## LVK Series

The LVK Series is designed for direct coupled equipment. The LVK Series coupling is highly torsionally compliant, allowing the engine to drive a large inertia load safely away from damaging torsional resonance or critical speeds. The coupling selection should be verified with a Torsional Vibration Analysis of the system (see page T-10).

### Element Features

- 50 & 60 Durometer (Shore A scale) available
- -40° to 194° F temperature range
- Available in SAE J620 6.5 through 14 Flywheel sizes (some metric sizes available upon request)
- Blind assembly, no lubrication
- Material available in HTR and EPDM

### Hub Features

- High quality powdered-metal construction
- Splined hubs available with L-LOC clamping system
- Engagement Dogs are slightly crowned to avoid edge pressure due to misalignment
- Available in bore with keyway and spline connections

### Typical Applications

Compressors, centrifugal pumps, hydraulic pumps and generator sets.

### *LVK Series Performance Data*

| Size | SAE Flywheel Size | Hardness Shore A scale | Power at 2100 RPM HP | kW | Nominal Torque $T_{KN}$ in-lbs | Nm | Maximum Torque $T_{Kmax}$ in-lb | Nm | Continuous Vibratory Torque $T_W$ in-lb | Nm | Dynamic Stiffness $C_{Tdyn}$ in-lbs/rad | Nm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LVK25 | 7.5, 8 | 50 | 62 | 46 | 1,875 | 212 | 4,500 | 508 | 750 | 85 | 12,586 | 1 422 |
| | 10, 11.5 | 60 | 90 | 67 | 2,700 | 305 | 5,750 | 650 | 1,080 | 122 | 21,658 | 2 447 |
| LVK30 | 8, 10 | 50 | 98 | 73 | 2,945 | 333 | 7,089 | 801 | 1,180 | 133 | 18,201 | 2 056 |
| | 11.5 | 60 | 142 | 106 | 4,250 | 480 | 10,825 | 1 223 | 1,700 | 192 | 21,970 | 2 482 |
| LVK35 | 10, 11.5 | 50 | 136 | 101 | 4,075 | 460 | 9,781 | 1 105 | 1,630 | 184 | 25,820 | 2 917 |
| | 14 | 60 | 193 | 144 | 5,800 | 655 | 14,500 | 1 638 | 2,320 | 262 | 31,167 | 3 521 |

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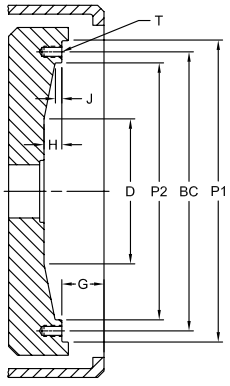
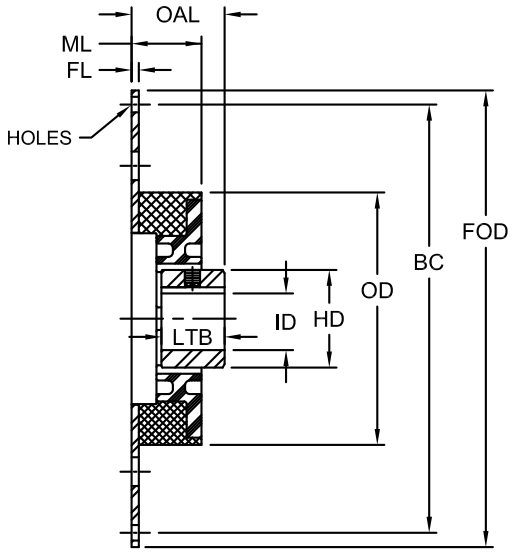
### *SAE J620 Flywheel Dimensional Data*

| Nominal Clutch (flywheel) Size | P1 in | P1 mm | BC in | BC mm | P2 in | P2 mm | J in | J mm | H in | H mm | G in | G mm | D in | D mm | T Tapped Holes Qty | T Tapped Holes Size |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6.5 | 8.500 | 215.90 | 7.875 | 200.02 | 7.25 | 184.2 | 0.38 | 9.7 | 0.50 | 12.7 | 1.19 | 30.2 | 5.00 | 127.0 | 6 | 5/16-18 |
| 7.5 | 9.500 | 241.30 | 8.750 | 222.25 | 8.12 | 206.4 | 0.50 | 12.7 | 0.50 | 12.7 | 1.19 | 30.2 | — | — | 8 | 5/16-18 |
| 8 | 10.375 | 263.52 | 9.625 | 244.48 | 8.88 | 225.6 | 0.50 | 12.7 | 0.50 | 12.7 | 2.44 | 62.0 | — | — | 6 | 3/8-16 |
| 10 | 12.375 | 314.32 | 11.625 | 295.28 | 10.88 | 276.4 | 0.50 | 12.7 | 0.62 | 15.7 | 2.12 | 53.8 | 7.75 | 196.9 | 8 | 3/8-16 |
| 11.5 | 13.875 | 352.42 | 13.125 | 333.38 | 12.38 | 314.5 | 0.88 | 22.4 | 1.12 | 28.4 | 1.56 | 39.6 | 8.00 | 203.2 | 8 | 3/8-16 |
| 14 | 18.375 | 466.72 | 17.250 | 438.15 | 16.12 | 409.4 | 0.88 | 22.4 | 1.12 | 28.4 | 1.00 | 25.4 | 8.75 | 222.2 | 8 | 1/2-13 |
| 16 | 20.375 | 517.52 | 19.250 | 488.95 | 18.12 | 460.2 | 0.88 | 22.4 | 1.12 | 28.4 | 0.62 | 15.7 | 10.00 | 254.0 | 8 | 1/2-13 |
| 18 | 22.500 | 571.50 | 21.375 | 542.92 | 19.62 | 498.3 | 1.25 | 31.8 | 1.25 | 31.8 | 0.62 | 15.7 | — | — | 6 | 5/8-11 |
| 21 | 26.500 | 673.10 | 25.250 | 641.35 | 23.00 | 584.2 | 1.25 | 31.8 | 1.25 | 31.8 | 0.00 | 0.0 | — | — | 12 | 5/8-11 |
| 24 | 28.875 | 733.43 | 27.250 | 692.15 | 25.38 | 644.7 | 1.25 | 31.8 | 1.25 | 31.8 | 0.00 | 0.0 | — | — | 12 | 3/4-10 |






### *LVK Series - SAE J620 Flywheel Application Dimensional Data*

| Size | | FOD | | BC | | | FL | | ML | | OAL | | OD | | HD | | LTB* | | ID | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Flange Dimensions | | | | | | | Element Dimensions | | | | | | Hub Dimensions | | | | Min Bore | | Max Bore | |
| | SAE Flywheel Size | | | | | Number / Dia of Holes | | Flange Thickness | Mounting Length | | | | Element | | Hubstar | | | | | | | |
| | | in | mm | in | mm | in | mm | in | mm | in | mm | in | mm | in | mm | in | mm | in | mm | in | mm | in | mm |
| LVK25 | 6.5 | 8.50 | 215.9 | 7.875 | 200.0 | 6 x 0.33 | 6 x 8.5 | 0.19 | 4.8 | 1.83 | 46.50 | – | – | 6.90 | 175.3 | 2.56 | 65 | — | — | 9/16 | 15 | 1-9/16 | 40 |
| | 7.5 | 9.50 | 241.3 | 8.750 | 222.3 | 8 x 3.30 | 8 x 8.5 | | | | | 2.17 | 55 | | | | | 1.26 | 32 | | | | |
| | 8 | 10.38 | 263.5 | 9.625 | 244.5 | 6 x 0.41 | 6 x 10.5 | | | | | 2.68 | 68 | | | | | 1.89 | 48 | | | | |
| | 10 | 12.38 | 314.3 | 11.625 | 295.3 | 6 x 0.41 | 8 x 10.5 | | | | | 3.00 | 76 | | | | | 2.20 | 56 | | | | |
| | 11.5 | 13.88 | 352.4 | 13.125 | 333.4 | 8 x 0.41 | 8 x 10.5 | | | | | – | – | | | | | – | – | | | | |
| LVK30 | 8 | 10.38 | 263.5 | 9.625 | 244.5 | 6 x 0.41 | 6 x 10.5 | 0.19 | 4.8 | 2.13 | 54.10 | 2.72 | 69 | 8.10 | 205.7 | 3.35 | 85 | 1.97 | 42 | 13/16 | 20 | 2-1/8 | 55 |
| | 10 | 12.38 | 314.3 | 11.625 | 295.3 | 8 x 0.41 | 8 x 10.5 | | | | | 2.95 | 75 | | | | | 1.89 | 48 | | | | |
| | 11.5 | 13.88 | 352.4 | 13.125 | 333.4 | 8 x 0.41 | 8 x 10.5 | | | | | | | | | | | | | | | | |
| LVK35 | 11.5 | 13.88 | 352.4 | 3.125 | 333.4 | 8 x 0.41 | 8 x 10.5 | 0.19 | 4.8 | 2.20 | 55.88 | 2.80 | 71 | 8.65 | 219.7 | 3.35 | 85 | 1.97 | 42 | 13/16 | 20 | 2-1/8 | 55 |
| | 14 | 18.38 | 466.7 | 17.250 | 438.2 | 8 x 0.50 | 8 x 12.7 | | | | | 3.03 | 77 | | | | | 1.89 | 48 | | | | |

Note: ■ * indicates: Shorter or longer hub lengths available upon request.