

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

Rubber Cover Clamping Model "VLRC 90"

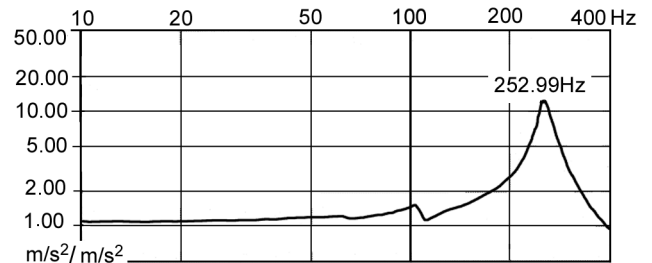
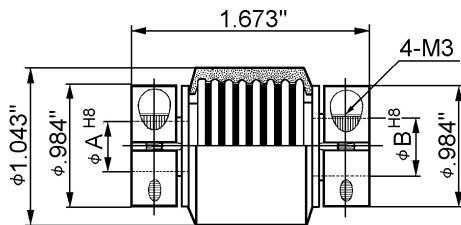
《Rubber and a rubber cover outside the Bellows dampen oscillations to the lowest value》

- ☆ A Chloroprene Rubber Cover and soft rubber filled into valleys outside the Bellows yield restoration to the coupling and quickly dampen oscillations caused by stepping, servo and other motors.
- ☆ Efficient torque transmission and accurate rotational positioning are achieved throughout the entire operational range.
- ☆ The Vibralow Coupling requires precise installation to the shaft to keep long life.

(Thin Two-ply Bellows Clamping Coupling with rubber)

Part No. VLRC90-29-(A × B)

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



☆ Natural Frequency: 252.99Hz

Part No.	φ A in.	φ B in.	Rated Torque kgfcm	Inertia gfc <sup>2</sup>
VLRC 90 - 1	1/4	1/4	25	89.14
VLRC 90 - 2	5/16	1/4	25	88.97
VLRC 90 - 3	5/16	5/16	25	88.98
VLRC 90 - 4	3/8	5/16	25	88.46
VLRC 90 - 5	3/8	3/8	25	88.13
VLRC 90 - 6	8 mm	10 mm	25	88.31
VLRC 90 - 7	10 mm	10 mm	25	87.85
VLRC 90 - 29	Other bores		25	

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

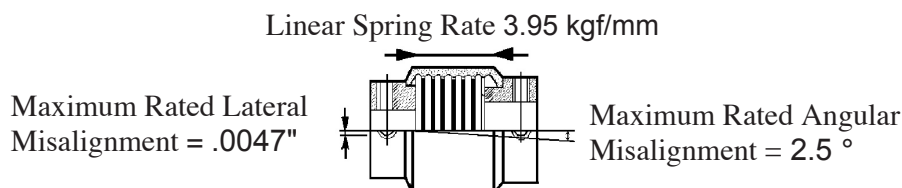
Allowable Tolerance

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

Technical Data

Rated Torque 25 kgfcm  
 Maximum Speed 15,120 rpm  
 Torsional Stiffness 4.27 × 10<sup>-4</sup> rad. / kgfcm

Misalignment Capabilities



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 and Nickel plated throughout.	Part Number		VLRC90-29-A-B
		Scale	Free	Yunika® Corporation, Tokyo