Data sheet

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

Rubber Cover **Model " VLR60 "** 《Rubber and a rubber cover outside the Metal Bellows dampen oscillations to the lowest value》

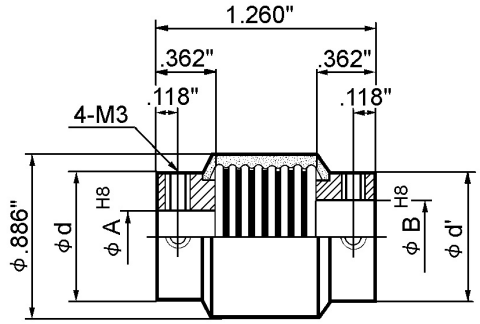
☆ A Chloroprene Rubber Cover and soft rubber filled into valleys outside the Bellows yield restoration to the coupling and quickly **dampen oscillations caused by stepping, servo and other motors.**

☆ Efficient torque transmission and accurate rotational positioning are achieved throughout the entire operational range.

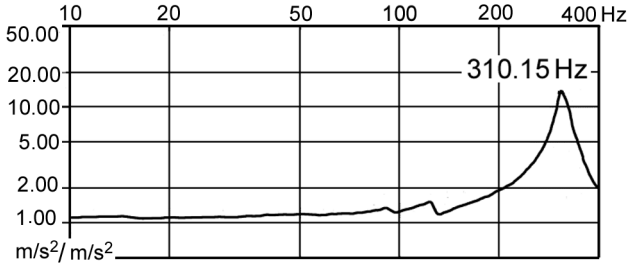
☆ The Vibralow Coupling requires precise installation to the shaft to keep long life.

Part No. VLR60-29-(A × B)

(Thin Two-ply Bellows Coupling with rubber)



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



☆ Natural Frequency: 310.15Hz

Part No.	ϕA in.	ϕB in.	ϕ d in.	ϕ d' in.	Rated Torque kgfcm	Inertia gfcm²
VLR60 - 1	3/16	3/16	.630	.630	16	19.28
VLR60 - 2	3/16	1/4	.630	.709	16	21.29
VLR60 - 3	1/4	1/4	.709	.709	16	23.30
VLR60 - 4	5/16	1/4	.709	.709	16	23.13
VLR60 - 5	5/16	5/16	.709	.709	16	22.95
VLR60 - 6	5 mm	5 mm	.630	.630	16	19.27
VLR60 - 7	5 mm	6 mm	.630	.630	16	19.22
VLR60 - 8	6 mm	6 mm	.630	.630	16	19.17
VLR60 - 9	6 mm	8 mm	.630	.709	16	21.05
VLR60 -10	8 mm	8 mm	.709	.709	16	22.93
VLR60 - 29	Other bores and customer sizes				16	

※ Bores A and B can be specified from 0.158" - 0.315" and customer sizes

Allowable Tolerance

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

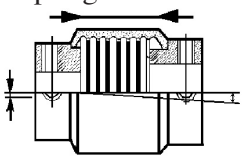
Technical Data

Rated Torque	16 kgfcm
Maximum Speed	18,600 rpm
Torsional Stiffness	7.5×10^{-4} rad. / kgfcm

Misalignment Capabilities

Linear Spring Rate 3.46 kgf/mm

Maximum Rated Lateral Misalignment = .0047"



Maximum Rated Angular Misalignment = 2.5 °

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 and Nickel plated throughout.	Part Number		VLR60-29-A-B
		Scale	Free	**Yunika® Corporation, Tokyo**