

U.S. Patent 6,514,146 **U.S. Patented Vibralow® Bellows Coupling**

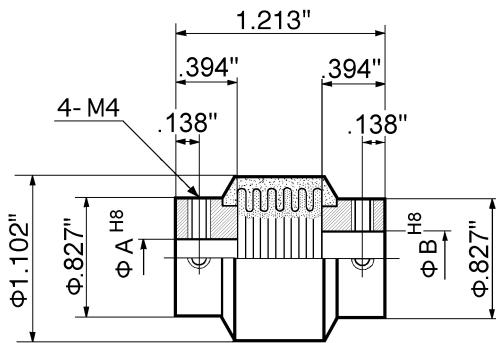
Melted Rubber

Model " VLM300 "

《Rubber outside and inside the Metal Bellows dampens oscillations to the lowest value》

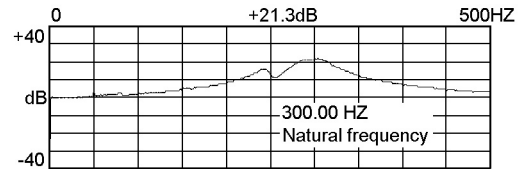
- ☆ Melted Chloroprene Rubber outside and Silicone Rubber inside a Bellows yield restoration to the coupling and quickly dampen oscillations caused by **stepping, servo and other motors.**
- ☆ Efficient torque transmission and accurate rotational positioning is achieved throughout the entire operational range.
- ☆ The Vibralow Coupling requires precise installation to the shaft to keep long life.

Part No. VLM300-29-(A × B)



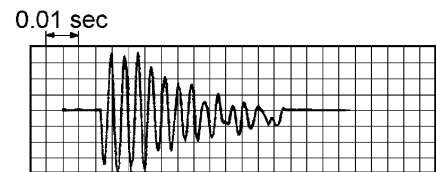
※ Oscillations under 150 hertz will quickly be dampened to a minimal value by melted rubber.

☆ Natural Frequency: 300 Hz



※ Resonance of the Vibralow Bellows coupling model VLM300 will be dampened within approximately **0.06 - 0.07 seconds.**

Part No.	φ A in.	φ B in.	Rated Torque kgfcm	Inertia gfc ²
VLM 300 - 1	1/4	1/4	32	59.06
VLM 300 - 2	5/16	1/4	32	58.87
VLM 300 - 3	5/16	5/16	32	58.68
VLM 300 - 4	3/8	5/16	32	58.33
VLM 300 - 5	3/8	3/8	32	57.98
VLM 300 - 6	6 mm	6 mm	32	59.11
VLM 300 - 7	8 mm	8 mm	32	58.65
VLM 300 - 8	10 mm	10 mm	32	57.69
VLM 300 - 29	Other bores		32	



Allowable Tolerance

Bore Diameters	H8
.118" ~ .236"	+ .0007" ~ 0
(.236") ~ .394"	+ .0009" ~ 0
(.394") ~ .709"	+ .0011" ~ 0

Bores A and B can be specified from 0.236" - 0.394" and customer sizes

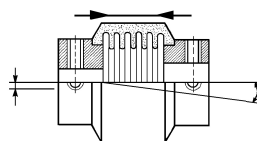
Technical Data

Rated Torque	32 kgfcm
Maximum Speed	18,000 rpm
Torsional Stiffness	2.72 × 10 ⁻⁴ rad. / kgfcm

Misalignment Capabilities

Linear Spring Rate 9.52 kgf/mm

Maximum Rated Lateral Misalignment = .004"



Maximum Rated Angular Misalignment = 0.5 °

Maximum values are not additive, each assumes zero for the other, but lateral and angular misalignment can be combined proportionately: e.g. 50% of each

Materials	Brass bosses, with set screws, soldered to phosphorus bronze Bellows. Chloroprene rubber outside and Silicone rubber inside.	Part Number		VLM300-29-A-B
		Scale	Free	Yunika® Corporation, Tokyo