



PHONOLATOR steel-suspension-damper product line summary

steel-suspension-damper with case

APPLICATION

- isolation stationary machines and systems with low excitation frequency already from 5.8 Hz upward

EXAMPLES

- bearings for stationary compressors, air conditioning units or sensitive instruments

ASSEMBLY

- dampers have to be mounted with machines or underground
- they must be mounted symmetrical to the centre of gravity in order to avoid tilting (having relative high spring deflections)
- all screw connections need to be locked by an appropriate screw lock (dynamic loads)

CHARACTERISTICS

- tough, maintenance free and long durability
- corrosion-resistant and light
- high efficient vibration isolation

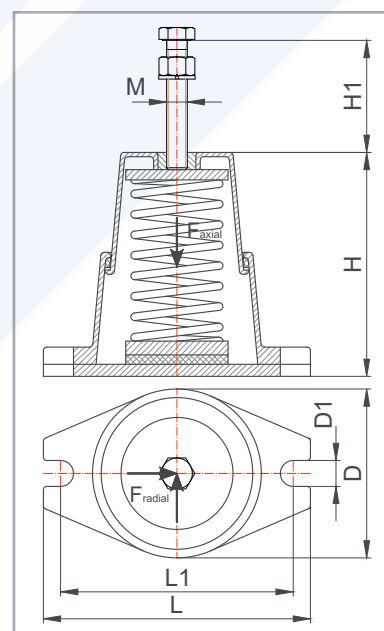
MATERIALS

- case: aluminium alloy (seawater-resistant)
- height adjustment: galvanised steel, spring: spring steel KTL- coated

SELECTION

- according to the weight of the unit, number of bearings and the excitation frequency
- **example:**
 - > bearing for a machine with a total weight of 400kg, excitation frequency at 10 Hz
 - > centre of gravity load-symmetrical (the same forces for all dampers)
 - > individual bearing mass = 100 kg, selection is 950133 (see table)
 - > resonant frequency: 4,1 Hz
 - > isolation rate at excitation frequency at 10 Hz (600 min⁻¹): 80%

We shall be happy to support you, please get in touch with us !



program			characteristics				dimensions						
artikelNo	m _{min} ¹	m _{max} ¹	c ²	s(m _{max}) ³	f ₀ (m _{max}) ⁴	D	H ⁵	M	H1	D1	L	L1	weight
	[kg]	[kg]	[N/mm]	[mm]	[Hz]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg]
950126	10	15	9,8	5,0	4,1	76	60	M12	65	15	128	110	0,600
950132	15	25	16,4	6,0	4,1	76	65	M12	65	15	128	110	0,600
950146	25	40	26,2	6,0	4,1	76	72	M12	65	15	128	110	0,600
950127	40	65	42,5	6,0	4,1	76	82	M12	65	15	128	110	0,700
950133	65	100	65,4	5,5	4,1	76	86	M12	65	15	128	110	0,700
950143	100	165	107,9	6,0	4,1	98	92	M12	65	15	155	135	1,300
950151	165	250	163,5	5,5	4,1	98	100	M12	65	15	155	135	1,400
950128	250	400	261,6	6,0	4,1	98	125	M12	65	15	155	135	1,700
950125	400	650	425,0	6,0	4,1	128	145	M16	65	15	185	165	4,000
950152	650	1.000	654,0	5,5	4,1	128	136	M16	65	15	185	165	4.500

¹ min. and max. permitted permanent static load ² spring rate, ³ approx. spring deflection with permissible permanent static load

⁴ approx. axial resonant frequency with permissible permanent load ⁵ total height unloaded, deflection depends on real load (see F(s) diagram in spec. datasheet)

For further technical informations (force/displacement curves, resonant frequencies etc.) please refer to the specific documentation.

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