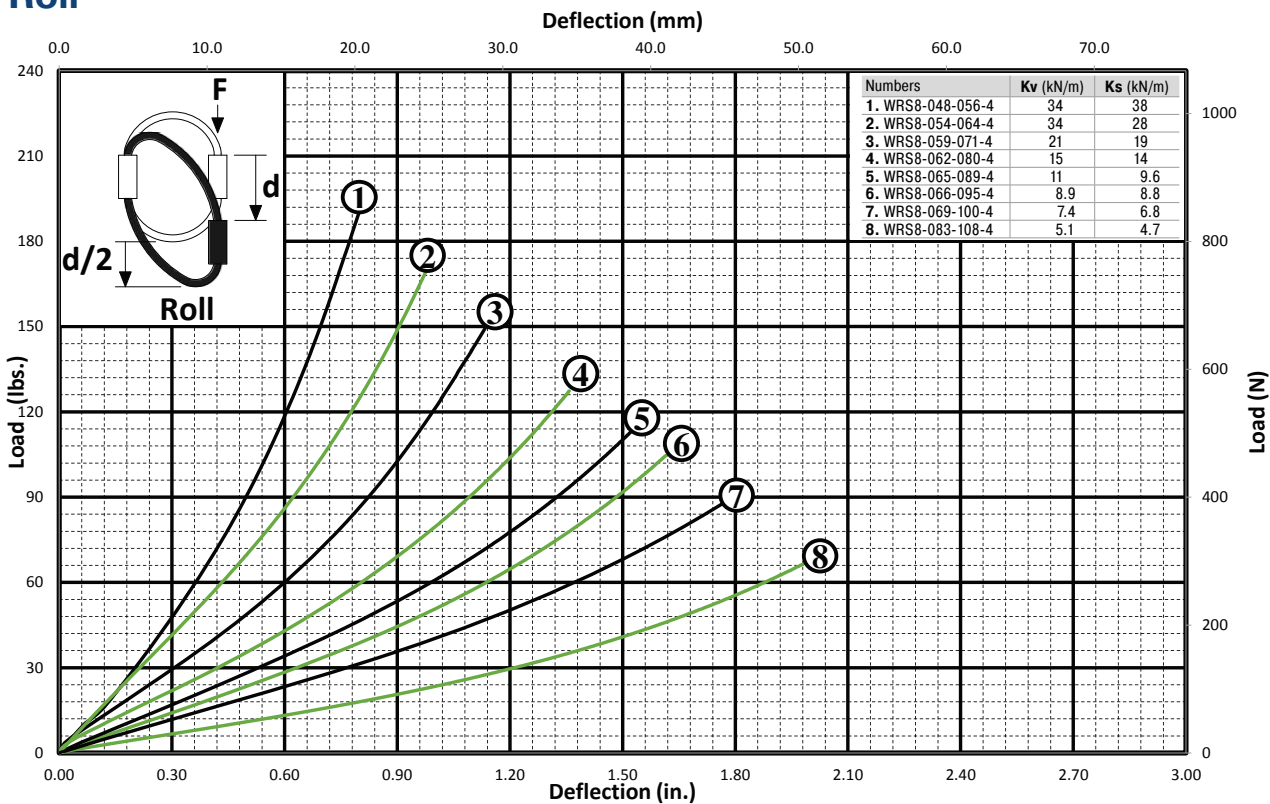


Issue 07/2020 – Specifications subject to change

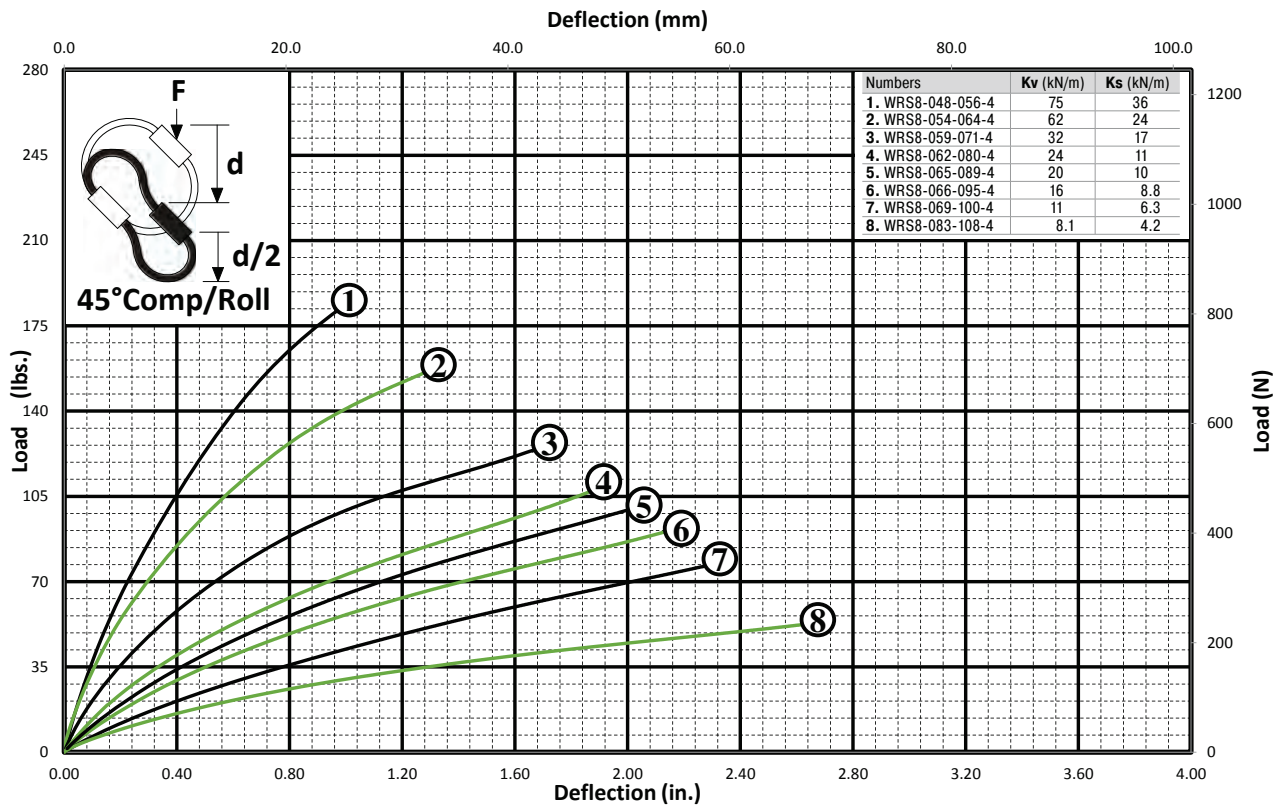
Shear



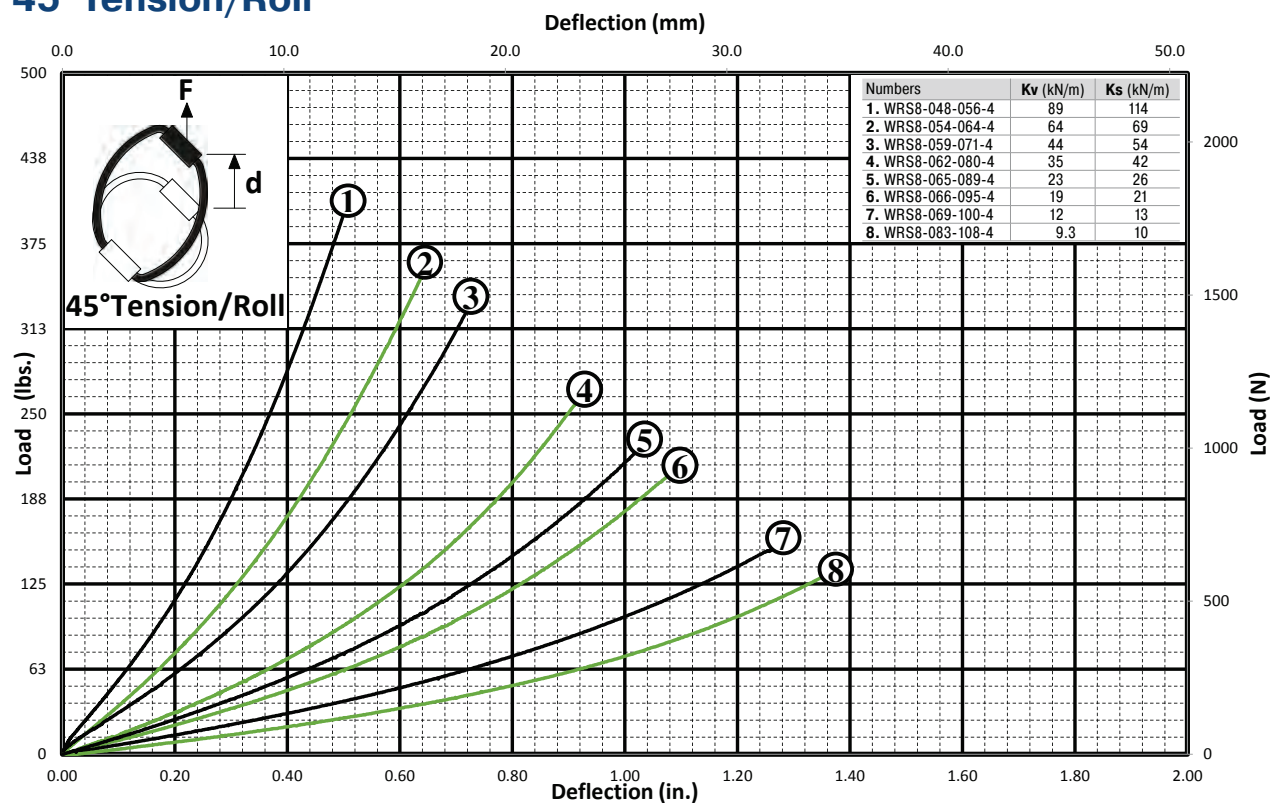
Roll



45° Compression/Roll



45° Tension/Roll



WRS12

Helical Isolator Short

9.53 mm (3/8") Diameter Cable

Features

Rugged all metal construction
Fail safe construction
Long life and maintenance free
Three axis capability (6 dof)
High damping: C/cc $\approx$ 0.15 to 0.20

Operating temperature range

-130°C to +260°C

Material

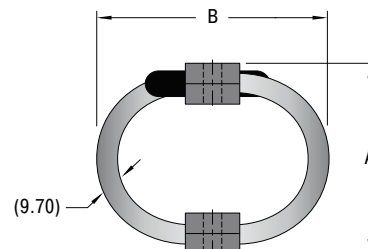
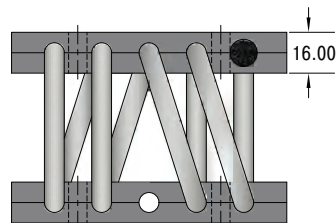
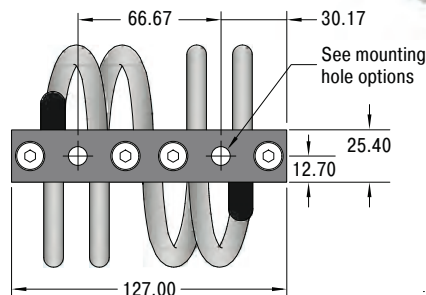
Cable: 300 Series SS per MIL-W-83420 or RR-W-410
Screws: 300 Series SS passivated IAW ASTM A967
Inserts: 300 Series SS (alum bars only)
Retainer bars: Standard: 6061-T6 Alum alloy/
Chem film IAW MIL-DTL-5541, TYPE II, Class 3

Note

Mounting hole tolerances: ± 0.25 mm
Add 0.39 kg to Isolator weight for all stainless steel versions

On request

Special materials, size, mounting holes, finish, etc. available



Performance

TYPEN	A (+/- 0.8) mm	B mm	Compression			Shear/Roll (Average)			Weight kg
			Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	
WRS12-071-084-4	71.1	84.1	151	96	31.8	44	64	31.8	0.53
WRS12-074-089-4	73.7	88.9	132	82	34.3	39	46	34.3	0.54
WRS12-076-105-4	76.2	104.9	116	68	36.8	37	40	36.8	0.58
WRS12-083-108-4	82.6	108.0	94	55	43.2	37	35	43.2	0.60
WRS12-089-108-4	88.9	108.0	89	49	49.5	29	31	49.5	0.62
WRS12-105-121-4	104.9	120.7	57	32	66.0	13	22	66.0	0.68
WRS12-108-140-4	108.0	139.7	42	22	68.6	12	14	68.6	0.74

Ordering Example

Type _____
Model size height _____
Model size wide _____
Number of loops _____
Mounting hole _____

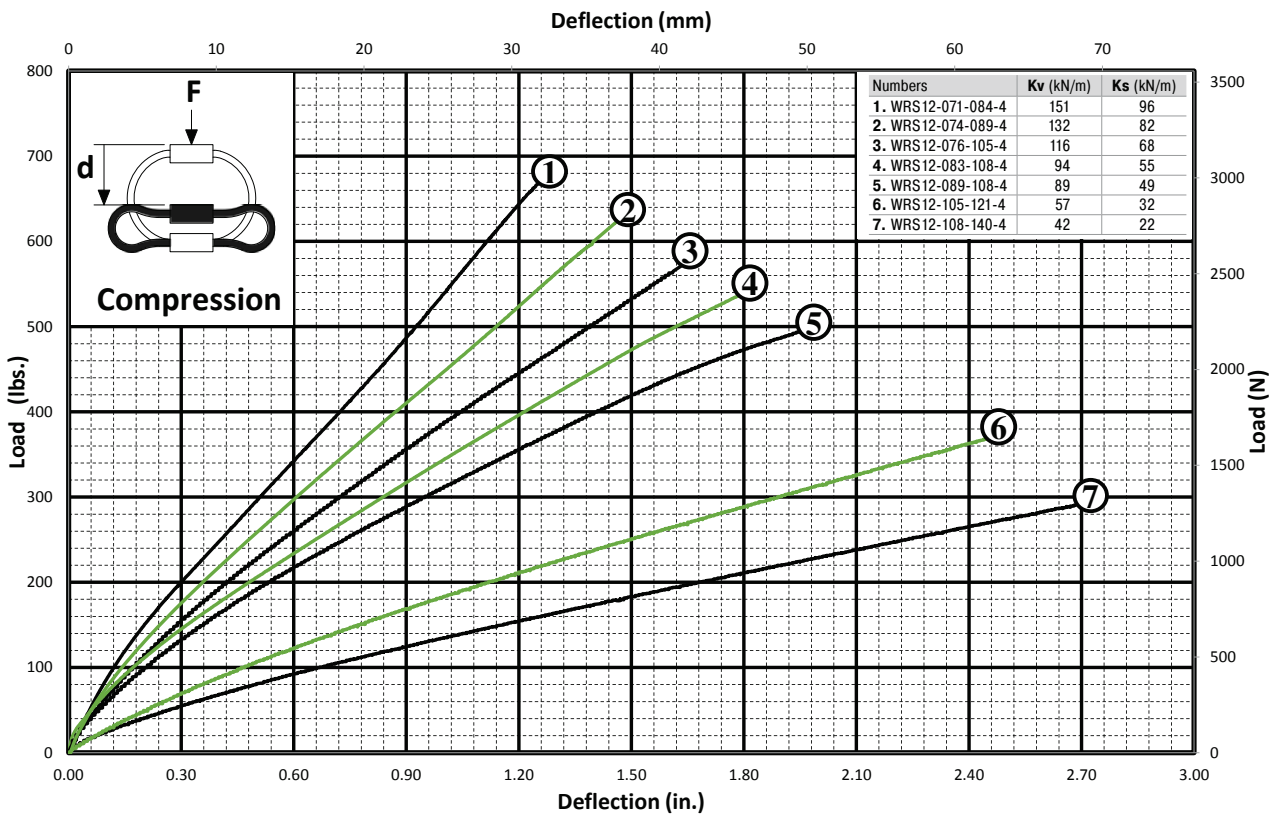
WRS12-071-084-4-A

Mounting Hole Options

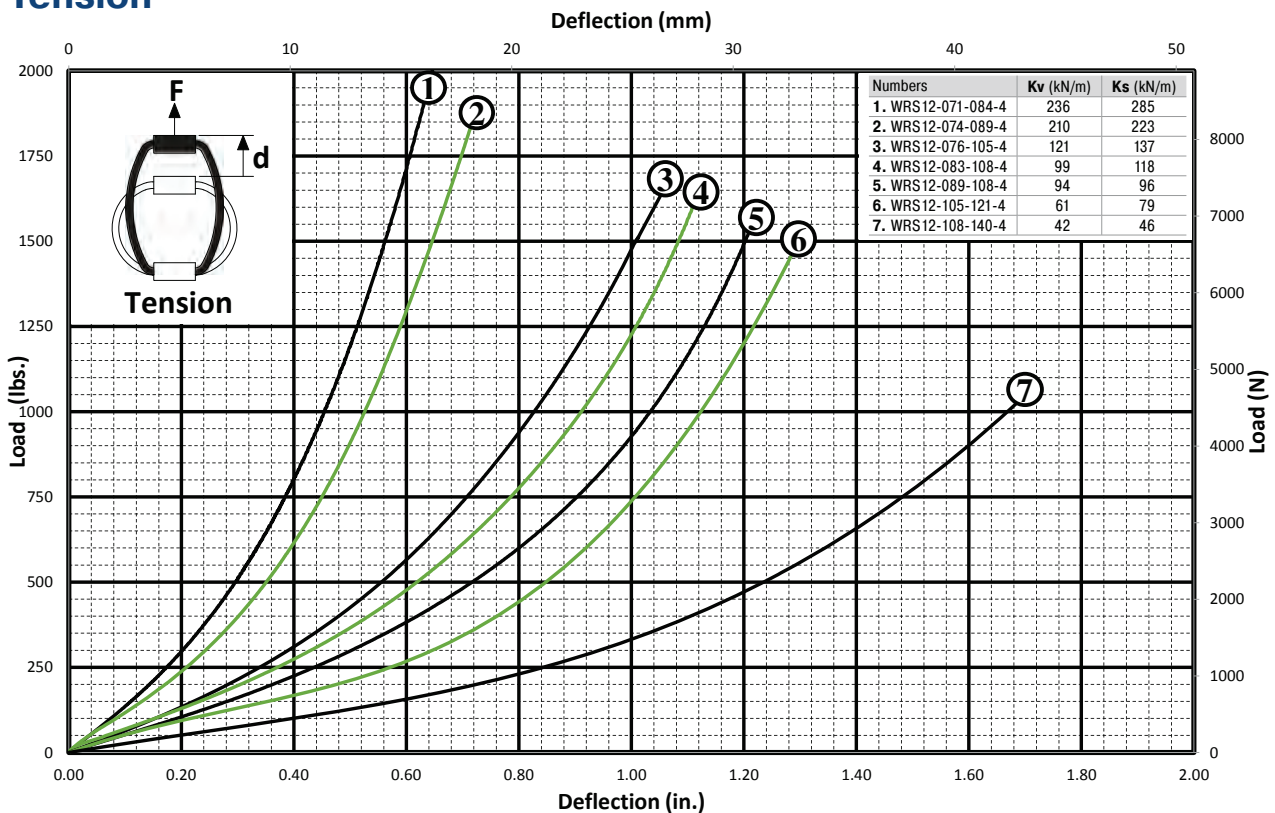
A	D
B	E
C	F

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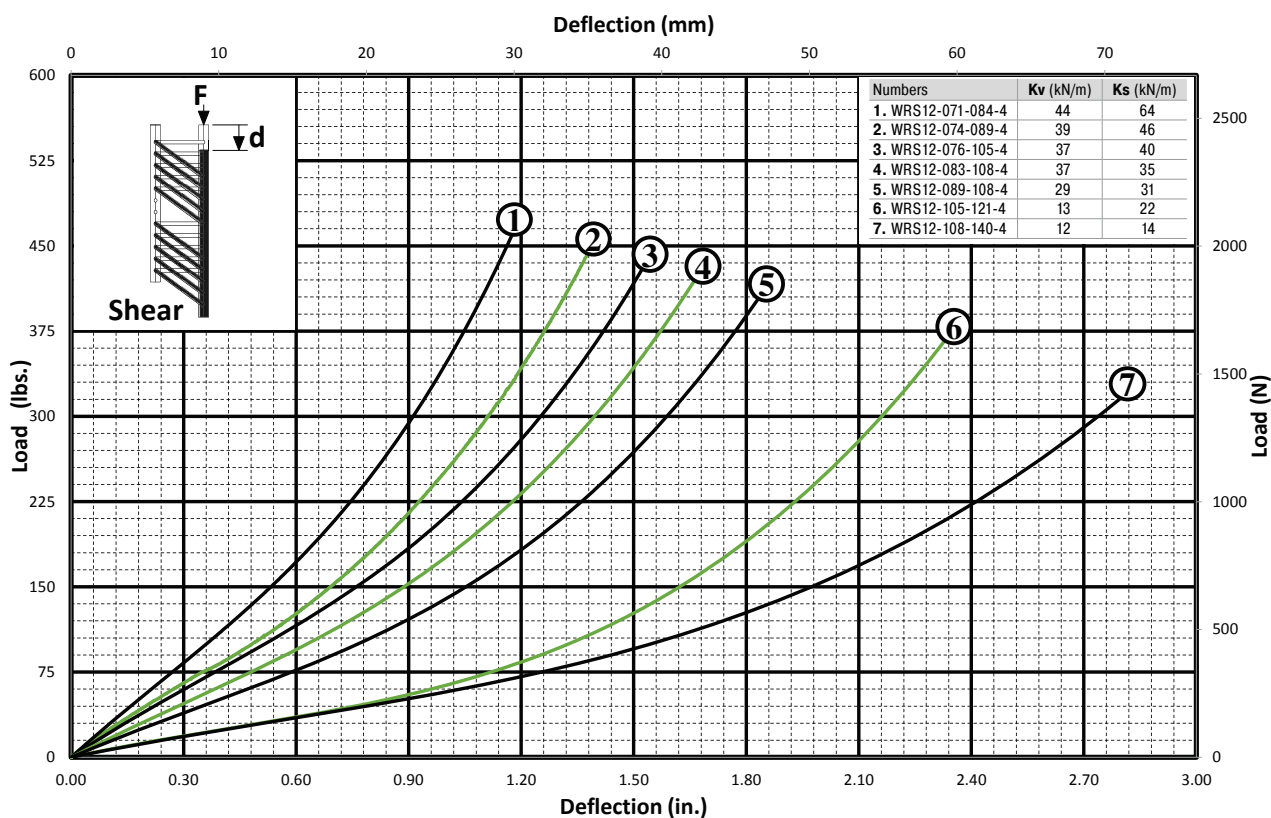
Compression



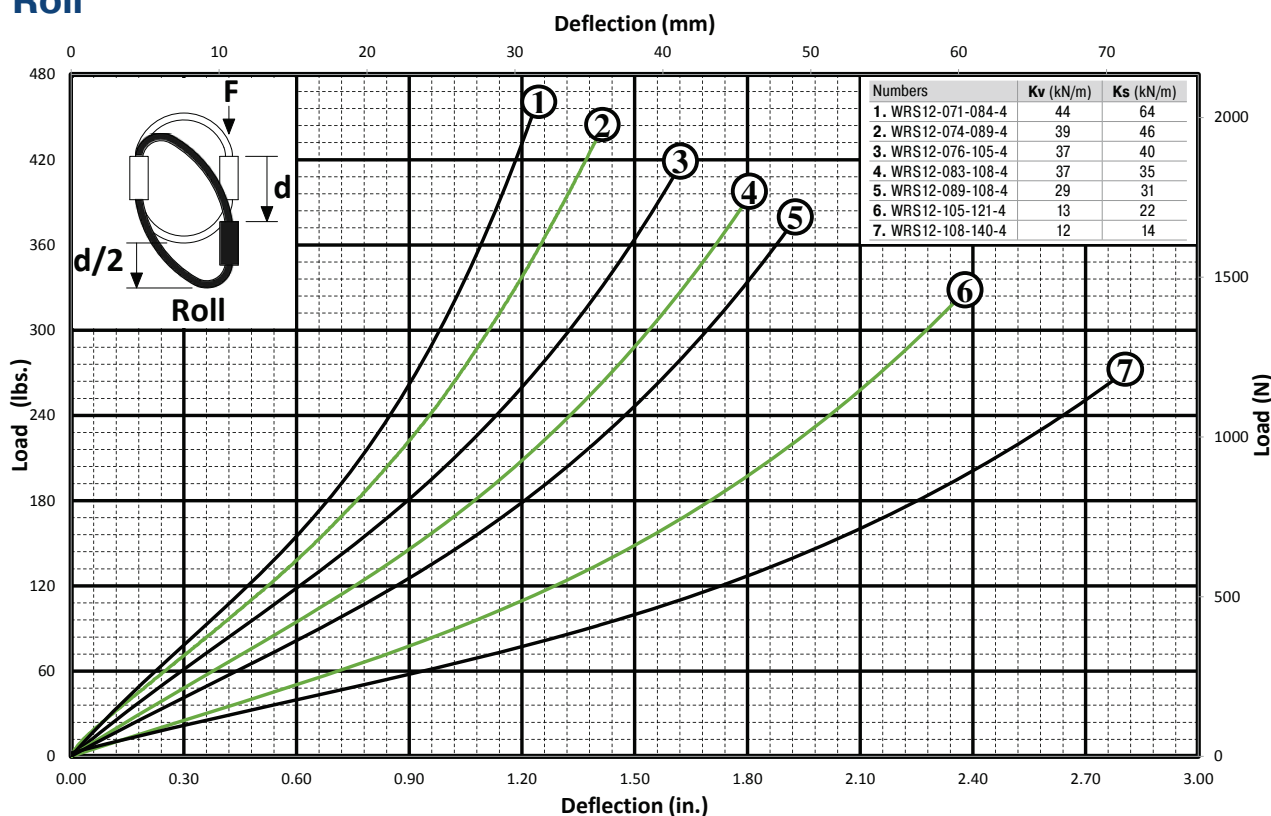
Tension



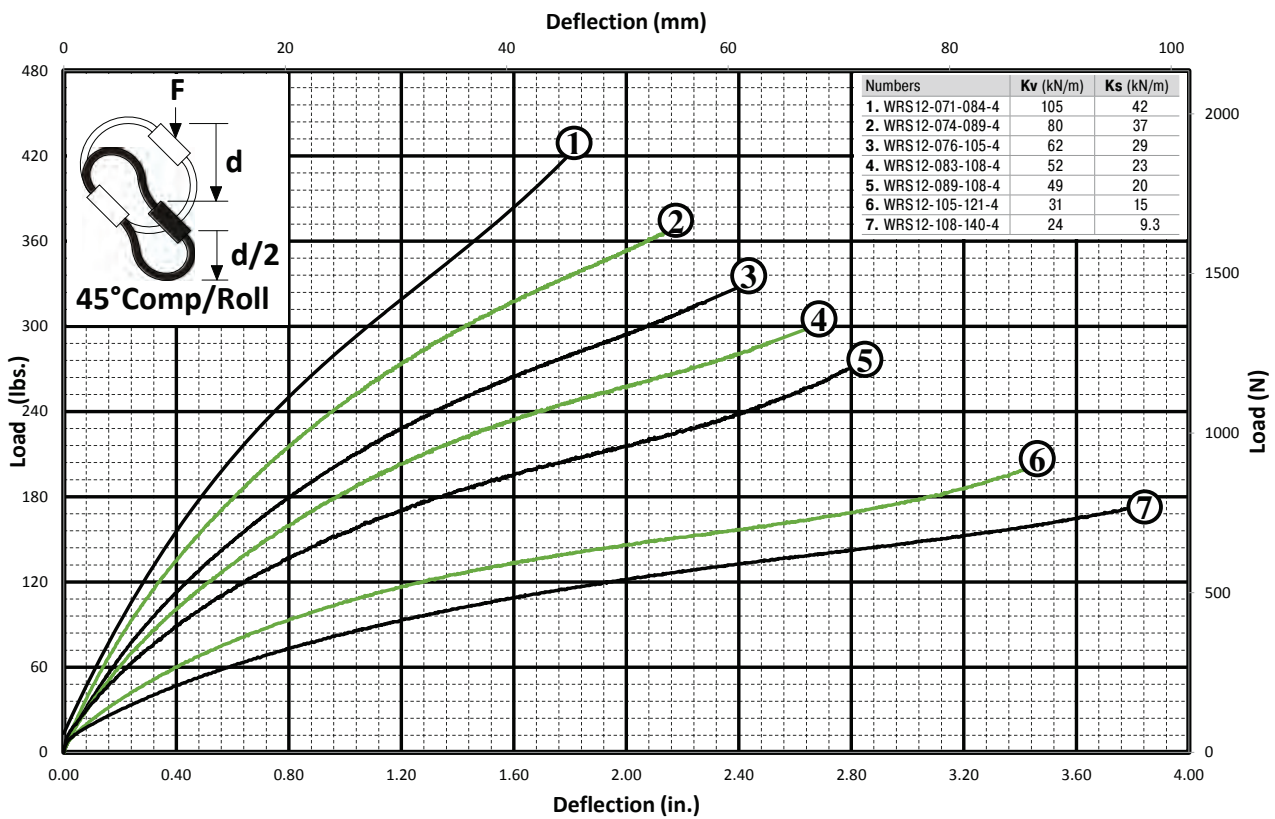
Shear



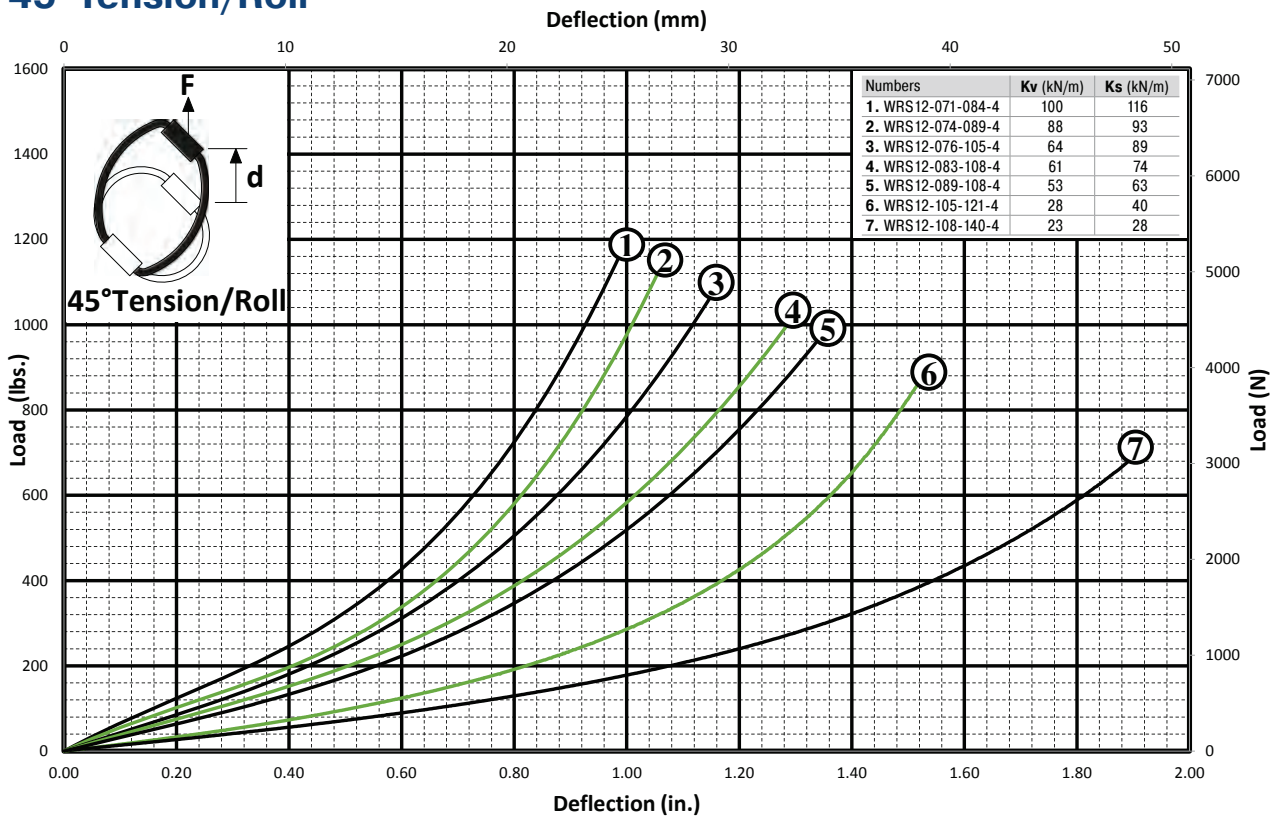
Roll



45° Compression/Roll



45° Tension/Roll



WRS16

Helical Isolator Short

12.70 mm (1/2") Diameter Cable

Features

Rugged all metal construction
Fail safe construction
Long life and maintenance free
Three axis capability (6 dof)
High damping: C/cc $\approx$ 0.15 to 0.20

Operating temperature range

-130°C to +260°C

Material

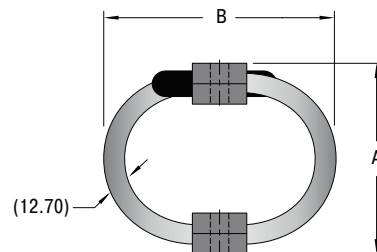
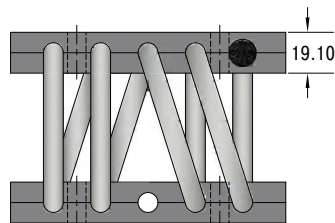
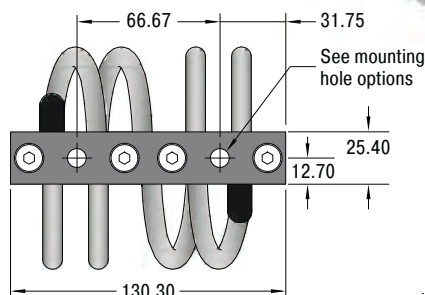
Cable: 300 Series SS per MIL-W-83420 or RR-W-410
Screws: 300 Series SS passivated IAW ASTM A967
Inserts: 300 Series SS (alum bars only)
Retainer bars: Standard: 6061-T6 Alum alloy/
Chem film IAW MIL-DTL-5541, TYPE II, Class 3

Note

Mounting hole tolerances: ± 0.25 mm
Add 0.41 kg to Isolator weight for all stainless steel versions

On request

Special materials, size, mounting holes, finish, etc. available



Performance

TYPEN	A (+/- 0.8) mm	B mm	Compression			Shear/Roll (Average)			Weight kg
			Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	
WRS16-083-102-4	82.6	101.9	218	147	35.6	113	86	35.6	0.84
WRS16-089-105-4	88.9	104.9	206	131	41.9	63	72	41.9	0.85
WRS16-095-121-4	95.3	120.7	154	91	48.3	46	52	48.3	0.93
WRS16-108-133-4	108.0	133.4	95	58	61.0	29	34	61.0	1.04
WRS16-125-144-4	124.5	143.5	68	40	77.5	22	25	77.5	1.14
WRS16-137-158-4	137.2	157.7	48	30	90.2	15	21	90.2	1.23
WRS16-155-180-4	154.9	180.3	35	19	108.0	8.2	13	108.0	1.40

Ordering Example

Type _____
Model size height _____
Model size wide _____
Number of loops _____
Mounting hole _____

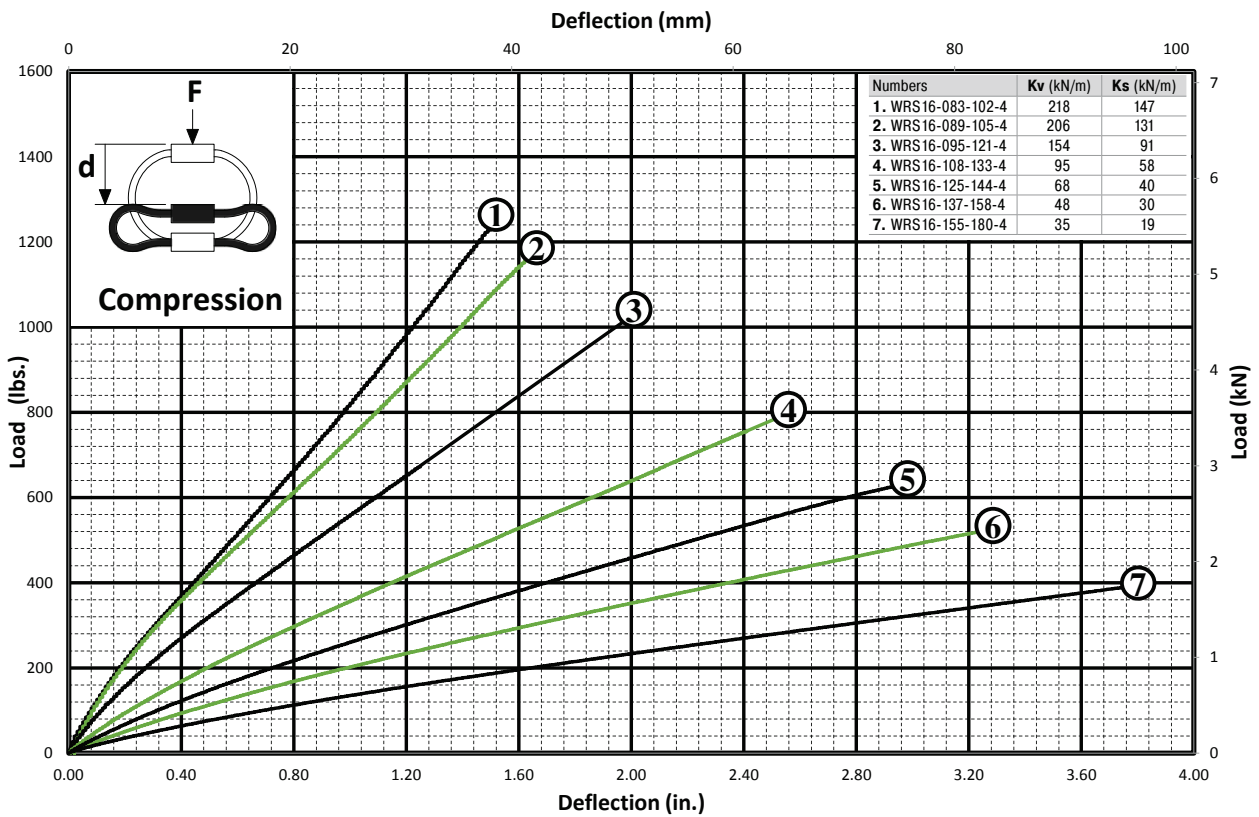
WRS16-083-102-4-A

Mounting Hole Options

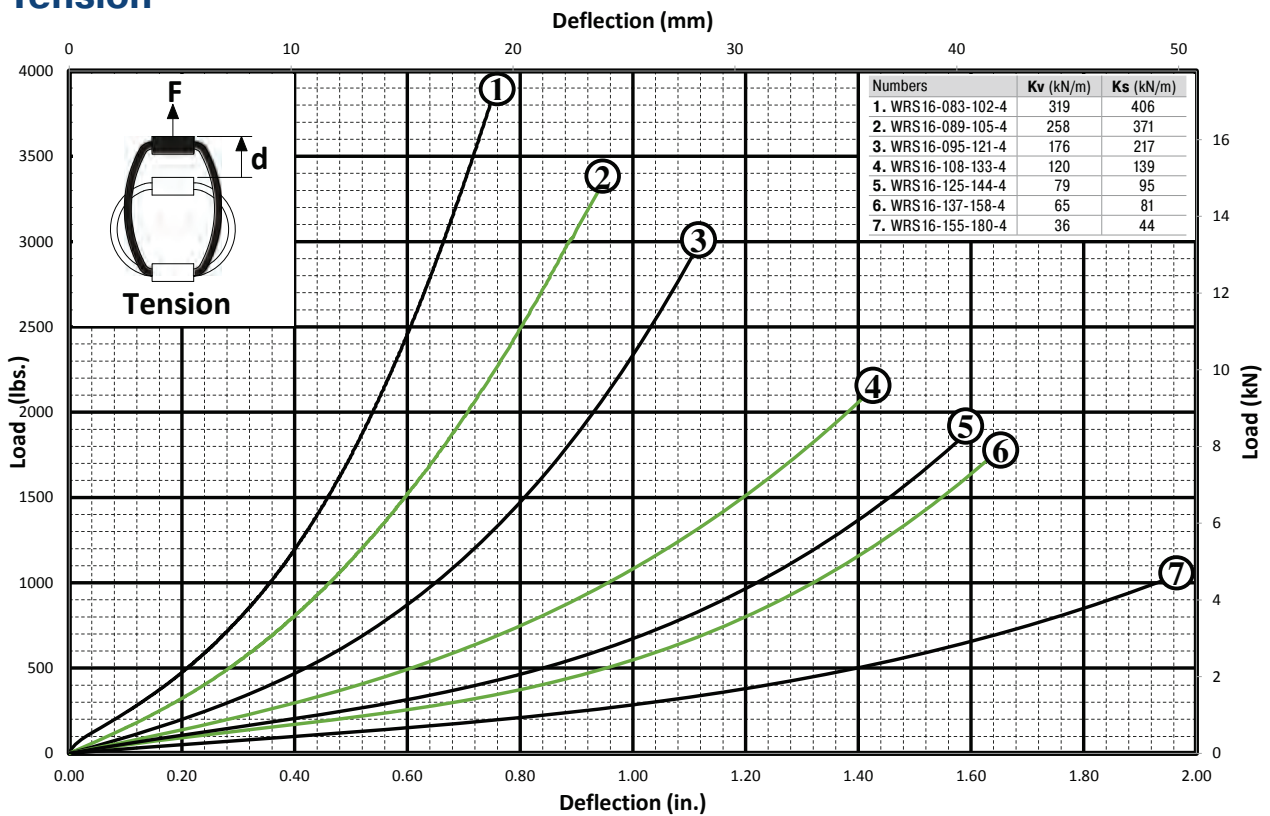
A	D
B	E
C	F

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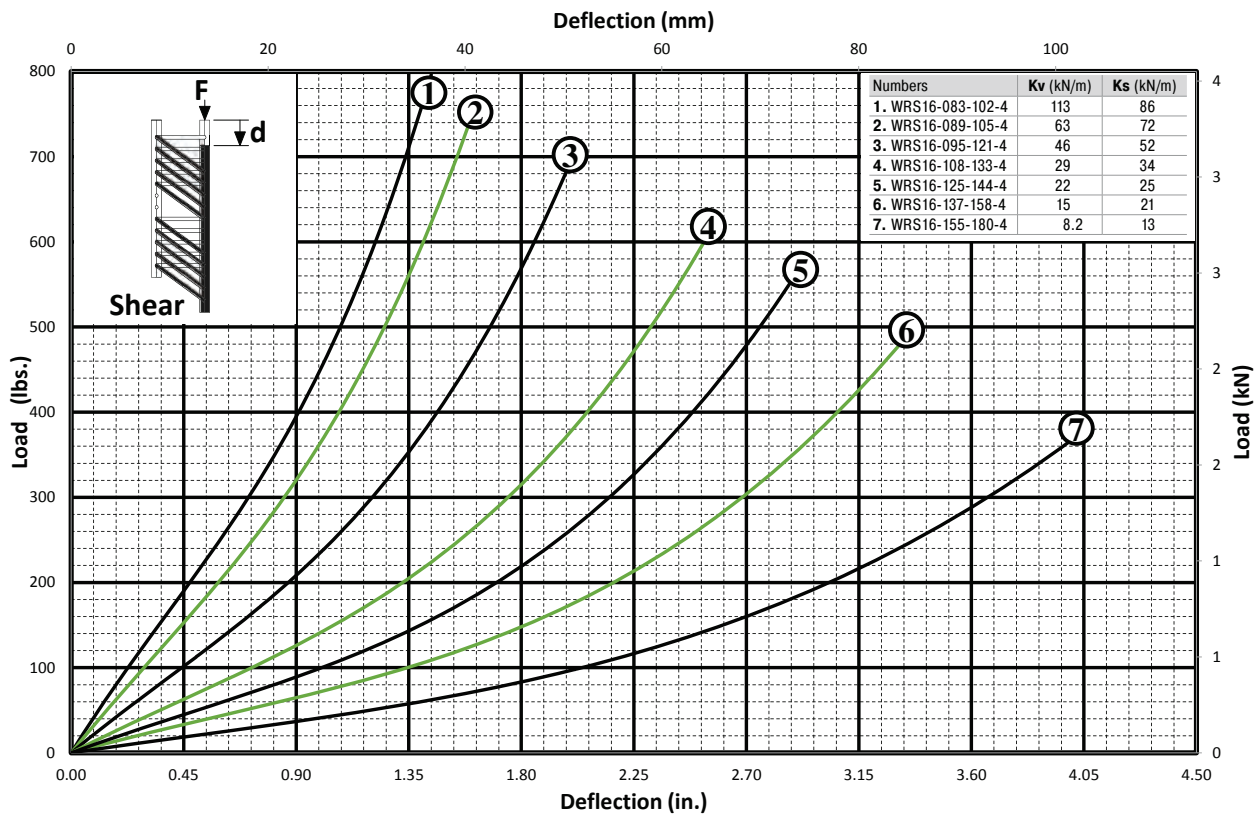
Compression



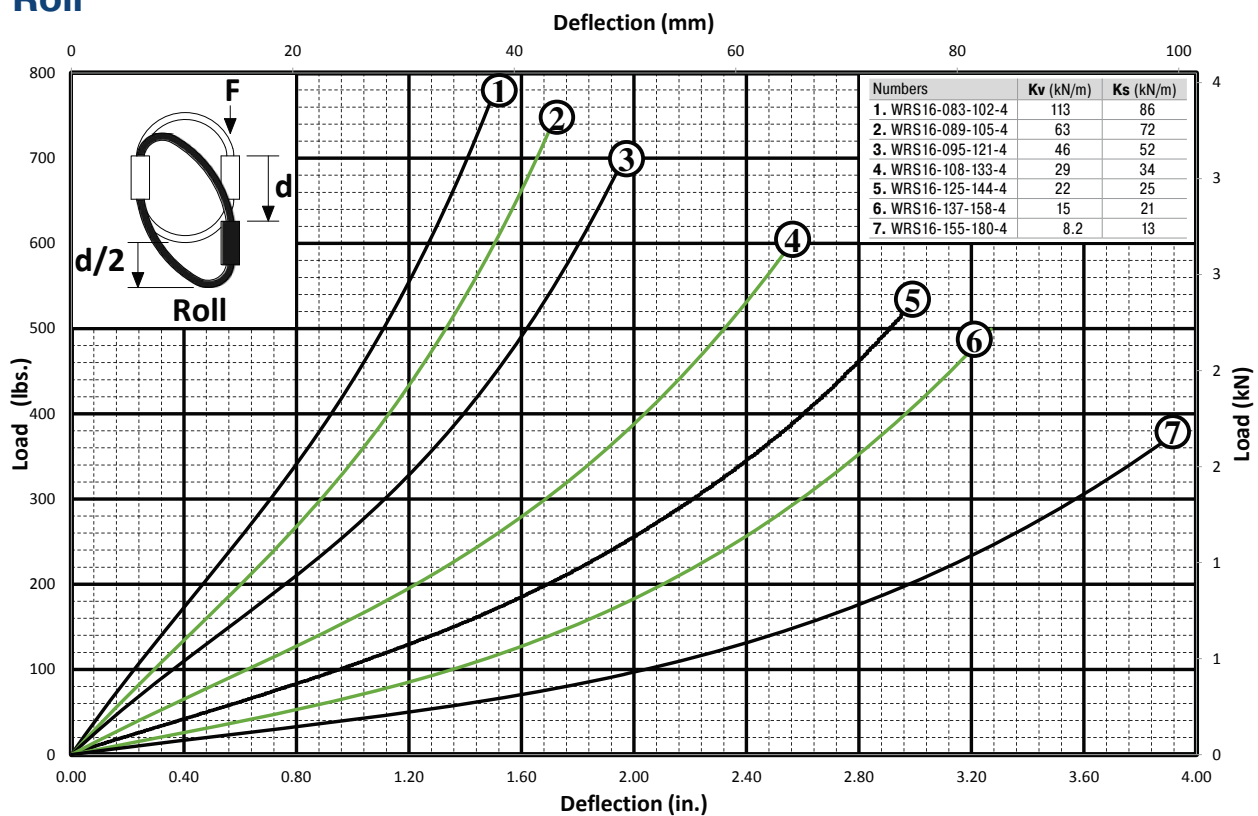
Tension



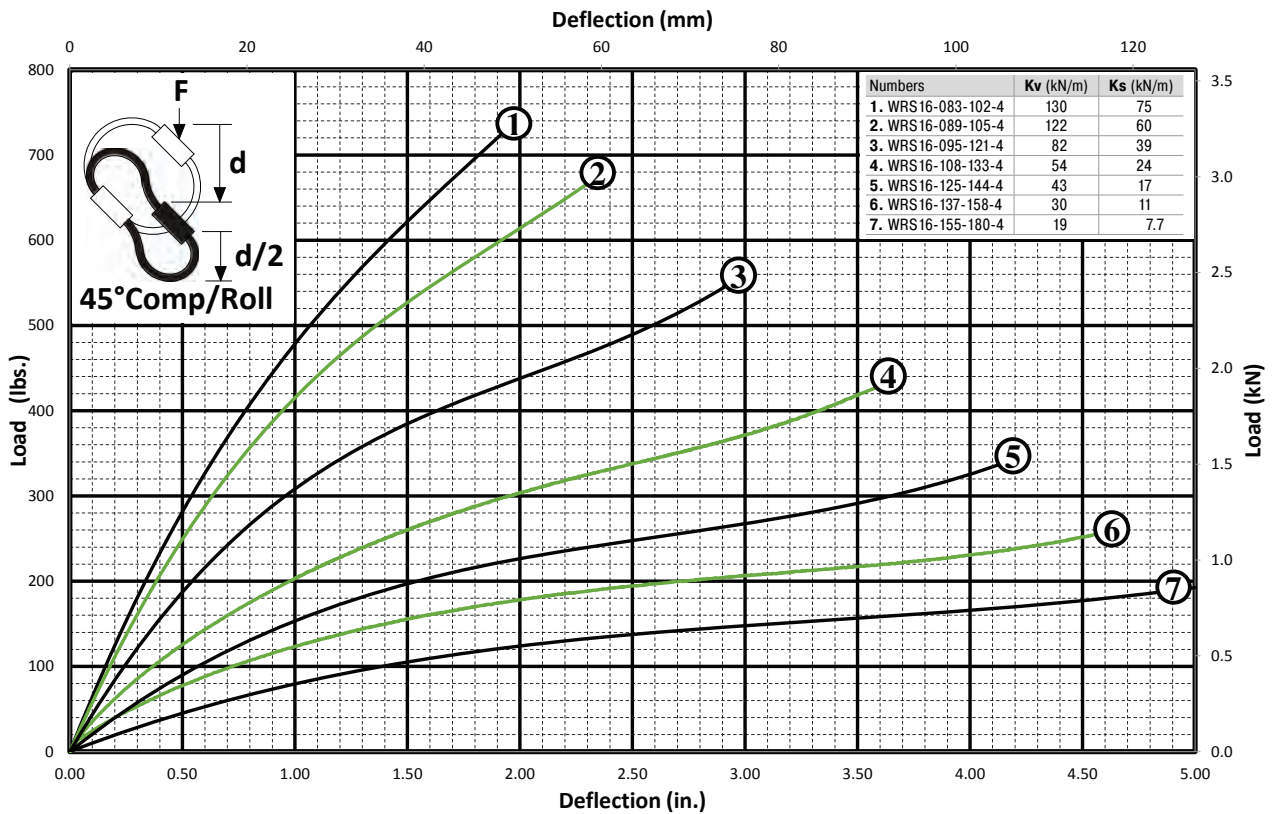
Shear



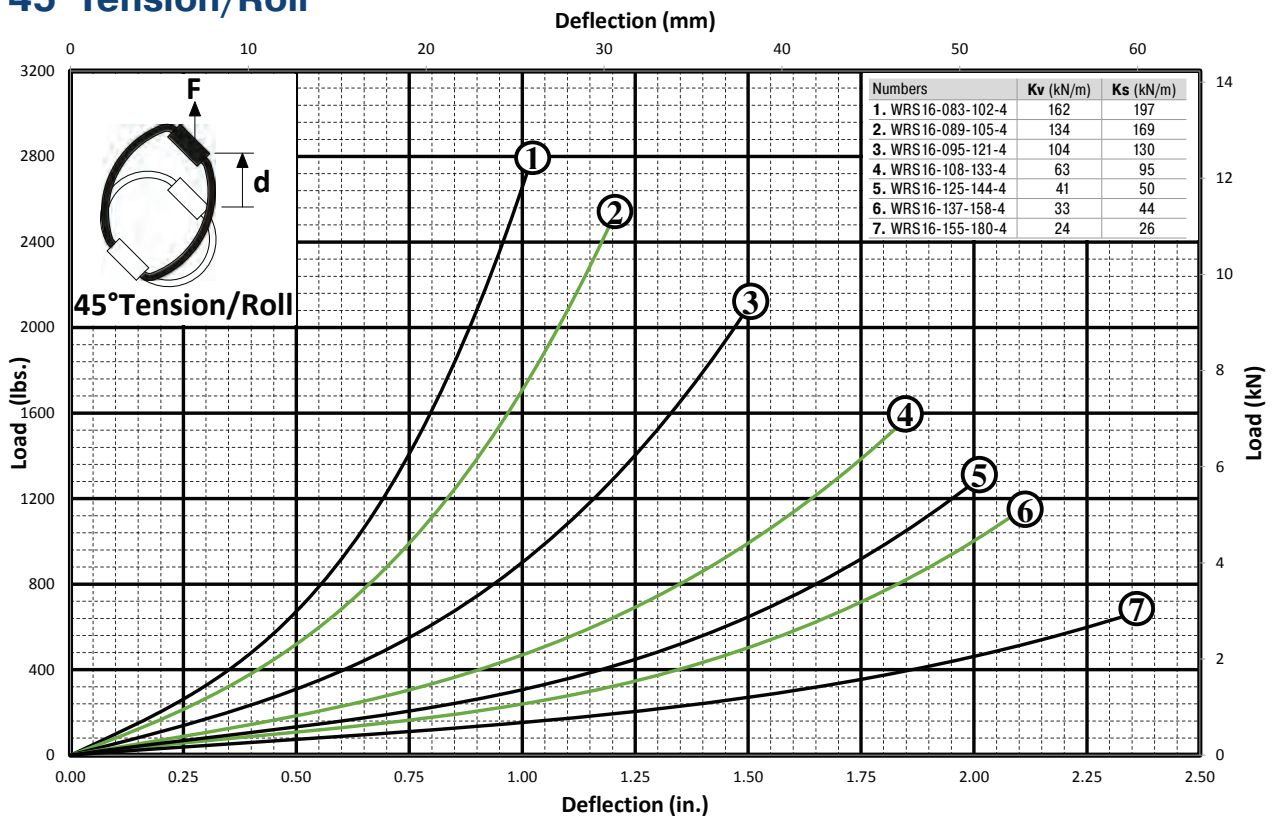
Roll



45° Compression/Roll



45° Tension/Roll



WRS20

Helical Isolator Short

15.88 mm (5/8") Diameter Cable

Features

Rugged all metal construction
Fail safe construction
Long life and maintenance free
Three axis capability (6 dof)
High damping: C/cc $\approx$ 0.15 to 0.20

Operating temperature range

-130°C to +260°C

Material

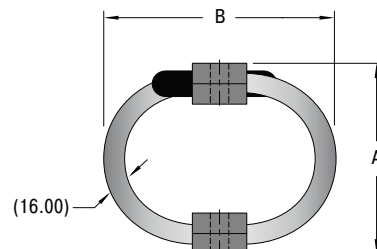
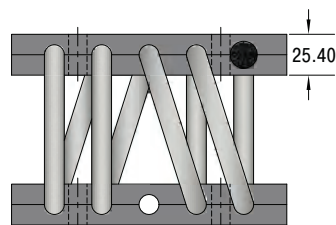
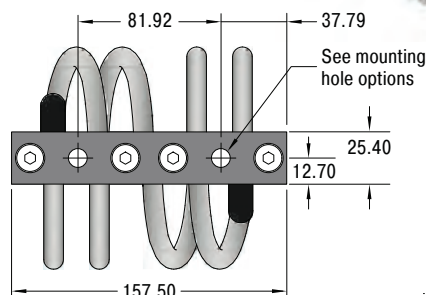
Cable: 300 Series SS per MIL-W-83420 or RR-W-410
Screws: 300 Series SS passivated IAW ASTM A967
Inserts: 300 Series SS (alum bars only)
Retainer bars: Standard: 6061-T6 Alum alloy/
Chem film IAW MIL-DTL-5541, TYPE II, Class 3

Note

Mounting hole tolerances: ± 0.25 mm
Add 0.61 kg to Isolator weight for all stainless steel versions

On request

Special materials, size, mounting holes, finish, etc. available



Performance

TYPEN	A (+/- 0.8) mm	B mm	Compression			Shear/Roll (Average)			Weight kg
			Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	
WRS20-089-102-4	88.9	101.6	614	306	30.5	189	154	30.5	1.44
WRS20-099-112-4	99.1	111.8	496	238	40.6	129	119	40.6	1.48
WRS20-109-135-4	109.2	134.6	393	154	50.8	84	79	50.8	1.59
WRS20-119-152-4	119.4	152.4	222	102	61.0	52	53	61.0	1.87
WRS20-127-165-4	127.0	165.1	178	80	68.6	49	43	68.6	1.98
WRS20-135-178-4	134.6	177.8	161	62	76.2	35	35	76.2	2.11
WRS20-152-197-4	152.4	196.8	131	43	94.0	22	24	94.0	2.32

Ordering Example

Type _____
Model size height _____
Model size wide _____
Number of loops _____
Mounting hole _____

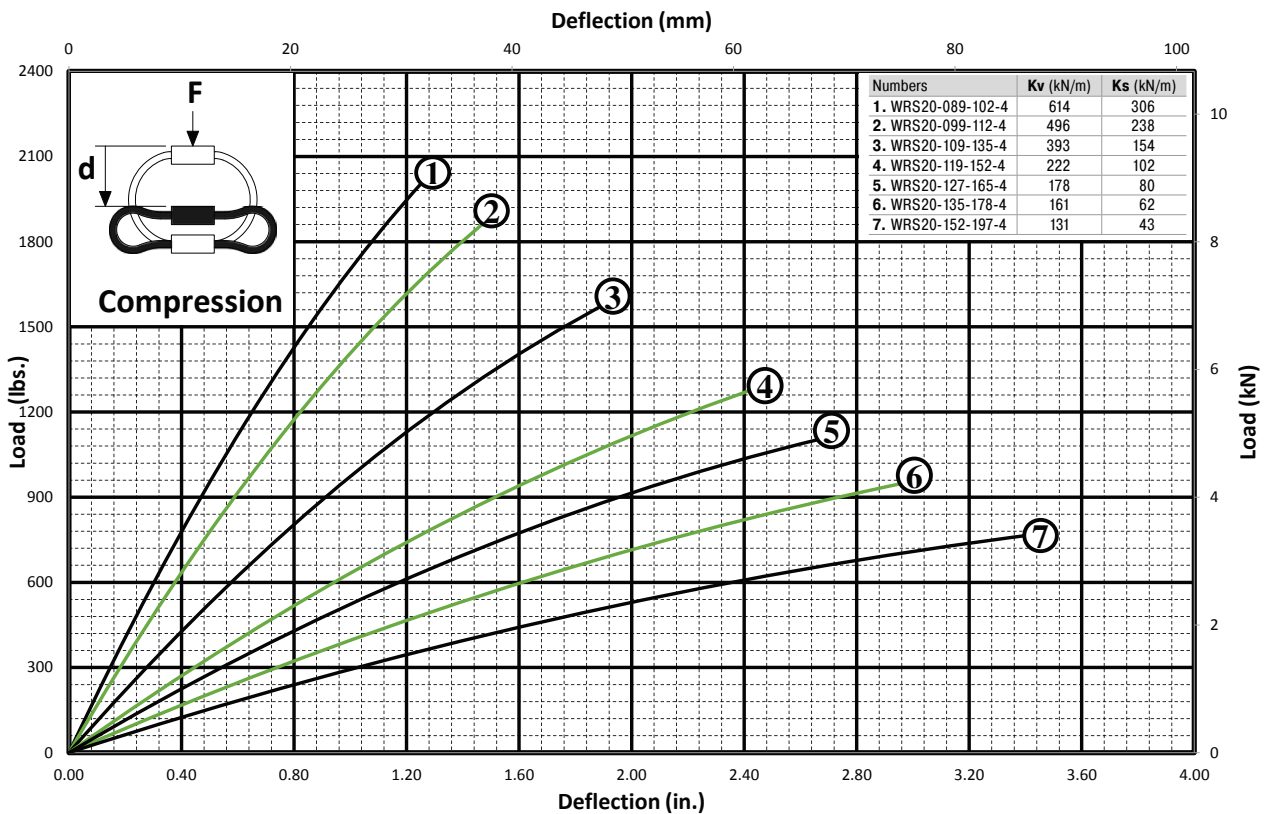
WRS20-089-102-4-A

Mounting Hole Options

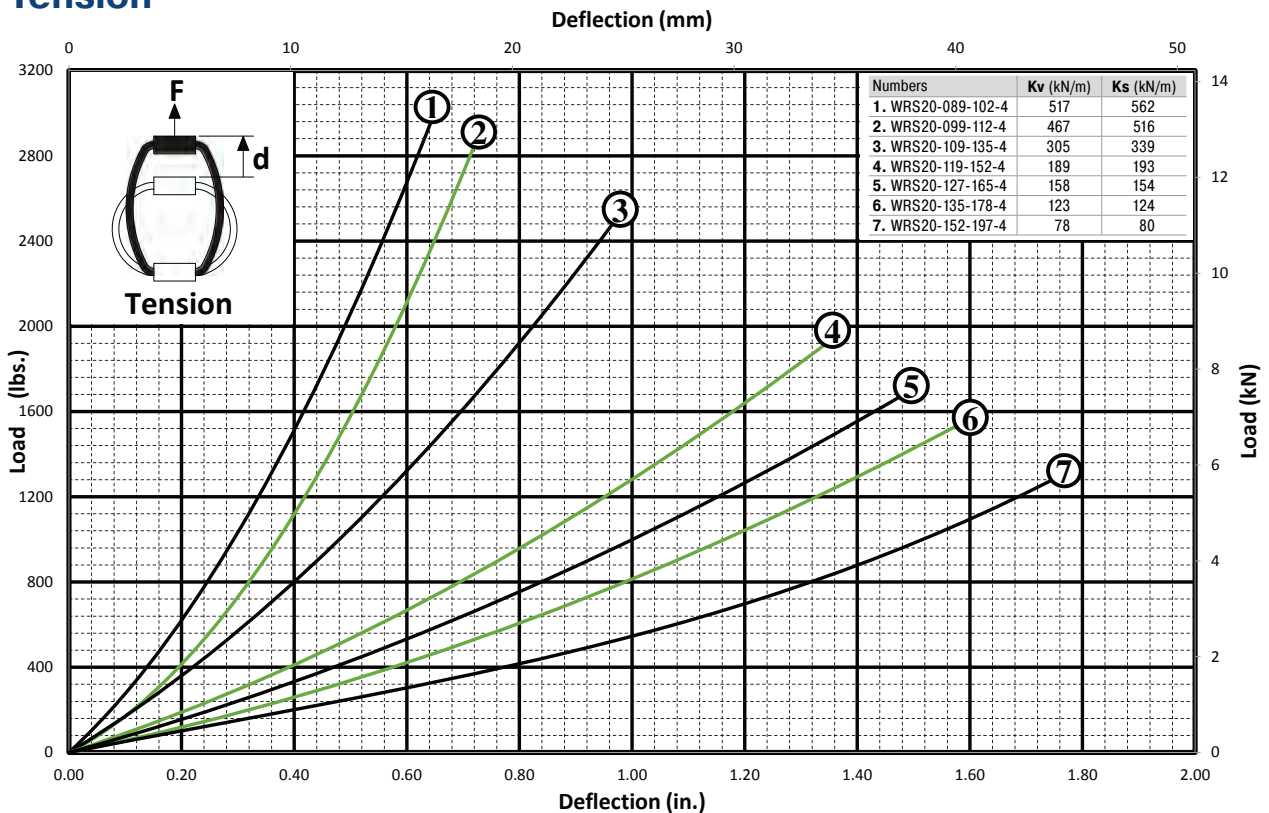
A	D
B	E
C	F

Issue 07.2020 – Specifications subject to change

Compression



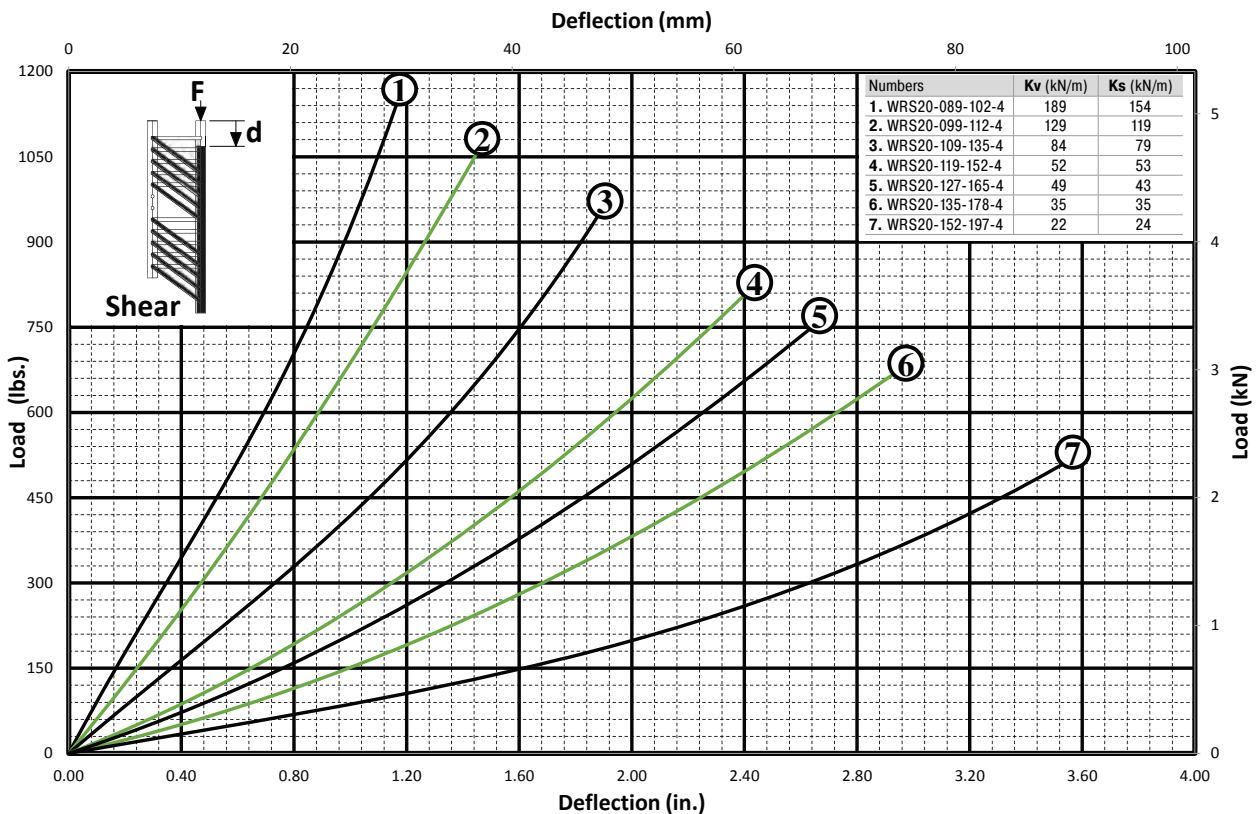
Tension



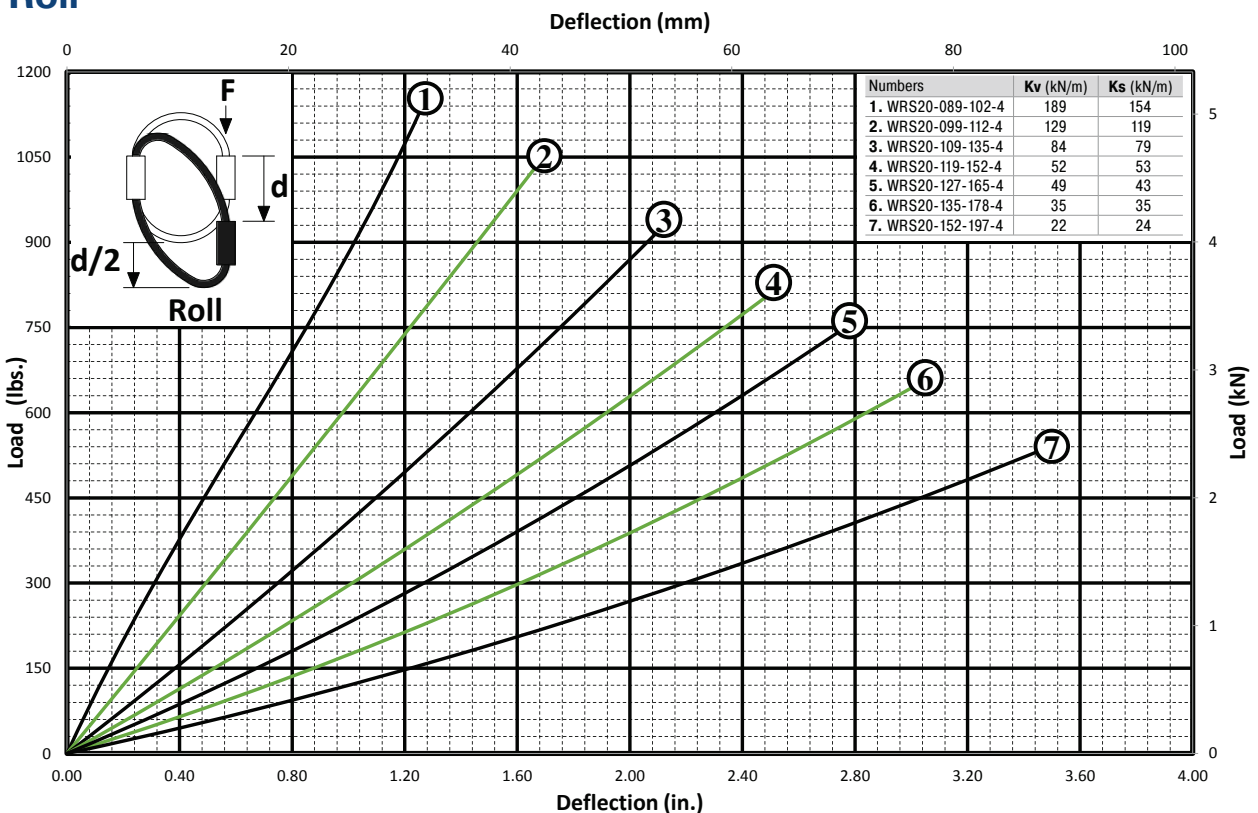
Issue 07/2020 – Specifications subject to change

Helical Isolator Short, 15.88 mm (5/8") Diameter Cable

Shear

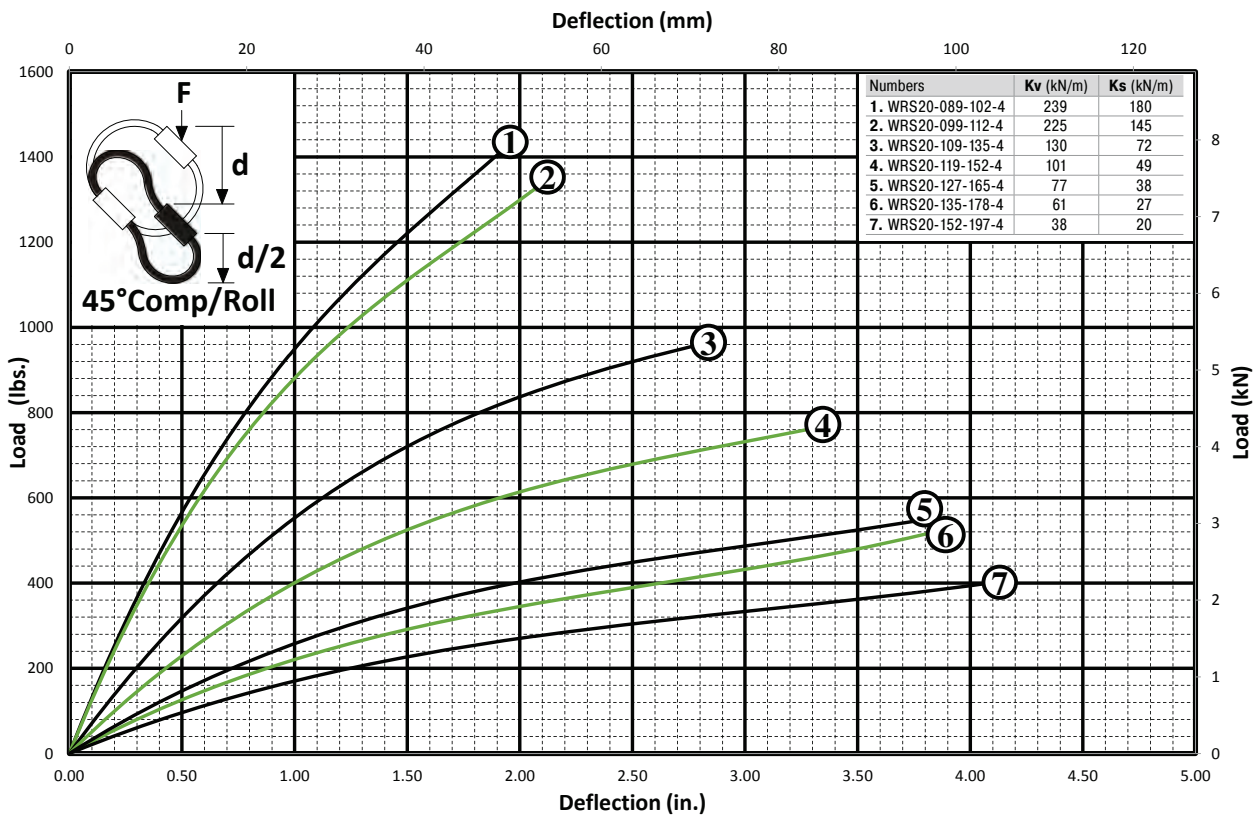


Roll

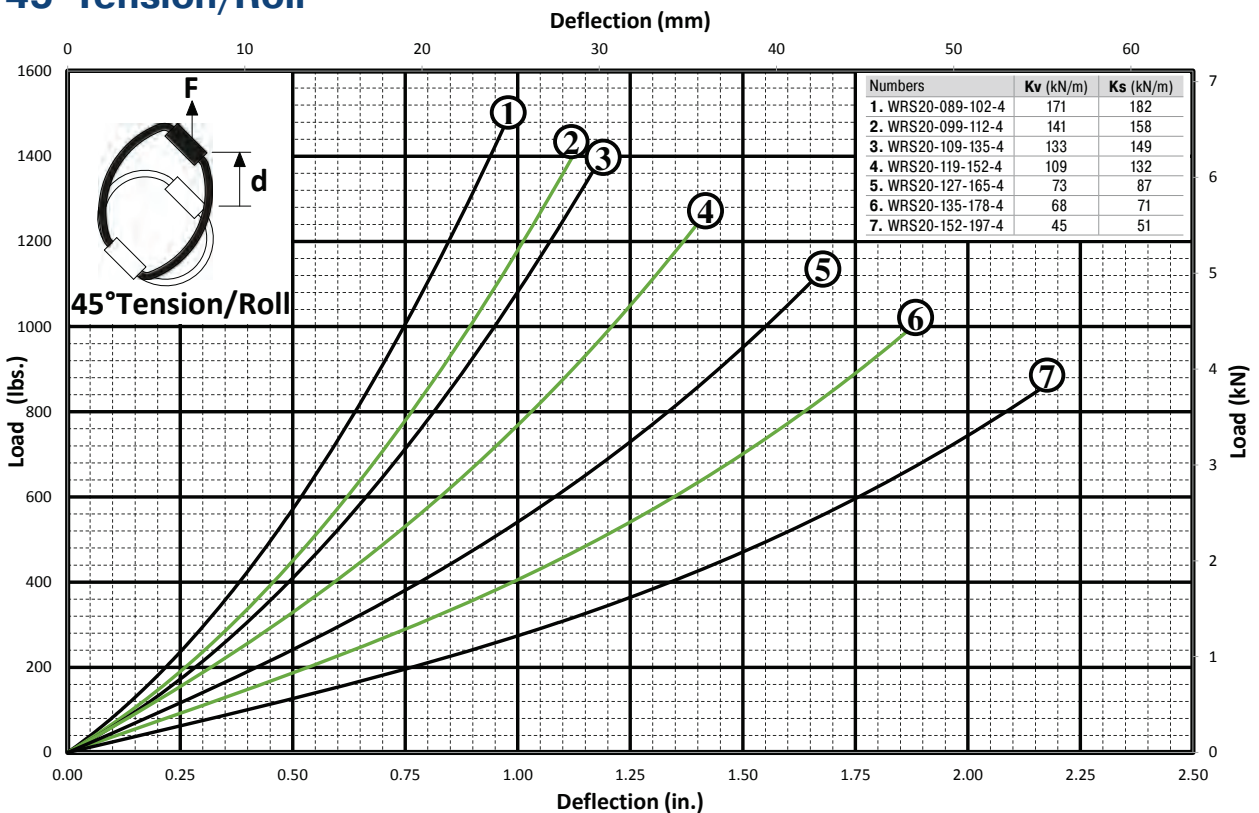


Issue 07/2020 – Specifications subject to change

45° Compression/Roll



45° Tension/Roll



WRS24

Helical Isolator Short

19.05 mm (3/4") Diameter Cable

Features

Rugged all metal construction
Fail safe construction
Long life and maintenance free
Three axis capability (6 dof)
High damping: C/cc $\approx$ 0.15 to 0.20

Operating temperature range

-130°C to +260°C

Material

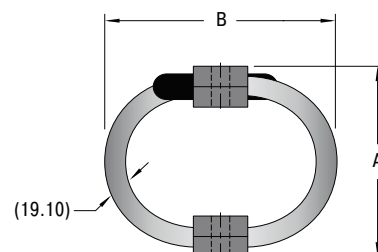
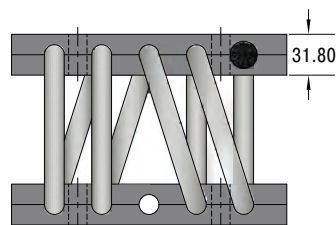
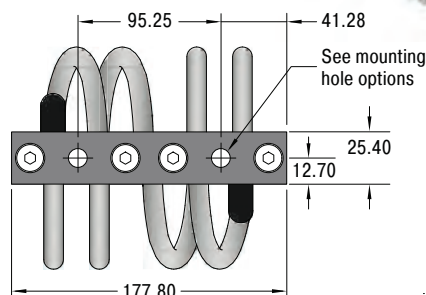
Cable: 300 Series SS per MIL-W-83420 or RR-W-410
Screws: 300 Series SS passivated IAW ASTM A967
Inserts: 300 Series SS (alum bars only)
Retainer bars: Standard: 6061-T6 Alum alloy/
Chem film IAW MIL-DTL-5541, TYPE II, Class 3

Note

Mounting hole tolerances: ± 0.25 mm
Add 0.92 kg to Isolator weight for all stainless steel versions

On request

Special materials, size, mounting holes, finish, etc. available



Performance

TYPEN	A (+/- 0.8) mm	B mm	Compression			Shear/Roll (Average)			Weight kg
			Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	
WRS24-102-108-4	101.6	108.0	549	334	30.5	210	221	30.5	2.38
WRS24-112-118-4	111.8	118.1	471	322	40.6	203	191	40.6	2.53
WRS24-122-140-4	121.9	139.7	404	226	50.8	153	128	50.8	2.72
WRS24-131-159-4	131.1	158.8	354	183	61.0	106	100	61.0	2.87
WRS24-140-172-4	139.7	171.5	294	155	68.6	89	94	68.6	2.97
WRS24-152-210-4	152.4	209.6	211	117	81.3	67	71	81.3	3.11

Ordering Example

Type _____
Model size height _____
Model size wide _____
Number of loops _____
Mounting hole _____

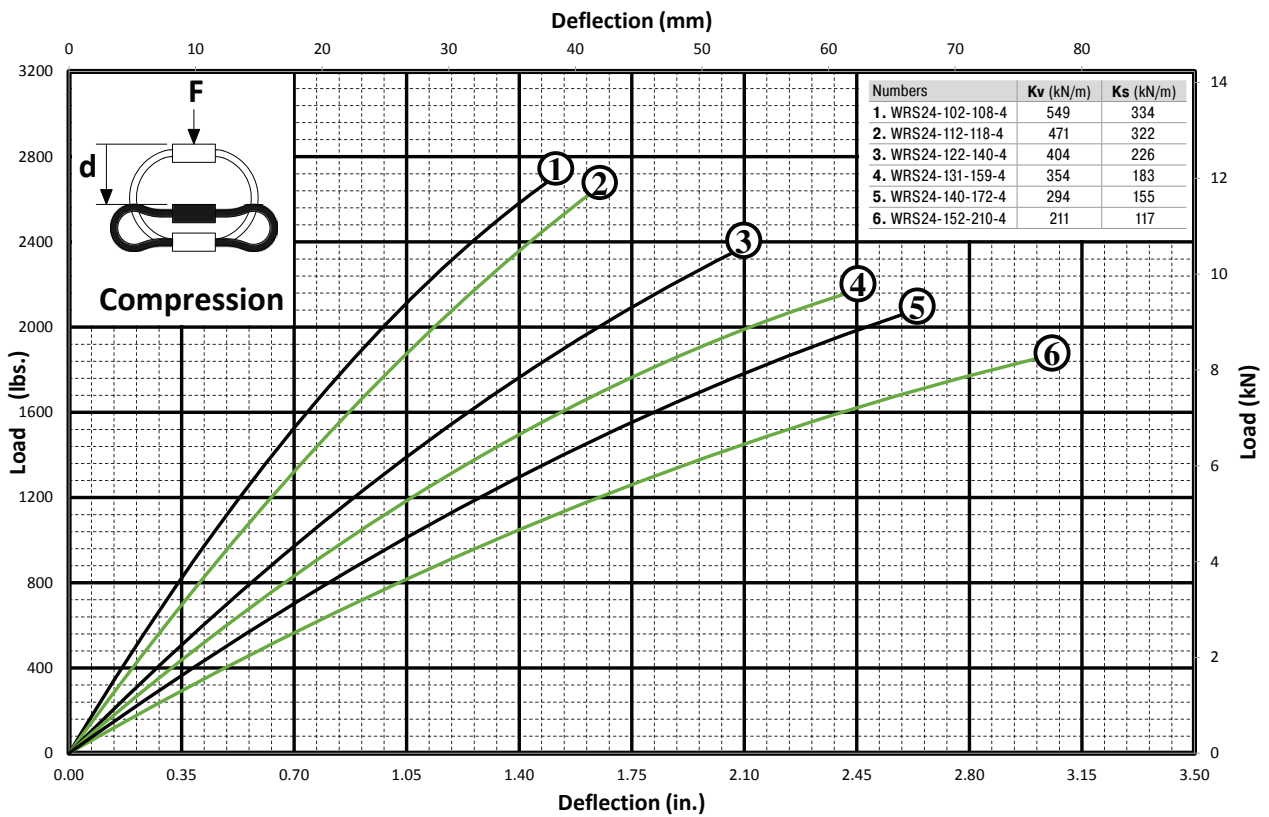
WRS24-102-108-4-A

Mounting Hole Options

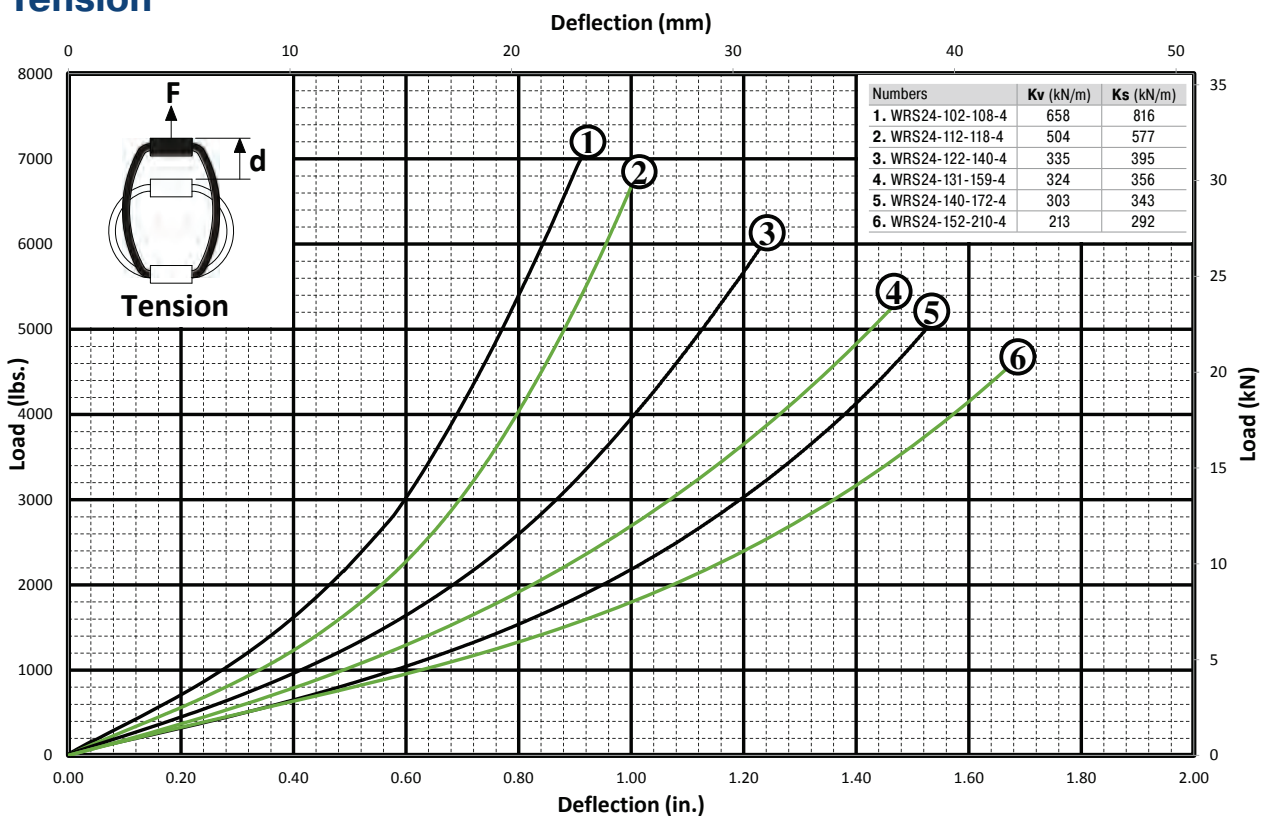
A	D
B	E
C	F

Issue 07/2020 – Specifications subject to change

Compression

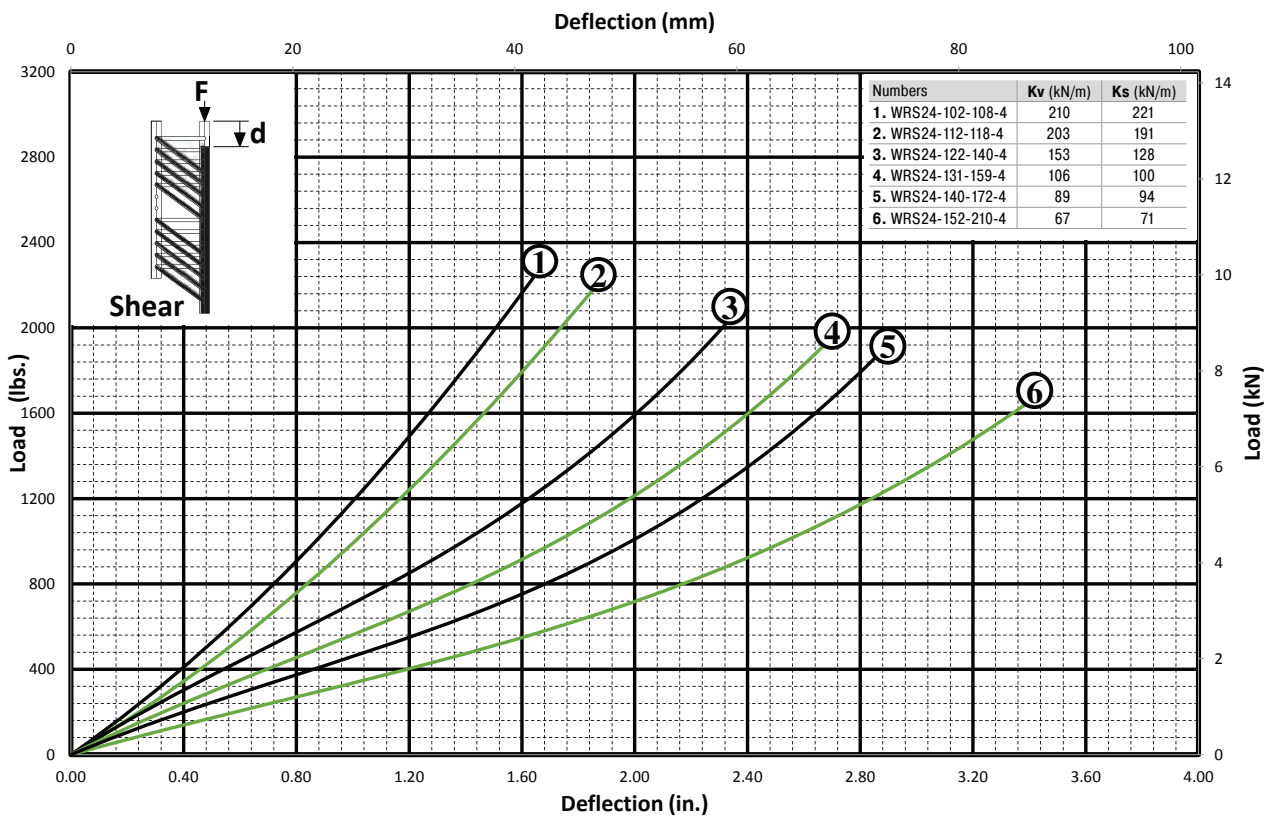


Tension

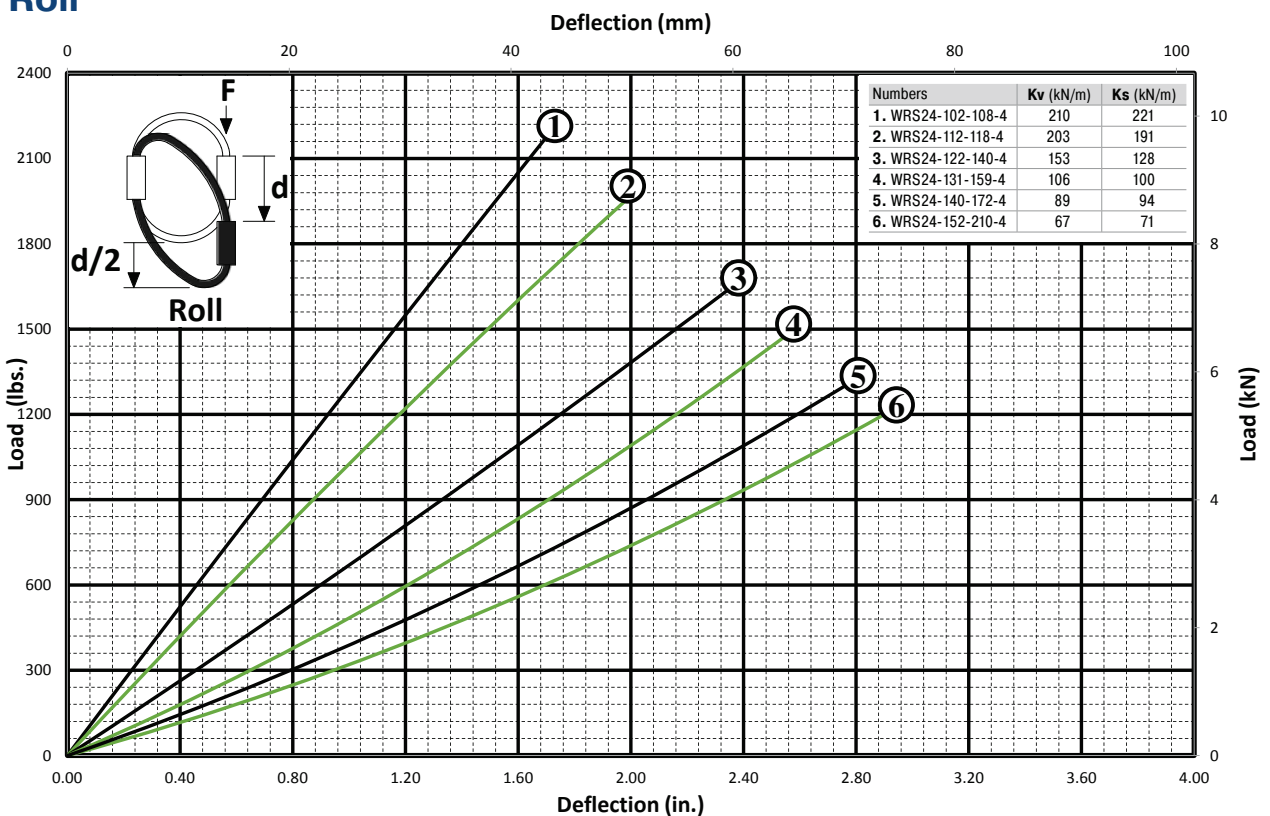


Issue 07/2020 – Specifications subject to change

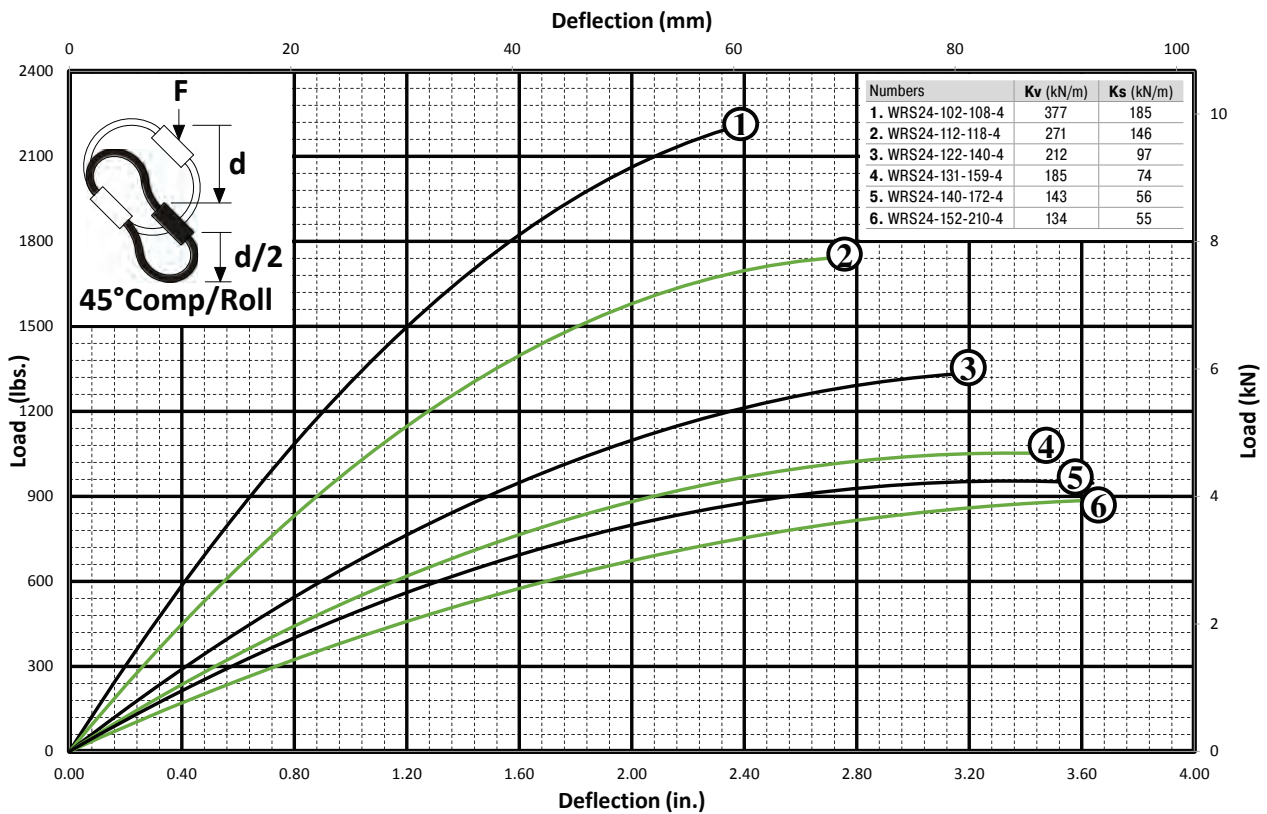
Shear



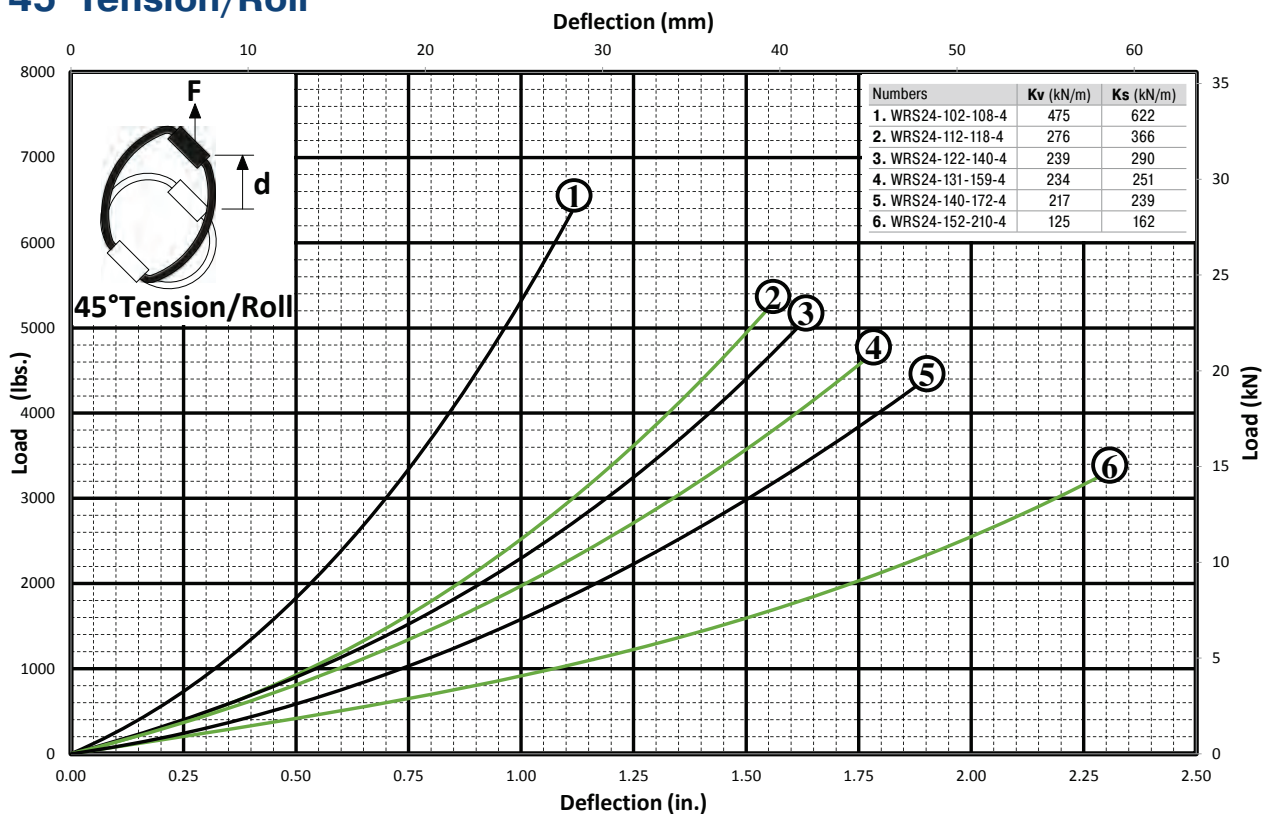
Roll



45° Compression/Roll



45° Tension/Roll



WRS28

Helical Isolator Short

22.23 mm (7/8") Diameter Cable

Features

Rugged all metal construction
Fail safe construction
Long life and maintenance free
Three axis capability (6 dof)
High damping: C/cc $\approx$ 0.15 to 0.20

Operating temperature range

-130°C to +260°C

Material

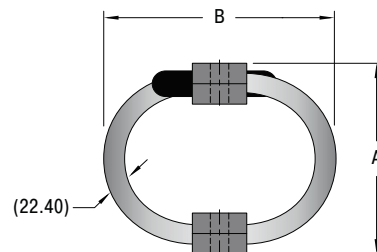
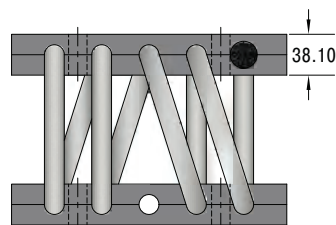
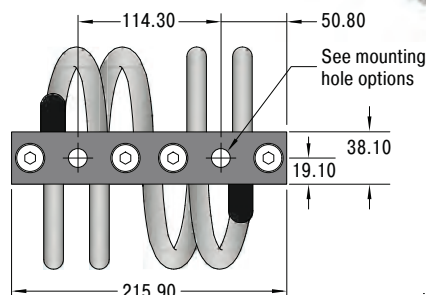
Cable: 300 Series SS per MIL-W-83420 or RR-W-410
Screws: 300 Series SS passivated IAW ASTM A967
Inserts: 300 Series SS (alum bars only)
Retainer bars: Standard: 6061-T6 Alum alloy/
Chem film IAW MIL-DTL-5541, TYPE II, Class 3

Note

Mounting hole tolerances: ± 0.25 mm
Add 2.05 kg to Isolator weight for all stainless steel versions

On request

Special materials, size, mounting holes, finish, etc. available



Performance

TYPEN	A (+/- 0.8) mm	B mm	Compression			Shear/Roll (Average)			Weight kg
			Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	
WRS28-133-172-4	133.4	171.5	547	363	45.7	173	187	45.7	4.54
WRS28-152-178-4	152.4	177.8	484	326	66.0	139	154	66.0	4.84
WRS28-159-184-4	158.8	184.2	368	241	71.1	122	136	71.1	4.91
WRS28-178-197-4	177.8	196.9	258	166	88.9	68	76	88.9	5.42
WRS28-191-210-4	190.5	209.6	222	119	101.6	58	64	101.6	5.70
WRS28-216-235-4	215.9	235.0	161	78	127.0	41	44	127.0	6.10

Ordering Example

Type _____
Model size height _____
Model size wide _____
Number of loops _____
Mounting hole _____

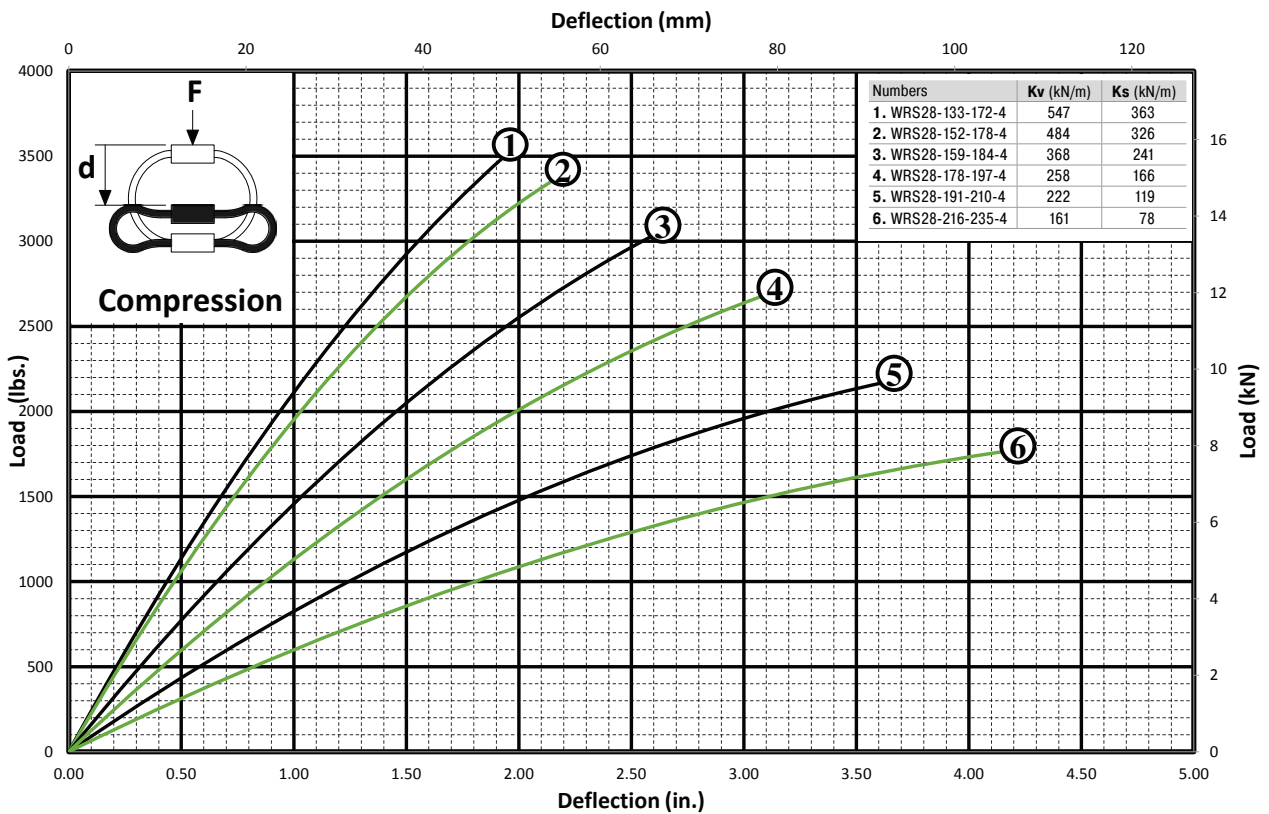
WRS28-133-172-4-A

Mounting Hole Options

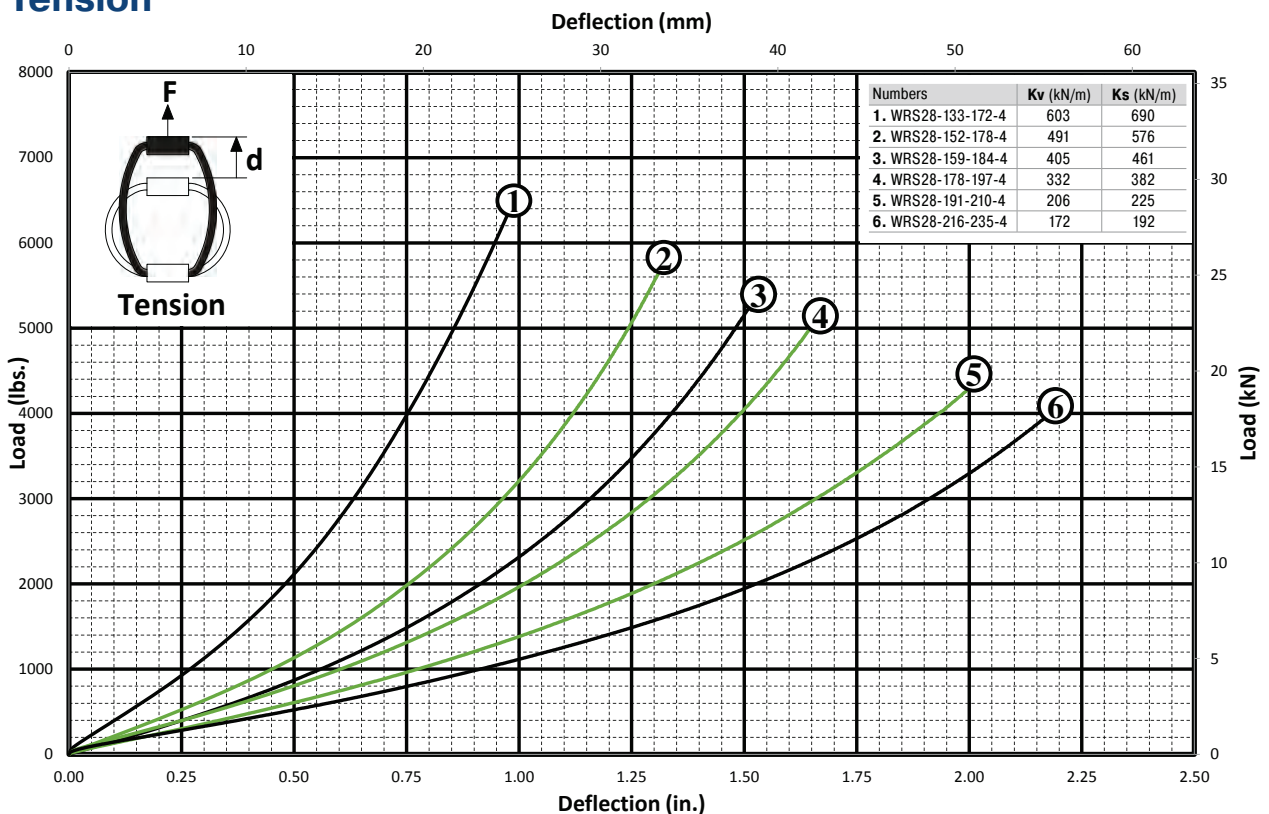
A	D
B	E
C	F

Issue 07/2020 – Specifications subject to change

Compression

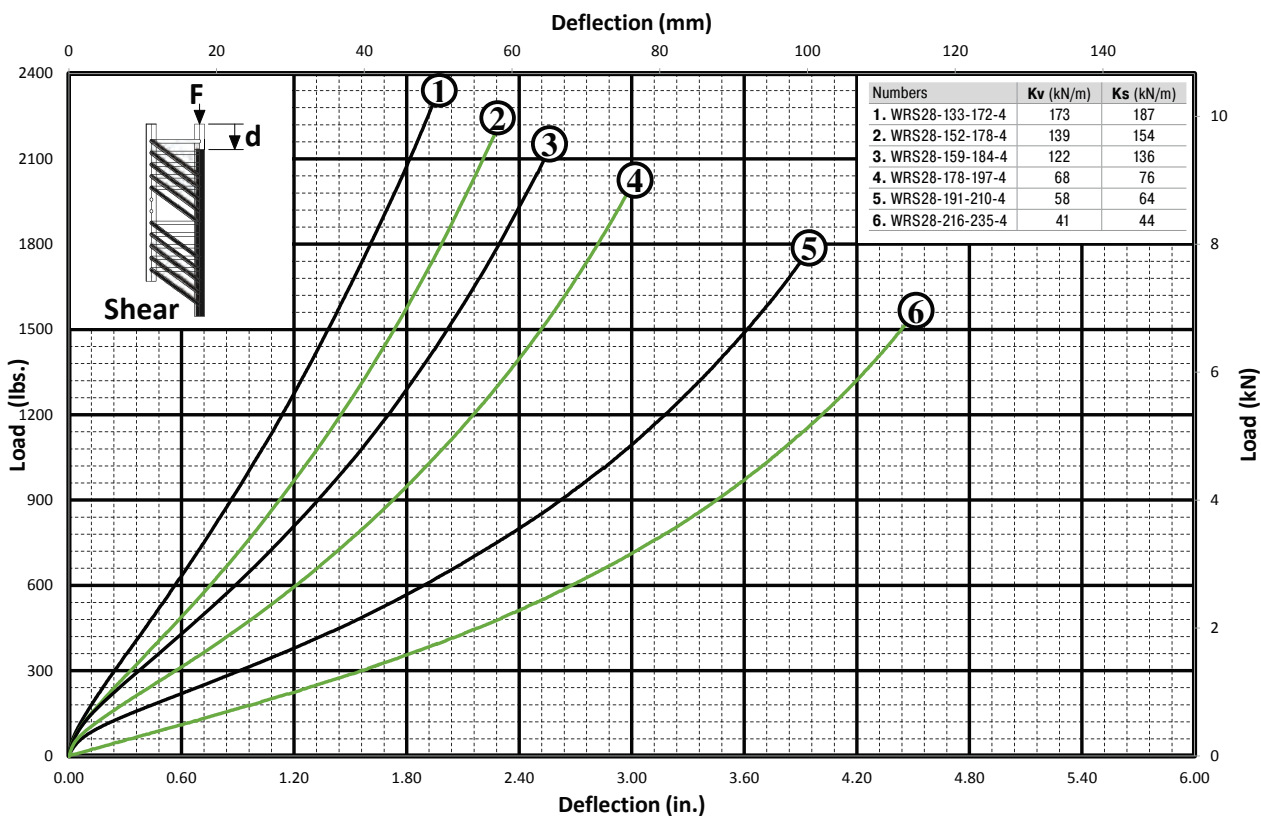


Tension

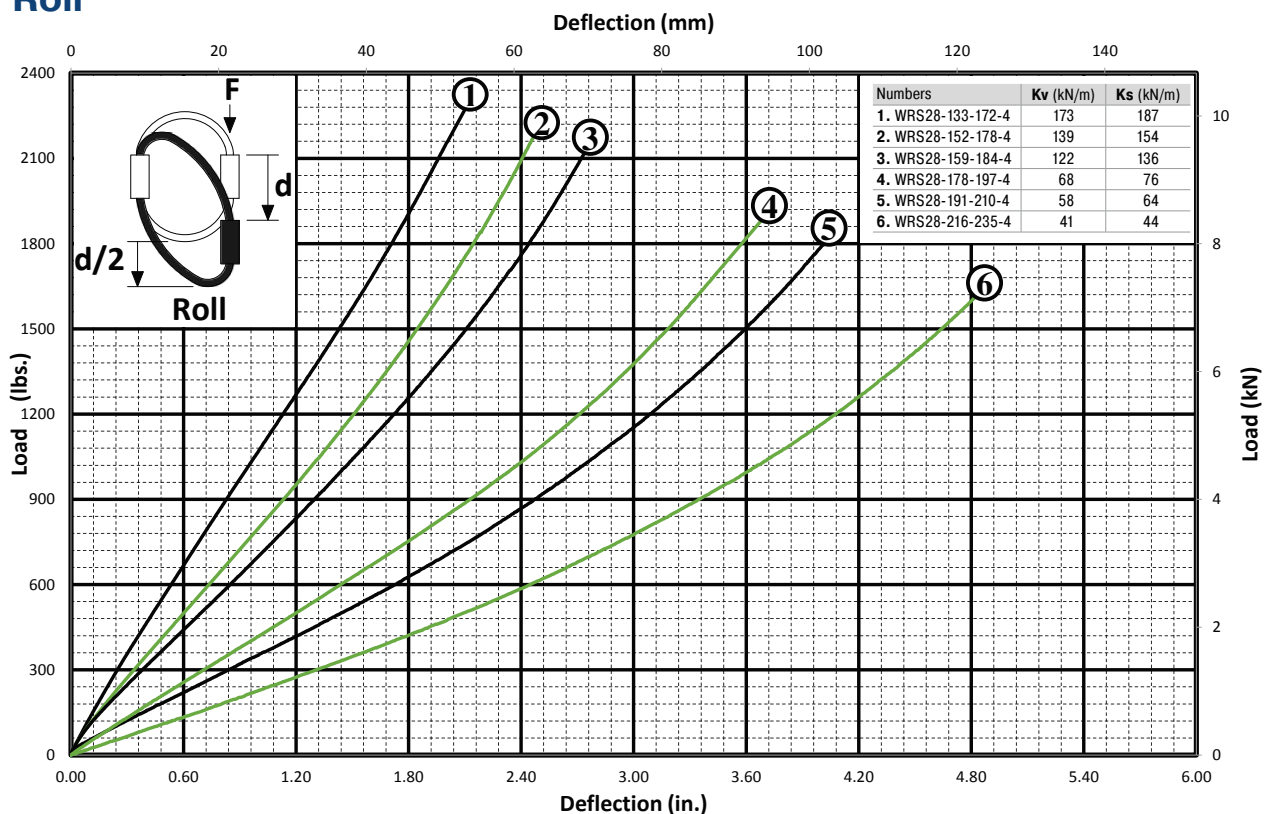


Issue 07/2020 – Specifications subject to change

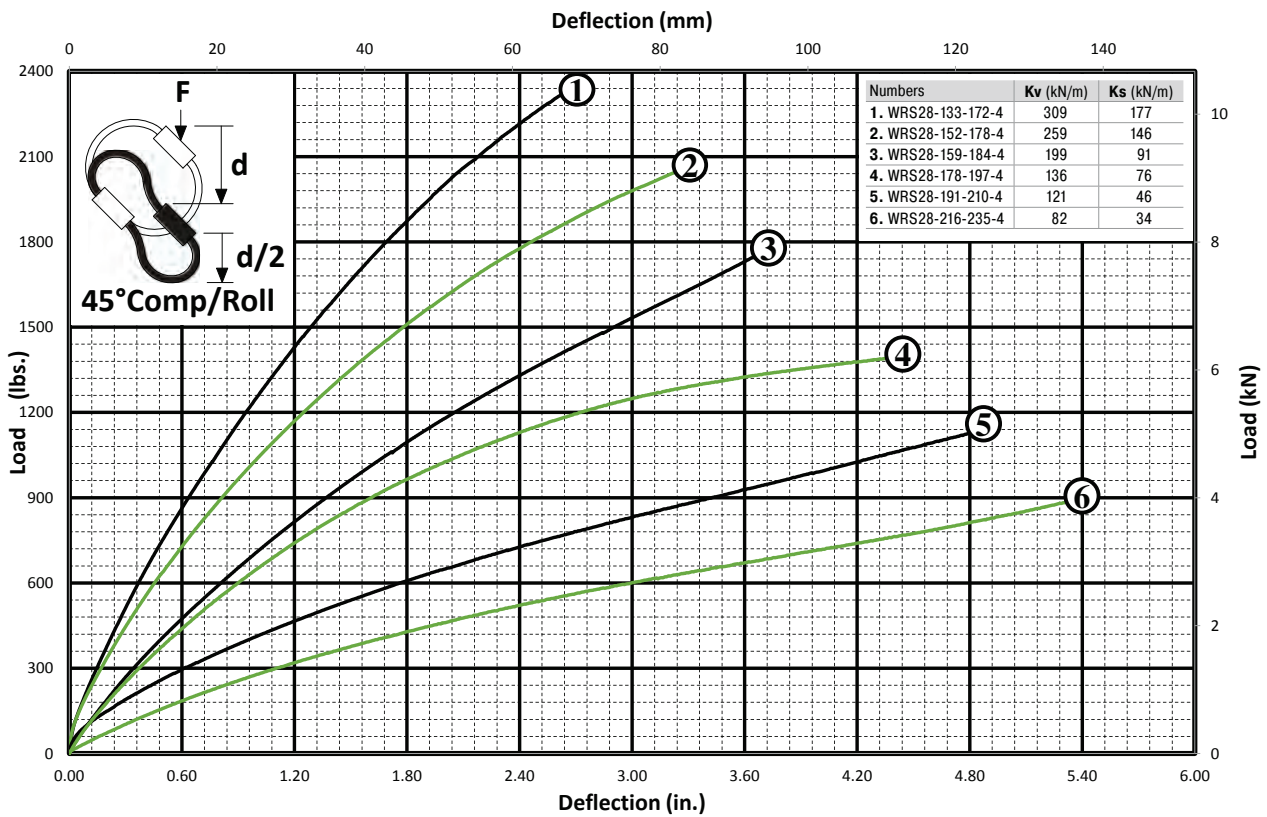
Shear



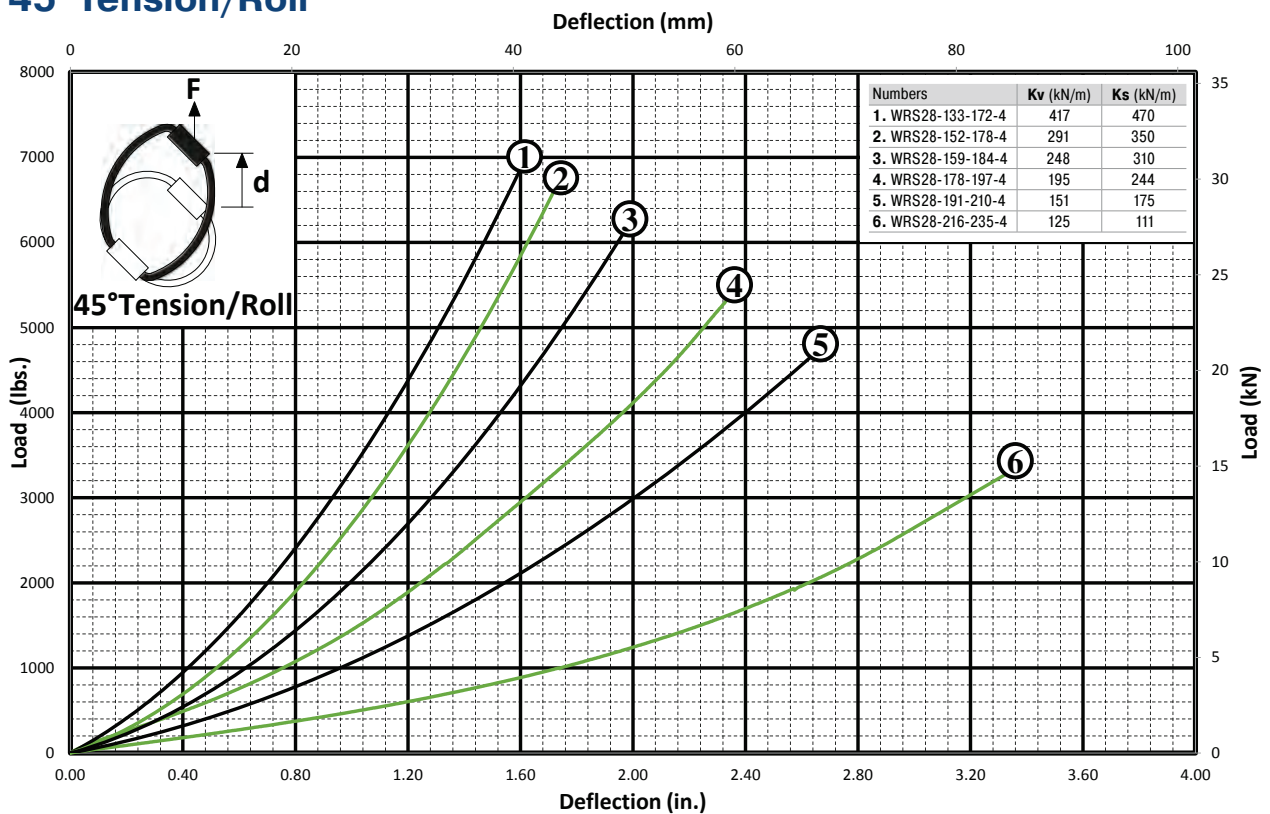
Roll



45° Compression/Roll



45° Tension/Roll



WRS32

Helical Isolator Short

25.40 mm (1") Diameter Cable

Features

Rugged all metal construction
Fail safe construction
Long life and maintenance free
Three axis capability (6 dof)
High damping: C/cc $\approx$ 0.15 to 0.20

Operating temperature range

-130°C to +260°C

Material

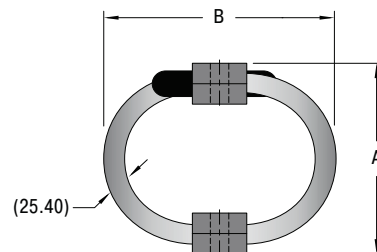
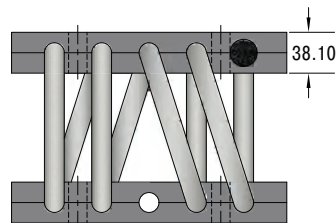
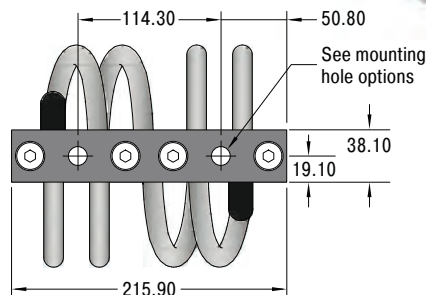
Cable: 300 Series SS per MIL-W-83420 or RR-W-410
Screws: 300 Series SS passivated IAW ASTM A967
Inserts: 300 Series SS (alum bars only)
Retainer bars: Standard: 6061-T6 Alum alloy/
Chem film IAW MIL-DTL-5541, TYPE II, Class 3

Note

Mounting hole tolerances: ± 0.25 mm
Add 1.87 kg to Isolator weight for all stainless steel versions

On request

Special materials, size, mounting holes, finish, etc. available



Performance

TYPEN	A (+/- 0.8) mm	B mm	Compression			Shear/Roll (Average)			Weight kg
			Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	Kv (Vibe) kN/m	Ks (Shock) kN/m	Deflection max. mm	
WRS32-133-178-4	133.4	177.8	950	541	45.7	425	280	45.7	5.66
WRS32-152-184-4	152.4	184.2	804	457	66.0	333	225	66.0	5.86
WRS32-159-191-4	158.8	190.5	655	363	71.1	319	210	71.1	6.04
WRS32-178-203-4	177.8	203.2	375	205	88.9	228	153	88.9	6.45
WRS32-191-216-4	190.5	215.9	331	184	101.6	179	110	101.6	7.08
WRS32-216-241-4	215.9	241.3	251	138	127.0	125	80	127.0	7.67

Ordering Example

Type _____
Model size height _____
Model size wide _____
Number of loops _____
Mounting hole _____

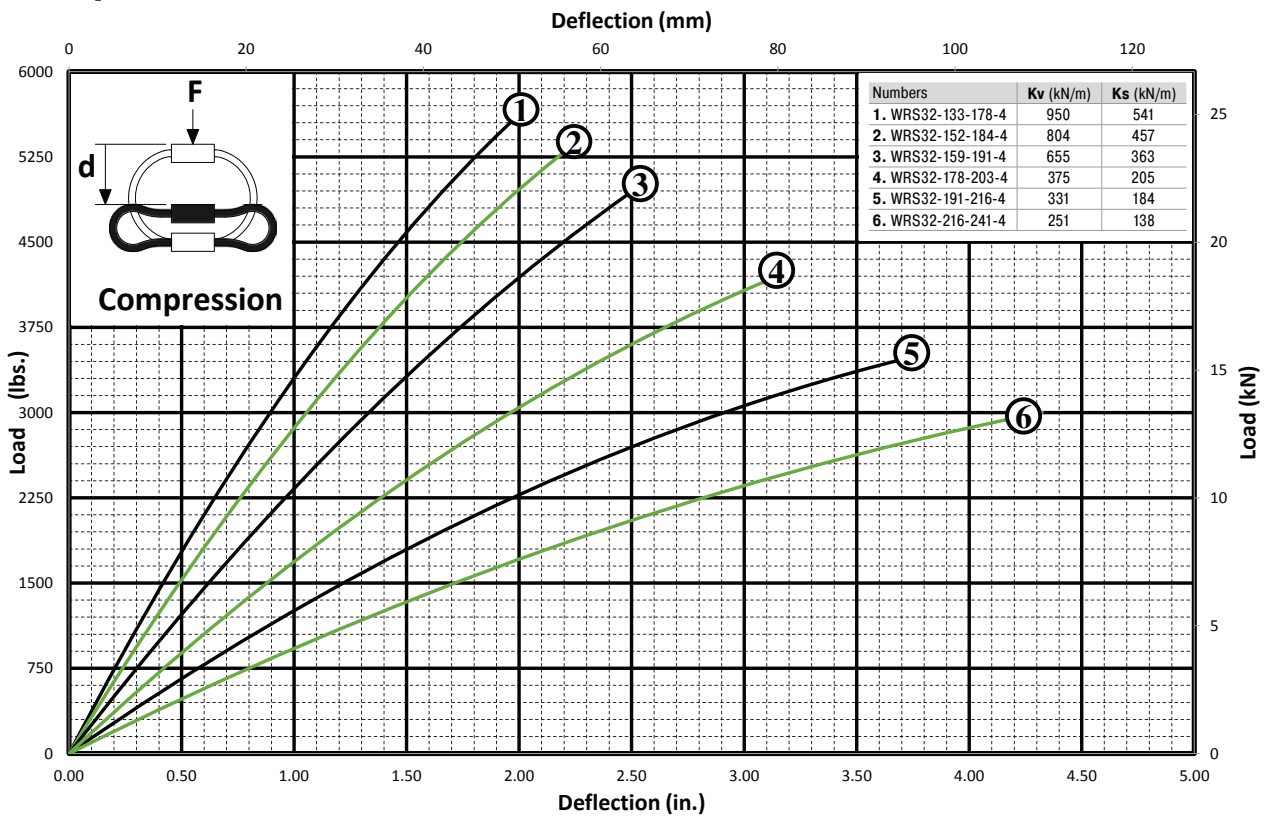
WRS32-133-178-4-A

Mounting Hole Options

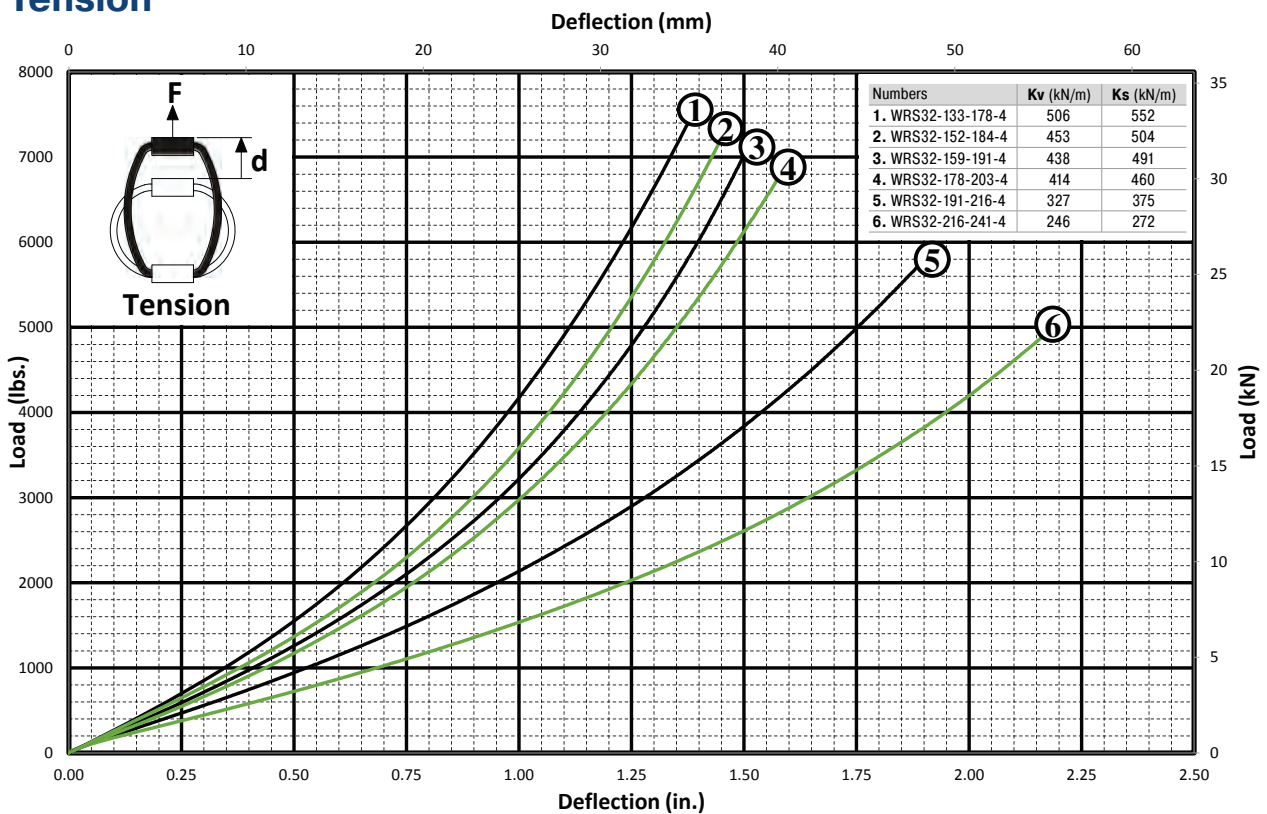
A	D
B	E
C	F

Issue 07/2020 – Specifications subject to change

Compression



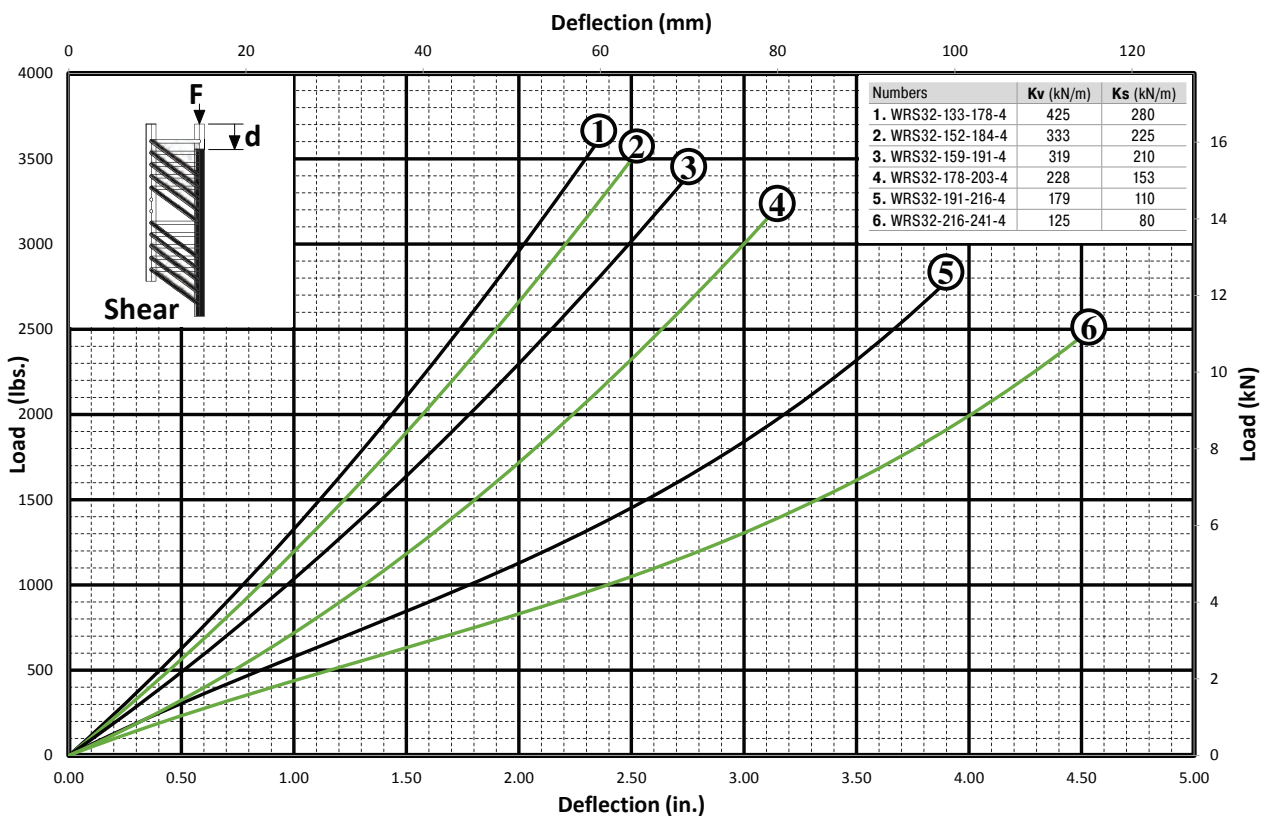
Tension



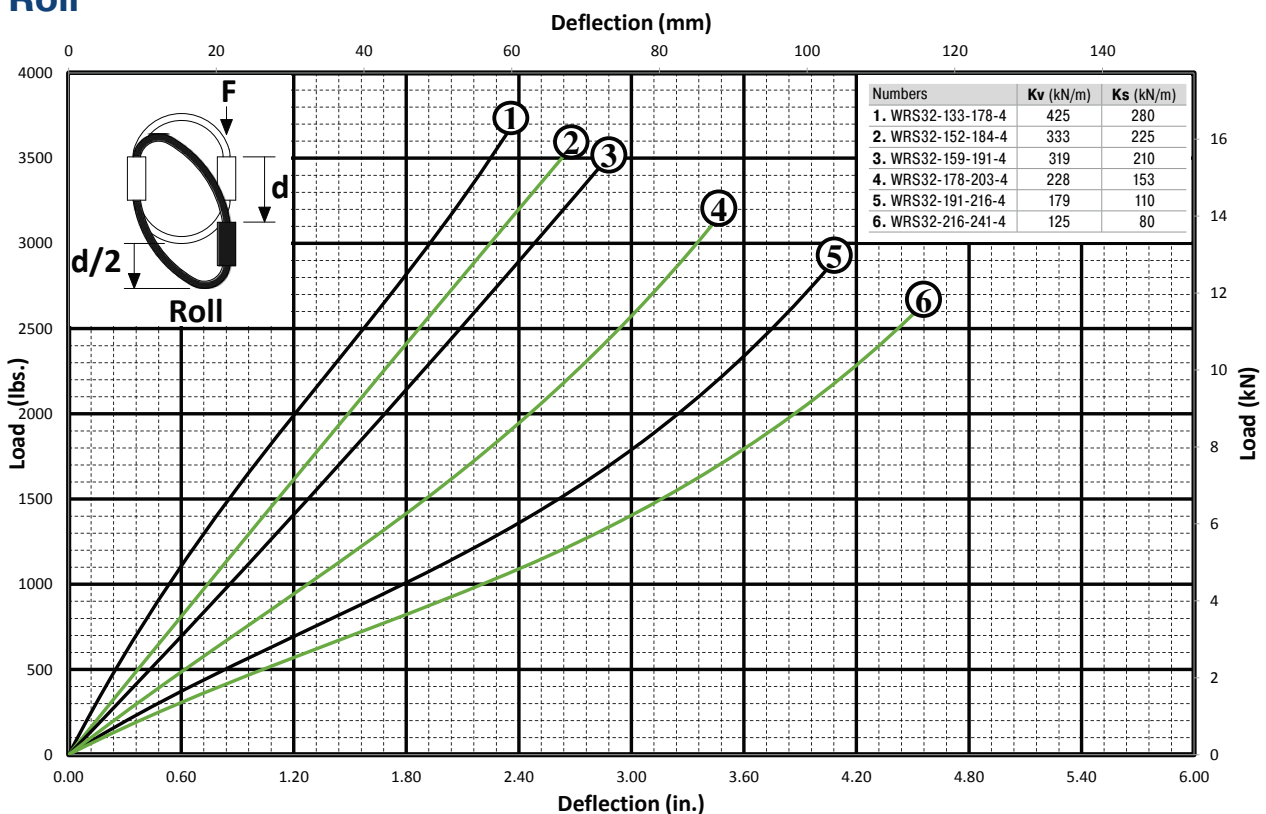
Issue 07/2020 – Specifications subject to change

Helical Isolator Short, 25.40 mm (1") Diameter Cable

Shear

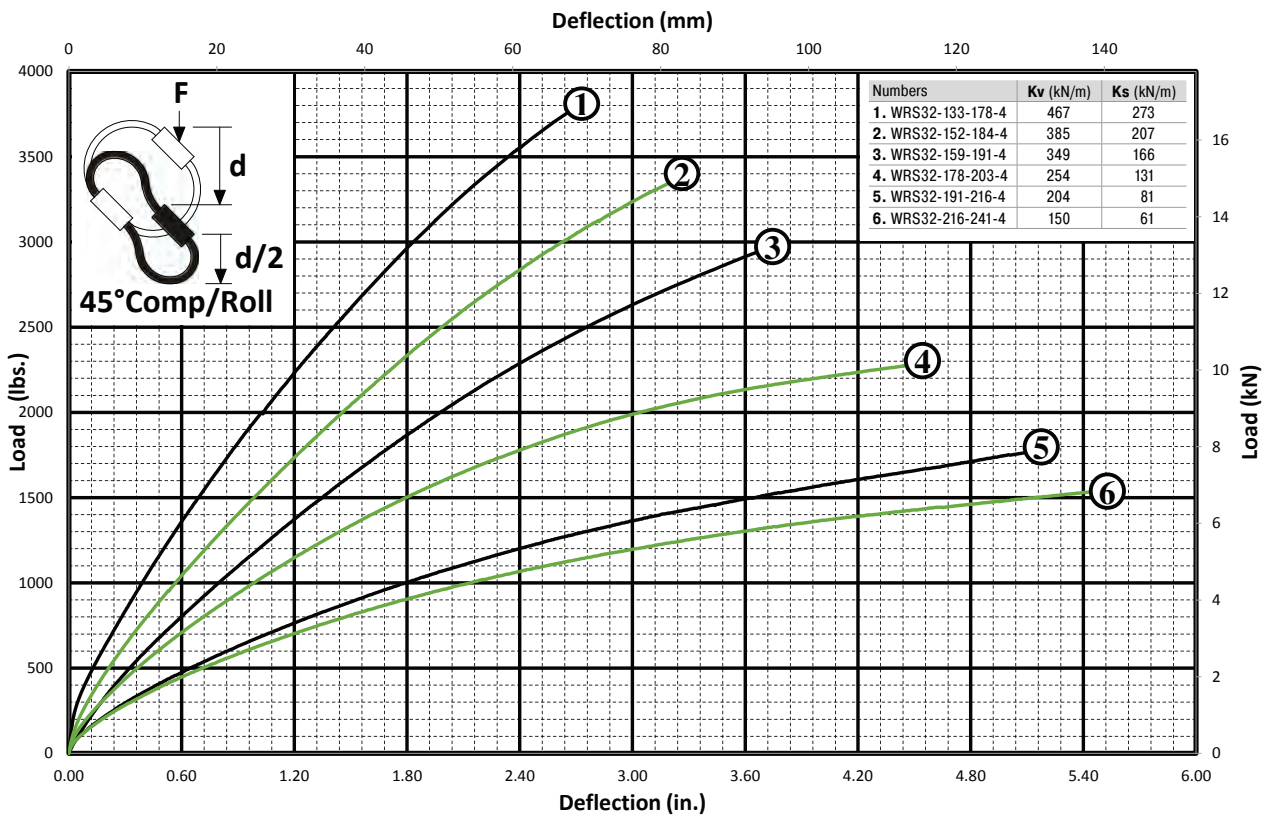


Roll

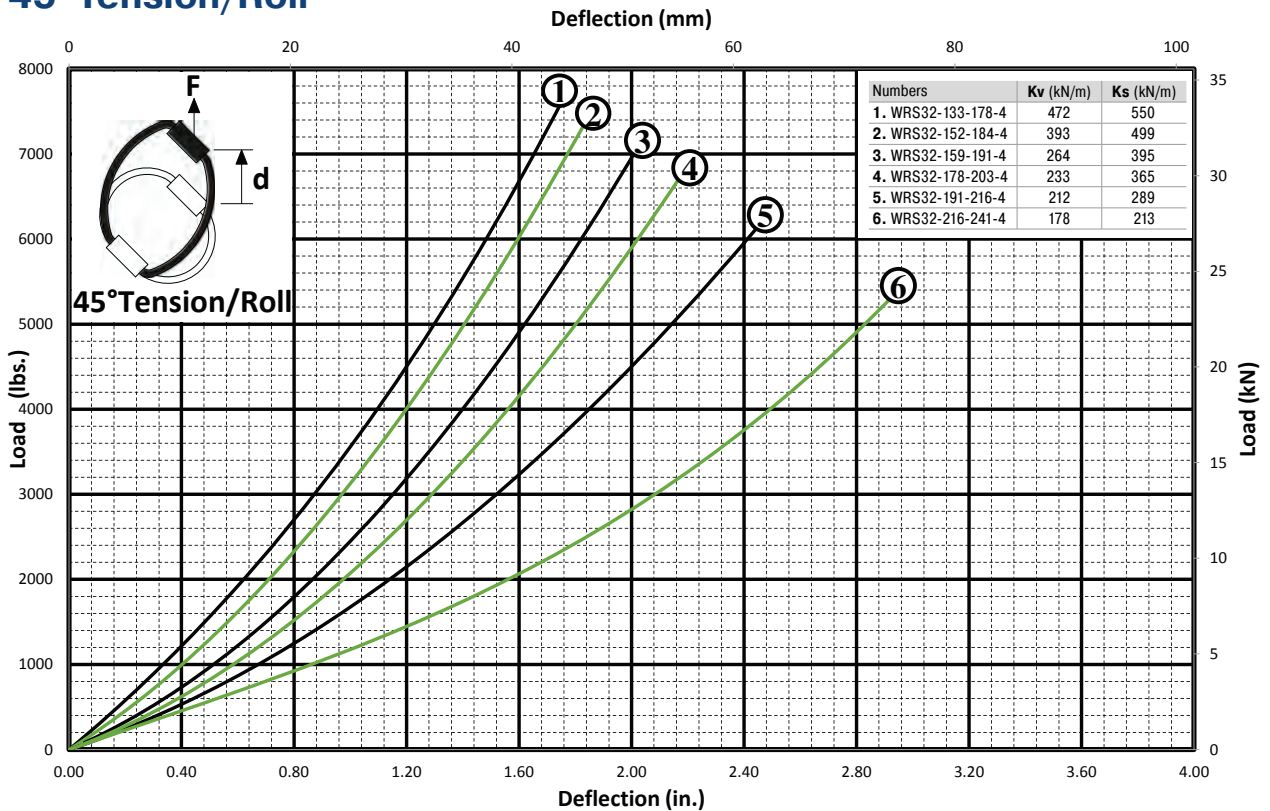


Issue 07/2020 – Specifications subject to change

45° Compression/Roll



45° Tension/Roll



CR2

Square Mount Isolator

Diameter Cable 1.59 mm (1/16")

Features

Rugged all metal construction
Long life and maintenance free
Three axis capability (6 dof)
High damping: $C/cc \approx 0.15$ to 0.20

Operating temperature range

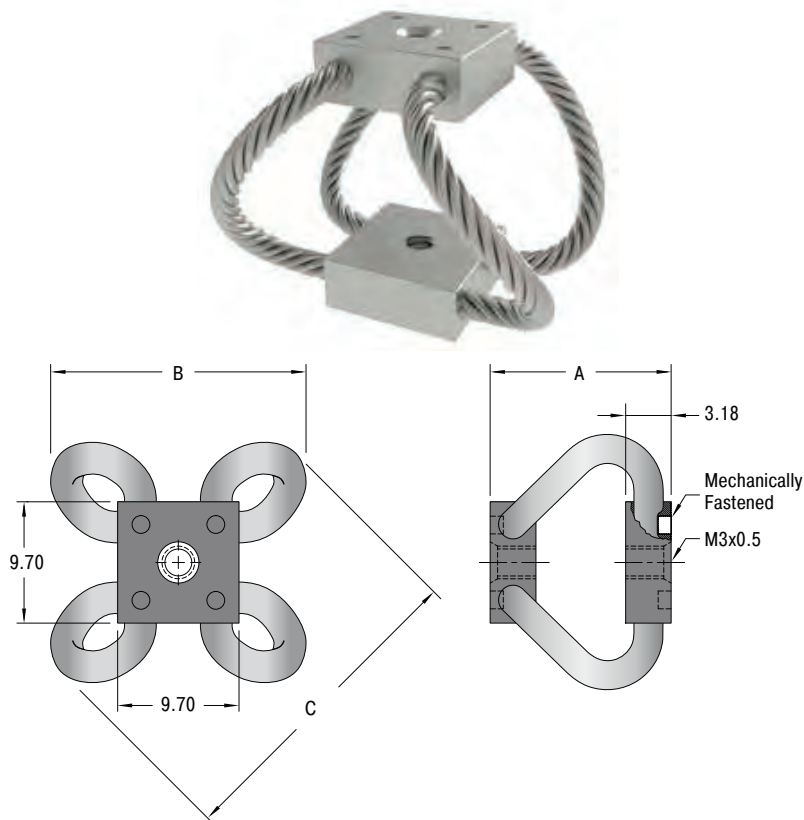
-130°C to +260°C

Material

Cable: 300 Series SS per MIL-W-83420 or RR-W-410
Inserts: 300 Series SS per MS122076
Retainer bars: 6063-T52 Aluminum alloy/chem film IAW MIL-C-5541, Class 1A

On request

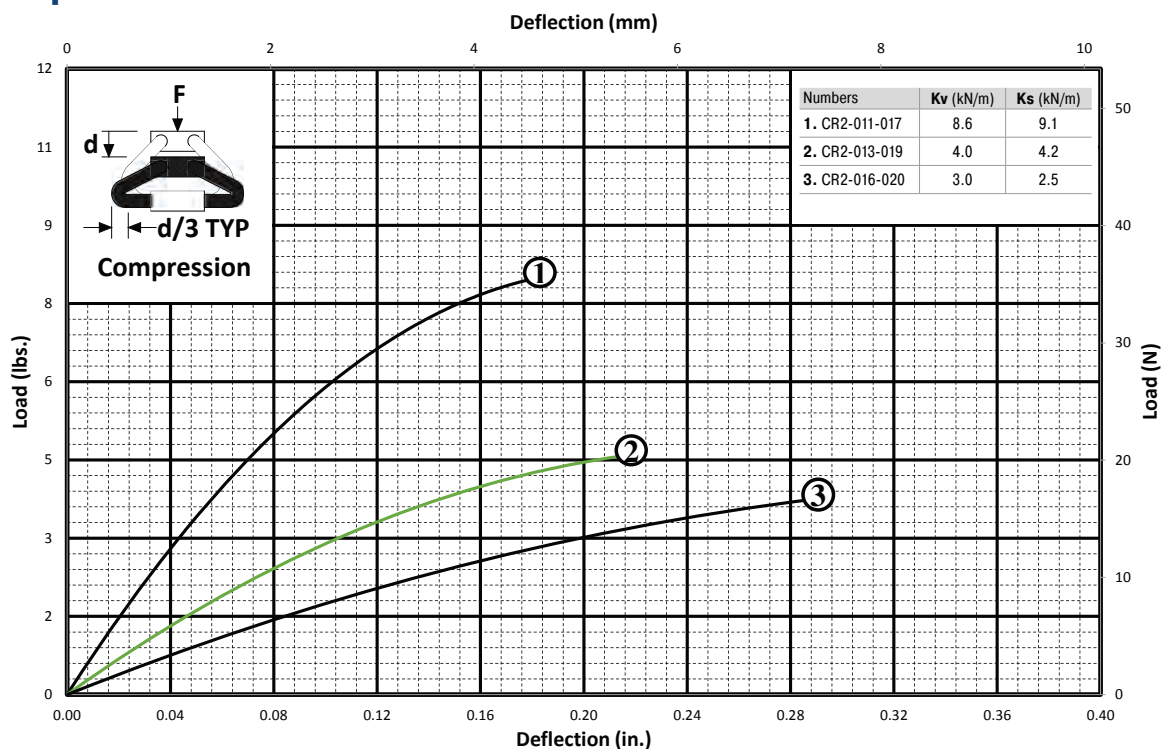
Special materials, size, mounting holes, finish, etc. available



Performance

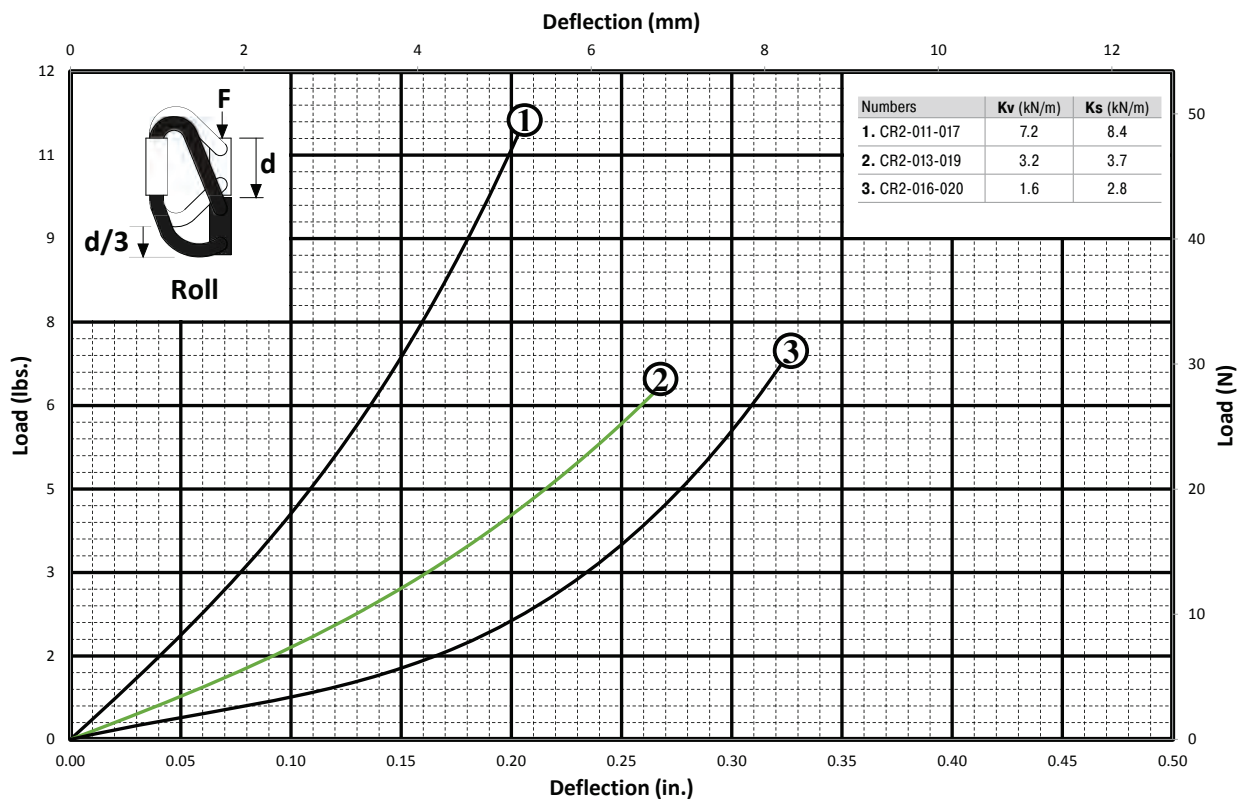
TYPES	A (+/- 0.8) mm	B mm	C mm	M	Compression		Roll		Compression/Roll		Weight kg
					Kv (Vibe) kN/m	Ks (Shock) kN/m	Kv (Vibe) kN/m	Ks (Shock) kN/m	Kv (Vibe) kN/m	Ks (Shock) kN/m	
CR2-011-017	11.2	17.3	22.1	M3x0.5	8.6	9.1	7.2	8.4	4.0	4.0	0.002
CR2-013-019	12.7	19.1	19.1	M3x0.5	4.0	4.2	3.2	3.7	1.9	1.8	0.002
CR2-016-020	15.7	20.3	25.4	M3x0.5	3.0	2.5	1.6	2.8	1.1	0.7	0.003

Compression

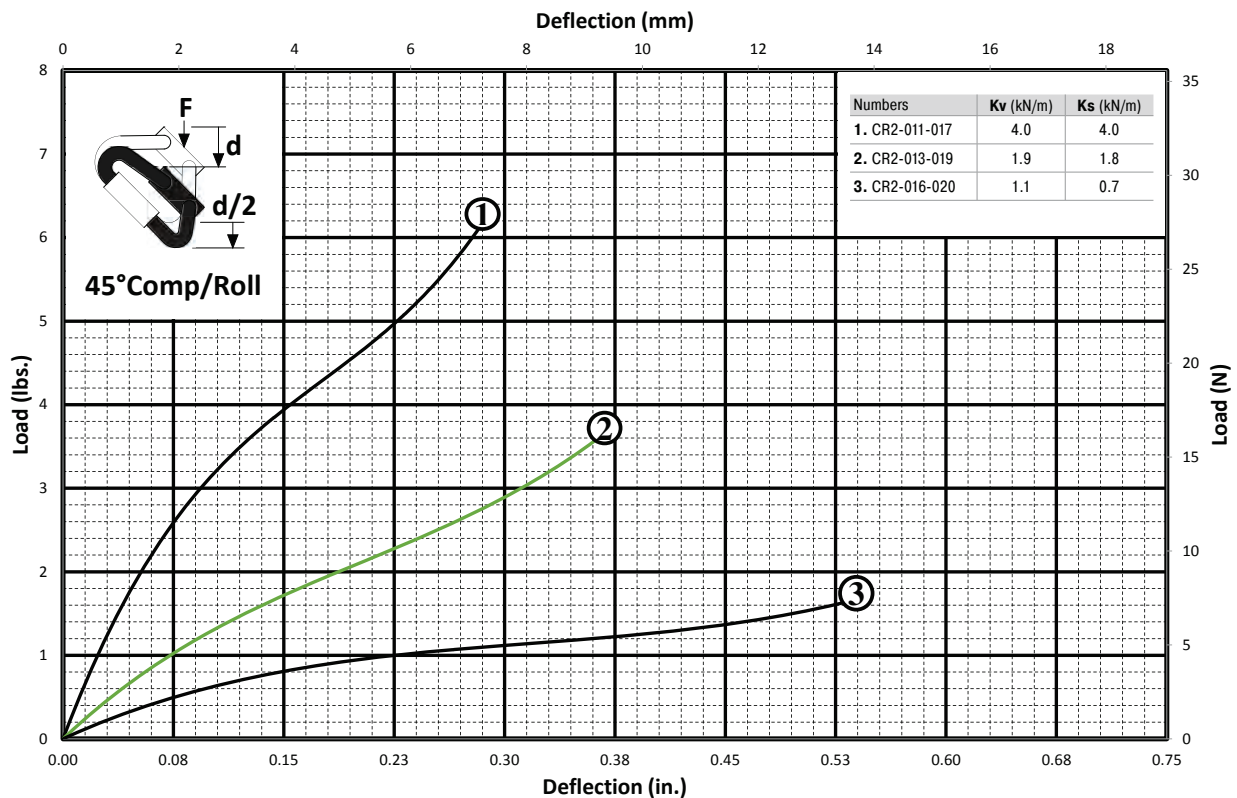


Issue 07/2020 – Specifications subject to change

Roll



45° Compression/Roll



Issue 07/2020 – Specifications subject to change

CR3

Square Mount Isolator

2.38 mm (3/32") Diameter Cable

Features

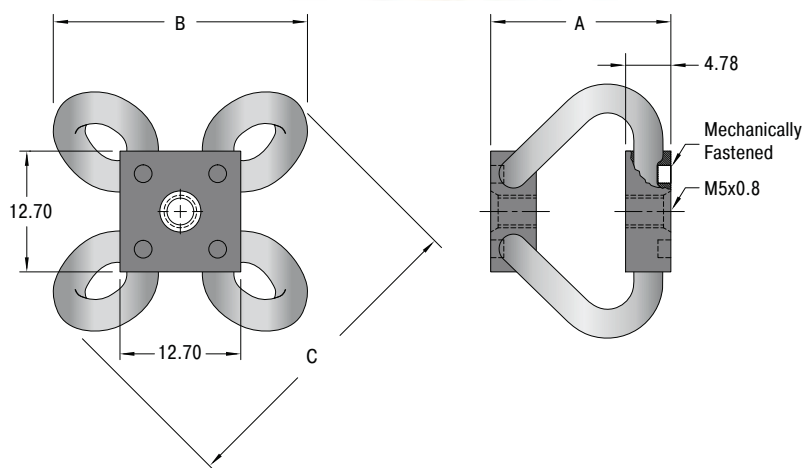
Rugged all metal construction
Long life and maintenance free
Three axis capability (6 dof)
High damping: $C/cc \approx 0.15$ to 0.20

Material

Cable: 300 Series SS per MIL-W-83420 or RR-W-410
Inserts: 300 Series SS per MS124655
Retainer bars: 6063-T52 Aluminum alloy/chem film IAW MIL-C-5541, Class 1A

On request

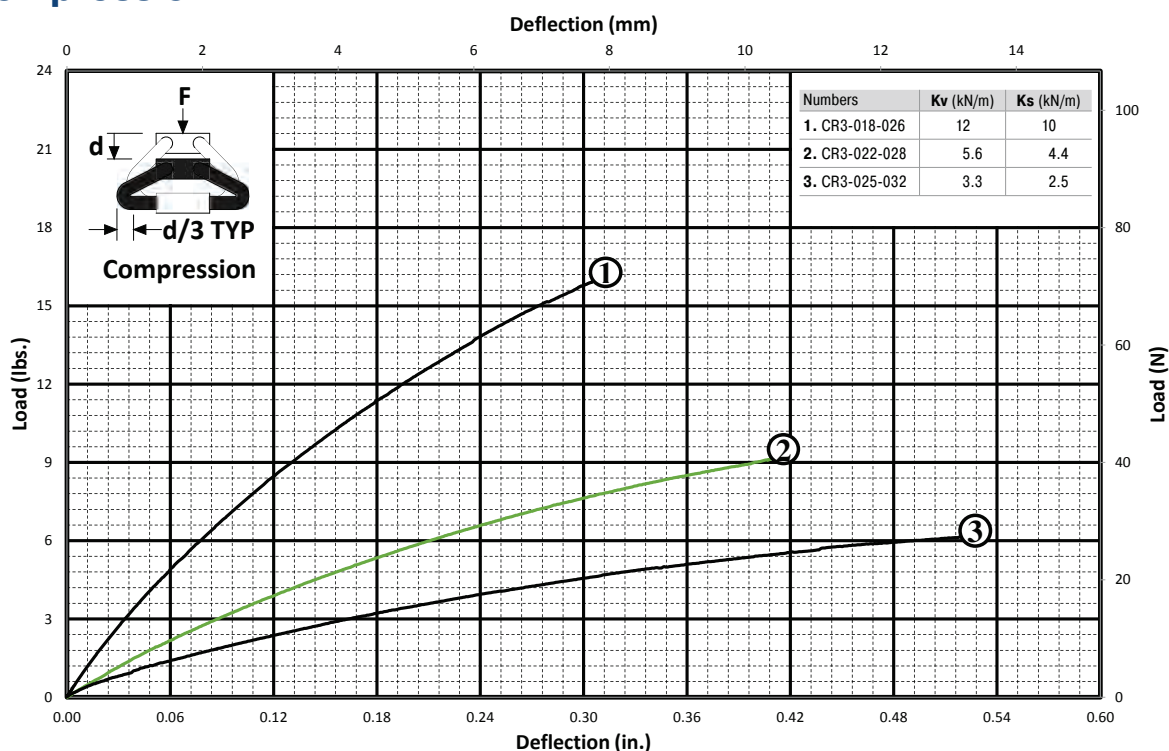
Special materials, size, mounting holes, finish, etc. available



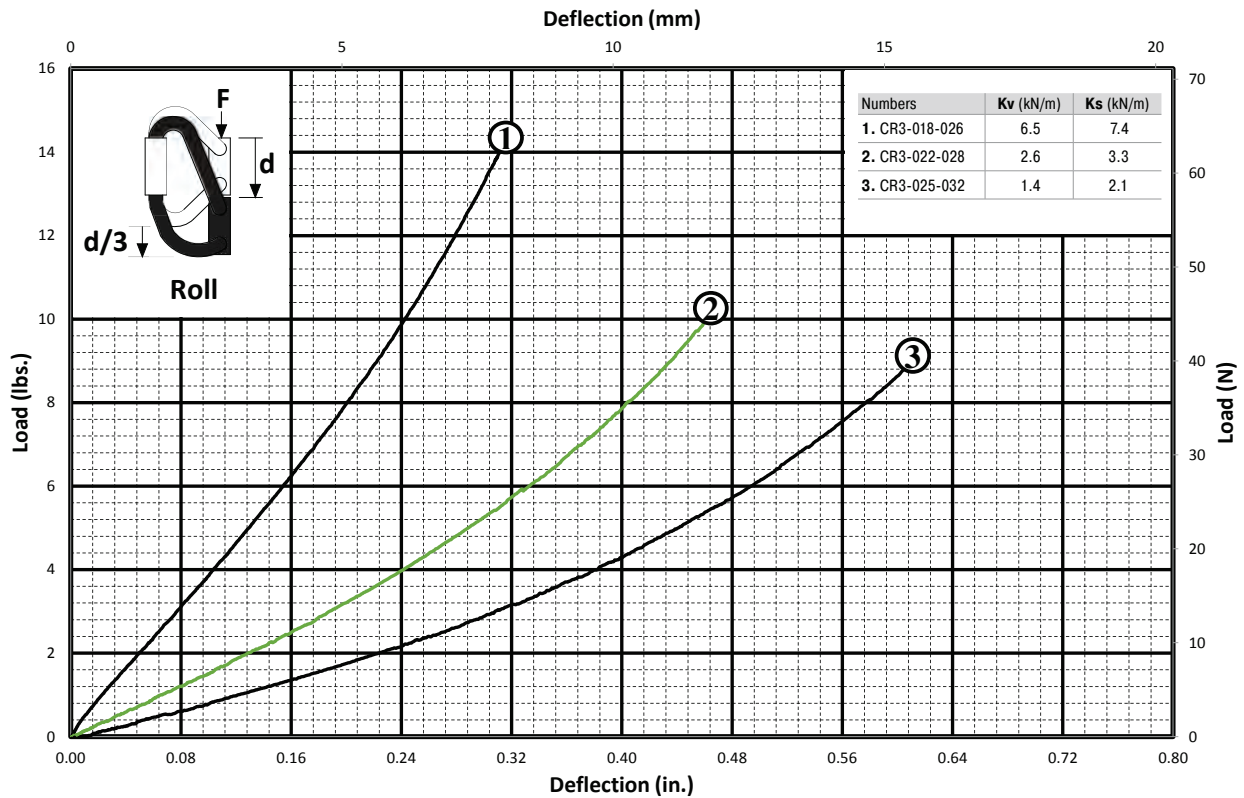
Performance

TYPES	A (+/- 0.8) mm	B mm	C mm	M	Compression		Roll		Compression/Roll		Weight kg
					Kv (Vibe) kN/m	Ks (Shock) kN/m	Kv (Vibe) kN/m	Ks (Shock) kN/m	Kv (Vibe) kN/m	Ks (Shock) kN/m	
CR3-018-026	17.8	25.9	33.5	M5x0.8	12	10	6.5	7.4	6.8	5.4	0.006
CR3-022-028	21.6	27.9	37.1	M5x0.8	5.6	4.4	2.6	3.3	3.7	2.6	0.007
CR3-025-032	25.4	31.8	40.9	M5x0.8	3.3	2.5	1.4	2.1	2.3	1.4	0.009

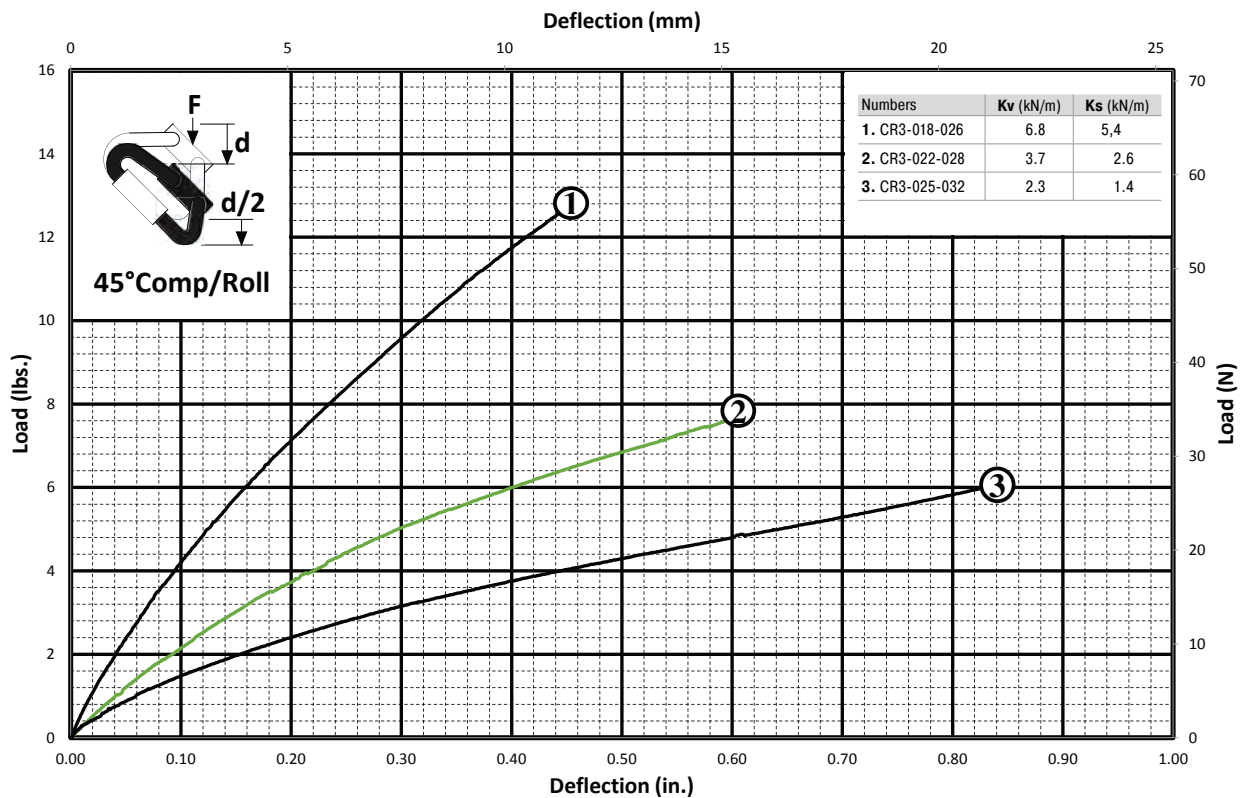
Compression



Roll



45° Compression/Roll



Issue 07/2020 – Specifications subject to change

CR4

Square Mount Isolator

3.18 mm (1/8") Diameter Cable

Features

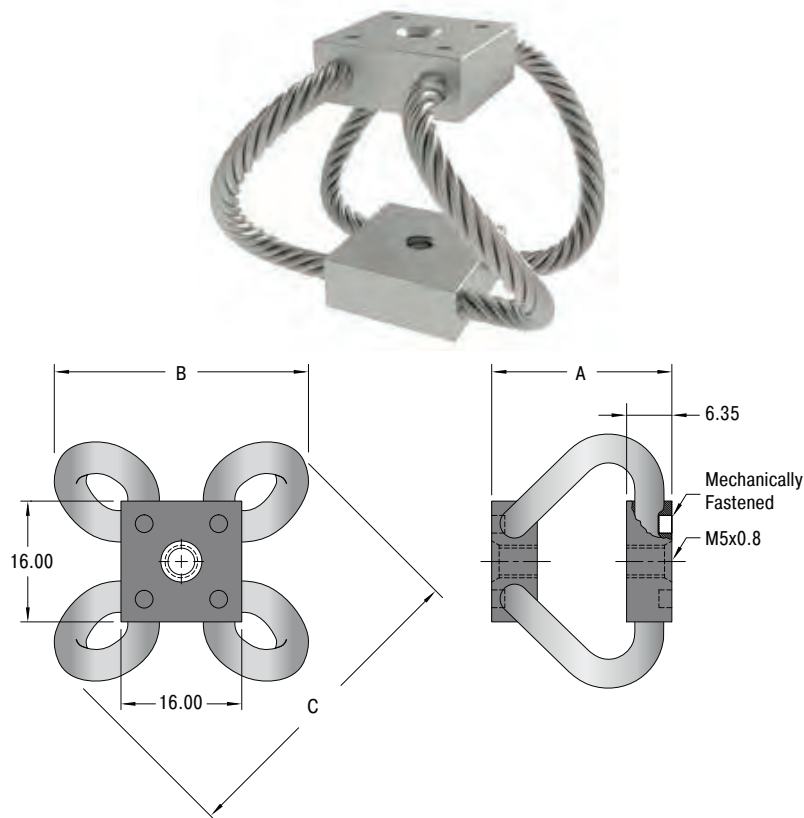
Rugged all metal construction
Long life and maintenance free
Three axis capability (6 dof)
High damping: $C/cc \approx 0.15$ to 0.20

Material

Cable: 300 Series SS per MIL-W-83420 or RR-W-410
Inserts: 300 Series SS per MS124655
Retainer bars: 6063-T52 Aluminum alloy/chem film IAW MIL-C-5541, Class 1A

On request

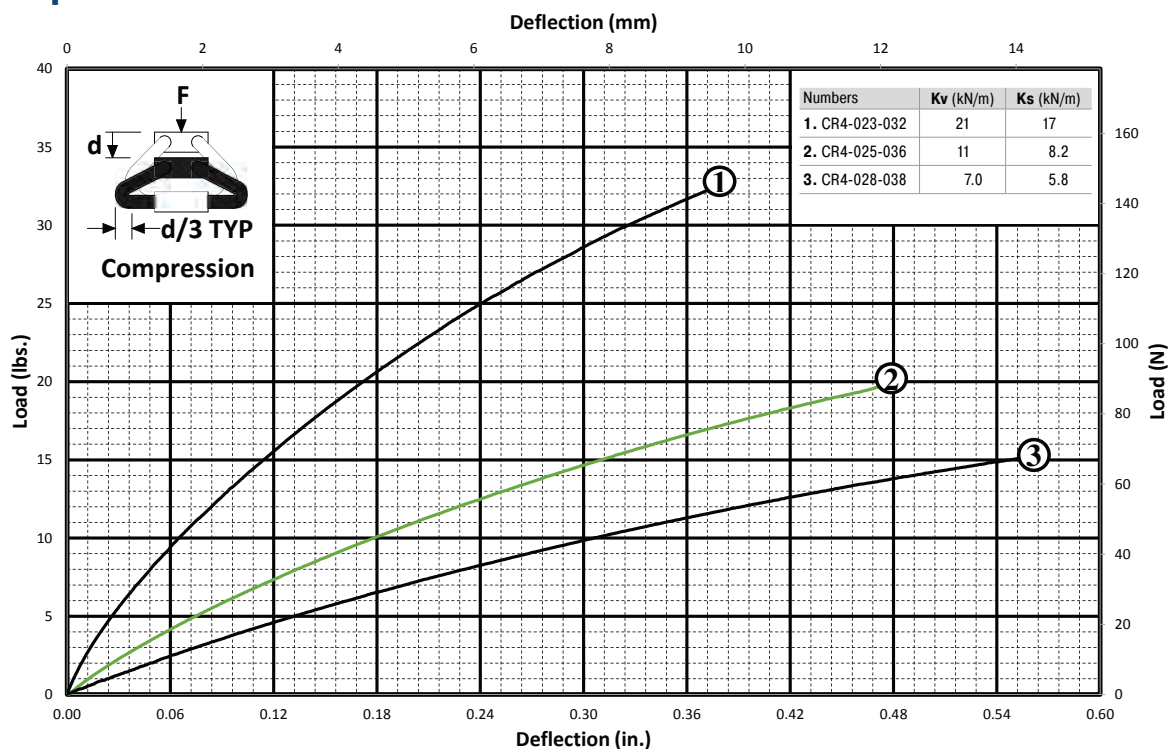
Special materials, size, mounting holes, finish, etc. available



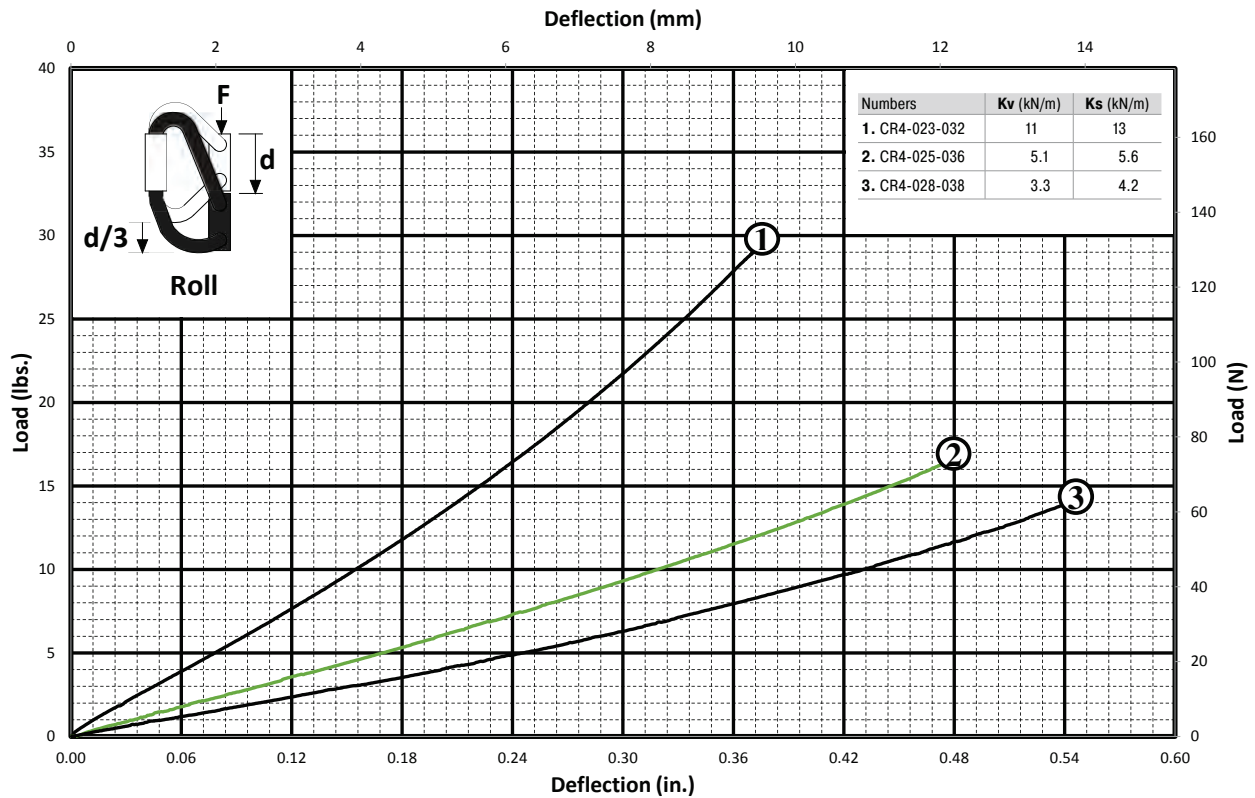
Performance

TYPES	A (+/- 0.8) mm	B mm	C mm	M	Compression		Roll		Compression/Roll		Weight kg
					Kv (Vibe) kN/m	Ks (Shock) kN/m	Kv (Vibe) kN/m	Ks (Shock) kN/m	Kv (Vibe) kN/m	Ks (Shock) kN/m	
CR4-023-032	22.9	32.0	41.1	M5x0.8	21	17	11	13	15	11	0.014
CR4-025-036	25.4	36.3	47.0	M5x0.8	11	8.2	5.1	5.6	8.1	6.3	0.015
CR4-028-038	27.9	38.4	50.0	M5x0.8	7.0	5.8	3.3	4.2	5.1	3.5	0.017

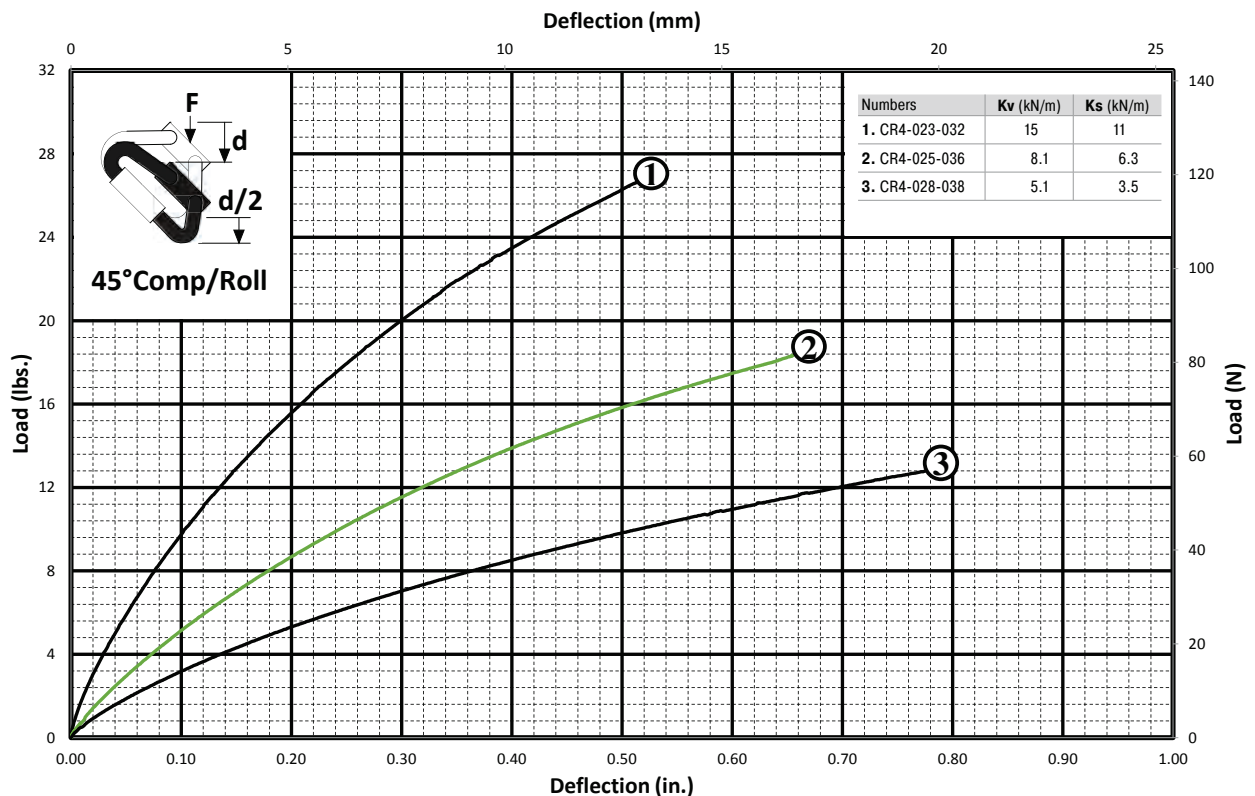
Compression



Roll



45° Compression/Roll



Issue 07/2020 – Specifications subject to change

CR5

Square Mount Isolator

3.97 mm (5/32") Diameter Cable

Features

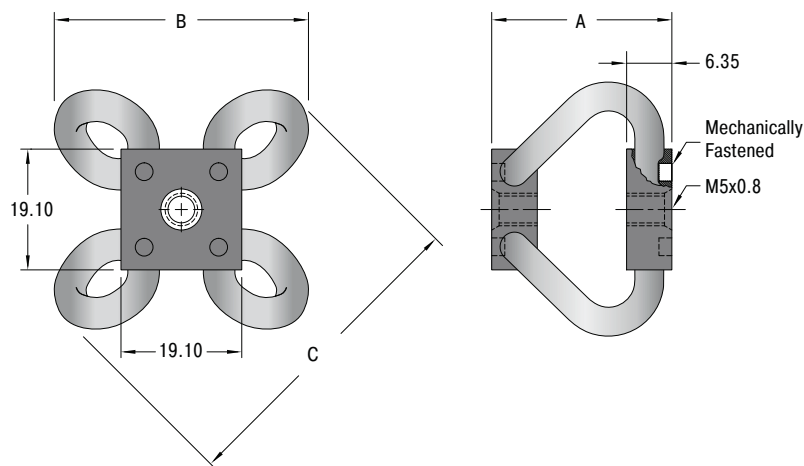
Rugged all metal construction
Long life and maintenance free
Three axis capability (6 dof)
High damping: $C/cc \approx 0.15$ to 0.20

Material

Cable: 300 Series SS per MIL-W-83420 or RR-W-410
Inserts: 300 Series SS per MS124655
Retainer bars: 6063-T52 Aluminum alloy/chem film IAW MIL-C-5541, Class 1A

On request

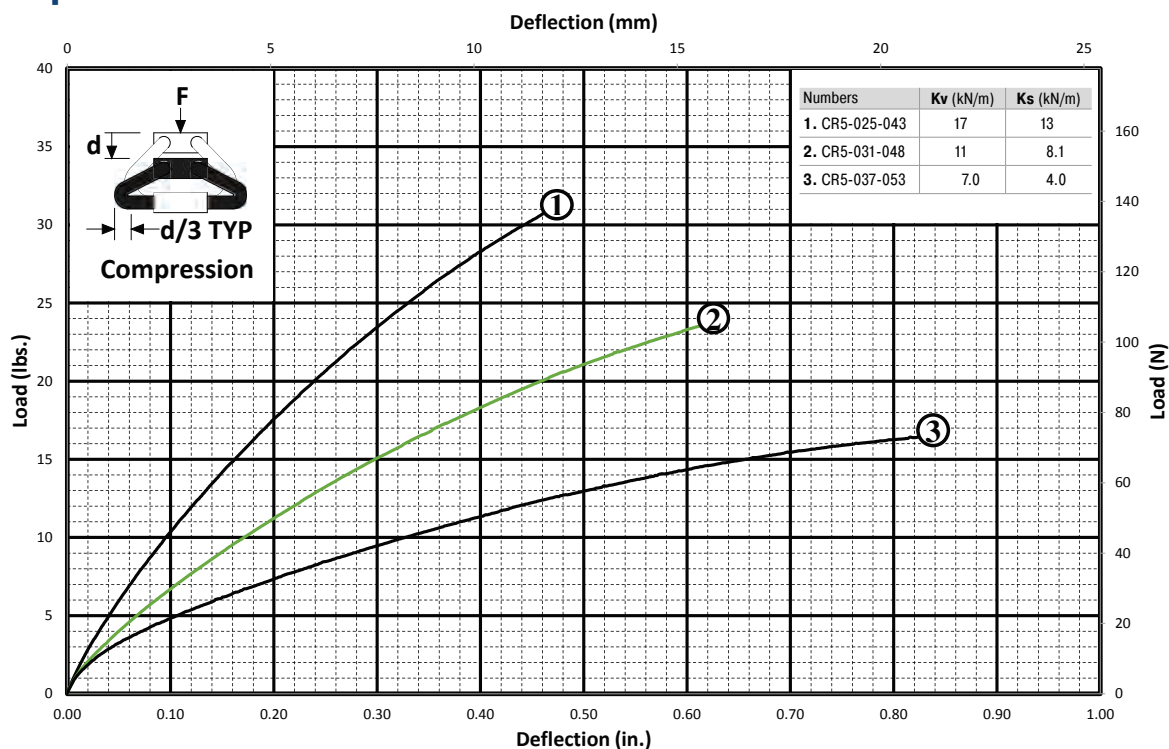
Special materials, size, mounting holes, finish, etc. available



Performance

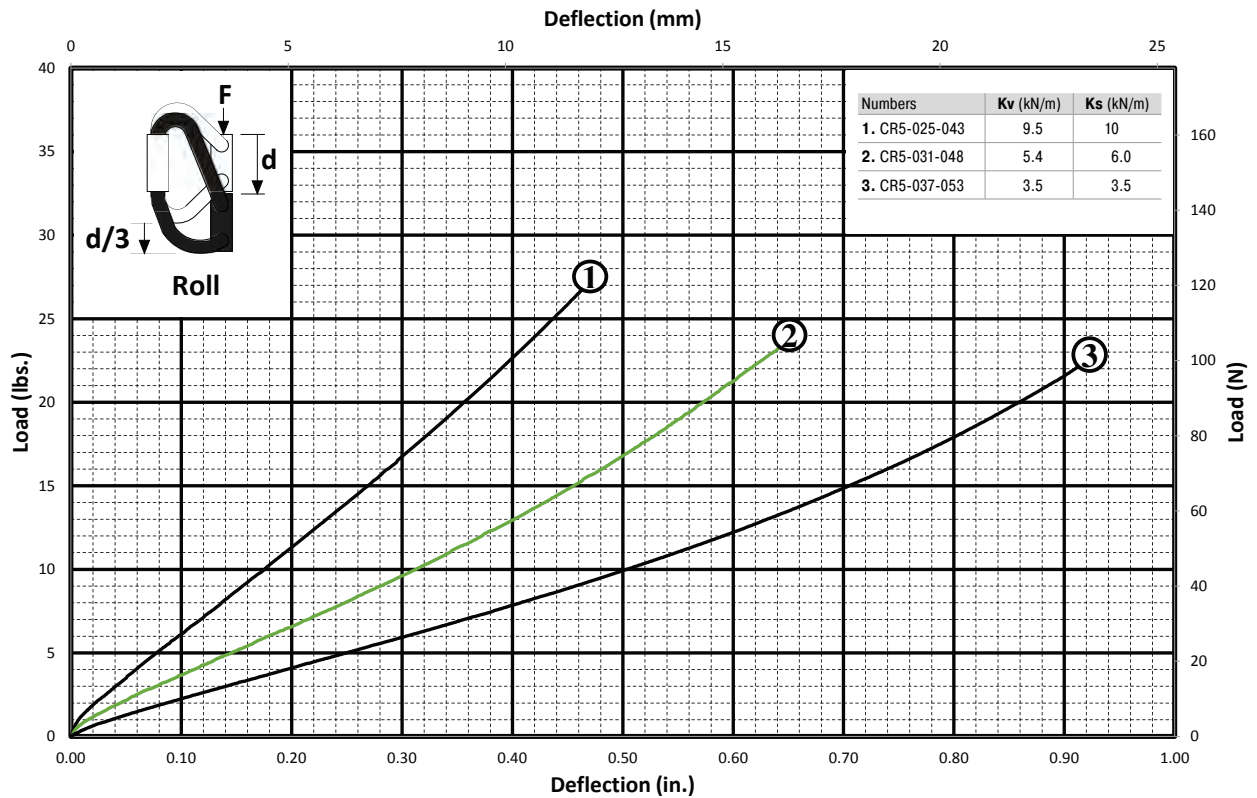
TYPES	A (+/- 0.8) mm	B mm	C mm	M	Compression		Roll		Compression/Roll		Weight kg
					Kv (Vibe) kN/m	Ks (Shock) kN/m	Kv (Vibe) kN/m	Ks (Shock) kN/m	Kv (Vibe) kN/m	Ks (Shock) kN/m	
CR5-025-043	25.4	43.4	56.9	M5x0.8	17	13	9.5	10	11	8.8	0.023
CR5-031-048	30.5	48.3	63.5	M5x0.8	11	8.1	5.4	6.0	7.9	5.4	0.028
CR5-037-053	36.8	53.3	69.3	M5x0.8	7.0	4	3.5	3.5	4.9	3.2	0.031

Compression

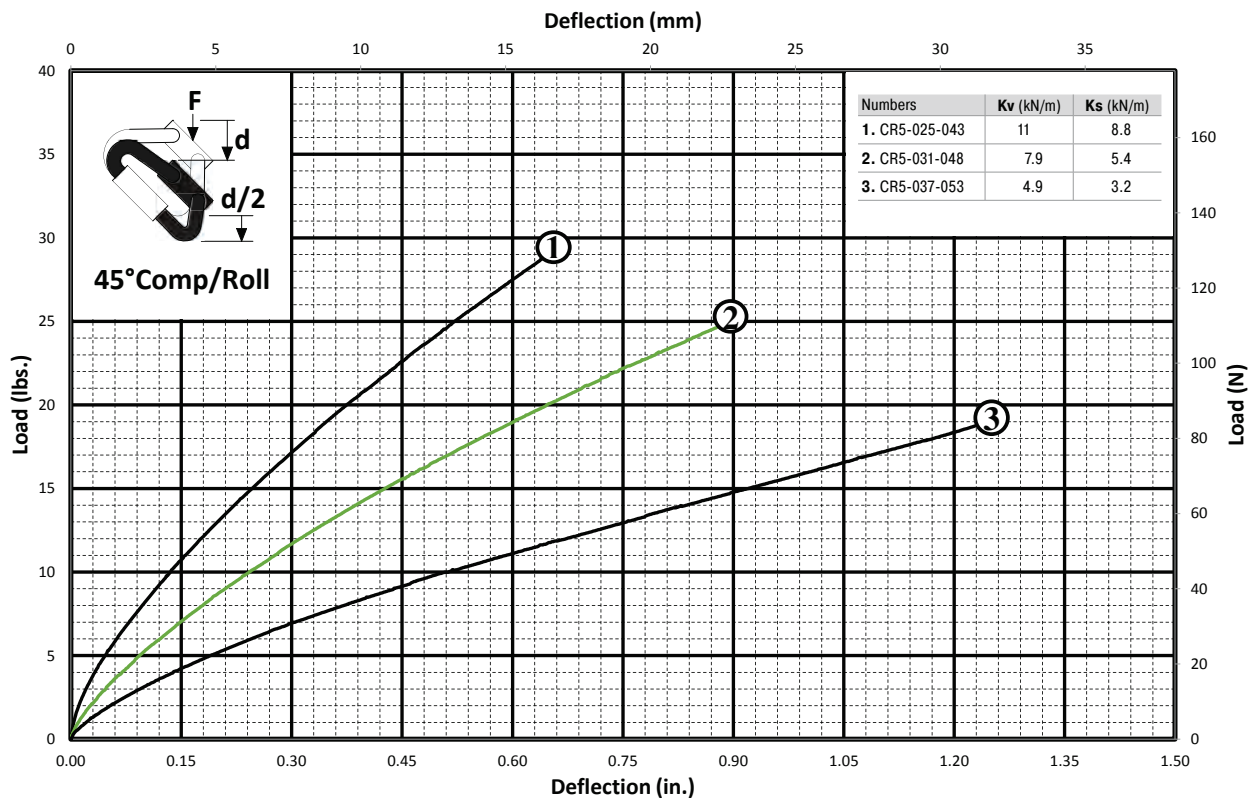


Issue 07/2020 – Specifications subject to change

Roll



45° Compression/Roll



Issue 07/2020 – Specifications subject to change

CR6

Square Mount Isolator

4.76 mm (3/16") Diameter Cable

Features

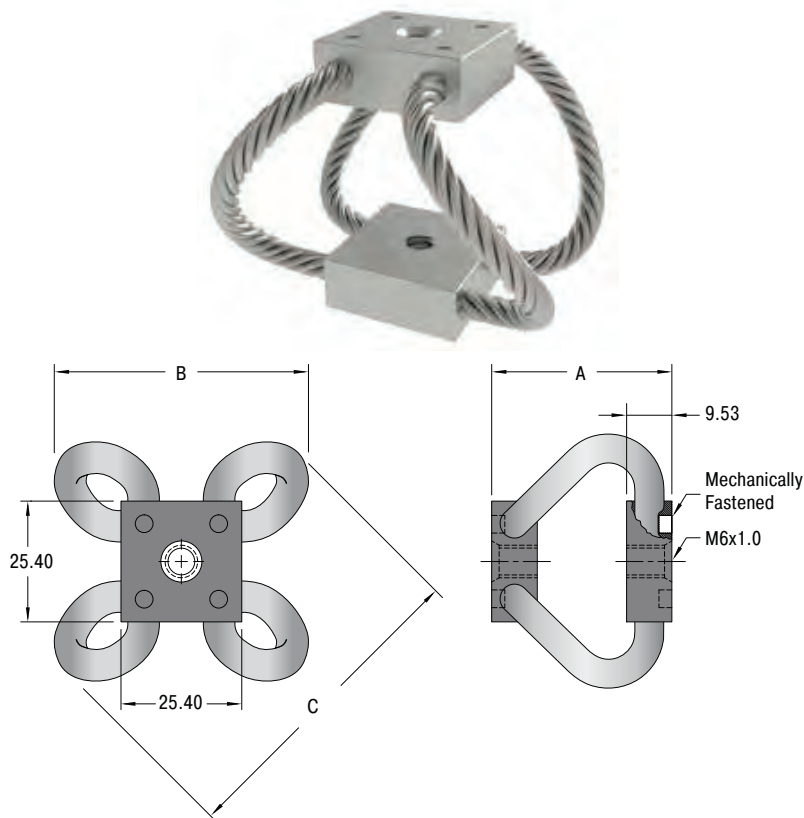
Rugged all metal construction
Long life and maintenance free
Three axis capability (6 dof)
High damping: $C/cc \approx 0.15$ to 0.20

Material

Cable: 300 Series SS per MIL-W-83420 or RR-W-410
Inserts: 300 Series SS per MS122081
Retainer bars: 6063-T52 Aluminum alloy/chem film IAW MIL-C-5541, Class 1A

On request

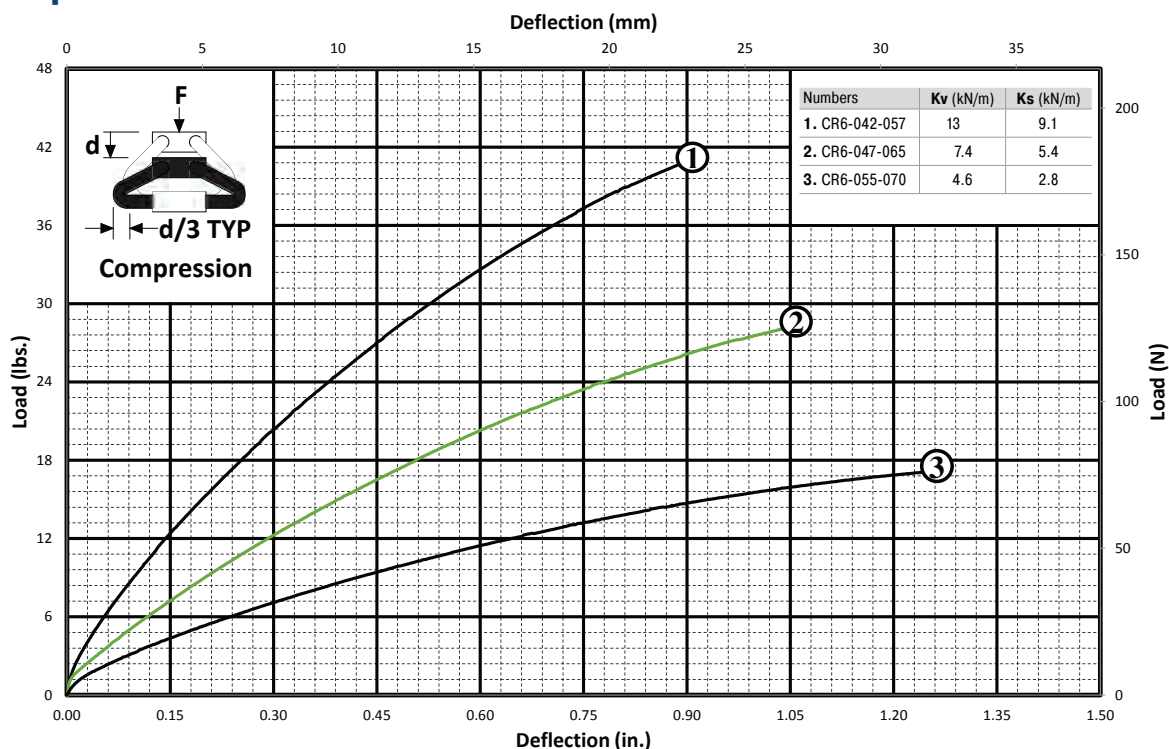
Special materials, size, mounting holes, finish, etc. available



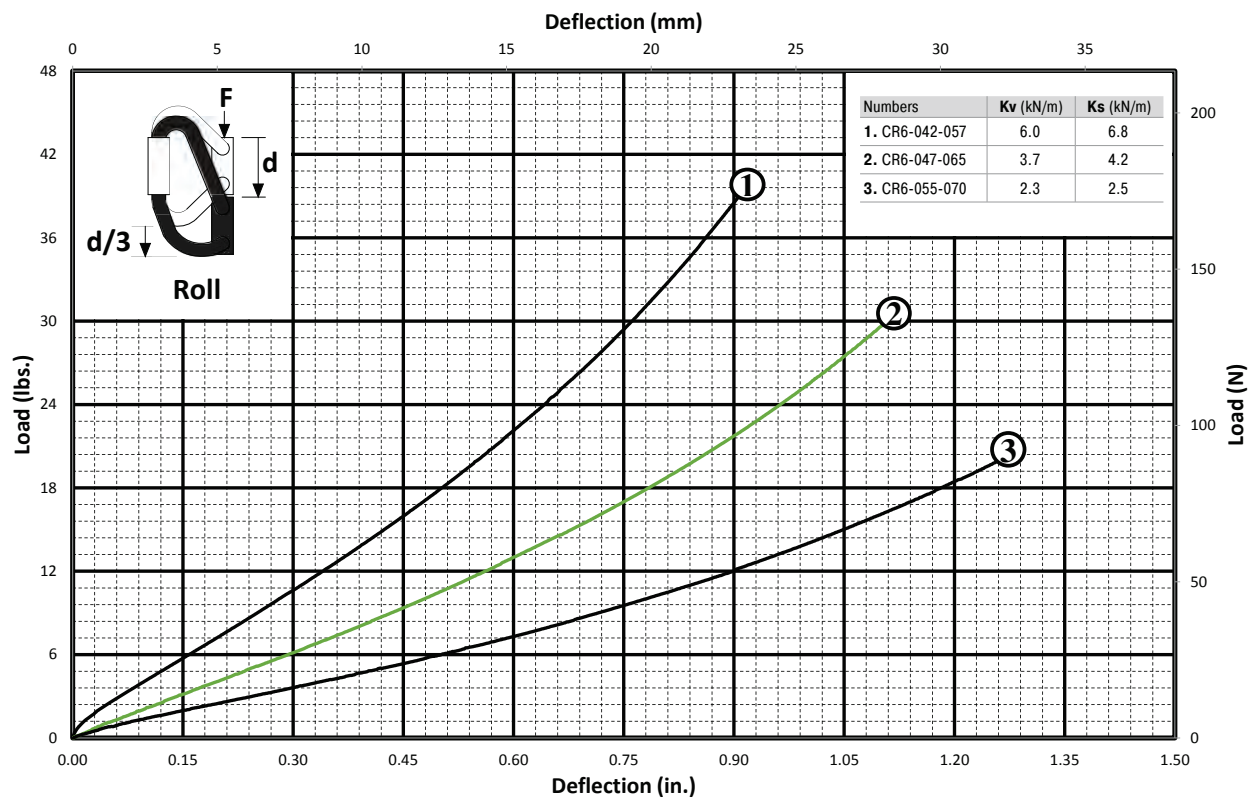
Performance

TYPES	A (+/- 0.8) mm	B mm	C mm	M	Compression		Roll		Compression/Roll		Weight kg
					Kv (Vibe) kN/m	Ks (Shock) kN/m	Kv (Vibe) kN/m	Ks (Shock) kN/m	Kv (Vibe) kN/m	Ks (Shock) kN/m	
CR6-042-057	41.9	57.2	75.7	M6x1.0	13	9.1	6.0	6.8	8.4	5.6	0.057
CR6-047-065	47.0	64.8	82.6	M6x1.0	7.4	5.4	3.7	4.2	5.6	3.3	0.062
CR6-055-070	54.6	70.1	91.4	M6x1.0	4.6	2.8	2.3	2.5	3.5	1.8	0.065

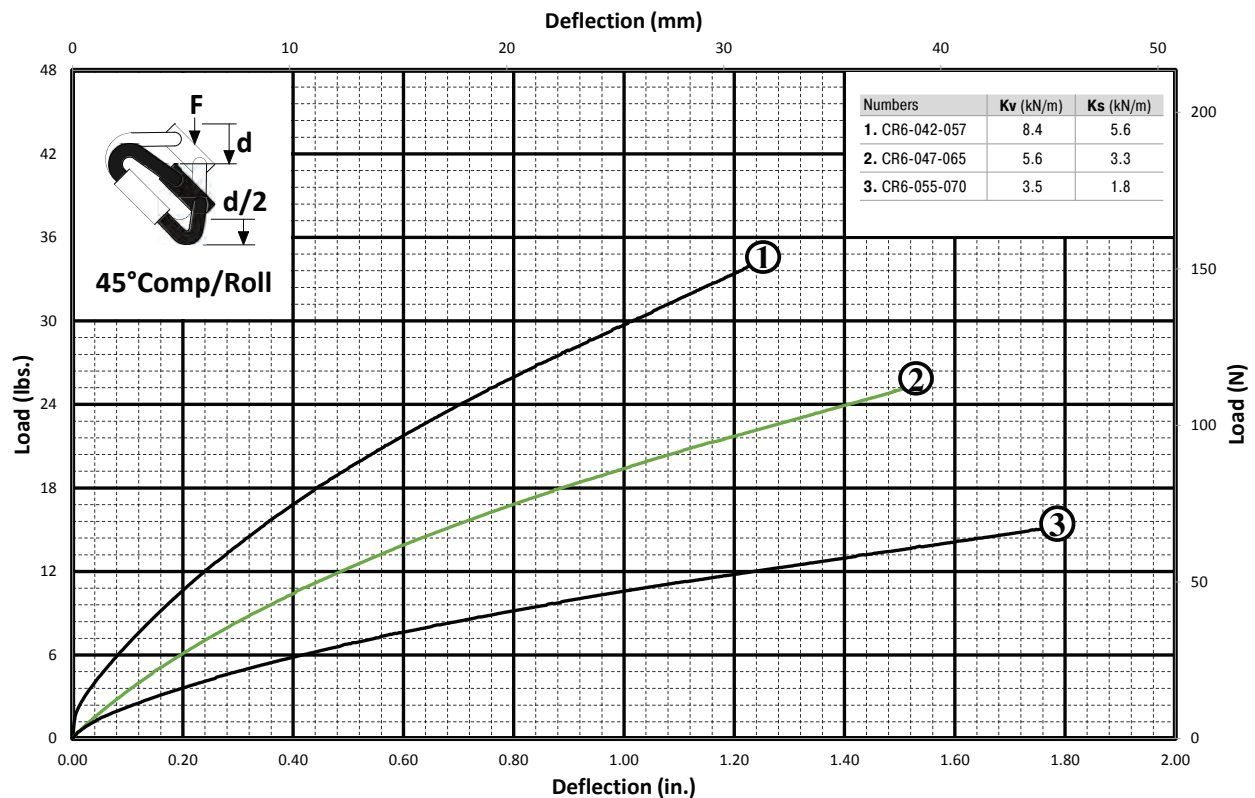
Compression



Roll



45° Compression/Roll



Issue 07/2020 – Specifications subject to change

CR7

Square Mount Isolator

5.56 mm (7/32") Diameter Cable

Features

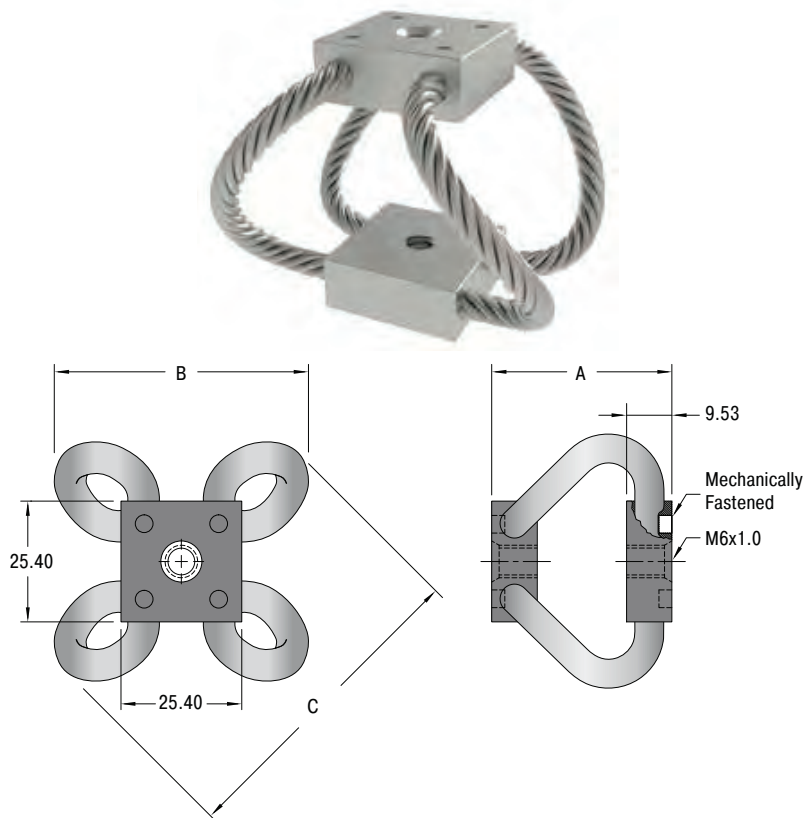
Rugged all metal construction
Long life and maintenance free
Three axis capability (6 dof)
High damping: $C/cc \approx 0.15$ to 0.20

Material

Cable: 300 Series SS per MIL-W-83420 or RR-W-410
Inserts: 300 Series SS per MS122081
Retainer bars: 6063-T52 Aluminum alloy/chem film IAW MIL-C-5541, Class 1A

On request

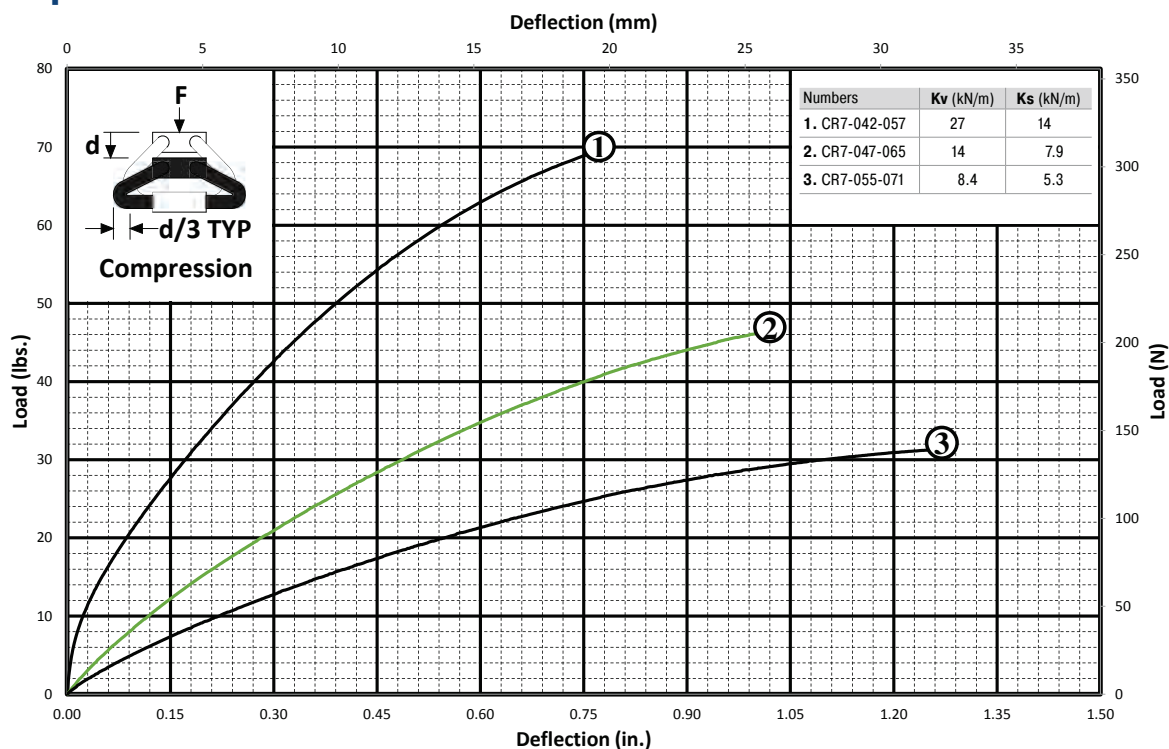
Special materials, size, mounting holes, finish, etc. available



Performance

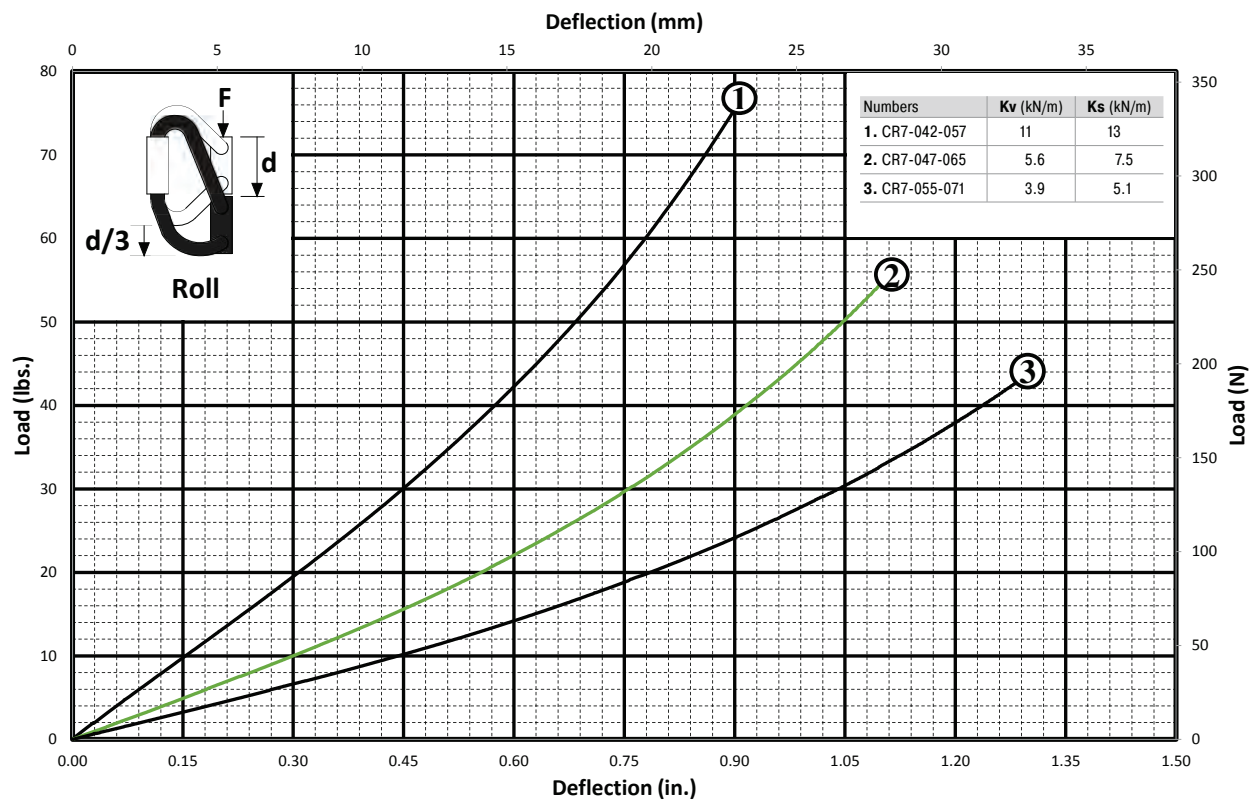
TYPES	A (+/- 0.8) mm	B mm	C mm	M	Compression		Roll		Compression/Roll		Weight kg
					Kv (Vibe) kN/m	Ks (Shock) kN/m	Kv (Vibe) kN/m	Ks (Shock) kN/m	Kv (Vibe) kN/m	Ks (Shock) kN/m	
CR7-042-057	41.9	57.2	75.7	M6x1.0	27	14	11	13	18	9.6	0.065
CR7-047-065	47.0	64.8	83.8	M6x1.0	14	7.9	5.6	7.5	8.9	5.3	0.074
CR7-055-071	54.6	71.1	91.4	M6x1.0	8.4	5.3	3.9	5.1	6.0	3.2	0.091

Compression

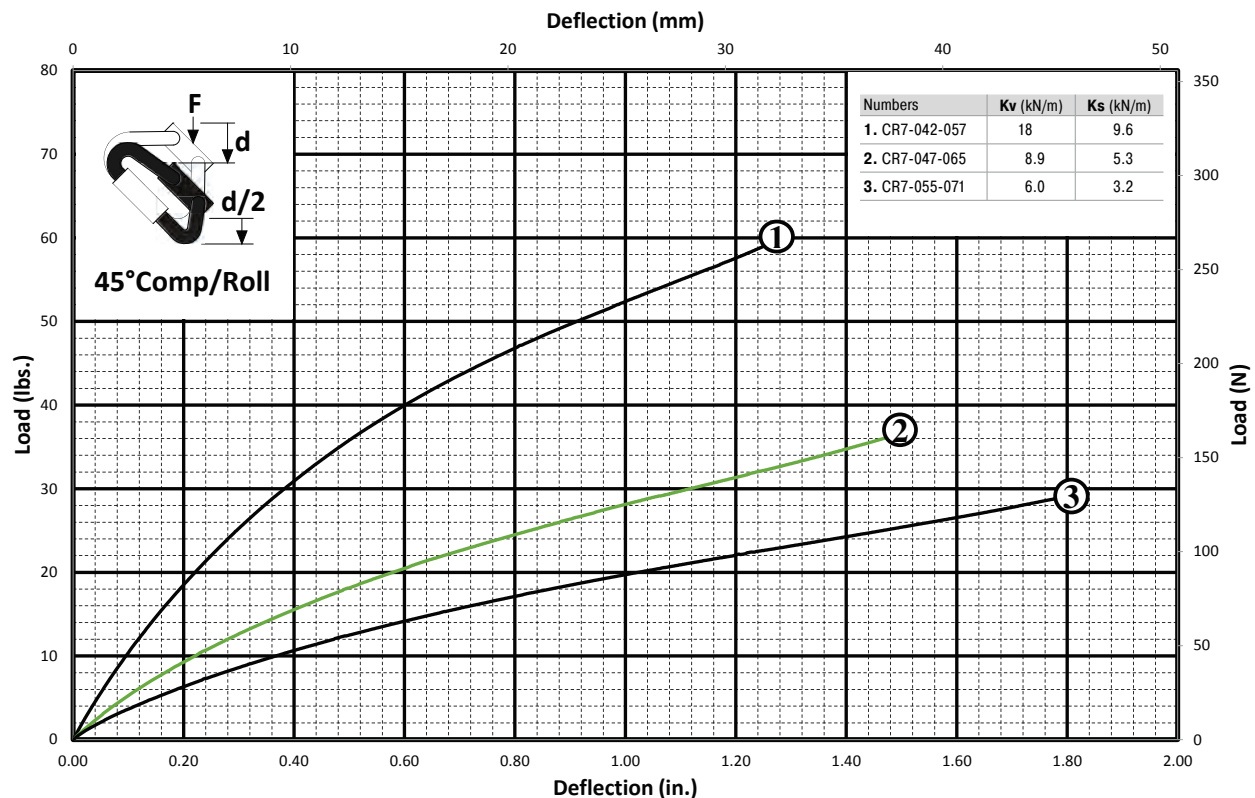


Issue 07/2020 – Specifications subject to change

Roll



45° Compression/Roll



Issue 07/2020 – Specifications subject to change

CR8

Square Mount Isolator

6.35 mm (1/4") Diameter Cable

Features

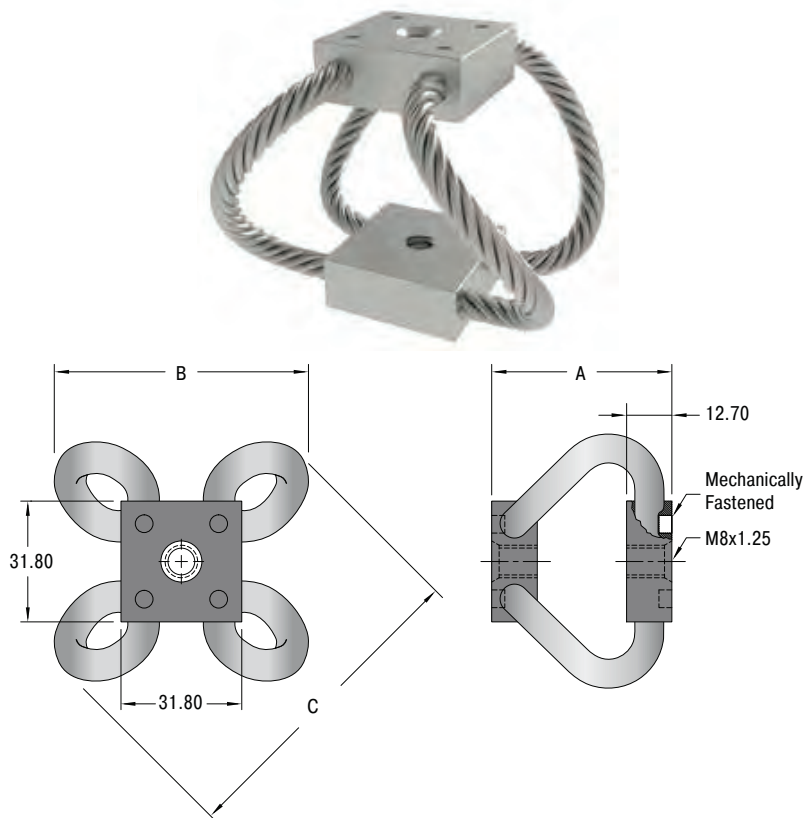
Rugged all metal construction
Long life and maintenance free
Three axis capability (6 dof)
High damping: $C/cc \approx 0.15$ to 0.20

Material

Cable: 300 Series SS per MIL-W-83420 or RR-W-410
Inserts: 300 Series SS per MS122082
Retainer bars: 6063-T52 Aluminum alloy/chem film IAW MIL-C-5541, Class 1A

On request

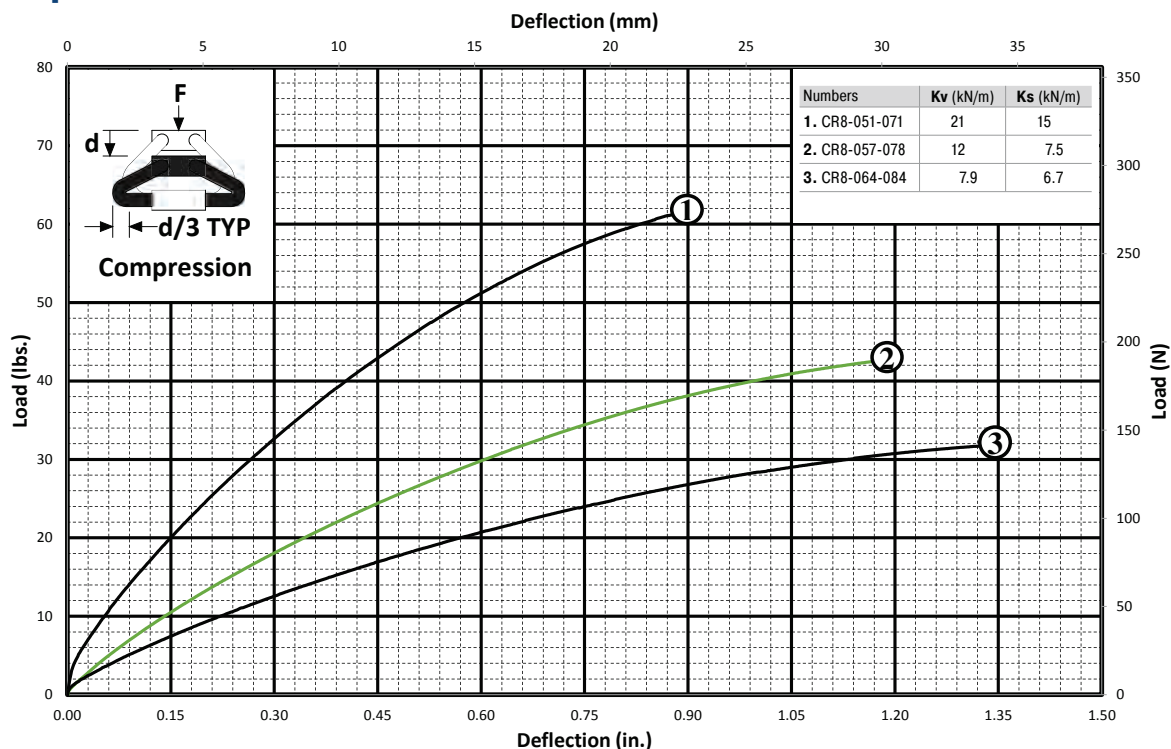
Special materials, size, mounting holes, finish, etc. available



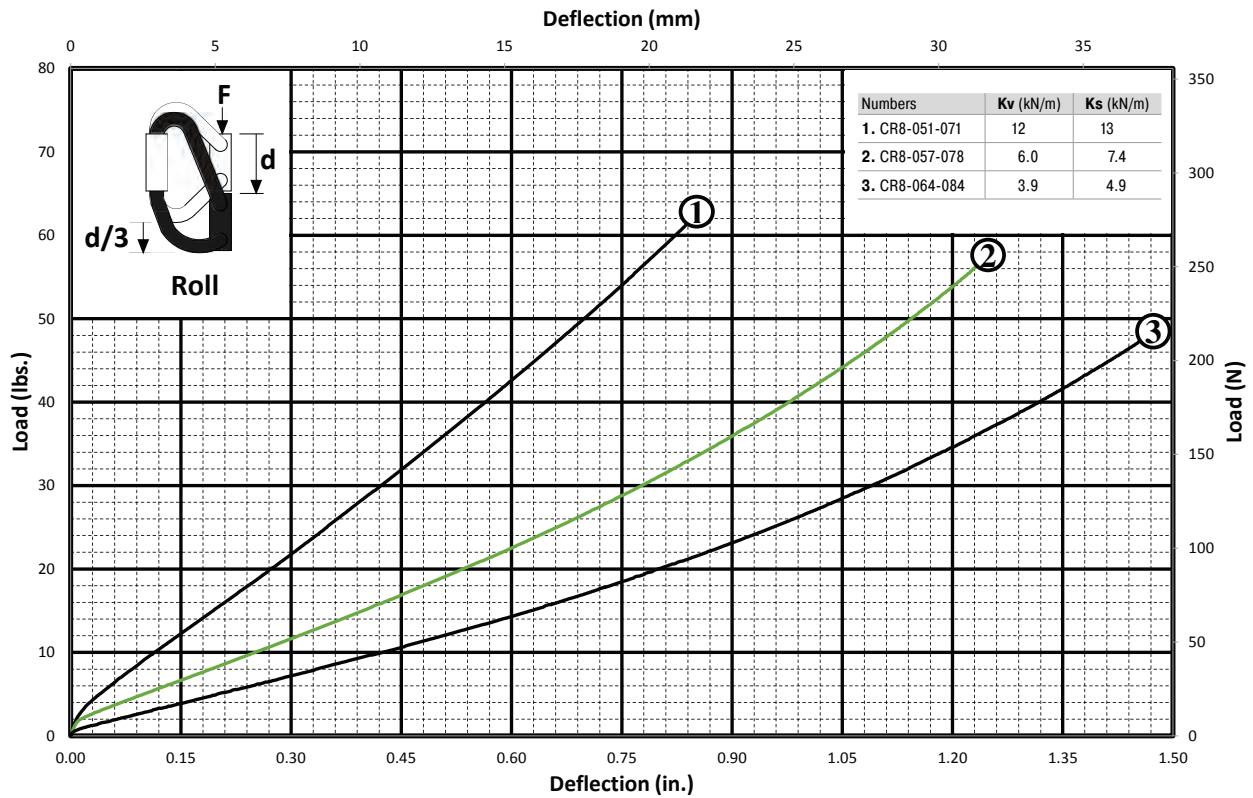
Performance

TYPES	A (+/- 0.8) mm	B mm	C mm	M	Compression		Roll		Compression/Roll		Weight kg
					Kv (Vibe) kN/m	Ks (Shock) kN/m	Kv (Vibe) kN/m	Ks (Shock) kN/m	Kv (Vibe) kN/m	Ks (Shock) kN/m	
CR8-051-071	50.8	71.1	92.7	M8x1.25	21	15	12	13	15	9.1	0.122
CR8-057-078	57.2	77.5	99.1	M8x1.25	12	7.5	6.0	7.4	8.4	4.9	0.125
CR8-064-084	63.5	83.8	108.0	M8x1.25	7.9	6.7	3.9	4.9	6.0	3.2	0.136

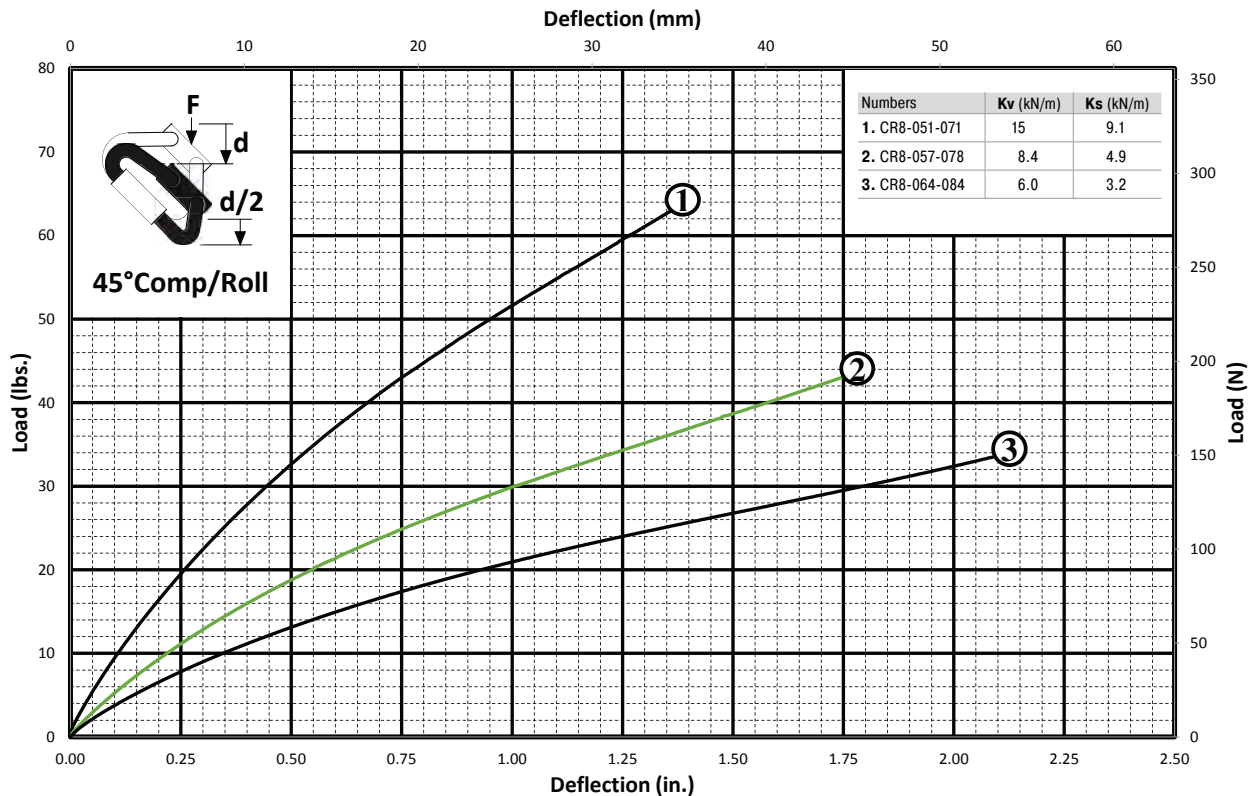
Compression



Roll



45° Compression/Roll



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