

VT1110, VT1130

All Metal Resilient Cushion



Vibratec[®]
akustikprodukter



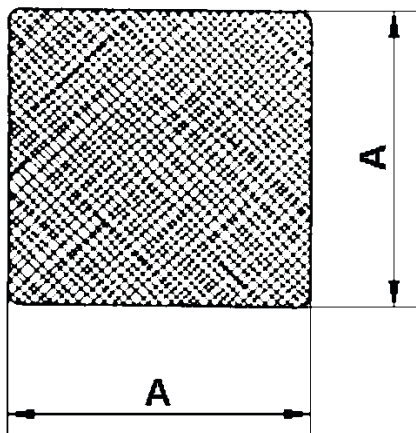
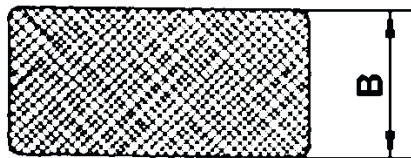
Description

All metal resilient element produced of 18/8 steel mesh. The progressive spring rate yields an almost constant natural frequency over a wide load range. The element is non creeping, has excellent resistance to oils, solvents, water, chemical agents and to extreme temperatures.

Cushions are also available in AISI 316 Stainless wire and other special metals.

Characteristics

- Material: Stainless steel 18/8.
- Natural frequency: 12-15 Hz
- Maximum excitation amplitude: $\pm 0,3$ mm.
- Amplification factor: 3-4.
- Dynamic overload: 5 g
- Temperature range: -90 °C to $+300$ °C.



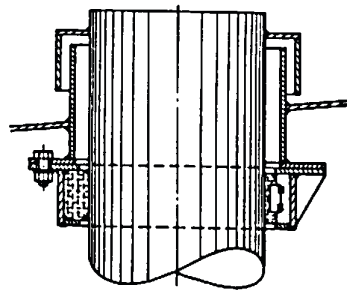
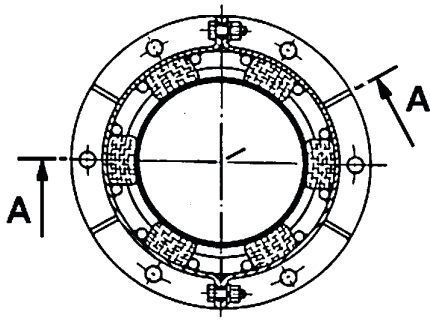
Ref.	Load range in daN (= kg)
VT1110	25 - 300
VT1130	5 - 50

Applications

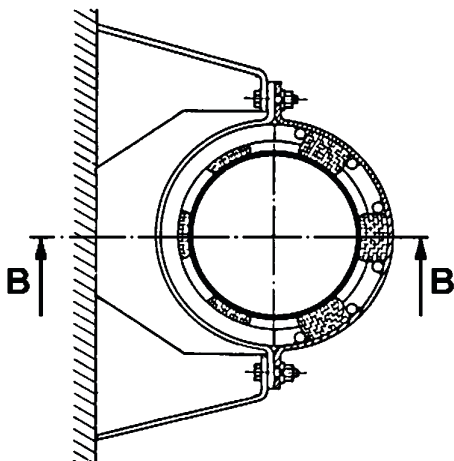
A very useful construction element for suspension of smaller machine tools and for protection of sensitive equipment.

Also used as resilient element for anti vibration pipe clamps.

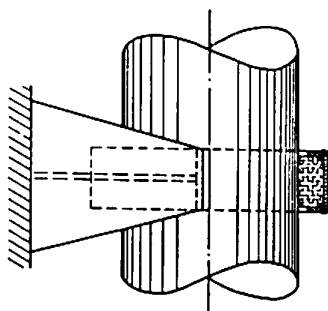
Ref.	A	B
VT1110	50	25
VT1130	30	20



A - A



B - B



Installation in pipe clamp

The elastic cushions are placed circumferentially around pipework providing a compact isolation system allowing both axial and radial expansion. For best isolation result, the clamp is to be made as rigid and heavy as possible.

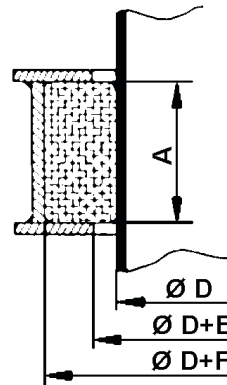
We recommend the installation for the cushions as shown opposite (two half-rings in which the cushions are evenly spaced inside the rings).

Rain proof penetrations should be made with a sealing "hat" as shown in figure A.

The design of the clamp must allow compression of the cushions because of thermal expansion of the pipe; 10 mm for VT 1110 and 6 mm for VT 1130. The cushions should not be pre-compressed.

The recommended dimensions of the clamp and the number of cushions are shown in the table below.

Ref.	A	E	F
VT1110	50	20	50
VT1130	30	12	40



Pipe diameter $\varnothing D$ (mm)	Qty VT1110	Qty VT1130
50	-	4
100	-	6
150	-	8
200	6	-
300	8	-
450	10	-
650	12	-
850	14	-
1000	16	-
1150	18	-

For complete pipe-clamps, refer to VT PC-XXX