Dynamica
Noise & Vibration Control

Noise & Vibration Control

CATALOG

POB 561 Kefar Vitkin
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DYNAMICA DESIGN LTD

www.dynamica.net

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Noise & Vibration Control Special Designs

Products Catalog | 2025

With over 35 years of dedicated expertise in the realm of structural dynamics and acoustics across systems, buildings, and nonstructural elements, we are committed to crafting innovative solutions for dynamic and acoustic environments. Dynamica stands as the premier consultancy firm for Dynamic and Acoustical endeavors in Israel.

Our team comprises over 45 skilled professionals, boasting 30 design engineers and scientists, primarily holding degrees in mechanical engineering at the Bachelor's and Master's levels, alongside 4 Ph.D. scientists.

Nestled north of Tel Aviv, in the picturesque village of Kfar-Vitkin, our headquarters feature state-of-the-art facilities including offices, research laboratories, and workshops tailored for modeling, experimentation, and production.

Our engineers actively engage as integral members of development teams, lending their expertise to major projects, particularly supporting R&D initiatives, infrastructure, and the design of cutting-edge research edifices, alongside diverse sectors such as micro/nano-electronics.
Over the years, we have pioneered groundbreaking technologies utilized by our esteemed clientele, spanning both civil and government-affiliated defense industries.
Our project portfolio extends across the globe, with operations spanning Germany, Japan, the United States, the United Kingdom, Ireland, France, Canada, India, Nigeria, South Korea, and the Netherlands.

Our expertise spans the following specialized departments:
Engineering R&D, focusing on innovative design and integration of dynamic solutions.
Dynamics & Analyses R&D, offering advanced simulations and structural optimization.
Multi-Physics R&D, specializing in multi-physics simulations in vibro-acoustics and aerodynamics.
Acoustics Department, delivering expert consulting for noise control and performance venues.
Measurements & Laboratories, providing precise measurements in vibration, acoustics, and EMI.
Production Line Supply, ensuring efficient delivery of tailored dynamic and acoustic solutions.

This catalog provides an overview of our offerings. For comprehensive details and personalized solutions, please contact us directly.

For more information contact us:
▪ Tel +972-9-8658484 ▪ Fax +972-9-8658666 ▪ www.dynamica.net ▪

D-flex
D16S

D-flex is an all-metal isolator; it consists of coated aluminum plates and special stainless steel cables.

Its unique structure enables large deflections (in all axes) in relation to its geometrical dimensions, resulting in a compact installation size.

Its resonance magnification is very low and its rebound reaction to mechanical shock is small.

The isolators function without any change to their dynamic characteristics in a wide temperature range and can withstand oil, fuel and other aggressive environments.

The isolator is fail-safe in any direction and will continue to function after extreme emergency events such as fire or overloading.

The D-flex presents long life even under high loads due to its insensitivity to aging and creep.

The wide variety of types and sizes available and the ability to install the isolator in any direction should enable compliance with any design requirement. However, a non-standard type can be customized to meet specific dynamic properties or environmental resistance.

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Materials

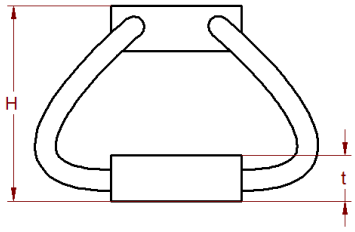
Cable: SS-316
Plate: AL-6061-T6
Alodine per MIL-C-5541B (RoHS)

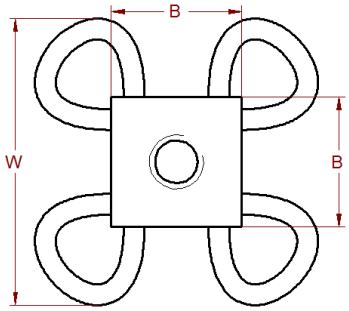
Temperature range

-70^{0}C to +260^{0}C

Typical Conductivity

1· ÷2·





Dimensions

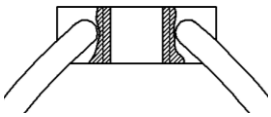
	H [mm]	**W** [mm]
D16S-13	13	20
D16S-15	15	21.5
D16S-17	17	24.5
D16S-18	18	26.5

B = 10mm t = 3.5mm

Typical dimension tolerance ± 5%

Interface - Thread options

M3
4-40



Ordering form

D16S-H-Interface

H: From table above

Interface: M3 ➡ M3
4-40 ➡ 440

Ordering examples:

D16S-13-440
H = 13
Thread 4-40

D16S-17-M3
H = 17
Thread M3

Dynamica
Noise & Vibration Control

D-flex
D16S

Selecting the right isolator

NF - Natural Frequency

The charts were measured at a 0.003g²/Hz flat random input.

Increasing the input level to 0.01g²/Hz may lower the system NF by 10%.

Decreasing the input level to 0.001g²/Hz may raise the system NF by 10%.

Verify that the dynamic displacements of the isolator are greater than the dynamic travel of the system when exposed to its spec vibrations.

If the series NFs are too high, consider using a lower series or increasing the mass.

Shock Response

The easiest way to evaluate shock response is using the energy method:

- Calculate mass (m) initial shock energy: Ei = 0.5mV² (or Ei = mgH for drop).
- Find the shock displacement (Ds) on the energy chart.
- Find the reaction force (Fs) on the load chart (@Ds).
- Calculate the reaction acceleration: Go = Fs/(mg).
- If dynamic deflection occurs in the gravity direction, the potential energy change should be added or deducted from the initial shock energy.

For calculation of rebound reactions use the same method.

Rebound initial mass energy: Er≤ 0.65Ei.

If the shock energy is too high for this series consider using a

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Typical Damping

Random vibration

Magnification at resonance: Q≈3

Shock energy

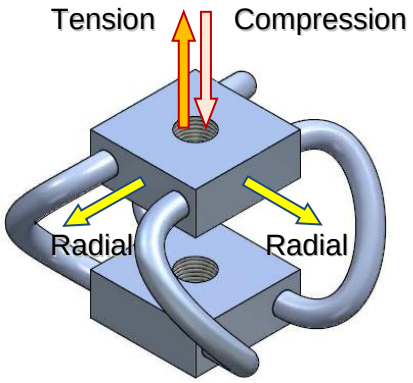
Rebound / Initial ≤ 65%

Frequency response

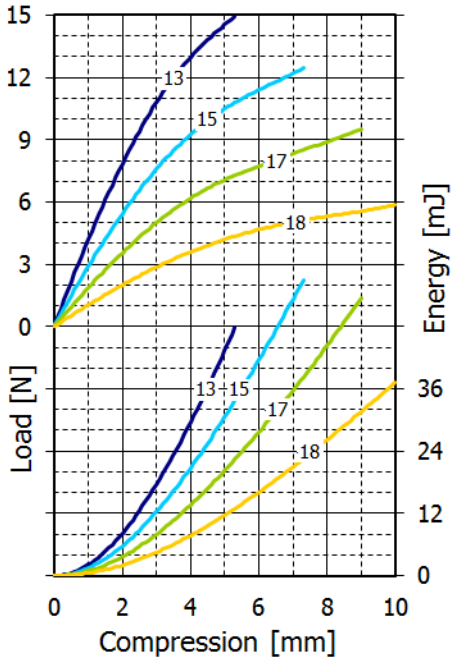
Measured at 0.003g²/Hz random input

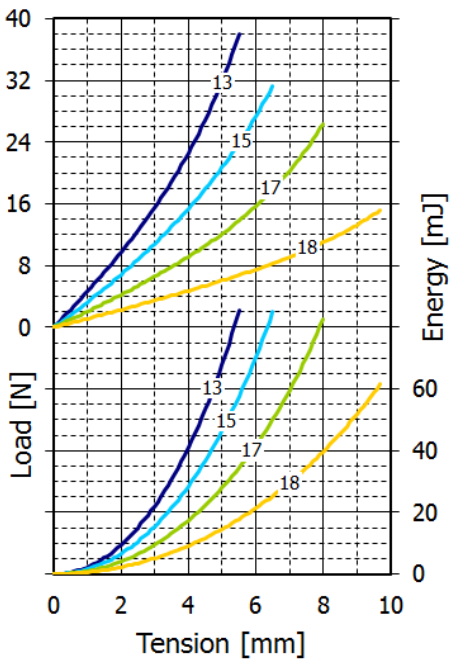
Typical tear resistance

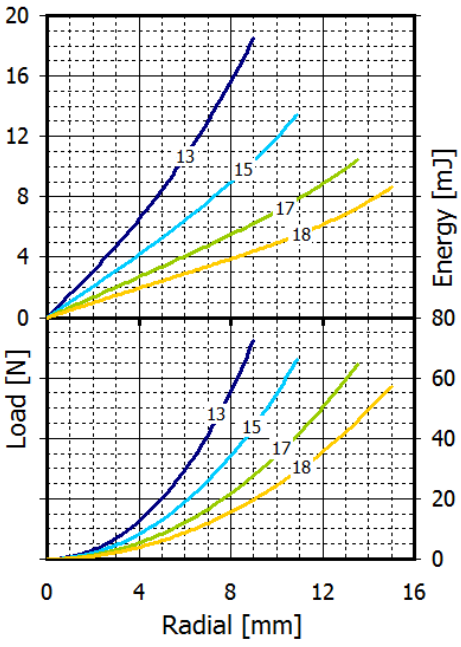
2[kN] Tension, 1.5[kN] Radial

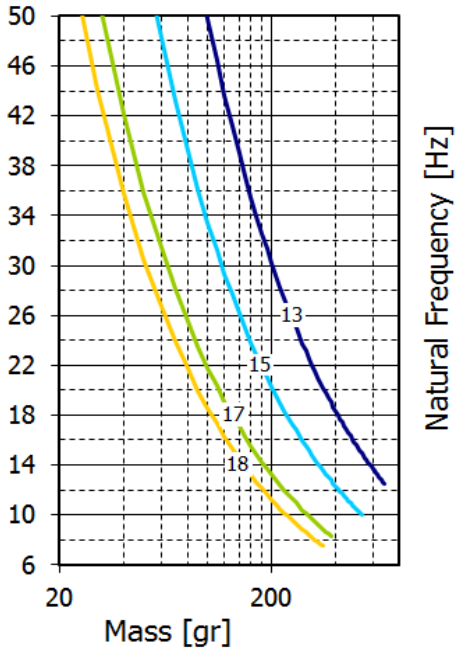


Typical performance tolerance ± 15%









D-flex
D24

D-flex is an all-metal isolator; it consists of coated aluminum plates and special stainless steel cables.

Its unique structure enables large deflections (in all axes) in relation to its geometrical dimensions, resulting in a compact installation size.

Its resonance magnification is very low and its rebound reaction to mechanical shock is small.

The isolators function without any change to their dynamic characteristics in a wide temperature range and can withstand oil, fuel and other aggressive environments.

The isolator is fail-safe in any direction and will continue to function after extreme emergency events such as fire or overloading.

The D-flex presents long life even under high loads due to its insensitivity to aging and creep.

The wide variety of types and sizes available and the ability to install the isolator in any direction should enable compliance with any design requirement. However, a non-standard type can be customized to meet specific dynamic properties or environmental resistance.

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Materials

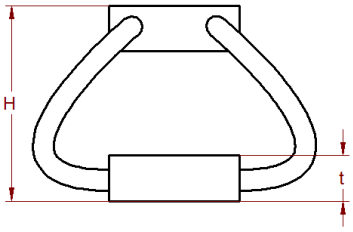
Cable: SS-316
Plate: AL-6061-T6
Alodine per MIL-C-5541B (RoHS)

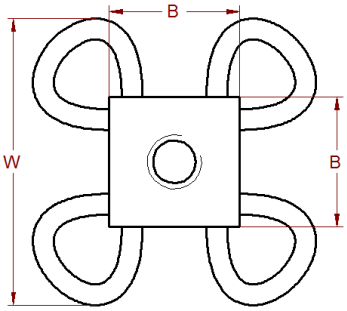
Temperature range

-70^{0}C to +260^{0}C

Typical Conductivity

<10m·





Dimensions

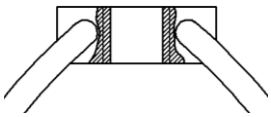
	H [mm]	**W** [mm]
D24-18	18	26.0
D24-20	20	28.5
D24-22	22	31.5
D24-24	24	34.5
D24-26	26	37.0

B = 14mm t = 5mm

Typical dimension tolerance ± 5%

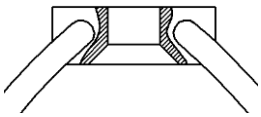
Interface - Thread options

M3
M4
4-40
6-32
8-32



Interface - Countersunk options

90^0 for M3
82^0 for 4-40



Ordering form

D24-H-Interface

H: From table above

Interface: M3 ➡ M3
4-40 ➡ 440
90^0 for M3➡ C903
82^0 for 4-40 ➡ C824

Ordering examples:

D24-20-632
H = 20
Thread 6-32

D24-24-C903-M3
H = 24
Countersunk for M3 top, M3 bottom

D24-18-632-440
H = 18
6-32 top, 4-40 bottom

D-flex
D24

Selecting the right isolator

NF - Natural Frequency

The charts were measured at a $0.003g^2/Hz$ flat random input. Increasing the input level to $0.01g^2/Hz$ may lower the system NF by 10%. Decreasing the input level to $0.001g^2/Hz$ may raise the system NF by 10%.

Verify that the dynamic displacements of the isolator are greater than the dynamic travel of the system when exposed to its spec vibrations.

If the series NFs are too high, consider using a lower series or increasing the mass.

Shock Response

The easiest way to evaluate shock response is using the energy method:

- Calculate mass (m) initial shock energy: Ei = $0.5mV^2$ (or Ei = mgH for drop).
- Find the shock displacement (Ds) on the energy chart.
- Find the reaction force (Fs) on the load chart (@Ds).
- Calculate the reaction acceleration: Go = Fs/(mg).
- If dynamic deflection occurs in the gravity direction, the potential energy change should be added or deducted from the initial shock energy.

For calculation of rebound reactions use the same method.
Rebound initial mass energy: Er≤ 0.65Ei.

If the shock energy is too high for this series consider using a higher series or increasing the

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Typical Damping

Random vibration

Magnification at resonance: Q≈3

Shock energy

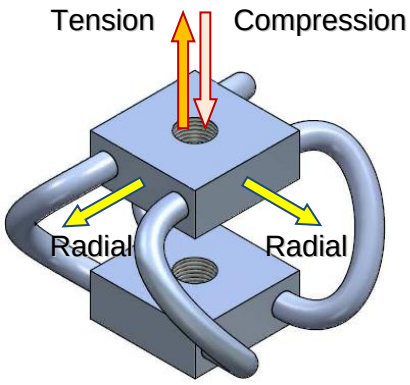
Rebound / Initial ≤ 65%

Frequency response

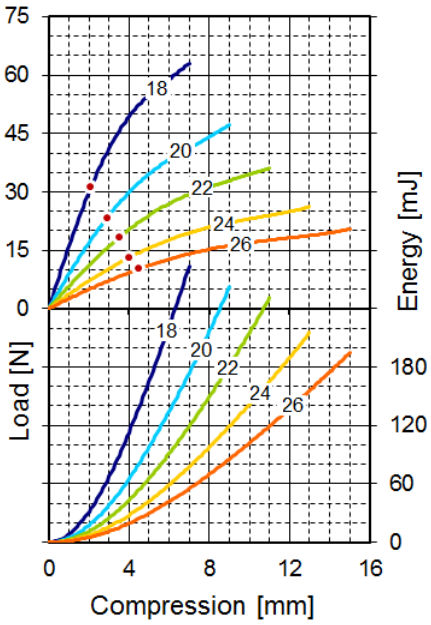
Measured at $0.003g^2/Hz$ random input

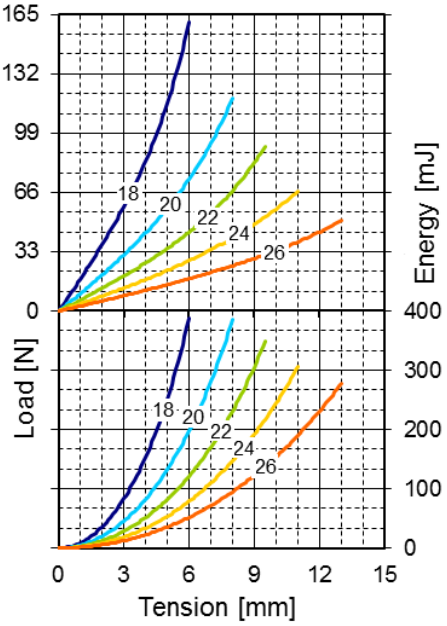
Typical tear resistance

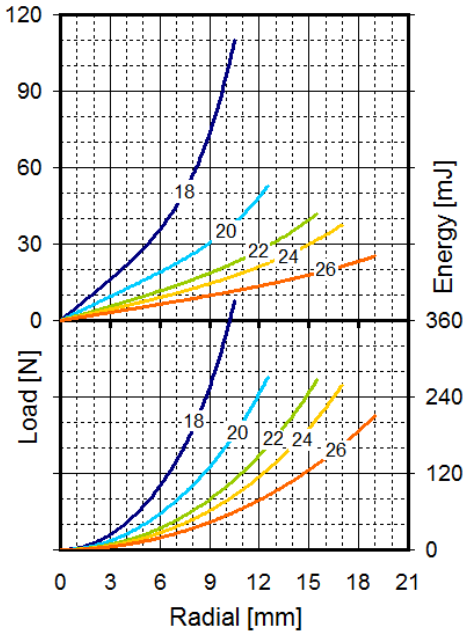
5.4[kN] Tension, 4.9[kN] Radial

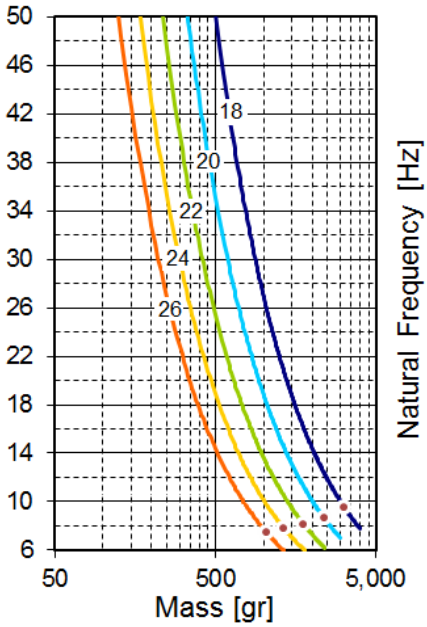


Typical performance tolerance ± 15%









• (Load limit for non-stationary applications)

D-flex
D32

D-flex is an all-metal isolator; it consists of coated aluminum plates and special stainless steel cables.

Its unique structure enables large deflections (in all axes) in relation to its geometrical dimensions, resulting in a compact installation size.

Its resonance magnification is very low and its rebound reaction to mechanical shock is small.

The isolators function without any change to their dynamic characteristics in a wide temperature range and can withstand oil, fuel and other aggressive environments.

The isolator is fail-safe in any direction and will continue to function after extreme emergency events such as fire or overloading.

The D-flex presents long life even under high loads due to its insensitivity to aging and creep.

The wide variety of types and sizes available and the ability to install the isolator in any direction should enable compliance with any design requirement. However, a non-standard type can be customized to meet specific dynamic properties or environmental resistance.

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Materials

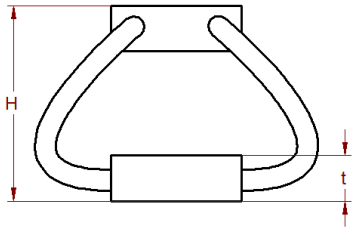
Cable: SS-316
Plate: AL-6061-T6
Alodine per MIL-C-5541B (RoHS)

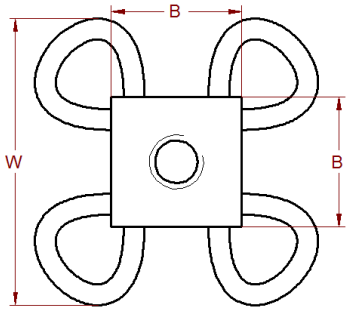
Temperature range

-70^{0}C to +260^{0}C

Typical Conductivity

<10m·





Dimensions

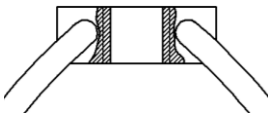
	H [mm]	**W** [mm]
D32-24	24	35.5
D32-27	27	39.0
D32-30	30	43.0
D32-33	33	46.5
D32-36	36	50.5

B = 16mm t = 6mm

Typical dimension tolerance ± 5%

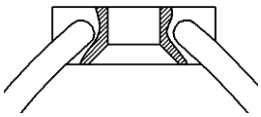
Interface - Thread options

M4
M5
M6
8-32
10-32
1/4"-20



Interface - Countersunk options

90^0 for M4
82^0 for 8-32



Ordering form

D32-H-Interface

H: From table above

Interface: M4 ➡ M4
8-32 ➡ 832
1/4-20 ➡ 1420
90^0 for M4➡ C904
82^0 for 8-32 ➡ C828

Ordering examples:

D32-24-832
H = 24
Thread 8-32

D32-33-C904-M4
H = 33
Countersunk for M4 top, M4 bottom

D32-27-1032-1420
H = 27
10-32 top, 1/4-20 bottom

D-flex
D32

Selecting the right isolator

NF - Natural Frequency

The charts were measured at a 0.003g²/Hz flat random input.

Increasing the input level to 0.01g²/Hz may lower the system NF by 10%.

Decreasing the input level to 0.001g²/Hz may raise the system NF by 10%.

Verify that the dynamic displacements of the isolator are greater than the dynamic travel of the system when exposed to its spec vibrations.

If the series NFs are too high, consider using a lower series or increasing the mass.

Shock Response

The easiest way to evaluate shock response is using the energy method:

- Calculate mass (m) initial shock energy: Ei = 0.5mV² (or Ei = mgH for drop).
- Find the shock displacement (Ds) on the energy chart.
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- Calculate the reaction acceleration: Go = Fs/(mg).
- If dynamic deflection occurs in the gravity direction, the potential energy change should be added or deducted from the initial shock energy.

For calculation of rebound reactions use the same method.

Rebound initial mass energy: Er≤ 0.65Ei.

If the shock energy is too high for this series consider using a

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Typical Damping

Random vibration

Magnification at resonance: Q≈3

Shock energy

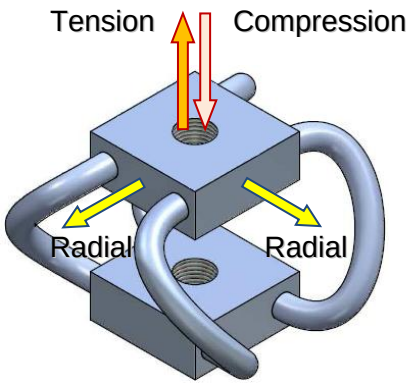
Rebound / Initial ≤ 65%

Frequency response

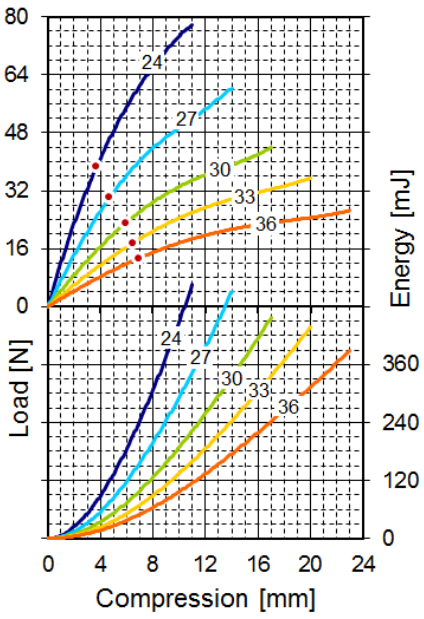
Measured at 0.003g²/Hz random input

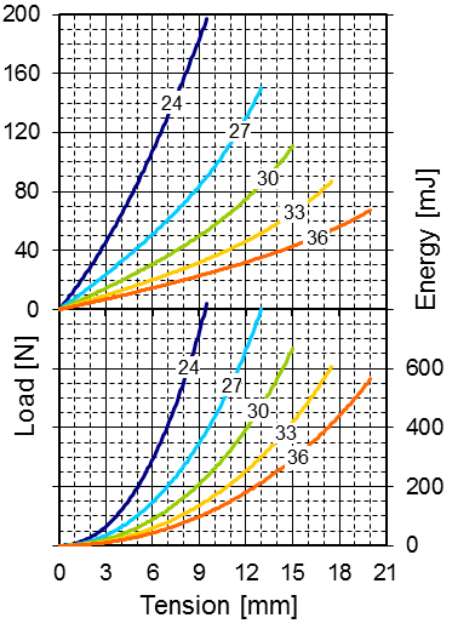
Typical tear resistance

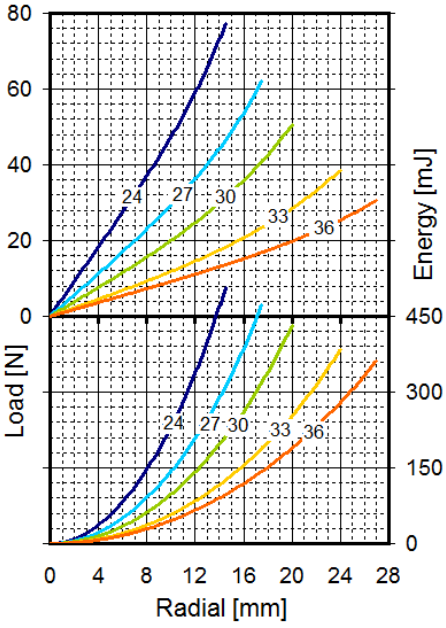
3.5[kN] Tension, 2.6[kN] Radial

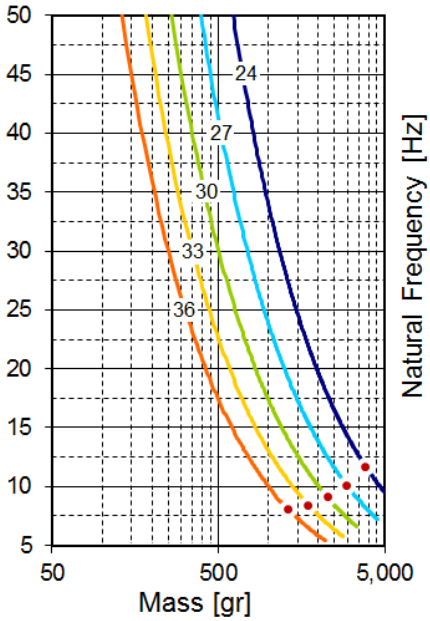


Typical performance tolerance ± 15%









• (Load limit for non-stationary applications)

Dynamica
Noise & Vibration Control

D-flex
D40

D-flex is an all-metal isolator; it consists of coated aluminum plates and special stainless steel cables.

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Its resonance magnification is very low and its rebound reaction to mechanical shock is small.

The isolators function without any change to their dynamic characteristics in a wide temperature range and can withstand oil, fuel and other aggressive environments.

The isolator is fail-safe in any direction and will continue to function after extreme emergency events such as fire or overloading.

The D-flex presents long life even under high loads due to its insensitivity to aging and creep.

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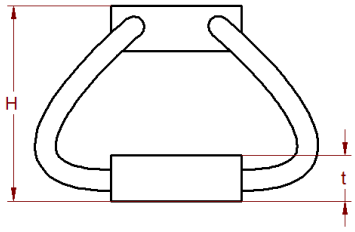
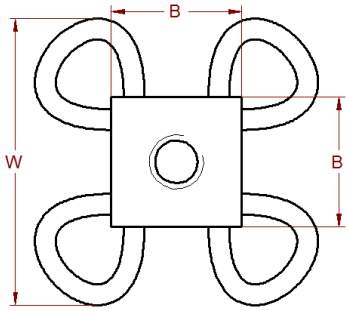
Materials
Cable: SS-316
Plate: AL-6061-T6
Alodine per MIL-C-5541B (RoHS)

Temperature range
-70^{0}C to +260^{0}C

Typical Conductivity
<10m·





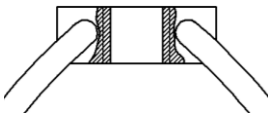
Dimensions

	H [mm]	**W** [mm]
D40-26	26	37
D40-30	30	42
D40-35	35	47
D40-39	39	52

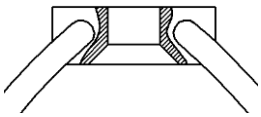
B = 19mm t = 7.5mm

Typical dimension tolerance ± 5%

Interface - Thread options
M4
M5
M6
8-32
10-32
1/4"-20



Interface - Countersunk options
90^0 for M4
90^0 for M5
82^0 for 8-32
82^0 for 10-32



Ordering form
D40-H-Interface

H: From table above

Interface: M4 ➡ M4
8-32 ➡ 832
1/4-20 ➡ 1420
90^0 for M4➡ C904
82^0 for 8-32 ➡ C828

Ordering examples:

D40-26-832
H = 26
Thread 8-32

D40-35-C905-M5
H = 35
Countersunk for M5 top, M5 bottom

D40-30-1032-1420
H = 30
10-32 top, 1/4-20 bottom

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D-flex
D40

Selecting the right isolator

NF - Natural Frequency

The charts were measured at a $0.003g^2/Hz$ flat random input. Increasing the input level to $0.01g^2/Hz$ may lower the system NF by 10%. Decreasing the input level to $0.001g^2/Hz$ may raise the system NF by 10%.

Verify that the dynamic displacements of the isolator are greater than the dynamic travel of the system when exposed to its spec vibrations.

If the series NFs are too high, consider using a lower series or increasing the mass.

Shock Response

The easiest way to evaluate shock response is using the energy method:

- Calculate mass (m) initial shock energy: $Ei = 0.5mV^2$ (or $Ei = mgH$ for drop).
- Find the shock displacement (Ds) on the energy chart.
- Find the reaction force (Fs) on the load chart (@Ds).
- Calculate the reaction acceleration: $Go = Fs/(mg)$.
- If dynamic deflection occurs in the gravity direction, the potential energy change should be added or deducted from the initial shock energy.

For calculation of rebound reactions use the same method.
Rebound initial mass energy: $Er \leq 0.65Ei$.

If the shock energy is too high for this series consider using a higher series or increasing the

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Typical Damping

Random vibration

Magnification at resonance: Q≈3

Shock energy

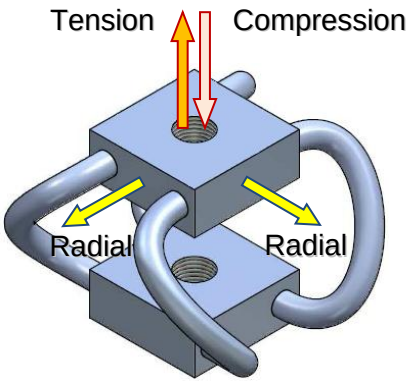
Rebound / Initial ≤ 65%

Frequency response

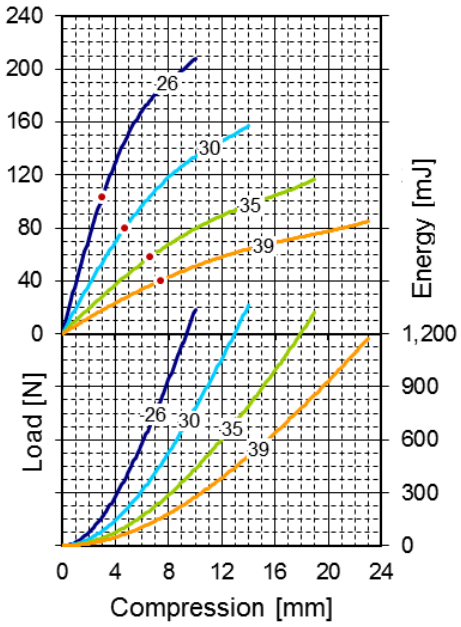
Measured at $0.003g^2/Hz$ random input

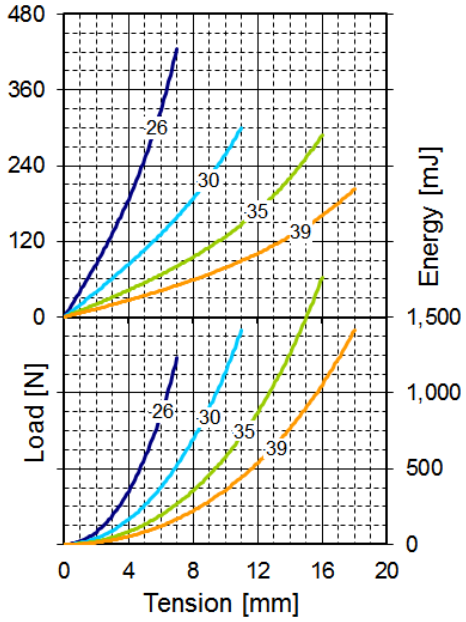
Typical tear resistance

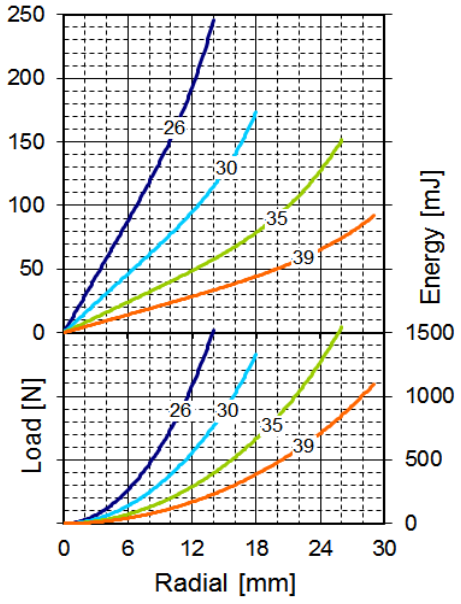
3.5[kN] Tension, 2.0[kN] Radial

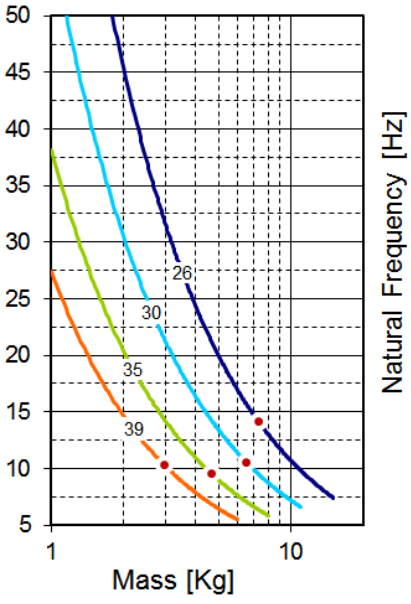


Typical performance tolerance ± 15%









• (Load limit for non-stationary applications)

Dynamica
Noise & Vibration Control

H-flex
H63-60-72-8

H-flex is an all-metal isolator; it consists of coated aluminum plates and special stainless-steel cables.

Its unique structure enables large deflections (in all axes) in relation to its geometrical dimensions, resulting in a compact installation size.

Its resonance magnification is very low and its rebound reaction to mechanical shock is small.

The isolators operate without any change to their dynamic characteristics in a wide temperature range and can withstand oil, fuel and other aggressive environments.

The isolator is fail-safe in any direction and will maintain performance after extreme emergency events such as fire or overloading.

The H-flex presents long life even under high loads due to its insensitivity to aging and creep.

The wide variety of types and sizes available and the ability to install the isolator in any direction should enable compliance with any design requirement. However, a non-standard type can be customized to meet specific dynamic properties or environmental resistance.

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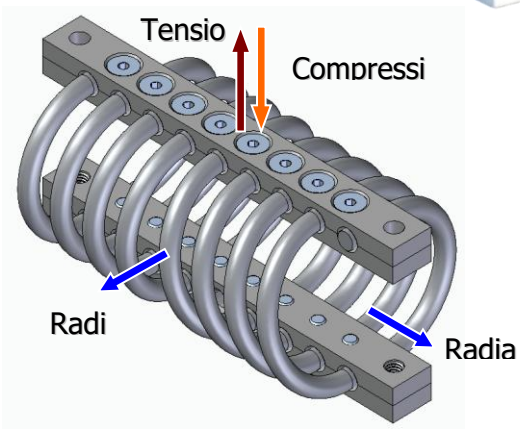
Materials
Cable: SS-316
Plate: AL-6061-T6 Alodine (RoHS)
Bolts: Stainless steel

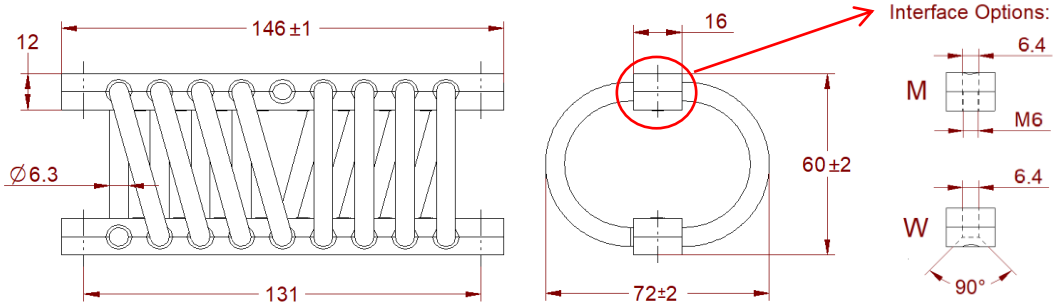
Temperature range
-70^{0}C to +260^{0}C

Typical resistance
<2x10^{-3}·

Weight: 0.41 kg



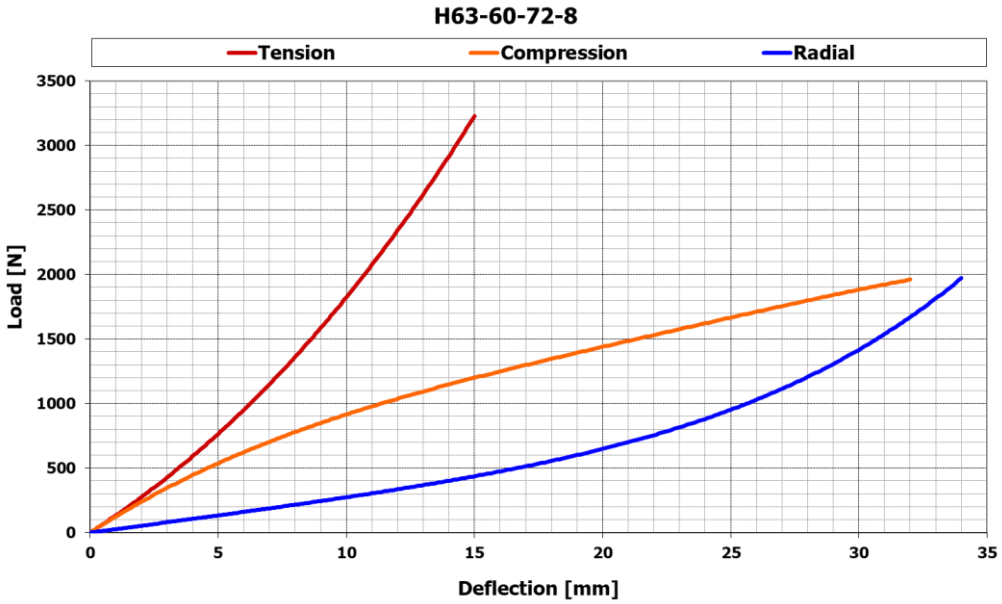
Dimensions



Ordering Form – Interface Options: H63-60-72-8 ☐☐

☐☐: **MM** ➡ both sides M6 thread
WW ➡ both sides countersink hole
MW ➡ one side M6 thread, one side countersink hole

Performance
Quality factor: 3.5



H-flex
H95-89-108-8

H-flex is an all-metal isolator; it consists of coated aluminum plates and special stainless-steel cables.

Its unique structure enables large deflections (in all axes) in relation to its geometrical dimensions, resulting in a compact installation size.

Its resonance magnification is very low and its rebound reaction to mechanical shock is small.

The isolators operate without any change to their dynamic characteristics in a wide temperature range and can withstand oil, fuel and other aggressive environments.

The isolator is fail-safe in any direction and will maintain performance after extreme emergency events such as fire or overloading.

The H-flex presents long life even under high loads due to its insensitivity to aging and creep.

The wide variety of types and sizes available and the ability to install the isolator in any direction should enable compliance with any design requirement. However, a non-standard type can be customized to meet specific dynamic properties or environmental resistance.

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Materials

Cable: SS-316
Plate: AL-6061-T6 Alodine (RoHS)
Bolts: Stainless steel

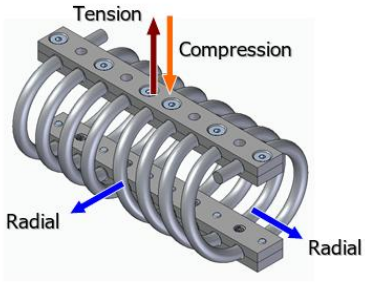
Temperature range

-70^{0}C to +260^{0}C

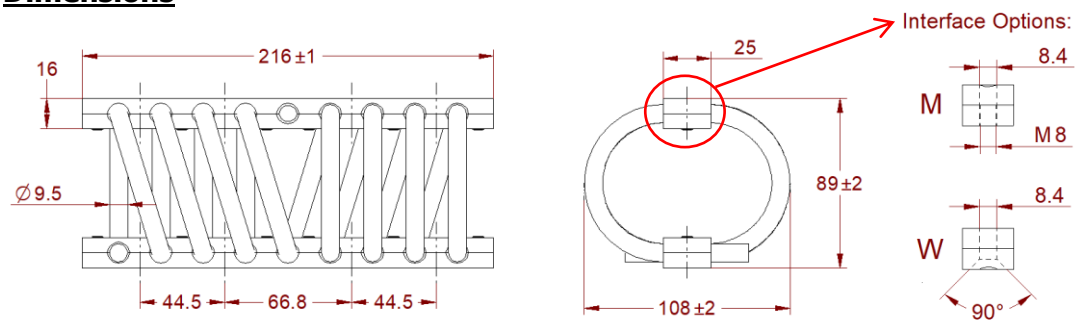
Typical resistance

<2x10^{-3}Ω

Weight: 1.1 kg



Dimensions



Ordering Form – Interface Options: H95-89-108-8 ☐☐

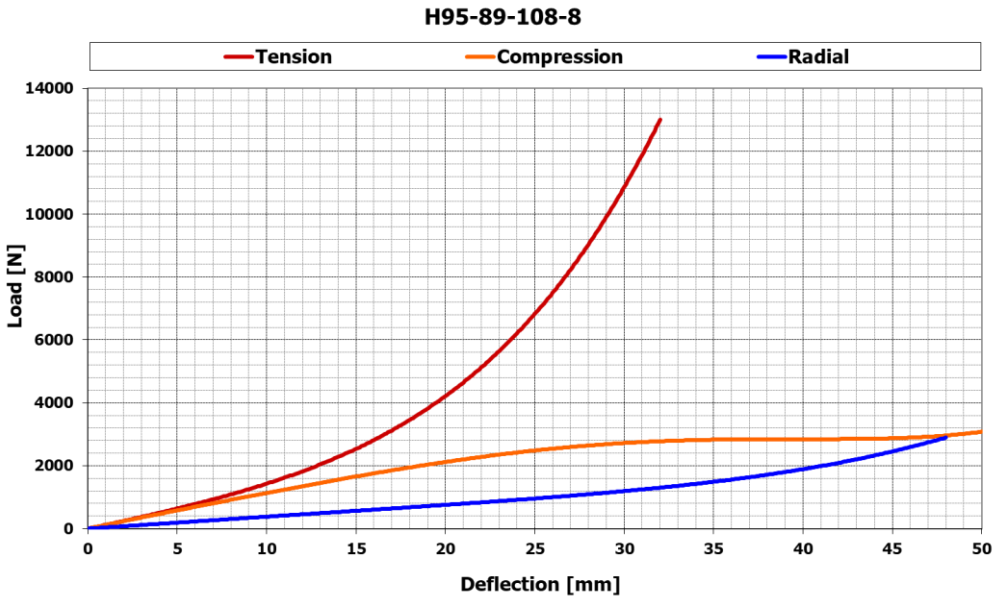
☐☐: **MM** ➡ both sides M8 thread

WW ➡ both sides countersink hole

MW ➡ one side M8 thread, one side countersink hole

Performance

Quality factor: 3.5



H-flex
H125-90-107-8

H-flex is an all-metal isolator; it consists of coated aluminum plates and special stainless-steel cables.

Its unique structure enables large deflections (in all axes) in relation to its geometrical dimensions, resulting in a compact installation size.

Its resonance magnification is very low and its rebound reaction to mechanical shock is small.

The isolators operate without any change to their dynamic characteristics in a wide temperature range and can withstand oil, fuel and other aggressive environments.

The isolator is fail-safe in any direction and will maintain performance after extreme emergency events such as fire or overloading.

The H-flex presents long life even under high loads due to its insensitivity to aging and creep.

The wide variety of types and sizes available and the ability to install the isolator in any direction should enable compliance with any design requirement. However, a non-standard type can be customized to meet specific dynamic properties or environmental resistance.

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Materials

Cable: SS-316
Plate: AL-6061-T6 Alodine (RoHS)
Bolts: Stainless steel

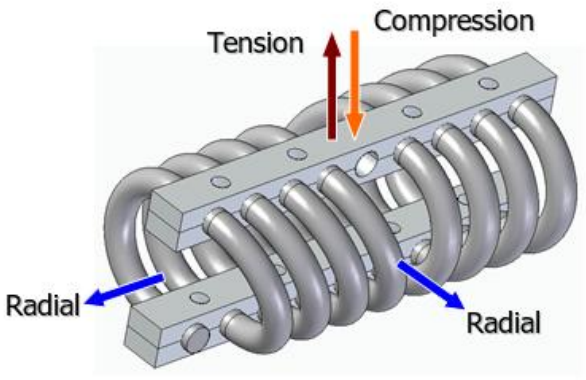
Temperature range

-70^{0}C to +260^{0}C

Typical resistance

<2x10^{-3}·

Weight: 1.9 kg



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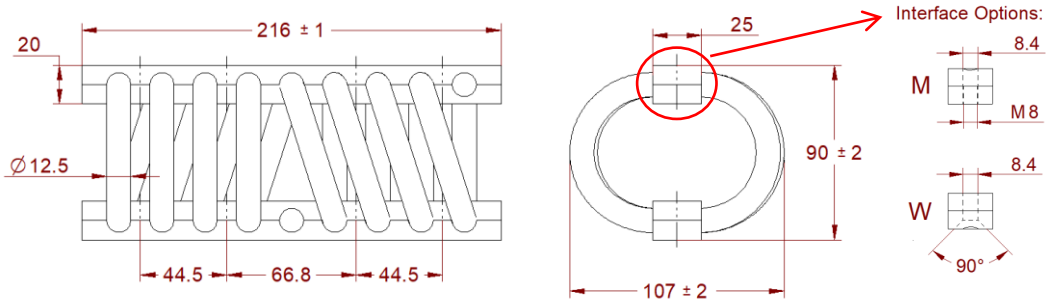
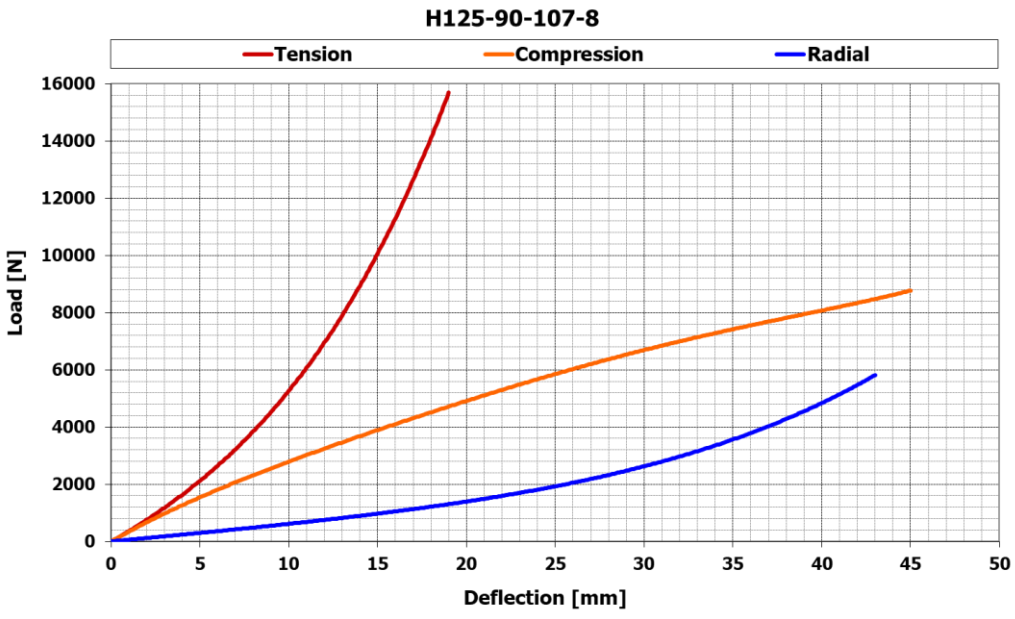


Ordering Form – Interface Options: H125-90-107-8 ☐☐

☐☐: **MM** ➡ both sides M8 thread
WW ➡ both sides countersink hole
MW ➡ one side M8 thread, one side countersink hole

Performance

Quality factor: 3.5



H-flex
H125-100-130-8

H-flex is an all-metal isolator; it consists of coated aluminum plates and special stainless-steel cables.

Its unique structure enables large deflections (in all axes) in relation to its geometrical dimensions, resulting in a compact installation size.

Its resonance magnification is very low and its rebound reaction to mechanical shock is small.

The isolators operate without any change to their dynamic characteristics in a wide temperature range and can withstand oil, fuel and other aggressive environments.

The isolator is fail-safe in any direction and will maintain performance after extreme emergency events such as fire or overloading.

The H-flex presents long life even under high loads due to its insensitivity to aging and creep.

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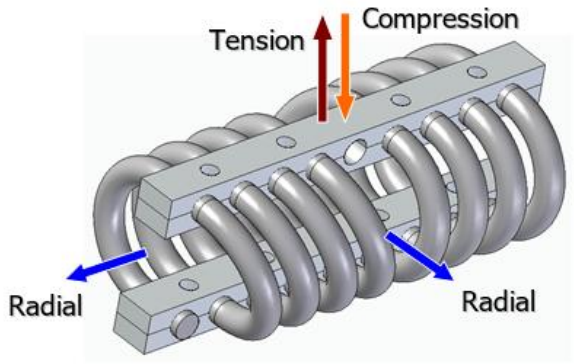
Materials

Cable: SS-316
Plate: AL-6061-T6 Alodine (RoHS)
Bolts: Stainless steel



Temperature range

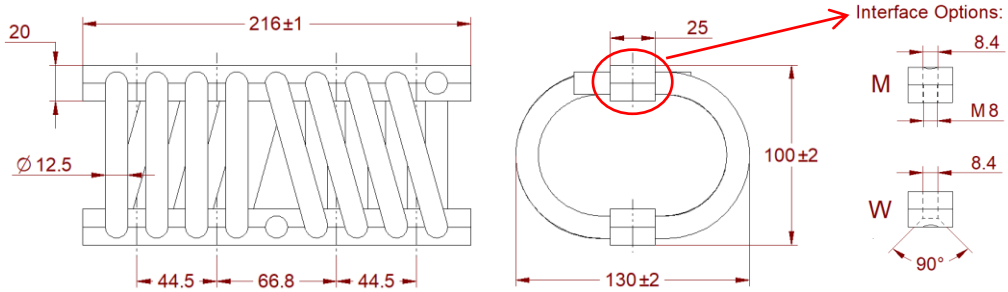
-70^0C to $+260^0$C

Typical resistance

$<2x10^{-3}\Omega$

Weight: 2 kg

Dimensions

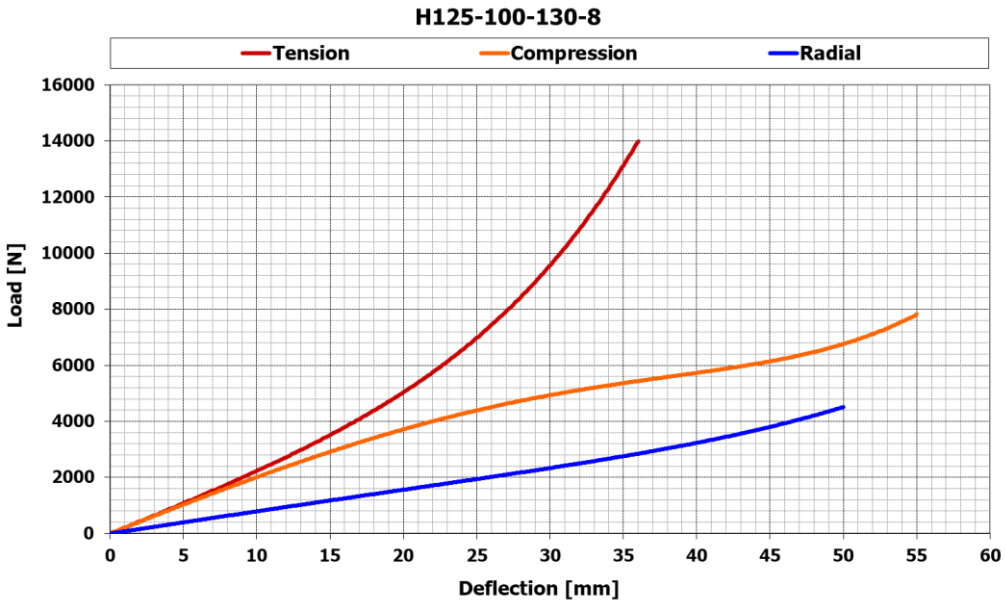


Ordering Form – Interface Options: H125-100-130-8☐☐

☐☐: **MM** ➡ both sides M8 thread
WW ➡ both sides countersink hole
MW ➡ one side M8 thread, one side countersink hole

Performance

Quality factor: 3.5



Dynamica
Noise & Vibration Control

H-flex
H125-110-150-8

H-flex is an all-metal isolator; it consists of coated aluminum plates and special stainless-steel cables.

Its unique structure enables large deflections (in all axes) in relation to its geometrical dimensions, resulting in a compact installation size.

Its resonance magnification is very low and its rebound reaction to mechanical shock is small.

The isolators operate without any change to their dynamic characteristics in a wide temperature range and can withstand oil, fuel and other aggressive environments.

The isolator is fail-safe in any direction and will maintain performance after extreme emergency events such as fire or overloading.

The H-flex presents long life even under high loads due to its insensitivity to aging and creep.

The wide variety of types and sizes available and the ability to install the isolator in any direction should enable compliance with any design requirement. However, a non-standard type can be customized to meet specific dynamic properties or environmental resistance.

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Materials

Cable: SS-316
Plate: AL-6061-T6 Alodine (RoHS)
Bolts: Stainless steel

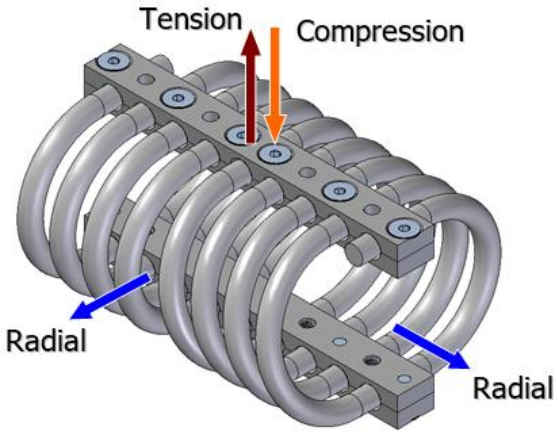
Temperature range

-70^{0}C to +260^{0}C

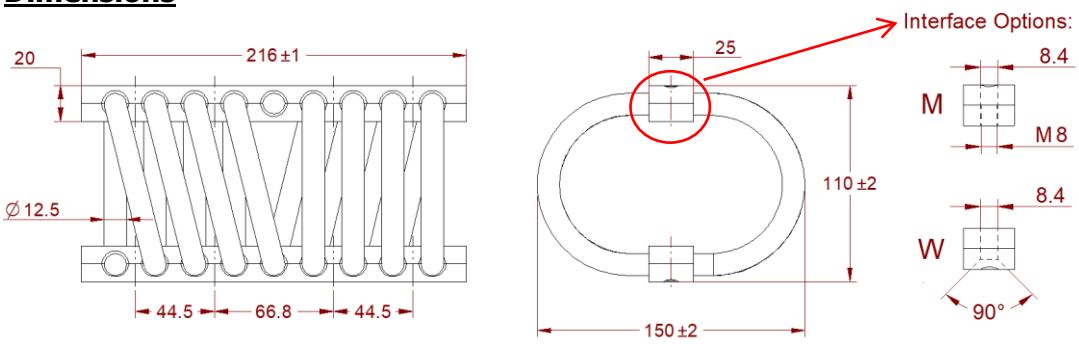
Typical resistance

<2x10^{-3} Ω

Weight: 2.4 kg



Dimensions

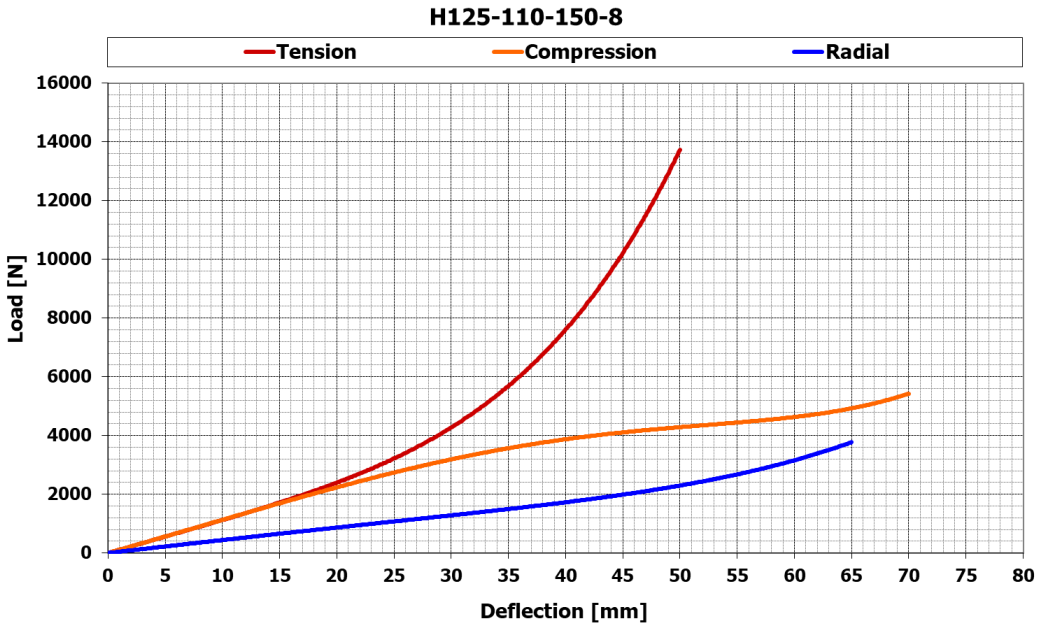


Ordering Form – Interface Options: H125-110-150-8 ☐☐

☐☐: **MM** ➡ both sides M8 thread
WW ➡ both sides countersink hole
MW ➡ one side M8 thread, one side countersink hole

Performance

Quality factor: 3.5



Dynamica
Noise & Vibration Control

H-flex
H160-100-125-8

H-flex is an all-metal isolator; it consists of coated aluminum plates and special stainless-steel cables.

Its unique structure enables large deflections (in all axes) in relation to its geometrical dimensions, resulting in a compact installation size.

Its resonance magnification is very low and its rebound reaction to mechanical shock is small.

The isolators operate without any change to their dynamic characteristics in a wide temperature range and can withstand oil, fuel and other aggressive environments.

The isolator is fail-safe in any direction and will maintain performance after extreme emergency events such as fire or overloading.

The H-flex presents long life even under high loads due to its insensitivity to aging and creep.

The wide variety of types and sizes available and the ability to install the isolator in any direction should enable compliance with any design requirement. However, a non-standard type can be customized to meet specific dynamic properties or environmental resistance.

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Materials

Cable: SS-316
Plate: AL-6061-T6 Alodine (RoHS)
Bolts: Stainless steel

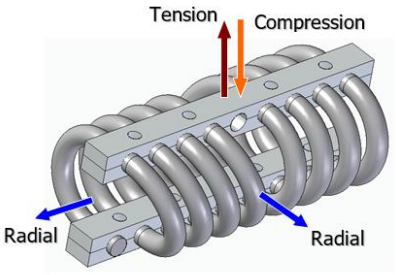
Temperature range

-70^{0}C to +260^{0}C

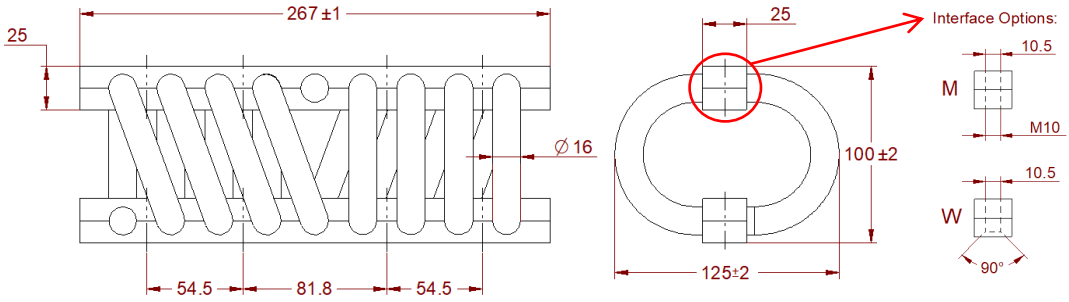
Typical resistance

<2x10^{-3}Ω

Weight: 3.2 kg



Dimensions

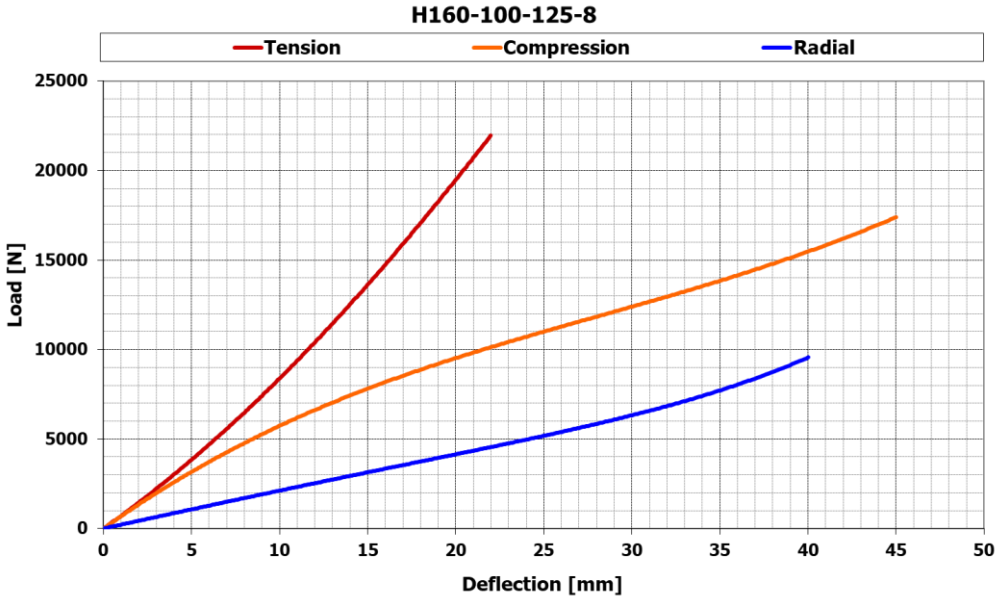


Ordering Form – Interface Options: H160-100-125-8 ☐☐

☐☐: **MM** ➡ both sides M10 thread
WW ➡ both sides countersink hole
MW ➡ one side M10 thread, one side countersink hole

Performance

Quality factor: 3.5



H-flex
H160-110-135-8

H-flex is an all-metal isolator; it consists of coated aluminum plates and special stainless-steel cables.

Its unique structure enables large deflections (in all axes) in relation to its geometrical dimensions, resulting in a compact installation size.

Its resonance magnification is very low and its rebound reaction to mechanical shock is small.

The isolators operate without any change to their dynamic characteristics in a wide temperature range and can withstand oil, fuel and other aggressive environments.

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The H-flex presents long life even under high loads due to its insensitivity to aging and creep.

The wide variety of types and sizes available and the ability to install the isolator in any direction should enable compliance with any design requirement. However, a non-standard type can be customized to meet specific dynamic properties or environmental resistance.

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Materials

Cable: SS-316

Plate: AL-6061-T6 Alodine (RoHS)

Bolts: Stainless steel

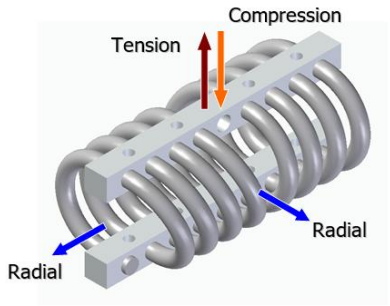
Temperature range

-70^{0}C to +260^{0}C

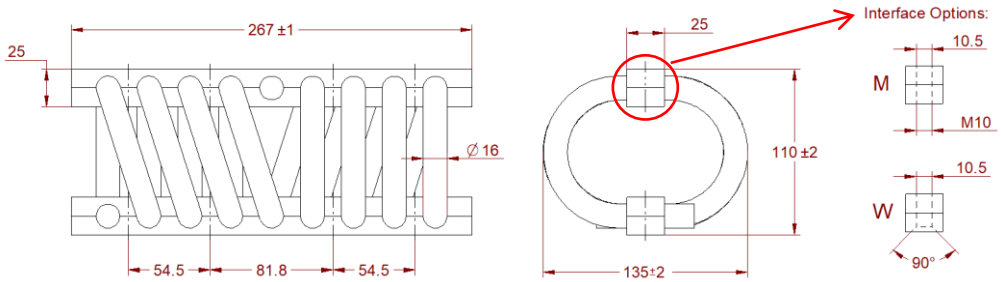
Typical resistance

<2x10^{-3} Ω

Weight: 3.5 kg



Dimensions



Ordering Form – Interface Options: H160-110-135-8 ☐☐

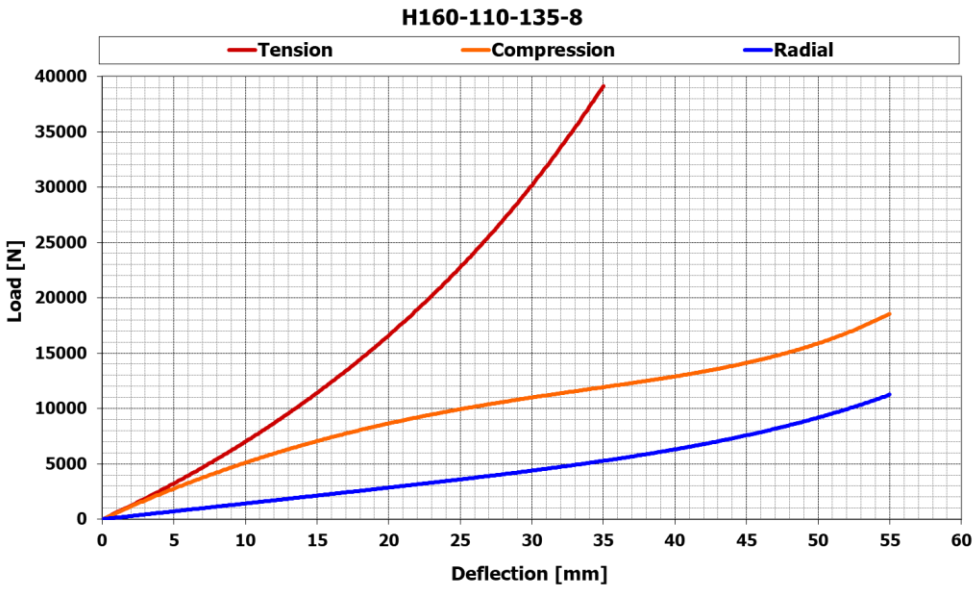
☐☐: **MM** ➡ both sides M10 thread

WW ➡ both sides countersink hole

MW ➡ one side M10 thread, one side countersink hole

Performance

Quality factor: 3.5



H-flex
H160-120-145-8

H-flex is an all-metal isolator; it consists of coated aluminum plates and special stainless-steel cables.

Its unique structure enables large deflections (in all axes) in relation to its geometrical dimensions, resulting in a compact installation size.

Its resonance magnification is very low and its rebound reaction to mechanical shock is small.

The isolators operate without any change to their dynamic characteristics in a wide temperature range and can withstand oil, fuel and other aggressive environments.

The isolator is fail-safe in any direction and will maintain performance after extreme emergency events such as fire or overloading.

The H-flex presents long life even under high loads due to its insensitivity to aging and creep.

The wide variety of types and sizes available and the ability to install the isolator in any direction should enable compliance with any design requirement. However, a non-standard type can be customized to meet specific dynamic properties or environmental resistance.

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Materials

Cable: SS-316

Plate: AL-6061-T6 Alodine

(RoHS)

Bolts: Stainless steel

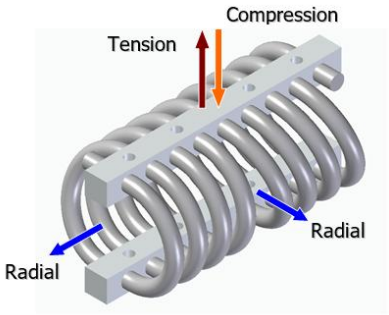
Temperature range

-70^{0}C to +260^{0}C

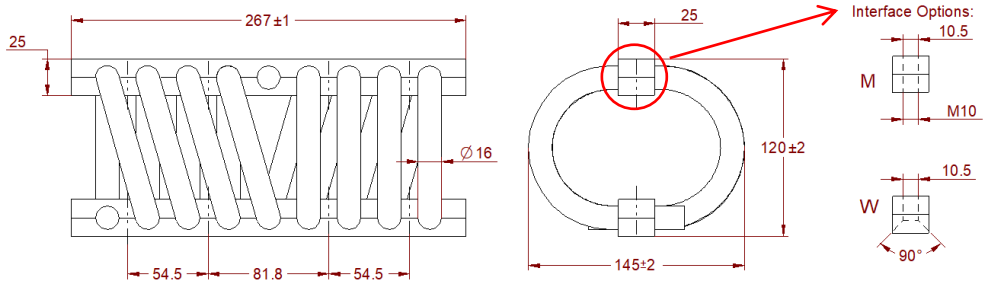
Typical resistance

<2x10^{-3} Ω

Weight: 3.7 kg



Dimensions



Ordering Form – Interface Options: H160-120-145-8☐☐

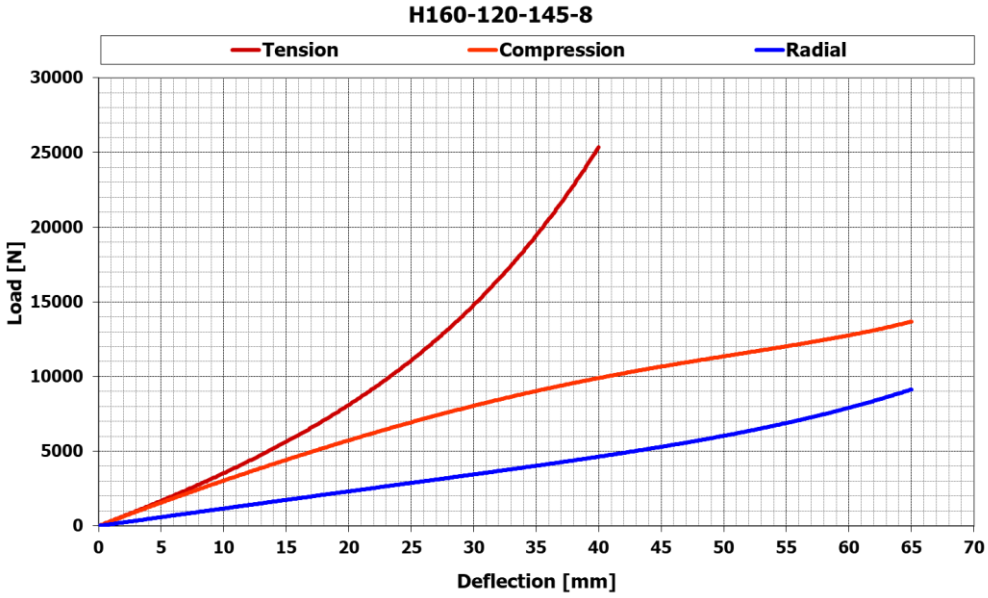
☐☐: **MM** ➡ both sides M10 thread

WW ➡ both sides countersink hole

MW ➡ one side M10 thread, one side countersink hole

Performance

Quality factor: 3.5



S-flex
S63-60-72-4

S-flex is an all-metal isolator; it consists of coated aluminum plates and special stainless-steel cables.

Its unique structure enables large deflections (in all axes) in relation to its geometrical dimensions, resulting in a compact installation size.

Its resonance magnification is very low and its rebound reaction to mechanical shock is small.

The isolators operate without any change to their dynamic characteristics in a wide temperature range and can withstand oil, fuel and other aggressive environments.

The isolator is fail-safe in any direction and will maintain performance after extreme emergency events such as fire or overloading.

The S-flex presents long life even under high loads due to its insensitivity to aging and creep.

The wide variety of types and sizes available and the ability to install the isolator in any direction should enable compliance with any design requirement. However, a non-standard type can be customized to meet specific dynamic properties or environmental resistance.

Dynamica Design Ltd.
POB 561 Kefar Vitkin
Israel 40200
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Fax 972-9-865-8666
www.dynamica.net

Materials

Cable: SS-316
Plate: AL-6061-T6 Alodine (RoHS)
Bolts: Stainless steel

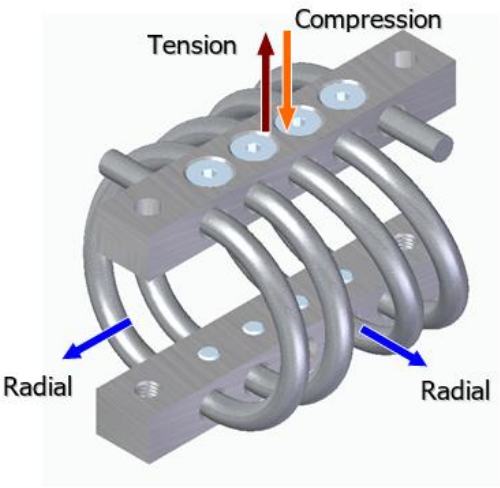
Temperature range

-70^0C to $+260^0$C

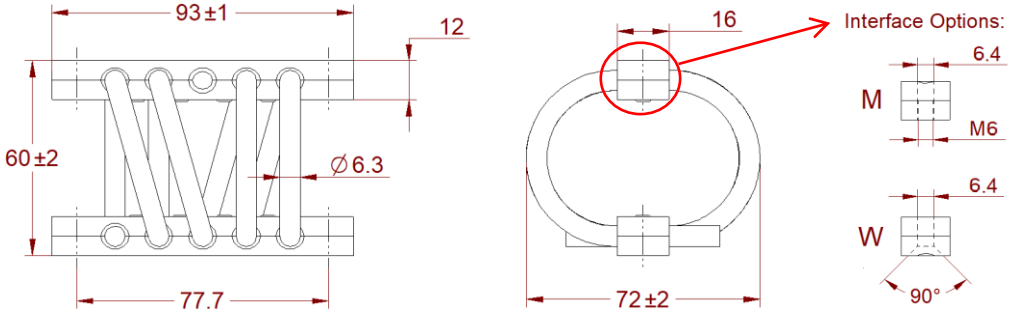
Typical resistance

$<2x10^{-3}$·

Weight: 0.2 kg



Dimensions

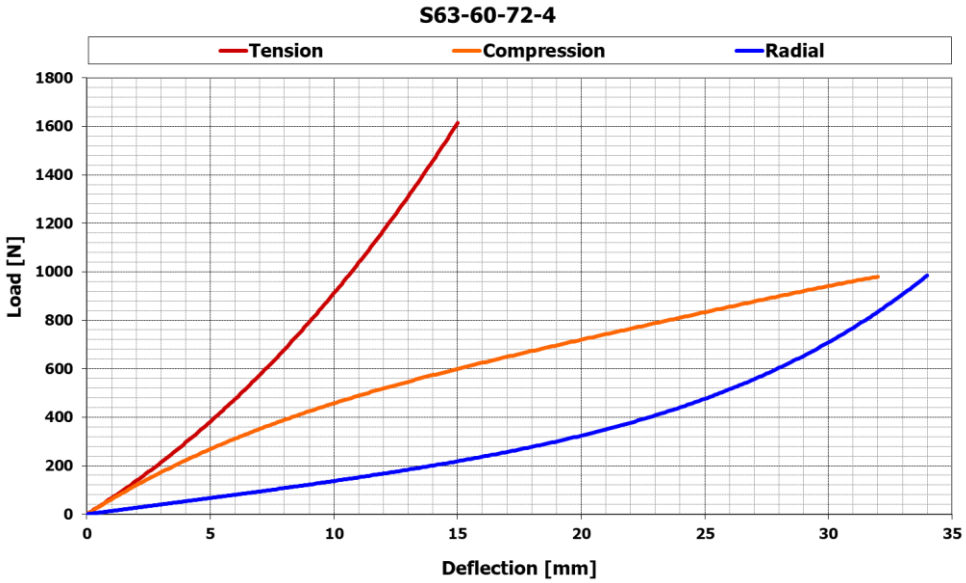


Ordering Form – Interface Options: S63-60-72-4☐☐

☐☐: **MM** ➡ both sides M6 thread
WW ➡ both sides countersink hole
MW ➡ one side M6 thread, one side countersink hole

Performance

Quality factor: 3.5



S-flex
S95-89-108-4

S-flex is an all-metal isolator; it consists of coated aluminum plates and special stainless-steel cables.

Its unique structure enables large deflections (in all axes) in relation to its geometrical dimensions, resulting in a compact installation size.

Its resonance magnification is very low and its rebound reaction to mechanical shock is small.

The isolators operate without any change to their dynamic characteristics in a wide temperature range and can withstand oil, fuel and other aggressive environments.

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Materials

Cable: SS-316
Plate: AL-6061-T6 Alodine (RoHS)
Bolts: Stainless steel

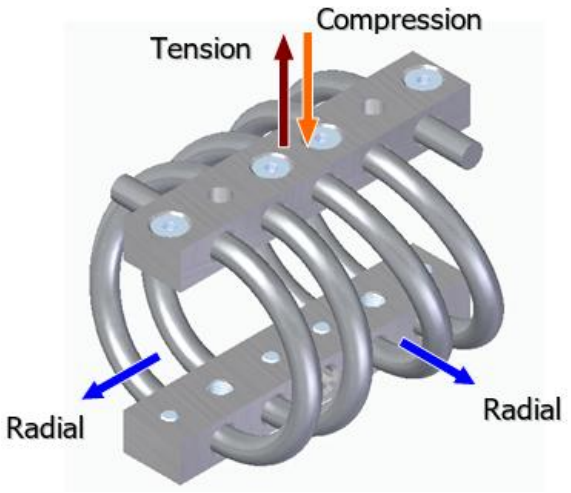
Temperature range

-70^0C to $+260^0$C

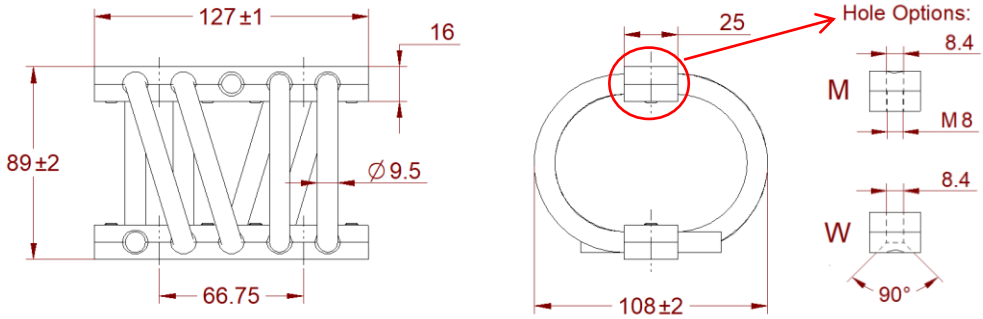
Typical resistance

$<2x10^{-3}$ Ω

Weight: 0.6 kg



Dimensions

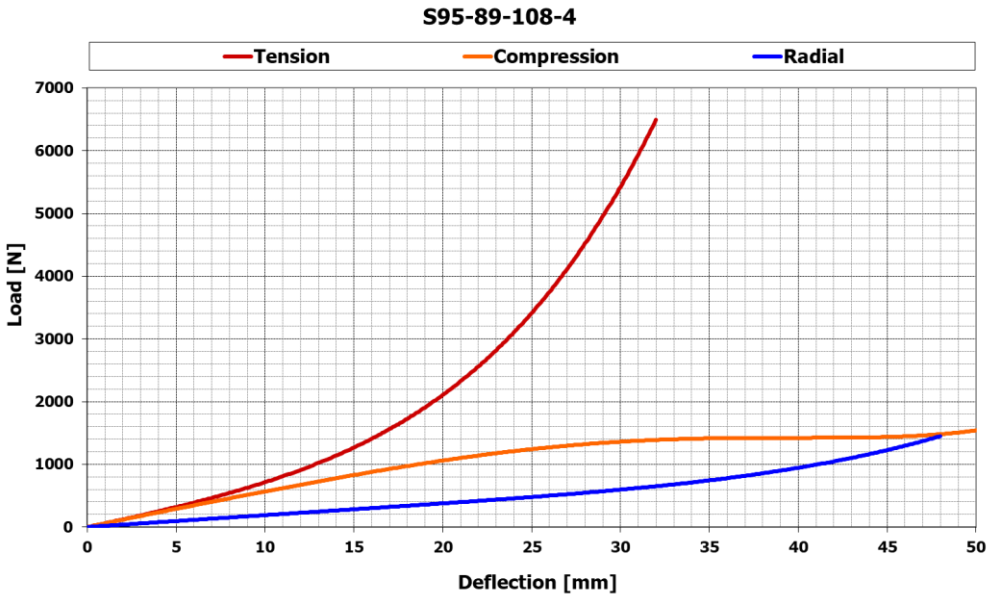


Ordering Form – Interface Options: S95-89-108-4 ☐☐

☐☐: **MM** ➡ both sides M8 thread
WW ➡ both sides countersink hole
MW ➡ one side M8 thread, one side countersink hole

Performance

Quality factor: 3.5



Dynamica
Noise & Vibration Control

S-flex
S125-90-107-4

S-flex is an all-metal isolator; it consists of coated aluminum plates and special stainless-steel cables.

Its unique structure enables large deflections (in all axes) in relation to its geometrical dimensions, resulting in a compact installation size.

Its resonance magnification is very low and its rebound reaction to mechanical shock is small.

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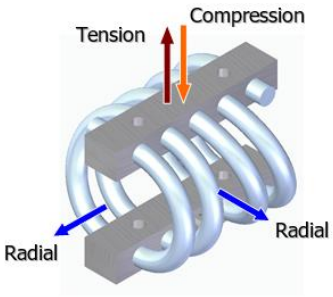


Materials

Cable: SS-316
Plate: AL-6061-T6 Alodine (RoHS)
Bolts: Stainless steel

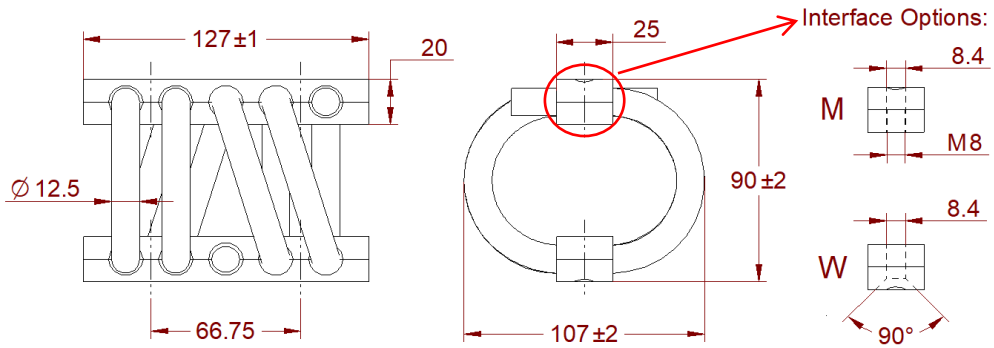
Temperature range

-70^{0}C to +260^{0}C

Typical resistance

<2x10^{-3}.

Dimensions



Ordering Form – Interface Options: S125-90-107-4☐☐

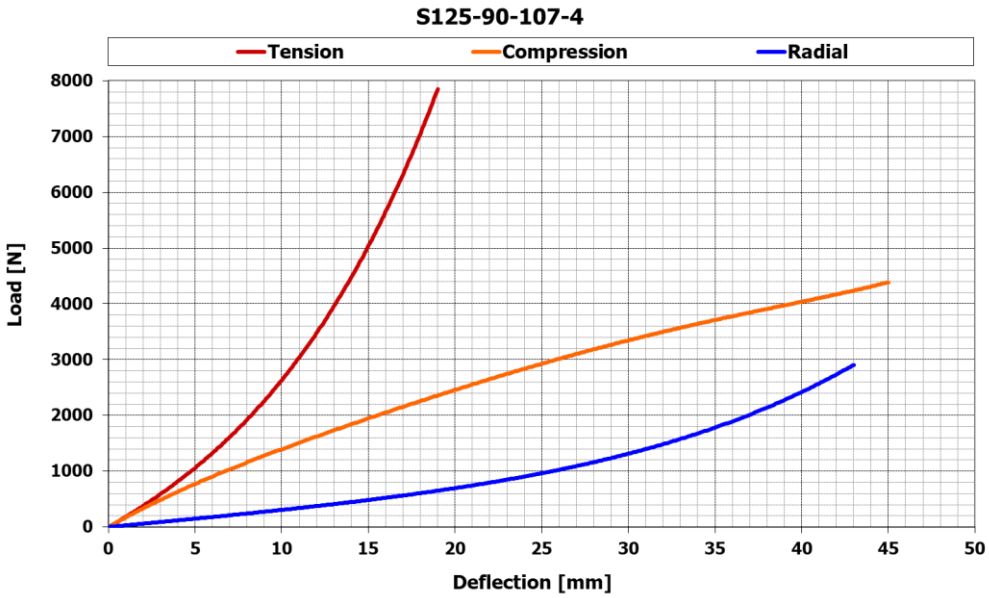
☐☐: **MM** ➡ both sides M8 thread

WW ➡ both sides countersink hole

MW ➡ one side M8 thread, one side countersink hole

Performance

Quality factor: 3.5



Dynamica
Noise & Vibration Control

S-flex
S125-100-130-3

S-flex is an all-metal isolator; it consists of coated aluminum plates and special stainless-steel cables.

Its unique structure enables large deflections (in all axes) in relation to its geometrical dimensions, resulting in a compact installation size.

Its resonance magnification is very low and its rebound reaction to mechanical shock is small.

The isolators operate without any change to their dynamic characteristics in a wide temperature range and can withstand oil, fuel and other aggressive environments.

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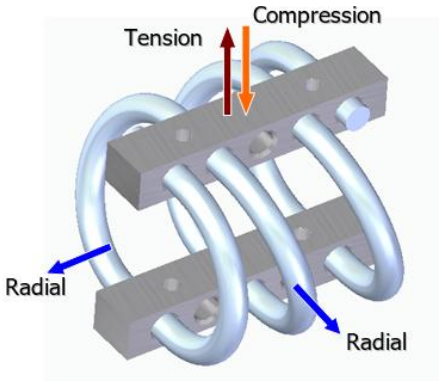


Materials

Cable: SS-316
Plate: AL-6061-T6 Alodine (RoHS)
Bolts: Stainless steel

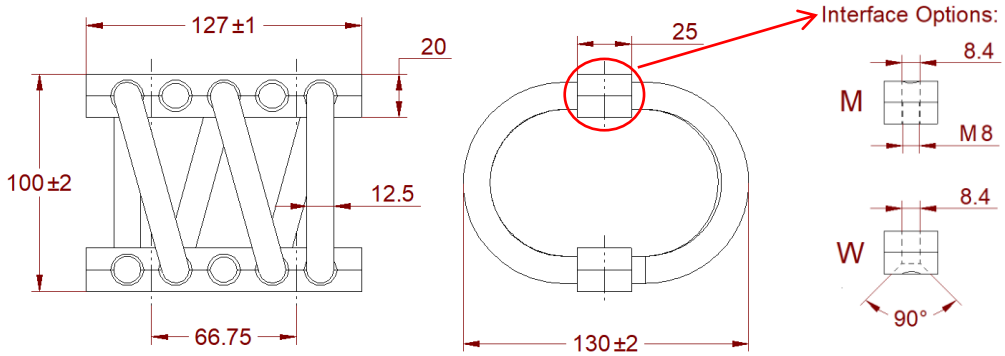
Temperature range

-70^0C to $+260^0$C

Typical resistance

$<2x10^{-3}\Omega$

Dimensions

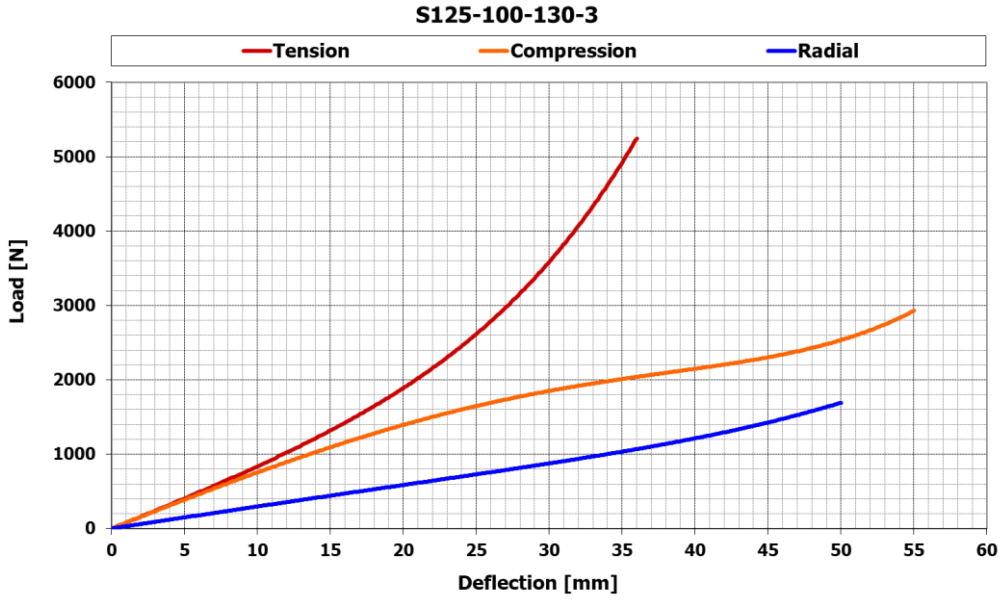


Ordering Form – Interface Options: S125-100-130-3☐☐

☐☐: **MM** ➡ both sides M8 thread
WW ➡ both sides countersink hole
MW ➡ one side M8 thread, one side countersink hole

Performance

Quality factor: 3.5



Dynamica
Noise & Vibration Control

S-flex
S125-100-130-4

S-flex is an all-metal isolator; it consists of coated aluminum plates and special stainless-steel cables.

Its unique structure enables large deflections (in all axes) in relation to its geometrical dimensions, resulting in a compact installation size.

Its resonance magnification is very low and its rebound reaction to mechanical shock is small.

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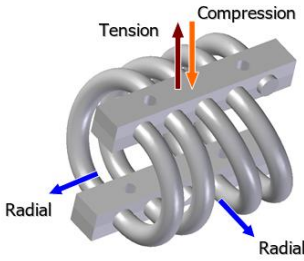
Materials

Cable: SS-316

Plate: AL-6061-T6 Alodine (RoHS)

Bolts: Stainless steel



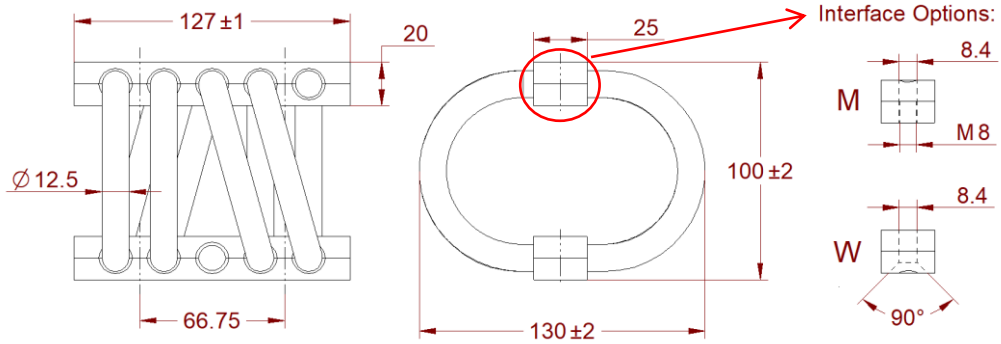
Temperature range

-70^0C to $+260^0$C

Typical resistance

$<2x10^{-3}$ Ω

Dimensions



Ordering Form – Interface Options: S125-100-130-4□□

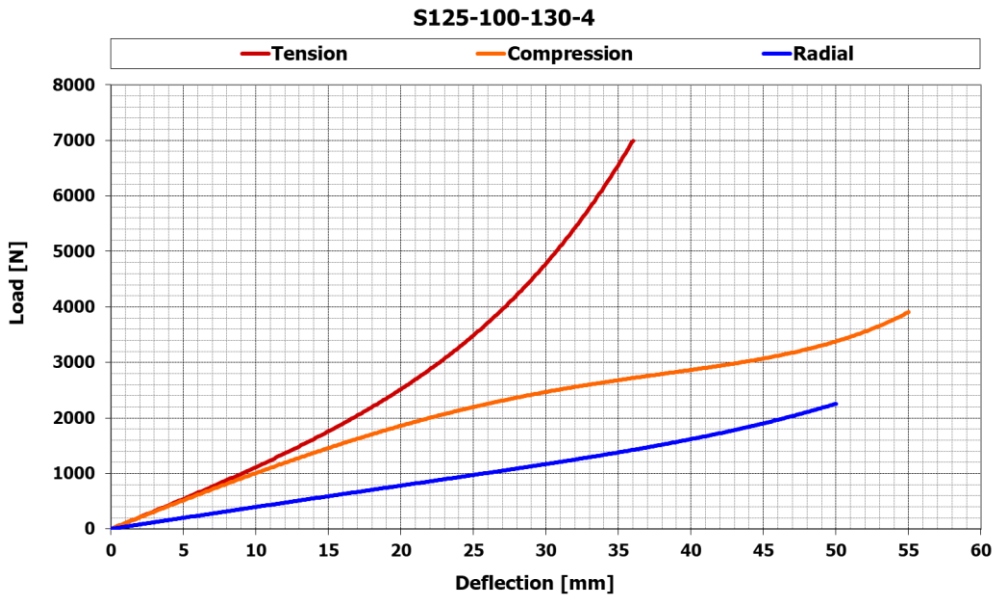
□□: **MM** ➡ both sides M8 thread

WW ➡ both sides countersink hole

MW ➡ one side M8 thread, one side countersink hole

Performance

Quality factor: 3.5



Dynamica
Noise & Vibration Control

S-flex
S125-100-140-4

S-flex is an all-metal isolator; it consists of coated aluminum plates and special stainless-steel cables.

Its unique structure enables large deflections (in all axes) in relation to its geometrical dimensions, resulting in a compact installation size.

Its resonance magnification is very low and its rebound reaction to mechanical shock is small.

The isolators operate without any change to their dynamic characteristics in a wide temperature range and can withstand oil, fuel and other aggressive environments.

The isolator is fail-safe in any direction and will maintain performance after extreme emergency events such as fire or overloading.

The S-flex presents long life even under high loads due to its insensitivity to aging and creep.

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Materials

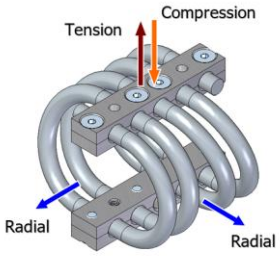
Cable: SS-316
Plate: AL-6061-T6 Alodine (RoHS)
Bolts: Stainless steel

Temperature range

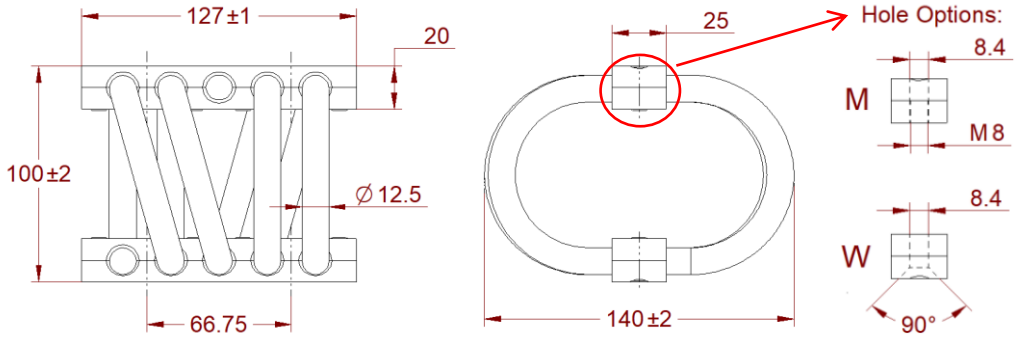
-70^{0}C to +260^{0}C

Typical resistance

<2x10^{-3}Ω



Dimensions



Ordering Form – Interface Options: S125-100-140-4☐☐

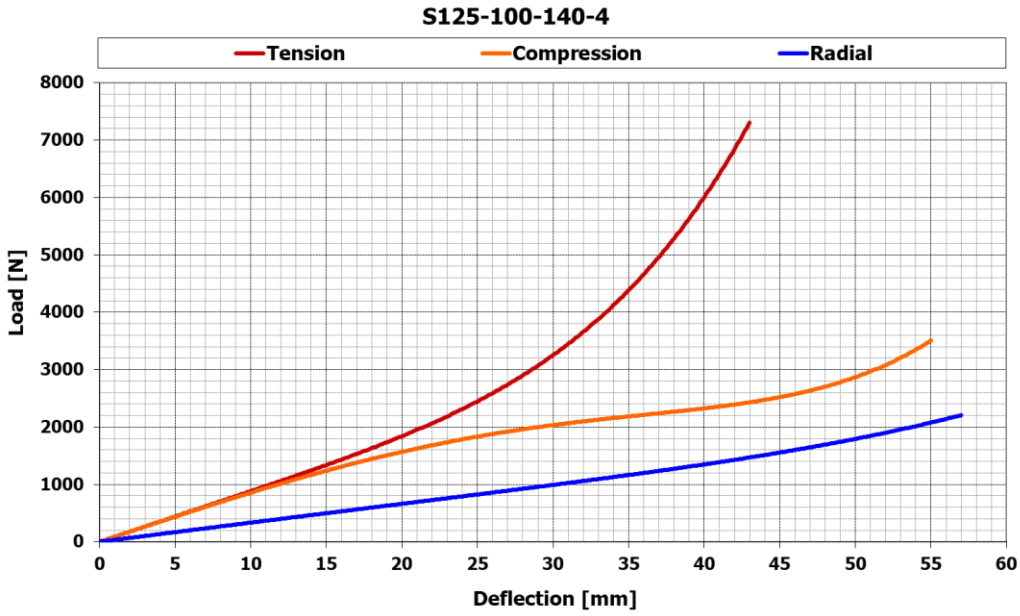
☐☐: **MM** ➡ both sides M8 thread

WW ➡ both sides countersink hole

MW ➡ one side M8 thread, one side countersink hole

Performance

Quality factor: 3.5



Dynamica
Noise & Vibration Control

S-flex
S125-110-150-4

S-flex is an all-metal isolator; it consists of coated aluminum plates and special stainless-steel cables.

Its unique structure enables large deflections (in all axes) in relation to its geometrical dimensions, resulting in a compact installation size.

Its resonance magnification is very low and its rebound reaction to mechanical shock is small.

The isolators operate without any change to their dynamic characteristics in a wide temperature range and can withstand oil, fuel and other aggressive environments.

The isolator is fail-safe in any direction and will maintain performance after extreme emergency events such as fire or overloading.

The S-flex presents long life even under high loads due to its insensitivity to aging and creep.

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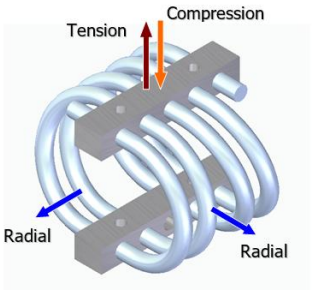
Materials

Cable: SS-316
Plate: AL-6061-T6 Alodine (RoHS)
Bolts: Stainless steel



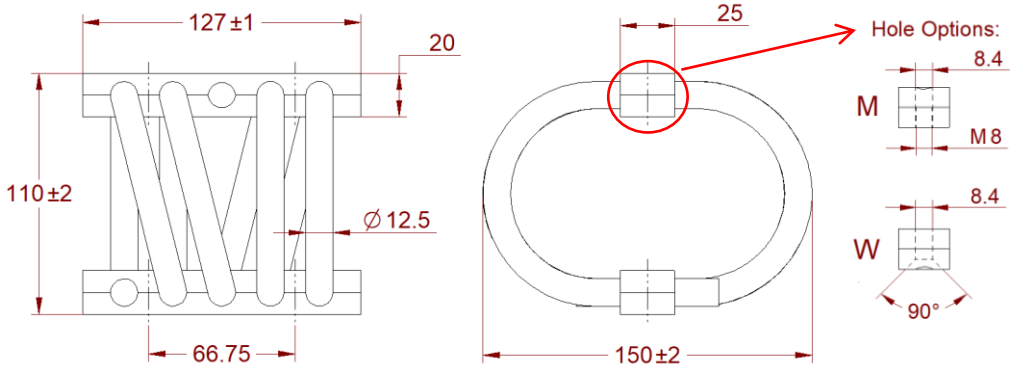
Temperature range

-70^0C to $+260^0$C

Typical resistance

$<2x10^{-3}\Omega$

Dimensions

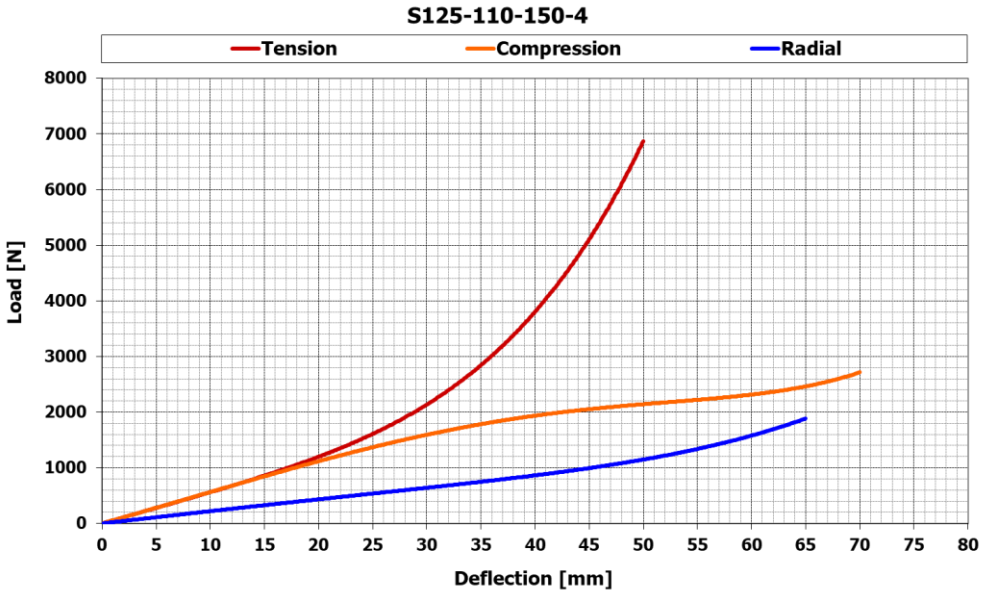


Ordering Form – Interface Options: S125-110-150-4□□

□□: **MM** ➡ both sides M8 thread
WW ➡ both sides countersink hole
MW ➡ one side M8 thread, one side countersink hole

Performance

Quality factor: 3.5



S-flex
S160-100-125-3

S-flex is an all-metal isolator; it consists of coated aluminum plates and special stainless-steel cables.

Its unique structure enables large deflections (in all axes) in relation to its geometrical dimensions, resulting in a compact installation size.

Its resonance magnification is very low and its rebound reaction to mechanical shock is small.

The isolators operate without any change to their dynamic characteristics in a wide temperature range and can withstand oil, fuel and other aggressive environments.

The isolator is fail-safe in any direction and will maintain performance after extreme emergency events such as fire or overloading.

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Materials

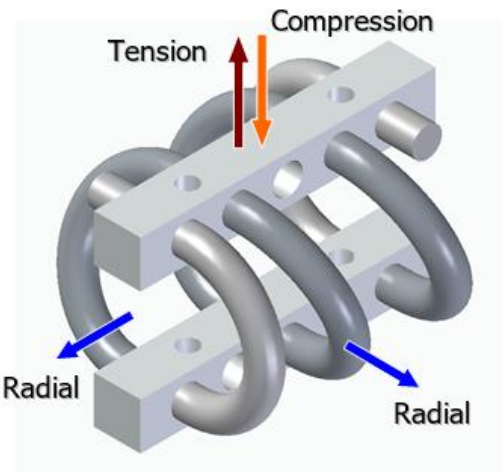
Cable: SS-316
Plate: AL-6061-T6 Alodine (RoHS)
Bolts: Stainless steel

Temperature range

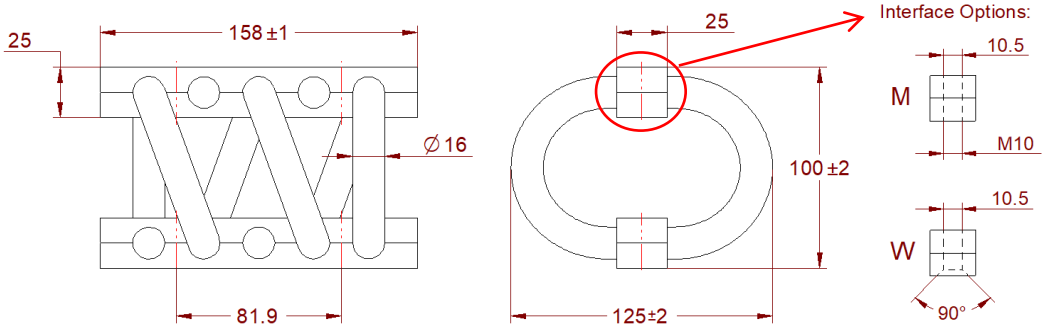
-70^0C to $+260^0$C

Typical resistance

$<2x10^{-3}$·



Dimensions



Ordering Form – Interface Options: S160-100-125-3 ☐☐

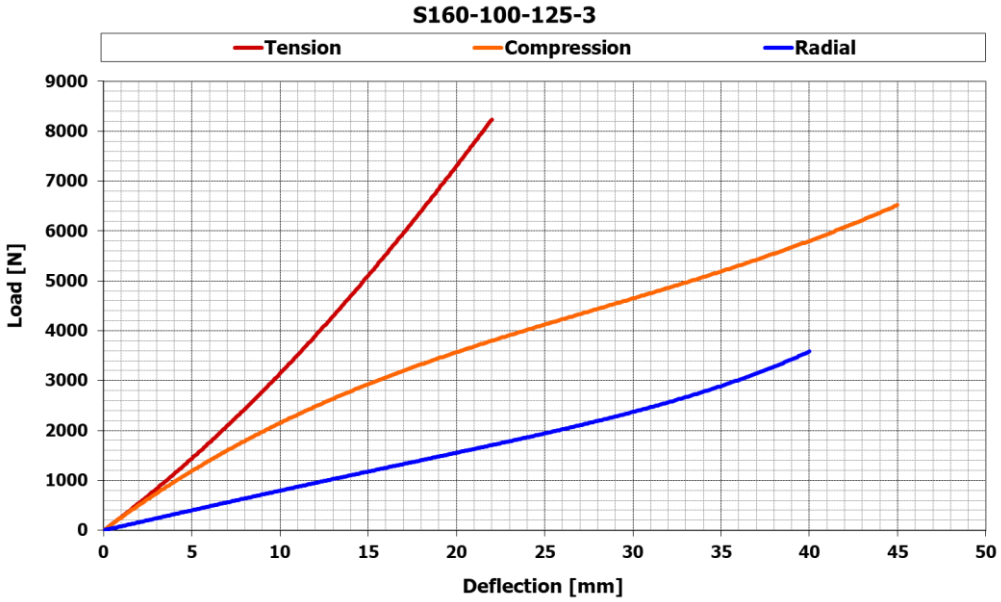
☐☐: **MM** ➡ both sides M10 thread

WW ➡ both sides countersink hole

MW ➡ one side M10 thread, one side countersink hole

Performance

Quality factor: 3.5



S-flex
S160-100-125-4

S-flex is an all-metal isolator; it consists of coated aluminum plates and special stainless-steel cables.

Its unique structure enables large deflections (in all axes) in relation to its geometrical dimensions, resulting in a compact installation size.

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Materials

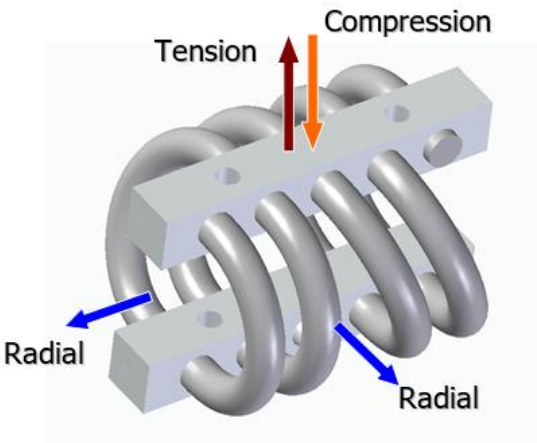
Cable: SS-316
Plate: AL-6061-T6 Alodine (RoHS)
Bolts: Stainless steel

Temperature range

-70^{0}C to +260^{0}C

Typical resistance

<2x10^{-3}·



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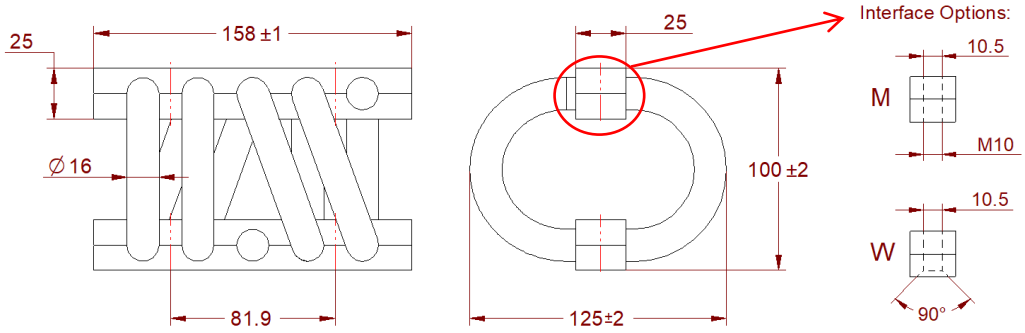
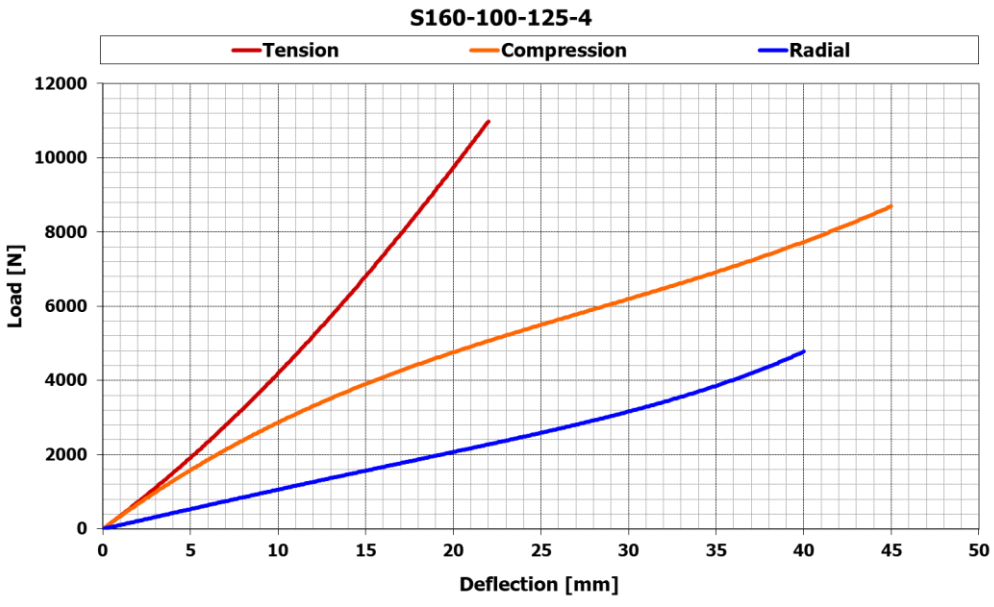


Ordering Form – Interface Options: S160-100-125-4 ☐☐

☐☐: **MM** ➡ both sides M10 thread
WW ➡ both sides countersink hole
MW ➡ one side M10 thread, one side countersink hole

Performance

Quality factor: 3.5



S-flex
S160-110-135-3

S-flex is an all-metal isolator; it consists of coated aluminum plates and special stainless-steel cables.

Its unique structure enables large deflections (in all axes) in relation to its geometrical dimensions, resulting in a compact installation size.

Its resonance magnification is very low and its rebound reaction to mechanical shock is small.

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Materials

Cable: SS-316

Plate: AL-6061-T6 Alodine (RoHS)

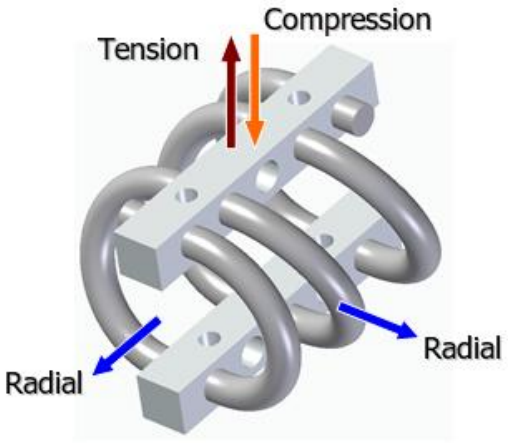
Bolts: Stainless steel

Temperature range

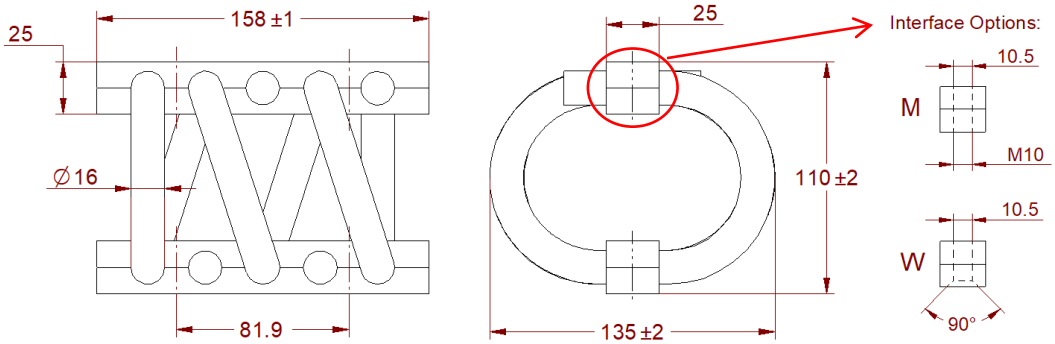
-70^0C to $+260^0$C

Typical resistance

$<2x10^{-3}$·



Dimensions



Ordering Form – Interface Options: S160-110-135-3 ☐☐

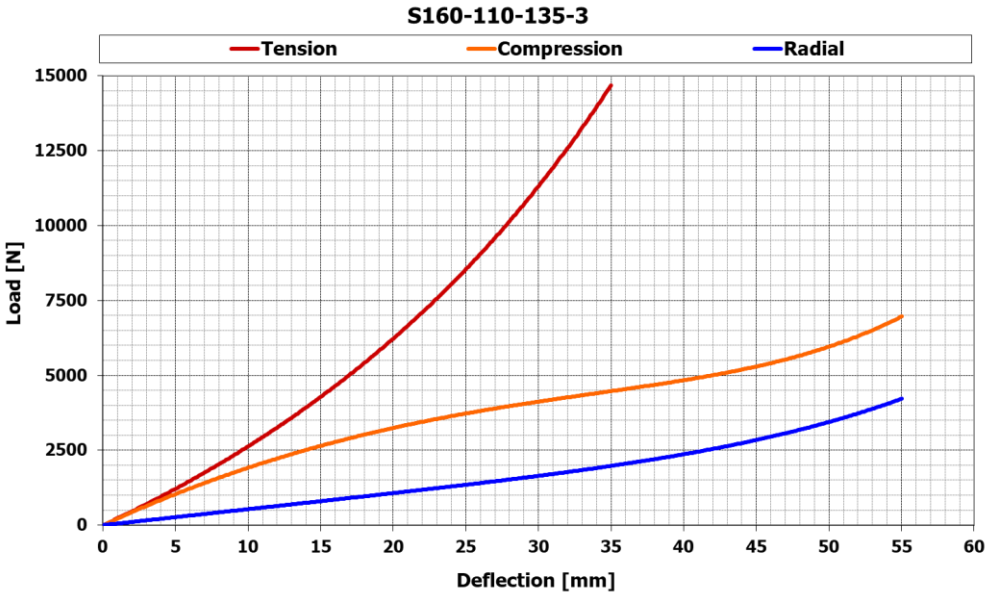
☐☐: **MM** ➡ both sides M10 thread

WW ➡ both sides countersink hole

MW ➡ one side M10 thread, one side countersink hole

Performance

Quality factor: 3.5



Dynamica
Noise & Vibration Control

S-flex
S160-110-135-4

S-flex is an all-metal isolator; it consists of coated aluminum plates and special stainless-steel cables.

Its unique structure enables large deflections (in all axes) in relation to its geometrical dimensions, resulting in a compact installation size.

Its resonance magnification is very low and its rebound reaction to mechanical shock is small.

The isolators operate without any change to their dynamic characteristics in a wide temperature range and can withstand oil, fuel and other aggressive environments.

The isolator is fail-safe in any direction and will maintain performance after extreme emergency events such as fire or overloading.

The S-flex presents long life even under high loads due to its insensitivity to aging and creep.

The wide variety of types and sizes available and the ability to install the isolator in any direction should enable compliance with any design requirement. However, a non-standard type can be customized to meet specific dynamic properties or environmental resistance.

Dynamica Design Ltd.
POB 561 Kefar Vitkin
Israel 40200
Tel 972-9-865-8484
Fax 972-9-865-8666
www.dynamica.net

Materials

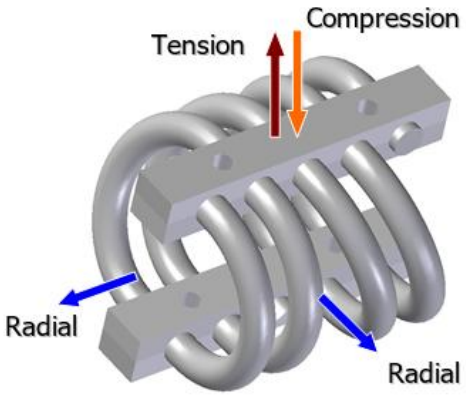
Cable: SS-316
Plate: AL-6061-T6 Alodine (RoHS)
Bolts: Stainless steel

Temperature range

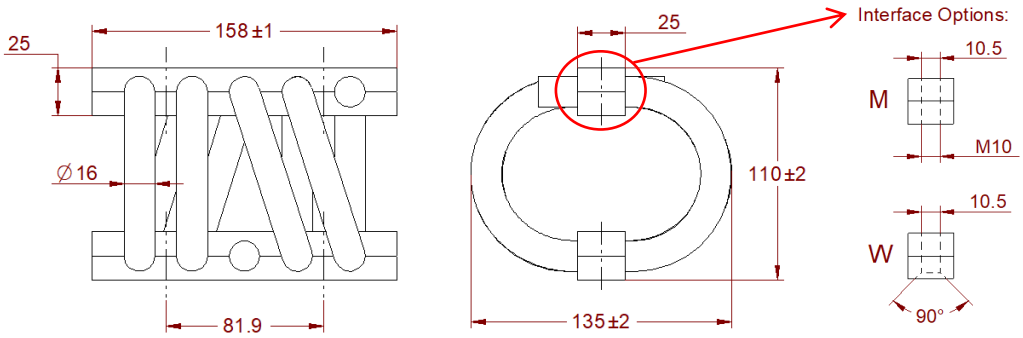
-70^0C to $+260^0$C

Typical resistance

$<2x10^{-3}\cdot$



Dimensions



Ordering Form – Interface Options: S160-110-135-4 ☐☐

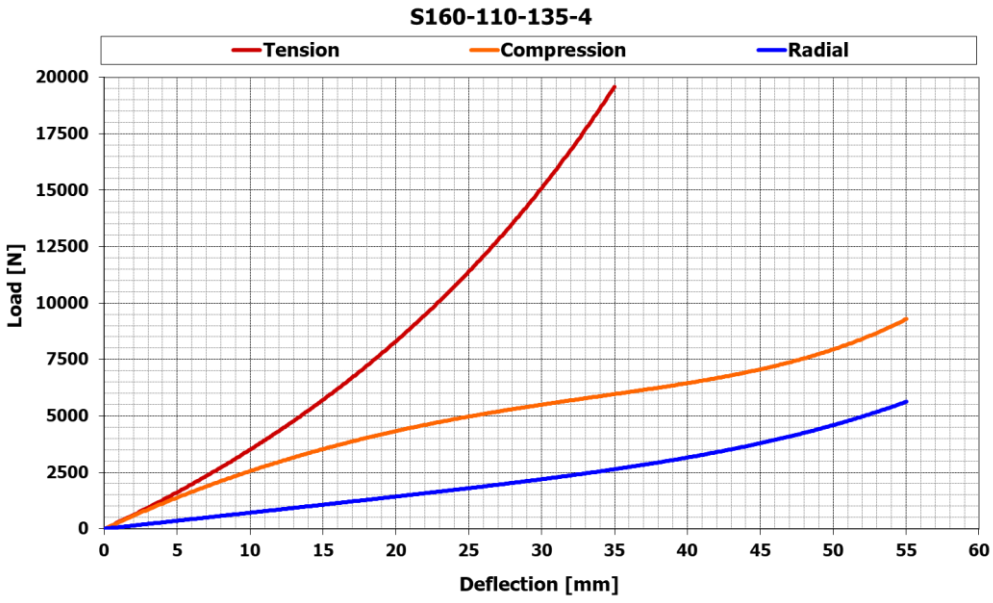
☐☐: **MM** ➡ both sides M10 thread

WW ➡ both sides countersink hole

MW ➡ one side M10 thread, one side countersink hole

Performance

Quality factor: 3.5



S-flex
S160-120-145-4

S-flex is an all-metal isolator; it consists of coated aluminum plates and special stainless-steel cables.

Its unique structure enables large deflections (in all axes) in relation to its geometrical dimensions, resulting in a compact installation size.

Its resonance magnification is very low and its rebound reaction to mechanical shock is small.

The isolators operate without any change to their dynamic characteristics in a wide temperature range and can withstand oil, fuel and other aggressive environments.

The isolator is fail-safe in any direction and will maintain performance after extreme emergency events such as fire or overloading.

The S-flex presents long life even under high loads due to its insensitivity to aging and creep.

The wide variety of types and sizes available and the ability to install the isolator in any direction should enable compliance with any design requirement. However, a non-standard type can be customized to meet specific dynamic properties or environmental resistance.

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Materials

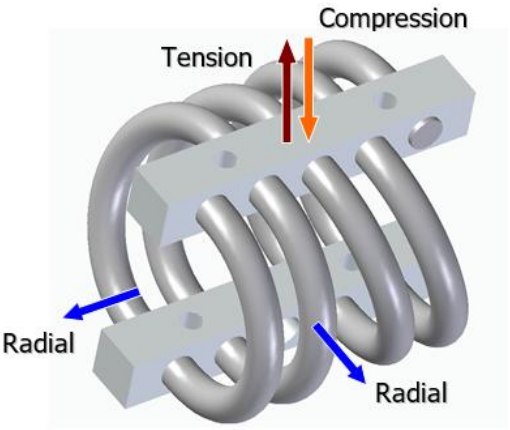
Cable: SS-316
Plate: AL-6061-T6 Alodine (RoHS)
Bolts: Stainless steel

Temperature range

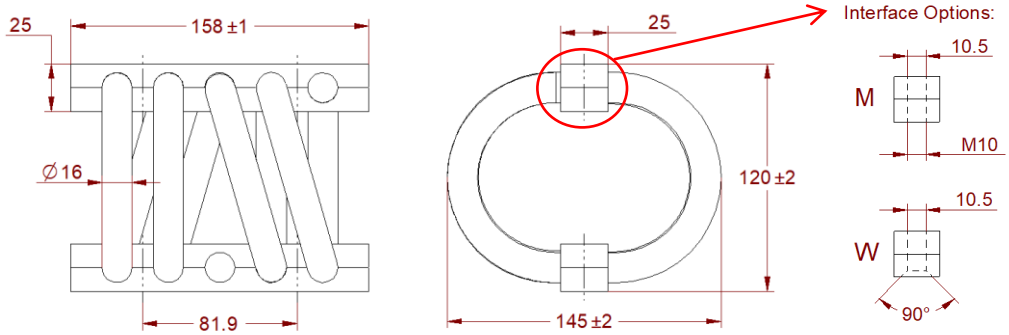
-70^{0}C to +260^{0}C

Typical resistance

<2x10^{-3}·



Dimensions



Ordering Form – Interface Options: S160-120-145-4 ☐☐

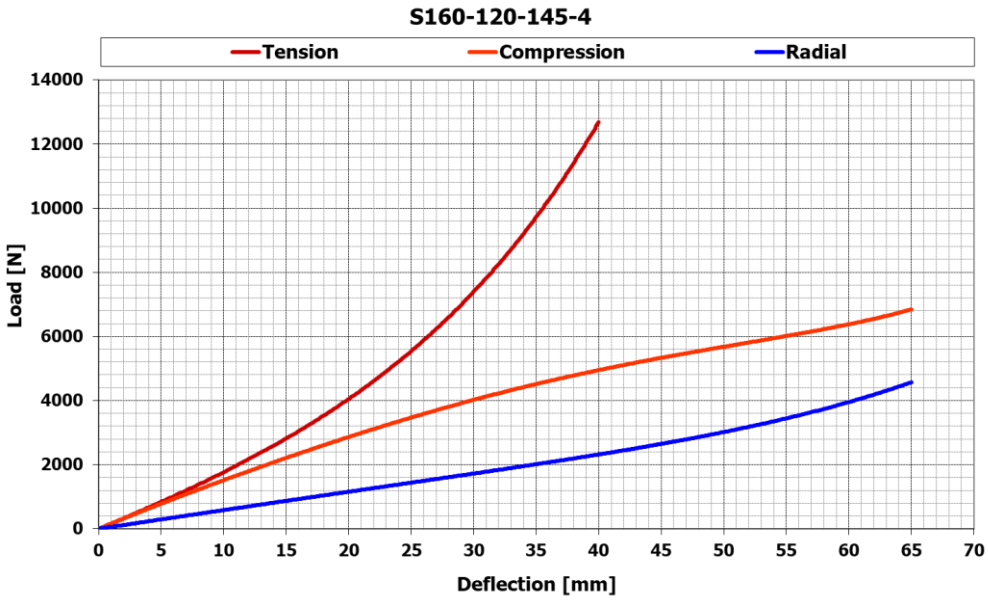
☐☐: **MM** ➡ both sides M10 thread

WW ➡ both sides countersink hole

MW ➡ one side M10 thread, one side countersink hole

Performance

Quality factor: 3.5



Dynamica
Noise & Vibration Control

S-flex
S160-145-190-4

S-flex is an all-metal isolator; it consists of coated aluminum plates and special stainless-steel cables.

Its unique structure enables large deflections (in all axes) in relation to its geometrical dimensions, resulting in a compact installation size.

Its resonance magnification is very low and its rebound reaction to mechanical shock is small.

The isolators operate without any change to their dynamic characteristics in a wide temperature range and can withstand oil, fuel and other aggressive environments.

The isolator is fail-safe in any direction and will maintain performance after extreme emergency events such as fire or overloading.

The S-flex presents long life even under high loads due to its insensitivity to aging and creep.

The wide variety of types and sizes available and the ability to install the isolator in any direction should enable compliance with any design requirement. However, a non-standard type can be customized to meet specific dynamic properties or environmental resistance.

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www.dynamica.net

Materials

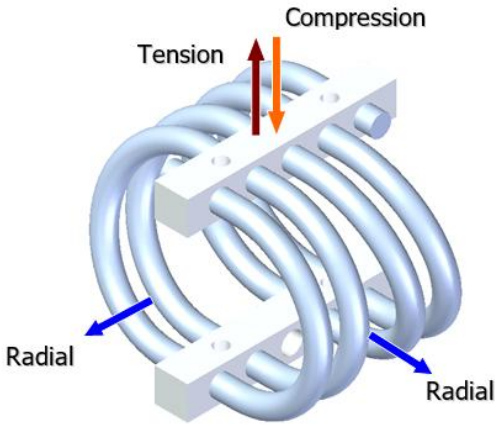
Cable: SS-316
Plate: AL-6061-T6 Alodine (RoHS)
Bolts: Stainless steel

Temperature range

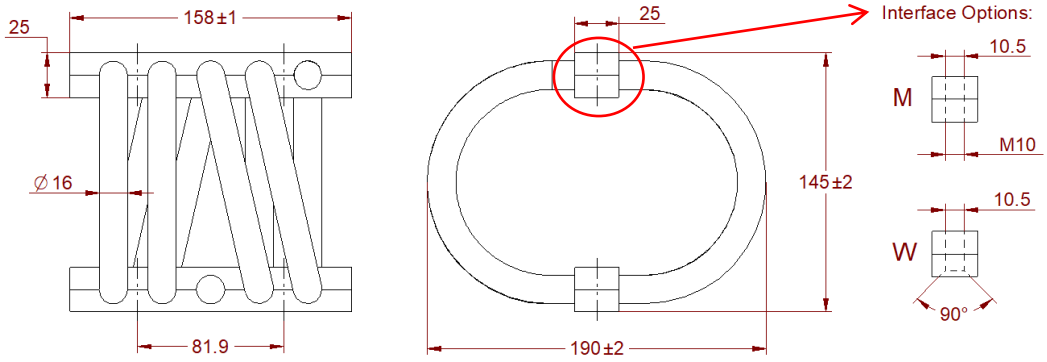
-70^{0}C to +260^{0}C

Typical resistance

<2x10^{-3}.



Dimensions

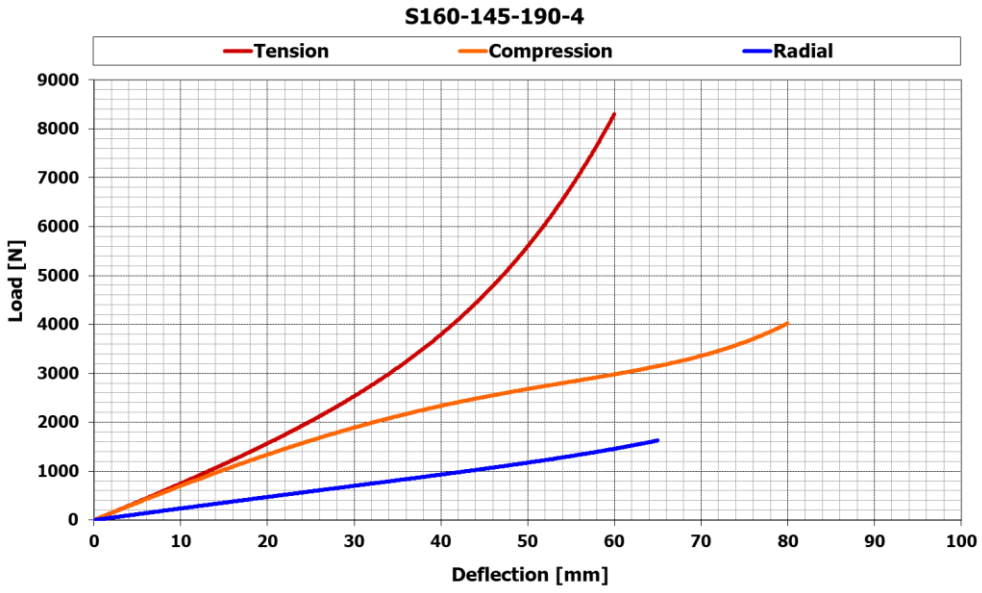


Ordering Form – Interface Options: S160-145-190-4 ☐☐

☐☐: **MM** ➡ both sides M10 thread
WW ➡ both sides countersink hole
MW ➡ one side M10 thread, one side countersink hole

Performance

Quality factor: 3.5



BR6-60-3M5
Damped Cable Isolator

BR6-60-3M5 is an all-metal isolator; it consists of coated aluminum plates and special stainless-steel cables.

Its unique structure enables large deflections (in all axes) in relation to its geometrical dimensions, resulting in a compact installation size.

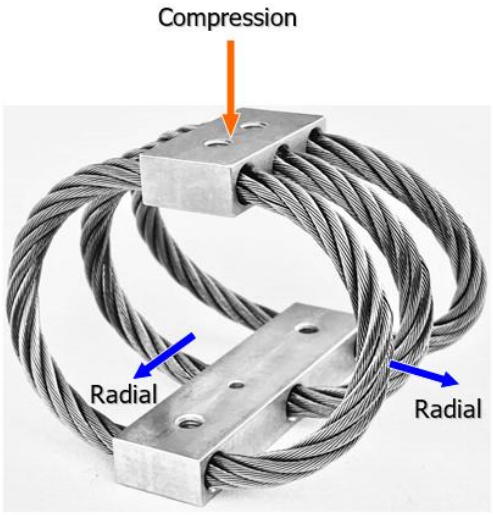
Its resonance magnification is very low and its rebound reaction to mechanical shock is small.

The isolators function without any change to their dynamic characteristics in a wide temperature range and can withstand oil, fuel and other aggressive environments.

The isolator is fail-safe in any direction and will continue to function after extreme emergency events such as fire or overloading.

The BR6-60-3M5 presents long life even under high loads due to its insensitivity to aging and creep.

Designed and manufactured by Dynamica Design LTD.



Materials

Cable: SS-316

Plate: AL-6061-T6 Alodine (RoHS)

Temperature range

-70^0C to $+260^0$C

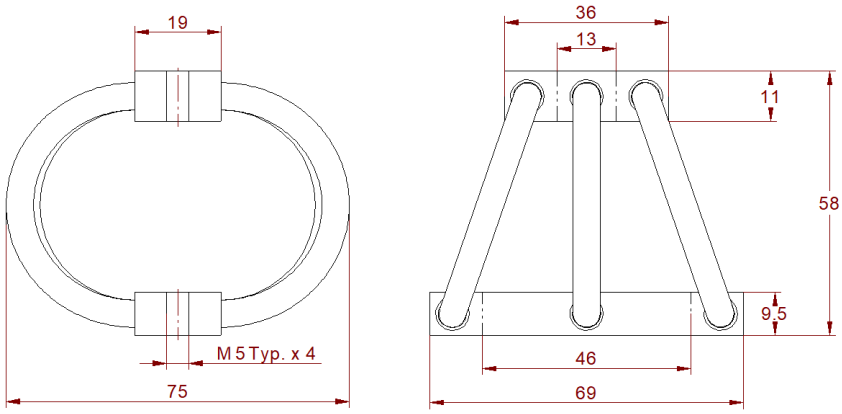
Typical resistance

$<2x10^{-3}\Omega$

Weight: 125 g

Dimensions

*can be supplied with inch thread

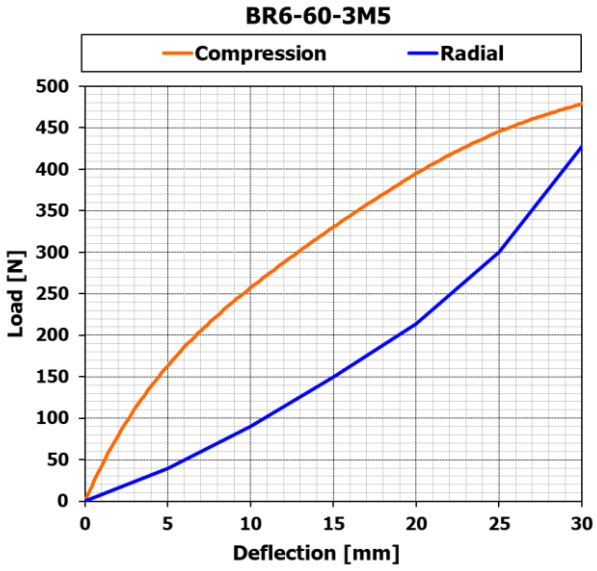


Performance

Recommended Static Load: 15N ÷ 80N

Q-Factor < 3.5

Rated Deflection:



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www.dynamica.net

DU-flex
D3216S-2116

DU-flex is an all-metal isolator; it consists of coated aluminum plates and special stainless-steel cables.

Its unique structure combines low frequencies attenuation and shock mitigation.

Its resonance magnification is very low and its rebound reaction to mechanical shock is small.

The isolators function without any change to their dynamic characteristics in a wide temperature range and can withstand oil, fuel and other aggressive environments.

The isolator is fail-safe in any direction and will continue to function after extreme emergency events such as fire or overloading.

The DU-flex presents long life even under high loads due to its insensitivity to aging and creep.

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Materials
Cable: SS-316
Plate: AL-6061-T6
Alodine per MIL-C-5541B (RoHS)

Temperature range
-70^{0}C to +260^{0}C

Typical Conductivity
1· ÷2·

Typical Damping
Random vibration
Magnification at resonance: Q≈3
Shock energy
Rebound / Initial ≤ 65%

Typical tear resistance
2.9[kN] Tension
2.1[kN] Radial

Interface options


M3, M4
4-40, 6-32, 8-32

90^0 for M3
82^0 for 4-40

Ordering form
D3216S-2116-TinBin

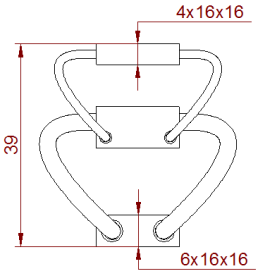
in: M3 ➡ M3
4-40 ➡ 440
90^0 for M3➡ C903
82^0 for 4-40 ➡ C824

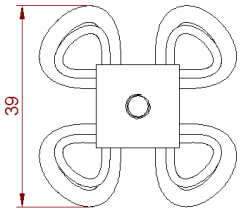
Ordering examples:
D3216S-2116TBM4
Thread M4 top & bottom

D3216S-2116TC903BM3
Countersunk for M3 top, M3 bottom

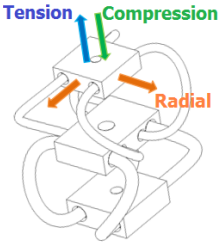
D3216S-2116T632B440
6-32 top, 4-40 bottom

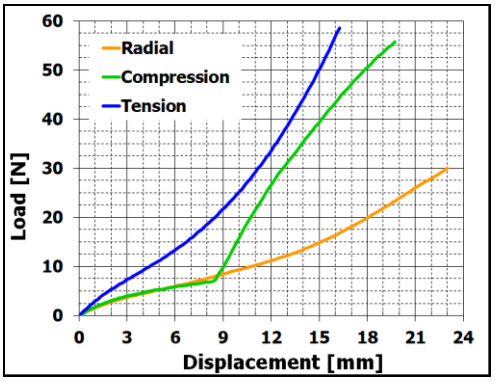
Dimensions
Typical dimension tolerance ± 5%





Performance
Typical performance tolerance ± 15%





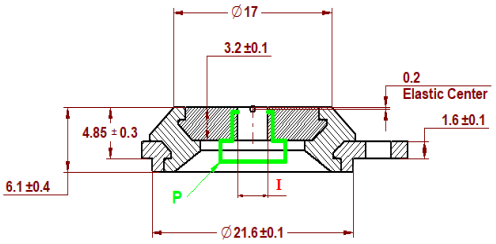
Dynamica
Noise & Vibration Control

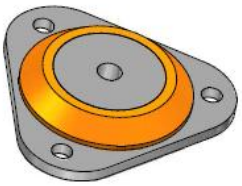
HP-485
High Precision Isolator

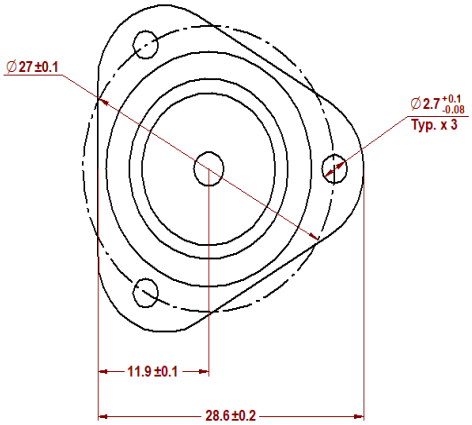
This high precision isolator has a very good returnability and uniform stiffness at any direction.

It presents a very high damp performance over a wide range of temperatures.

The HP-485 is typically used in optical systems and for precise balanced applications.







Dynamic properties

Load [Kg]: 0.2 ÷ 0.8

Damping: Q ≈ 3.5
(Typical resonance transmissibility)

Input [mm]: ±0.15
(Maximum input at resonance)

Stiffness: Axial ≈

Radial

Dynamic Stiffness

HP-485-1	160 [N/mm]
HP-485-2	210 [N/mm]
HP-485-3	270 [N/mm]
HP-485-4	360 [N/mm]
HP-485-5	460 [N/mm]
HP-485-6	600 [N/mm]
HP-485-7	780 [N/mm]

Environmental

Temperature range [°C]: -55 to +150

Ozone & Fungus: Resistant

Mechanical Properties

Material: High damp silicon
Aluminum 6061-T6
P Core - Stainless Steel

Finish: Alodine coating
per MIL-C-5541B
type 2, clear (RoHS).

Weight: 5 [gr]

Ordering Form

HP-485-#-I or -PI

-632:	6-32 through thread
-M3:	M3 through thread
-PM3:	SS Core - M3 thread
-DYY:	10 × Through hole

[mm]

Examples: HP-485-3-632
HP-485-7-PM3
(for Ø3.8mm) HP-485-1-D38

Dynamica Design Ltd.
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SOSI
50906008-2C

SOSI - Silicon Oil Spring Isolator

A low frequency vibration isolation spring immersed in a high damping silicon oil.

Its unique structure enables low frequency isolation with low resonance magnification due to the damping characteristic of the silicon oil with minimal change in physical properties over a broad temperature range.

The damping characteristics may be designed to meet specific resonance magnification or settling time goals.

The variety of types and sizes should enable compliance with any design requirement. However, a non-standard type can be customized to meet specific dynamic properties or environmental resistance.

The isolator is design to operate under a vibration or impact load regime.

The isolator designed to operate in a clean room environment.

The isolator is fail-safe in any direction.

The isolator presents long life even under high loads due to its insensitivity to aging and creep.

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Materials

SS-303
Silicon Oil

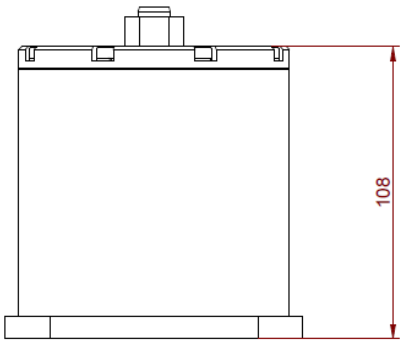
Generic Dynamic Properties

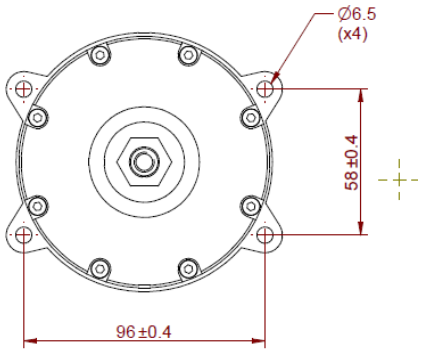
Damping Q≤3

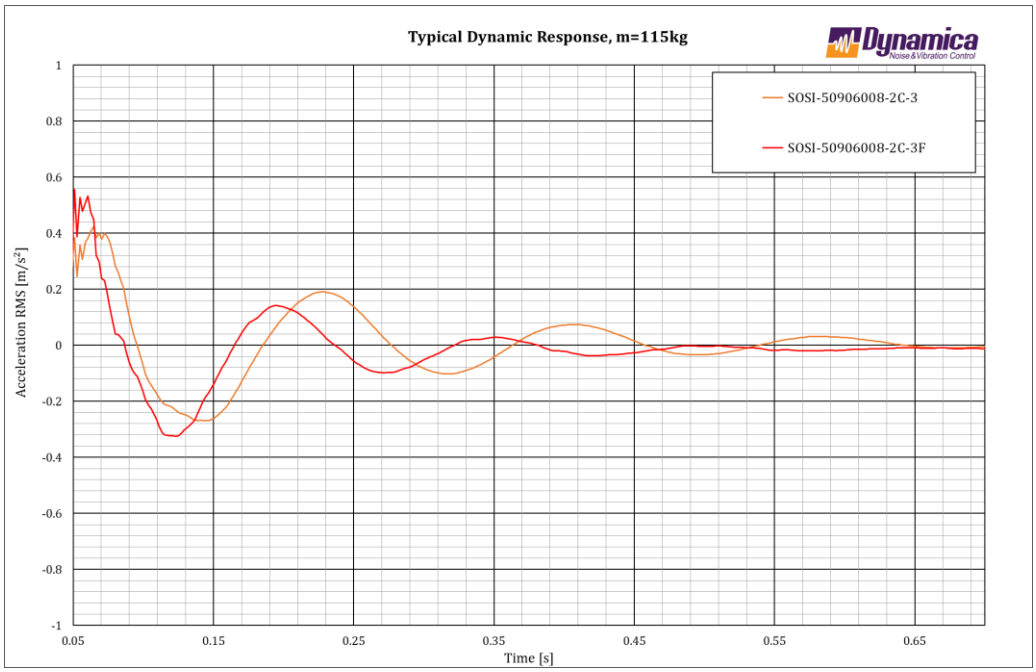
Stiffness 300 [N/mm]

Rated Load 80÷130 [kg]

Typical Dimensions







SA120-D40
Metal mount

SA120-D40 is an all-metal isolator; it consists of aluminum core, high deflection helical spring and special stainless steel cables.

Applications vary from low frequency isolation of sensitive electronics stationary in clean rooms to trucked mobile payloads at harsh field environments.

Its unique structure enables low resonance magnification (high damping ratio) along with excellent post resonance attenuation (low damping ratio).

It enables large deflections (in all axes) in relation to its geometrical dimensions, and its rebound reaction to mechanical shock is small.

The isolators function without any change to their dynamic characteristics in a wide temperature range and can withstand oil, fuel and other aggressive environments.

The isolator is fail-safe in any direction and will continue to function after extreme emergency events such as fire or overloading.

The SA120-D40 presents long life even under high loads due to its insensitivity to aging and creep.

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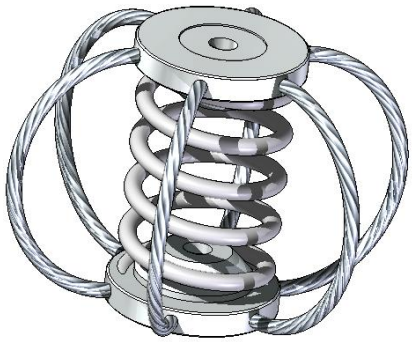
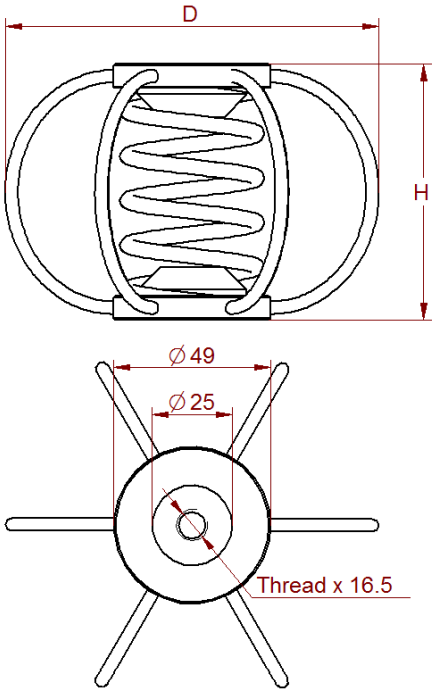




Interface
16.5mm depth thread
Metric: M6÷M12
UNC: 1/4"÷1/2"
UNF: 1/4"÷1/2"

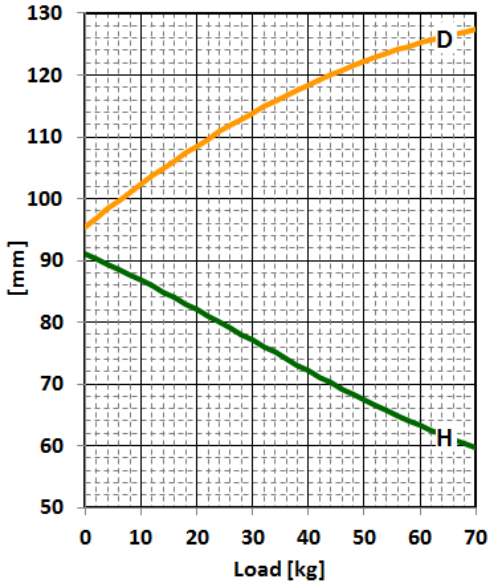
Ordering form
SA120-D40-**Thread**

Examples:

SA120-D40-**M10**
(M10 both sides)

SA120-D40-**M8M10**
(M8 one side M10 other side)

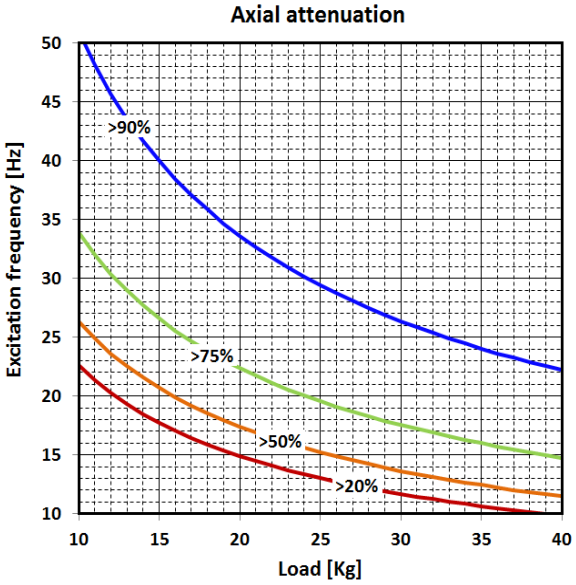
SA120-D40-**3/8F**
(3/8UNF both sides)



Typical performance
Load range [Kg]: **10÷40**
Quality factor: **Q=6÷8**
Radial/Axial frequency: **≈0.5**

Temperature range
-70^{0}C to +260^{0}C

Typical Conductivity
1· ÷2·



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