

VT4660-B

Pre-compressed Spring Isolator



Vibratec[®]
akustikprodukter

Description

Pre-Compressed Spring Boxes primarily used for vibration isolation of heavy machine foundation and buildings. The VT4660-serie is used where the requirement for resonance frequency is approximately 2 Hz. These isolators consist of nested springs inside reinforced steel boxes, and are pre-compressed with a specific load.

The advantages of pre-compressed isolators are:

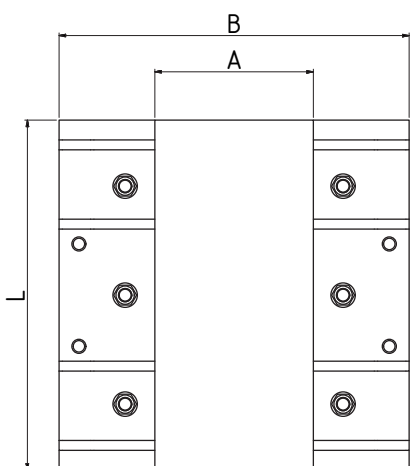
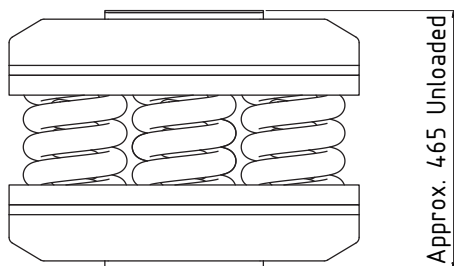
- The springs are pre-compressed to a deflection that equals a certain percentage (normally 80%) of the mass of the final building. During construction the isolator will be “released” once the pre-compression load has been applied, it will thus only deflect when the final 20% of the load is applied.
- Isolators can also be installed after construction or replaced by the use of hydraulic jacks. To achieve this all isolators must be accessible.
- By the use of nested springs the isolators can be fine tuned to a specific stiffness.
- The springs are design to withstand blocking (complete coil contact) without exceeding stress limits and causing plastic deformation.
- To minimize the effect of coil resonance in the springs the contact surfaces in the steel box are covered with an elastomer layer.

Springs in material 51CrV4 manufactured according to DIN 2096.

Finishing: shot peening + black powder coating alternatively Delta Magni Seal

Welded steel structure in mild steel S355 painted with primer and top coat.

Workmanship and tolerances in accordance with ISO 2768-1 Class M.



VT4660-BAXYP

VT46 = serie

60 = max. deflection

BA = box type (2, 4, 6 or 9 springs)

X = number of OUTER springs

Y = number of INNER springs

P = Pre compressed

	L (mm)	B (mm)	A (mm)	Load range (kN)
VT4660-B2	540	250	240	155 - 250
VT4660-B4	540	540	340	235 - 500
VT4660-B6	740	500	300	390 - 750
VT4660-B9	740	740	340	625 - 1120

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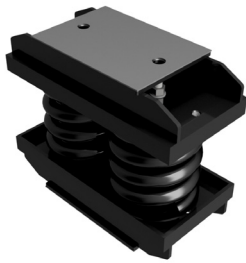
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Article number	Vertical stiffness (kN/mm)	Max nominal load capacity (kN)
VT4660-B2-20P	3,1	78
VT4660-B2-21P	3,6	91
VT4660-B2-22P	4,2	104

Article number	Vertical stiffness (kN/mm)	Max nominal load capacity (kN)
VT4660-B4-30P	4,7	117
VT4660-B4-31P	5,2	130
VT4660-B4-32P	5,7	143
VT4660-B4-33P	6,2	156
VT4660-B4-40P	6,2	156
VT4660-B4-41P	6,8	169
VT4660-B4-42P	7,3	182
VT4660-B4-43P	7,8	195
VT4660-B4-44P	8,3	208

Article number	Vertical stiffness (kN/mm)	Max nominal load capacity (kN)
VT4660-B6-50P	7,8	195
VT4660-B6-51P	8,3	208
VT4660-B6-52P	8,8	221
VT4660-B6-53P	9,4	234
VT4660-B6-54P	9,9	247
VT4660-B6-55P	10,4	260
VT4660-B6-60P	9,4	234
VT4660-B6-61P	9,9	247
VT4660-B6-62P	10,4	260
VT4660-B6-63P	10,9	273
VT4660-B6-64P	11,4	286
VT4660-B6-65P	12,0	299
VT4660-B6-66P	12,5	312

Article number	Vertical stiffness (kN/mm)	Max nominal load capacity (kN)
VT4660-B9-80P	12,5	312
VT4660-B9-81P	13,0	325
VT4660-B9-82P	13,5	338
VT4660-B9-83P	14,0	351
VT4660-B9-90P	14,0	351
VT4660-B9-91P	14,6	364
VT4660-B9-92P	15,1	377
VT4660-B9-93P	15,6	390
VT4660-B9-94P	16,1	403
VT4660-B9-95P	16,6	416
VT4660-B9-96P	17,2	429
VT4660-B9-97P	17,7	442
VT4660-B9-98P	18,2	455
VT4660-B9-99P	18,7	468

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