

## Metal Cushion VT1120 - VT1140

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.

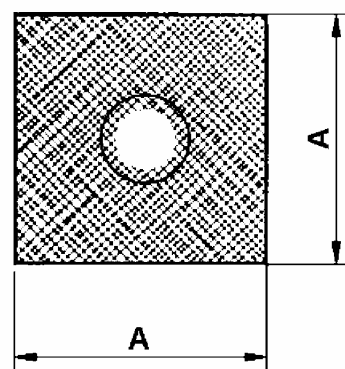
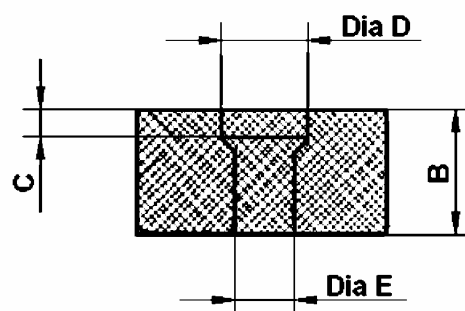
The element is non creeping, has excellent resistance to oils, solvents, water, chemical agents and to extremes of temperature.

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

### Application areas

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

Also used as a resilient element for anti vibration pipe clamps, examples on the next page.



### Characteristics

Natural frequency	12 - 15 Hz
Material	stainless steel 18/8
Maximum excitation amplitude:	± 0.3 mm
Amplification factor:	3 - 4
Dynamic overload:	5 g
Temperature range:	-90° to +300°

### Technical specifications

Product type	Max Load in daN (≈kg)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
VT1120	30 - 300	50	25	10	20	9
VT1140	5 - 50	30	20	8	11	6

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## 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.

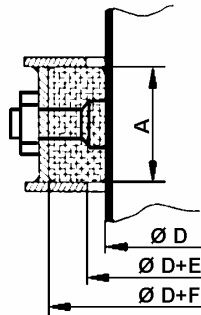
We recommend the installation for the cushions as shown opposite (two half-rings in which the cushions are evenly spaced inside the rings).

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 VT1110 and 6 mm for VT1130. The cushions should not be pre-compressed.

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

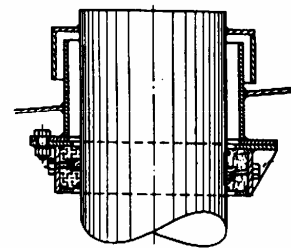
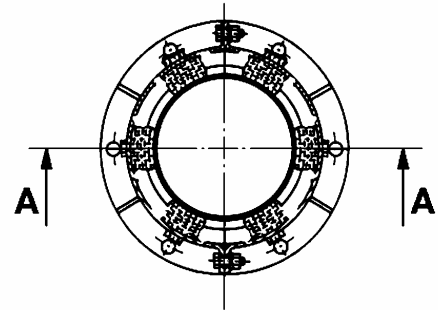
Ref.	A	E	F
VT1120	50	25	9
VT1140	30	20	6



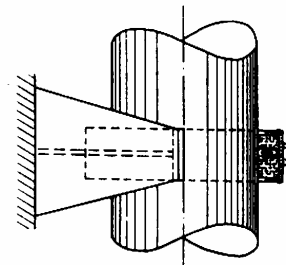
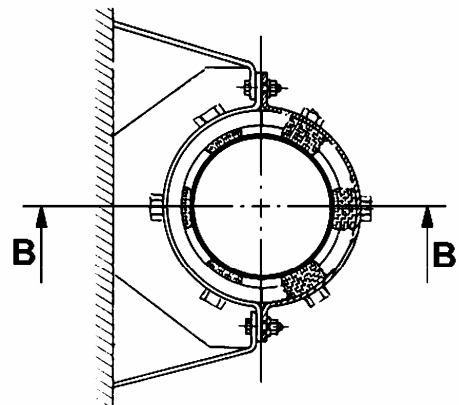
Pipe diameter ØD (mm).	Qty VT1120	Qty VT1140
70	-	4
130	-	6
170	-	8
210	-	10
370	8	-
530	10	-
690	12	-
850	14	-
1010	16	-
1170	18	-
1330	20	-

## Note

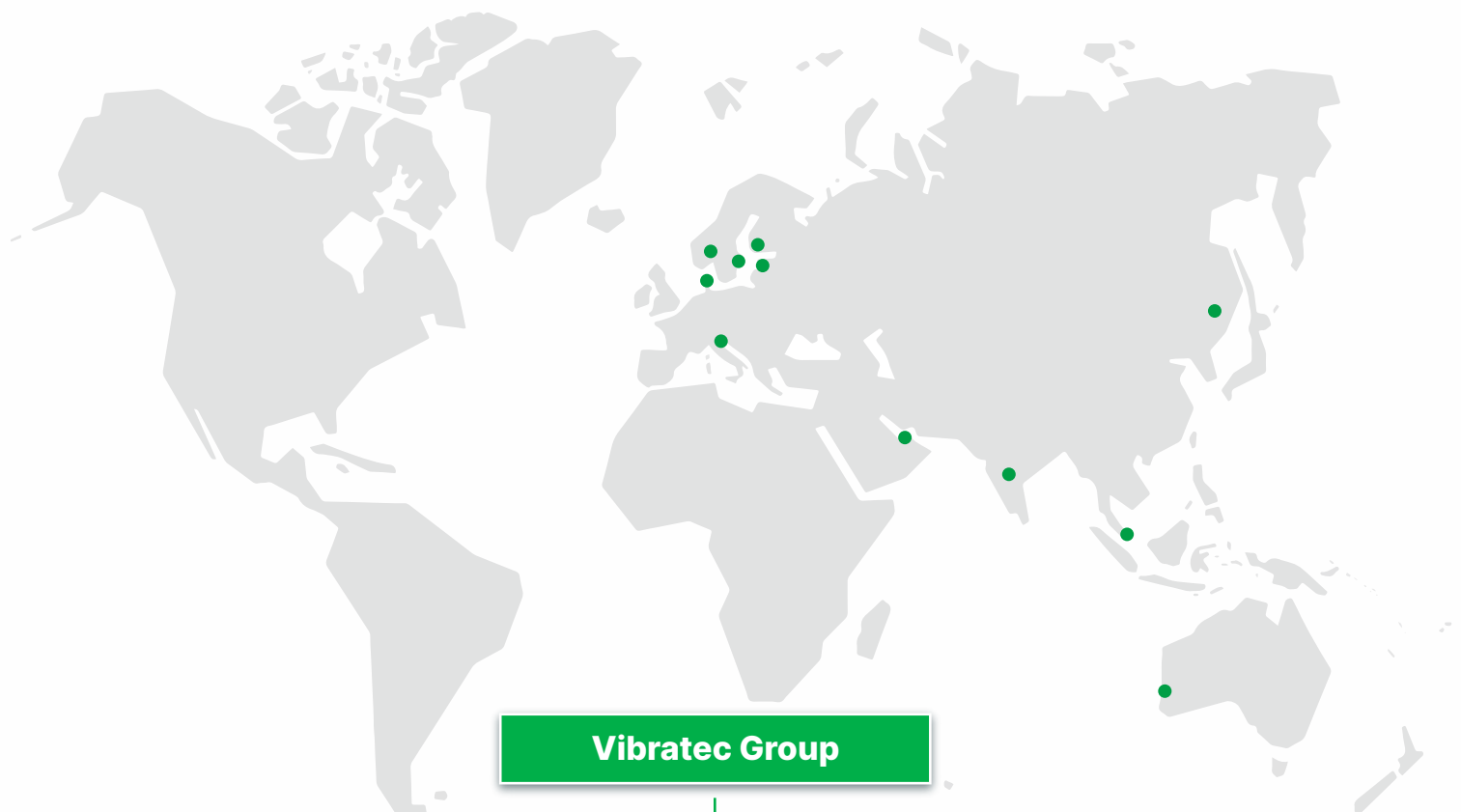
For complete pipe-clamps, refer to VTPC-XXX



A - A



B - B



Engineering, production  
& installation

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Vibrattec performs test to evaluate mechanical, physical and long term behaviour on materials as well as complete solutions.

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Vibrattec Akustikprodukter is one of Scandinavia's leading suppliers of noise and vibration solutions. Vibrattec's ambition is to become the preferred choice for customers who need solutions to noise, vibration and shock problems.

Vibrattec produce and store many products for damping and isolation of vibration, shock and noise over a wide range of applications.

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