



COMP Cams® Dual Conical Valve Springs

Memphis, TN – The brand new, dual conical spring assembly from COMP Cams® is the first product to bring revolutionary dual conical technology to the marketplace for wide-ranging applications featuring lifts up to .800".

COMP Cams® is setting trends in racing once again with the release of its new Dual Conical Valve Springs. This progressive-frequency design (decreasing diameter from bottom to top) provides far better valve control than can be achieved with a conventional valve spring assembly, and it does so using lower loads due to a lower dynamic mass. Because the top coils are far lighter in a conical spring, less force is needed to control the spring itself. The result is better overall control, less deflection and fewer parasitic horsepower losses, thereby netting more power.

Meanwhile, heat, wear and friction at the highest stress location of the outer spring (the ID) are the most common causes of failure in racing valve springs. The engineers at COMP® have addressed this problem as well. As opposed to dual cylindrical spring systems, COMP Cams® Dual Conical Valve Springs require no interference fit to dampen spring surge. The self-damping characteristic of conical geometry, along with the lower spring kinetic energy of the upper coils, provides a game-changing breakthrough in valve spring design. COMP Cams® Dual Conical Valve Springs are constrained at the top and bottom with stepped retainers and spring seats to separate the two springs. The result is that the springs' naturally progressive nature can provide outstanding damping without rubbing friction or the associated heat and surface damage. This progressive frequency also increases the RPM limit and reduces resonance concerns, while Superfinish surface processing increases lift capability and spring life. This feature has allowed COMP® engineers to maximize load without increasing wire size.

COMP Cams® Dual Conical Valve Springs are designed for circle track, road race and drag racing applications, as well as all-out, high-RPM street/strip hydraulic roller valve train systems with optimized lifters.



See Second Page for Quick Facts and Application Chart



Quick Facts

Product: COMP Cams® Dual Conical Valve Springs
Part Number: #7245-16
Street Price: \$474.72

Social Media Pitch: COMP Cams® Dual Conical Valve Springs improve valve train stability, increase RPM limit & dampen coil oscillations w/out interference fit

Features & Benefits:

- Progressive frequency dampens coil oscillations, increases RPM limit & reduces resonance concerns
- Smaller diameters in upper half of spring reduce active mass, meaning fewer parasitic HP losses & more power
- Reduced mass at top of spring improves valve train stability
- Self-damping conical geometry & low spring kinetic energy of upper coils require no interference fit to dampen spring surge
- Superfinish surface processing increases lift capability & spring life; allows for maximized load w/out increasing wire size

| | O.D. DIA. 1 | I.D. DIA. 2 | SEAT LOAD | OPEN LOAD | COIL BIND | RATE (LBS./IN.) | PART # | RETAINER | SEAT ¹ | SHIMS |
|--------|-------------|-------------|-------------------|-------------------|-----------|-----------------|---------|--------------|-------------------|-------|
| TOP | 1.442" | .646" | 150 lbs. @ 2.000" | 630 lbs. @ 1.200" | 1.115" | 600 lbs./in. | 7245-16 | 716 Titanium | 4668, 4669 | 4756 |
| BOTTOM | 1.657" | .861" | | | | | | 1738 Steel | | |

¹ Part #4668 features a .530" guide; part #4669 features a .570" guide.
 Available in single units (-1).

About COMP Cams®

Founded in 1976 and based in Memphis, TN, COMP Cams® has become the automotive performance aftermarket's "Absolute Leader in Valve Train Technology." With an ISO 9001:2008 Certification, our mission is to produce the highest performing products possible, provide superior customer service and lead the industry in technological development. Additional information about COMP Cams® and its products can be found at www.compcams.com or at 1.800.999.0853. Also, visit us on Facebook (facebook.com/COMPWins), Twitter (twitter.com/COMPCams) or YouTube (CPGNationTV.com).

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