Wire rope isolators

Stainless steel

METRIC

INOX STAINLESS STEEL

RoHS

CABLE, BARS AND SCREWS

AISI 316 stainless steel.

STANDARD EXECUTIONS

Threaded pass-through holes.

- **AVC-4**: the cable extends for four coils.
- **AVC-6**: the cable extends for six coils.
- **AVC-8**: the cable extends for eight coils.
- **AVC-10**: the cable extends for ten coils.

FEATURES AND APPLICATIONS

The wire rope isolators AVC comprise two pairs of bars, joined together by a connecting cable with a helical winding (coil).
They are generally used for isolating vibrations and shock absorption, where axial holding force, resistance to compression or shear is required.
Vibrations can cause:

- malfunctioning and reduction of the machine lifespan and/or of the adjacent ones;
- damage to health;
- noise.

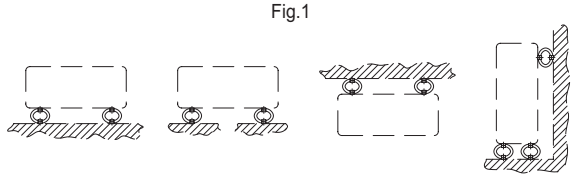
They are particularly suitable for use with HVAC, pumps, purification and desalination plants, instrumentation panels, rail, naval and military.
Some examples of application are shown in Fig.1.
See High performance vibration dampers - Characteristics and selection criteria (on page -).

SPECIAL EXECUTIONS ON REQUEST

- Vibration dampers with cable with AISI 304 stainless steel bars.
- Vibration dampers with cable with aluminium bars with chromium passivation.



Fig.1



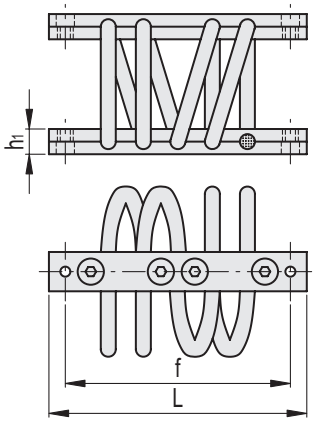
Description	Resistance to compression				Axial holding force				Resistance to shear			
	Min load [N]	Max load [N]	Min deflection [mm]	Max. deflection [mm]	Min load [N]	Max load [N]	Min deflection [mm]	Max. deflection [mm]	Min load [N]	Max load [N]	Min deflection [mm]	Max. deflection [mm]
AVC-4-4-53	50	110	2	5	50	110	1	3	20	40	5	10
AVC-4-4-64	45	90	2	6	45	90	3	5	10	33	5	13
AVC-4-6-61	200	300	2	4	200	300	2	3	70	150	3	7
AVC-4-6-93	70	140	2	7	70	140	3	6	30	70	5	13
AVC-4-7-110	80	180	2	9	80	180	2	8	30	90	5	17
AVC-4-8-80	370	660	2	6	370	660	2	4	100	270	4	12
AVC-4-10-80	850	1500	2	5	850	1500	1	3	400	900	4	11
AVC-4-10-108	300	630	2	7	300	630	2	6	150	300	5	14
AVC-4-13-102	1000	2500	2	8	1000	2500	2	5	500	1000	5	13
AVC-4-13-133	420	1060	2	11	420	1060	3	9	170	520	5	22
AVC-4-16-120	1260	3000	2	9	1260	3000	2	5	440	1780	4	18
AVC-4-16-152	680	1780	2	13	680	1780	3	9	340	1020	6	24
AVC-6-7-82	200	450	2	6	200	450	2	5	100	230	3	11
AVC-6-8-67	600	1000	2	4	600	1000	2	3	300	600	3	8
AVC-6-10-80	1500	2500	2	5	1500	2500	1	3	750	1400	5	11
AVC-6-10-140	380	660	4	10	380	660	4	8	85	300	5	26
AVC-6-13-90	1560	3480	2	6	1560	3480	1	3	550	1475	4	12
AVC-6-13-135	850	1500	4	11	850	1500	4	11	300	800	6	21
AVC-8-10-80	1300	2500	2	5	1300	2500	1	2	400	920	3	9
AVC-8-10-140	300	820	3	11	300	820	1	6	100	390	6	24
AVC-8-13-120	1500	3000	4	11	1500	3000	3	7	600	1500	7	19
AVC-8-13-145	1230	2080	4	12	1230	2080	4	8	540	1080	5	22
AVC-10-16-150	2400	4900	5	11	2400	4900	4	9	820	2000	5	20
AVC-10-16-185	1750	2800	6	16	1750	2800	6	12	280	1160	6	30

The min. load is the value below which the vibration damper is not able to isolate the vibrations as it would be too rigid.
The max load is the value beyond which some type of failure may occur that compromises the functionality of the vibration damper.
The min. deflection is the crushing of the vibration-damping support corresponding to the min. load.
The max. deflection is the crushing of the vibration-damping support corresponding to the max. load.

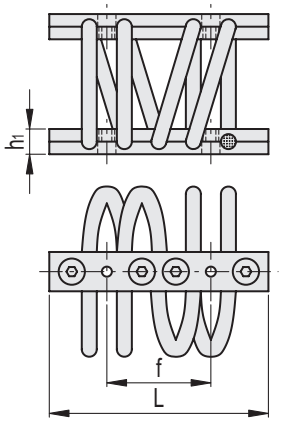
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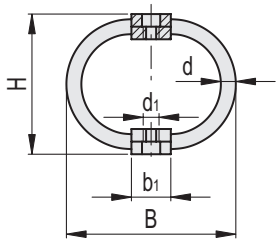
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AVC-4-4-53



AVC-4-6-61....AVC-4-13-102



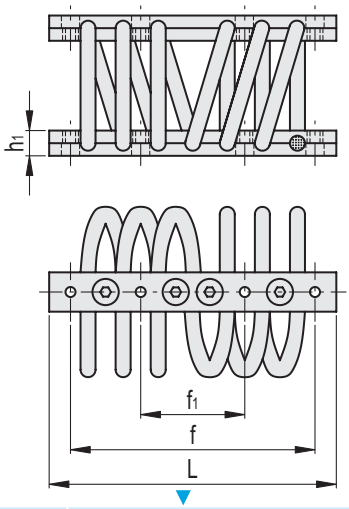


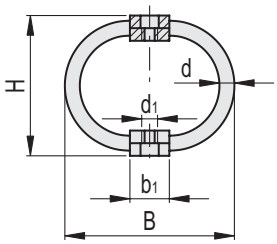
INOX STAINLESS STEEL METRIC

AVC-4

Code	Description	B	L	H	d	d6H	d1	h	s	f	⚖
480001	AVC-4-4-53	53 ±3	71	45 ±3	4	8	M6	15	8	61	154
480002	AVC-4-4-64	64±3	71	51±3	4	8	M6	15	12	61	170
480003	AVC-4-6-61	61 ±3	91	51 ±3	6	12	M6	15	12	46	305
480005	AVC-4-6-93	90 ±4	91	65 ±4	6	12	M6	15	12	46	420
480007	AVC-4-7-110	110 ±4	91	79 ±4	7	12	M6	15	12	46	443
480008	AVC-4-8-80	80±3	91	60±3	8	12	M6	15	12	46	435
480009	AVC-4-10-80	80 ±4	155	68 ±4	10	16	M8	25	16	83	1111
480011	AVC-4-10-108	108 ±4	155	89 ±4	10	16	M8	25	16	83	1241
480013	AVC-4-13-102	101 ±4	155	80 ±4	13	20	M8	25	20	83	1586
480014	AVC-4-13-133	133±3	155	108±3	13	20	M8	25	20	83	1765
480016	AVC-4-16-120	120±3	155	98±3	16	25	M10	25	25	83	2740
480018	AVC-4-16-152	152±3	155	117±3	16	25	M10	25	25	83	3120

AVC-6





Conversion Table
1 mm = 0.039 inch

L

mm	inch
71	2.77
91	3.55
155	6.05
169	6.59
178	6.94
200	7.80

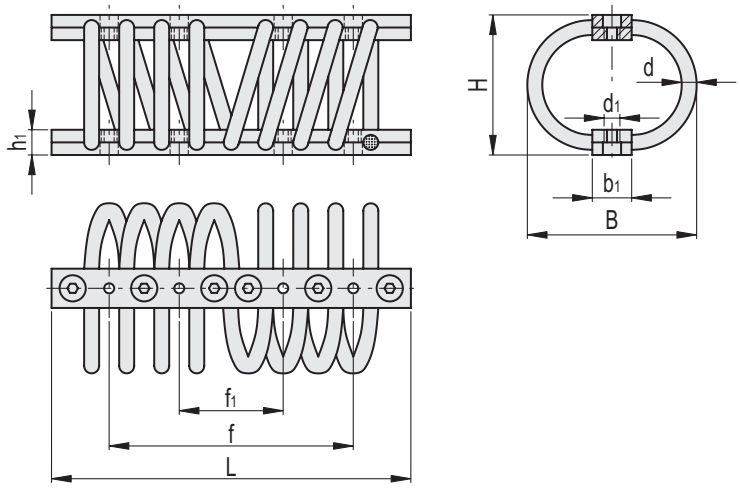
INOX STAINLESS STEEL METRIC

AVC-6

Code	Description	B	L	H	d	d6H	d1	h	s	f	f±5*	⚖
480021	AVC-6-7-82	82 ±4	200	60 ±4	7	12	M6	15	12	155	66	711
480023	AVC-6-8-67	67 ±4	200	53 ±4	8	12	M6	15	12	155	66	718
480025	AVC-6-10-80	80 ±4	169	68 ±4	10	16	M6	25	16	155	66	1272
480026	AVC-6-10-140	140±3	169	108±3	10	16	M6	25	16	155	66	1990
480027	AVC-6-13-135	135 ±5	178	110 ±5	13	20	M8	25	20	155.5	66.6	2610
480028	AVC-6-13-90	90±3	178	75±3	13	20	M8	25	20	155.5	66	2640

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AVC-8



AVC-8

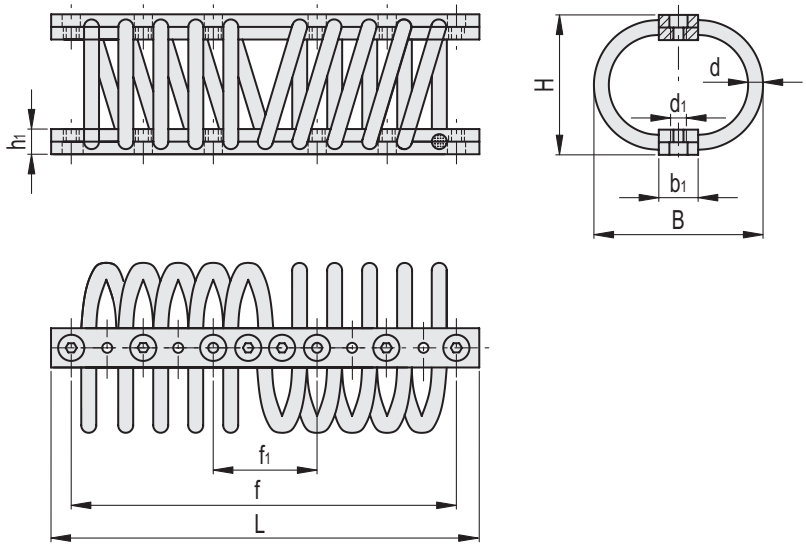
INOX STAINLESS STEEL METRIC

Code	Description	B	L	H	d	d6H	d1	d1 ±4	b1	h	h1	s	f	f±5*	f1	⚖
480029	AVC-8-13-120	118 ±4	222	95 ±4	13	20	M6	-	-	25	-	20	155	66	-	2670
480031	AVC-8-10-80	80±3	222	68±3	10	16	M6	M6	25	25	16	16	155	66	66	2010
480033	AVC-8-10-140	140±3	222	108±3	10	16	M6	M6	25	25	16	16	155	66	66	2620
480035	AVC-8-13-145	145±3	222	108±3	13	20	M6	M6	25	25	20	20	155	66	66	3520

Conversion Table
1 mm = 0.039 inch

mm	inch
222	8.66
363	14.16

AVC-10



AVC-10

INOX STAINLESS STEEL METRIC

Code	Description	B	L	H	d	d6H	d1	d1 ±4	b1	h	h1	s	f	f±5*	f1	⚖
480041	AVC-10-16-150	150±3	363	120±3	16	25	M10	M10	25	25	25	25	274.5	152.5	152.5	7300
480043	AVC-10-16-185	185±3	363	145±3	16	25	M10	M10	25	25	25	25	274.5	152.5	152.5	8350

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