

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

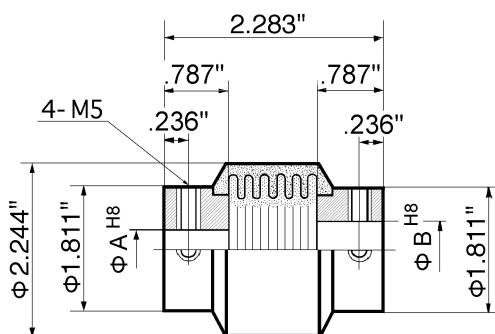
**Melted Rubber**

**Model " VLM600 "**

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

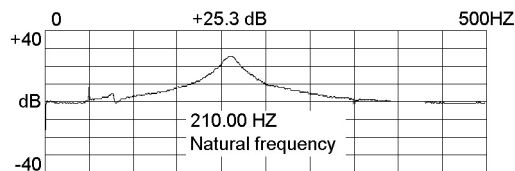
- ☆ Melted Chloroprene Rubber outside and Silicone Rubber inside a Bellows yield restoration to the coupling and quickly dampen oscillations caused by **stepping, servo and other motors.**
- ☆ Efficient torque transmission and accurate rotational positioning is achieved throughout the entire operational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

**Part No. VLM600-29-(A × B)**



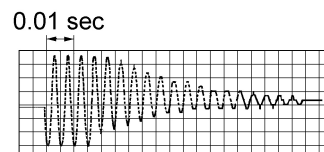
※ Oscillations under 100 hertz will quickly be dampened to a minimal value by melted rubber.

☆ Natural Frequency: 210 Hz



※ Resonance of the Vibralow Bellows coupling model VLM500 will be dampened within approximately 0.06 - 0.07 seconds.

Part No.	φ A in.	φ B in.	Rated Torque kgfcm	Inertia kgfcm <sup>2</sup>
VLM 600 - 1	.625	.625	120	2.19
VLM 600 - 2	.750	.750	120	2.17
VLM 600 - 3	1.000	1.000	120	2.07
VLM 600 - 4	15 mm	15 mm	120	2.19
VLM 600 - 5	20 mm	20 mm	120	2.16
VLM 600 - 6	25 mm	25 mm	120	2.08
VLM 600 - 7	28 mm	28 mm	120	2.01
VLM 600 - 29	Other bores		120	



**Allowable Tolerance**

Bore Diameters	H8
(.394") ~ .709"	+.0011" ~ 0
(.709") ~ 1.181"	+.0013" ~ 0

Bores A and B can be specified from 0.500" -1.102" and customer sizes

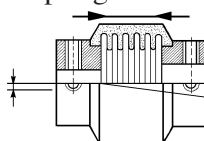
**Technical Data**

Rated Torque	120 kgfcm
Maximum Speed	12,600 rpm
Torsional Stiffness	6.66 × 10 <sup>-5</sup> rad. / kgfcm

**Misalignment Capabilities**

Linear Spring Rate 13.3 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		VLM600-29-A-B
		Scale	Free	<b>Yunika® Corporation, Tokyo</b>