

VALVE SPRING APPLICATION

Crow Cams valve springs are made from aircraft quality alloy steels to give the best performance and reliability at a reasonable price. They are specially designed to suit our high lift, high acceleration profiles. The following is a guide to popular applications, if yours is not here see the spring specification chart on page 40 or call our technical staff.

Making correct measurements before assembly is *critical* as many variables are present to catch the unwary.

| Holden Ecotec V6 | | | | | | | |
|-------------------------|-------------------------|---------------------------|--------------------------|------------------|---------------------|------------------------|--------------------|
| PART NO. | INSTALLED HEIGHT | INSTALLED PRESSURE | PRESSURE @.5 LIFT | MAX. LIFT | SOLID HEIGHT | SPRING RETAINER | VALVE LOCKS |
| 4231-12 | 1.780" | 110 | 260 | .550" | 1.120" | 10707-12 | 10701-12 |
| 4918-12 | 1.780" | 125 | 275 | .600" | 1.080" | 10707-12 | 10702-12 |
| 4438-12 | 1.800" | 140 | 325 | .650" | 0.950" | 10708-12 | 10702-12 |

| Holden VN-VP V6 | | | | | | | |
|------------------------|---------------------------|---------------------------|--------------------------|------------------|---------------------|------------------------|--------------------|
| PART NO. | INSTALLER D HEIGHT | INSTALLED PRESSURE | PRESSURE @.5 LIFT | MAX. LIFT | SOLID HEIGHT | SPRING RETAINER | VALVE LOCKS |
| 4936 | 1.700" | 85 | 230 | .500" | 1.150" | Std. | 11701 |
| 4828 | 1.700" | 120 | 250 | .550" | 1.010" | Std | 11701 |
| 4836 | 1.700" | 100 | 295 | .550" | 1.010" | 11707 | 11701 |
| 4328 ³ | 1.700" | 115 | 250 | .600" | 0.960" | 11707 | 11701 |
| 4841 | 1.700" | 120 | 320 | .500" | 1.150" | 11707 | 11701 |
| 4845-12 ² | 1.800" | 100 | 300 | .600" | 1.150" | 11717 | 11701 |
| 7333-12 ^{2,3} | 1.800" | 130 | 295 | .750" | 1.010" | 13101/11710 | 11101/4133 |

| Holden 6 Cylinder Red Motor | | | | | | | |
|------------------------------------|-------------------------|-----------------------------|----------------------------|------------------|---------------------|------------------------|--------------------|
| PART NO. | INSTALLED HEIGHT | INSTALLER D PRESSURE | PRESSURE @ .5" LIFT | MAX. LIFT | SOLID HEIGHT | SPRING RETAINER | VALVE LOCKS |
| 4719 | 1.625" | 105 | 215 | 0.625" | .960" | Std | 11703 |
| 4326-12 ³ | 1.625" | 110 | 240 | 0.650" | .930" | Std | 11703 |
| 4823 | 1.625" | 120 | 250 | 0.650" | .930" | Std | 11703 |
| 4327 | 1.660" | 125 | 270 | 0.660" | .960" | 11707-6 | 11703 |
| 7328-12 ⁵ | 1.755" | 130 | 270 | 0.770" | .950" | 12710-6 | 11705 |
| 7333-12 ⁵ | 1.760" | 130 | 300 | 0.680" | 1.050" | 13101 | 11101 |
| 7331-12 ⁵ | 1.760" | 185 | 340 | 0.710" | 1.000" | 13101 | 11101 |
| 8945-12 ⁵ | 1.810" | 210 | 450 | 0.680" | 1.040" | 13102 | 11150 |

| Holden 6 Cylinder Blue & Black Motor | | | | | | | |
|---|-------------------------|---------------------------|--------------------------|------------------|---------------------|------------------------|--------------------|
| PART NO. | INSTALLED HEIGHT | INSTALLED PRESSURE | PRESSURE @.5 LIFT | MAX. LIFT | SOLID HEIGHT | SPRING RETAINER | VALVE LOCKS |
| 4028 | 1.470" | 85 | 225 | 0.580" | 0.850" | Standard | 11703 |
| 4336 ² | 1.505" | 105 | 285 | 0.600" | 0.850" | 11707-6 | 11703 |
| 4823 ² | 1.605" | 125 | 250 | 0.615" | 0.950" | 11717-6 | 11703 |
| 4327 ² | 1.655" | 125 | 265 | 0.700" | 0.900" | 11717-6 | 4134 |

| Holden Gemini | | | | | | | |
|----------------------|-------------------------|---------------------------|--------------------------|------------------|---------------------|------------------------|--------------------|
| PART NO. | INSTALLED HEIGHT | INSTALLED PRESSURE | PRESSURE @.5 LIFT | MAX. LIFT | SOLID HEIGHT | SPRING RETAINER | VALVE LOCKS |
| 5840 | 1.550" | 85 | 235 | .580" | .880" | Standard | Std. |
| 5833 | 1.550" | 100 | 250 | .510" | .900" | Standard | Std. |
| 5832 | 1.650" | 86 | 247 | .580" | .950" | Standard | Std. |

NOTES

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|---|--|
| 2. Must use performance retainers | 4. Must use performance seal |
| 3. Machining required to fit these components | 5. Notes 2 to 4 all apply to this part number. |

VALVE SPRING APPLICATION Cont.

Holden 253,308. Chev 350

| PART NO. | INSTALLED HEIGHT | INSTALLED PRESSURE | PRESSURE @.5 LIFT | MAX. LIFT | SOLID HEIGHT | SPRING RETAINER | VALVE LOCKS |
|---------------------|-------------------------|---------------------------|--------------------------|------------------|---------------------|------------------------|--------------------|
| 4931 | 1.700" | 85 | 230 | .500" | 1.150" | Std. | 11701 |
| 4828 | 1.700" | 120 | 250 | .520" | 1.010" | Std | 11701 |
| 4833 | 1.700" | 95 | 295 | .550" | 1.010" | 11707 | 11701 |
| 4328 ³ | 1.700" | 115 | 250 | .600" | 0.960" | 11707 | 11701 |
| 4843 | 1.700" | 120 | 320 | .500" | 1.150" | 11707 | 11701 |
| 4844 ² | 1.800" | 100 | 300 | .600" | 1.150" | 11717 | 11701 |
| 4438 | 1.800" | 140 | 325 | .650" | 0.950" | 11717 | 4133 |
| 7736 ^{2,3} | 1.700" | 110 | 288 | .550" | 1.100" | 11700 | 11701 |
| 7328 ^{2,3} | 1.700" | 130 | 275 | .710" | 0.950" | 11700 | 11701 |
| 7333 ^{2,3} | 1.800" | 130 | 295 | .680" | 1.010" | 13101/11710 | 11101/4133 |
| 7342 ^{2,3} | 1.800" | 135 | 340 | .680" | 0.980" | 13101 | 11101 |
| 7437 ³ | 1.850" | 130 | 295 | .680" | 1.010" | 13102 | 11150 |
| 7331 ^{2,3} | 1.800" | 170 | 330 | .750" | 1.010" | 13101 | 11101 |
| 8945 ^{2,3} | 1.800" | 210 | 440 | .720" | 1.040" | 13102 | 11101 |

Holden V8 LS1, Gen III

| PART NO. | INSTALLED HEIGHT | INSTALLED PRESSURE | PRESSURE @.5 LIFT | MAX. LIFT | SOLID HEIGHT | SPRING RETAINER | VALVE LOCKS |
|-----------------|-------------------------|---------------------------|--------------------------|------------------|---------------------|------------------------|--------------------|
| 4231 | 1.780" | 110 | 260 | 0.550" | 1.120" | Standard | 10701 |
| 4918 | 1.780" | 125 | 275 | 0.600" | 1.080" | Standard | 10701 |
| 4438-16 | 1.780" | 145 | 335 | 0.650" | 0.950" | 10708-16 | 10701 |

Chev. Big Block 396-454 *Standard retainers have large step which may bind on damper.*

| PART NO. | INSTALLED HEIGHT | INSTALLED PRESSURE | PRESSURE @.5 LIFT | MAX. LIFT | SOLID HEIGHT | SPRING RETAINER | VALVE LOCKS |
|-------------------|-------------------------|---------------------------|--------------------------|------------------|---------------------|------------------------|--------------------|
| 7737 | 1.880" | 90 | 250 | 0.525" | 1.250" | 12702 | Std. |
| 8937 | 1.900" | 135 | 325 | 0.650" | 1.130" | 13102 | 12101 |
| 8337 ² | 1.980" | 125 | 312 | 0.725" | 1.115" | 13102 | 12101 |
| 9936 ⁵ | 1.980" | 130 | 335 | 0.760" | 1.140" | 13102 | 12101 |
| 9950 ⁵ | 1.980" | 160 | 400 | 0.760" | 1.140" | 13102 | 12101 |
| 9946 ⁵ | 1.980" | 205 | 480 | 0.760" | 1.170" | 13102 | 12101 |
| 9954 ⁵ | 1.980" | 233 | 515 | 0.800" | 1.100" | TR5650 | 12101 |

Ford 998 - 1600 Pushrod Engine. *NB. Step to be M/C off head for double springs*

| PART NO. | INSTALLED HEIGHT | INSTALLED PRESSURE | PRESSURE @.440 LIFT | MAX. LIFT | SOLID HEIGHT | SPRING RETAINER | VALVE LOCKS |
|-------------------|-------------------------|---------------------------|----------------------------|------------------|---------------------|------------------------|--------------------|
| 2021 | 1.289" | 70 | 170 | .490" | .750" | | |
| 2834 ⁸ | 1.280" | 115 | 285 | .440" | .800" | | |

Ford 2000 OHC

| PART NO. | INSTALLED HEIGHT | INSTALLED PRESSURE | PRESSURE @.5 LIFT | MAX. LIFT | SOLID HEIGHT | SPRING RETAINER | VALVE LOCKS |
|-------------------|-------------------------|---------------------------|--------------------------|------------------|---------------------|------------------------|--------------------|
| 4250 ⁴ | 1.417" | 90 | 210 | .580" | .795" | Std. | Std. |

VALVE SPRING APPLICATION Cont.

| Falcon Crossflow | | | | | | | |
|-------------------------|-------------------------|---------------------------|--------------------------|------------------|---------------------|------------------------|--------------------|
| PART NO. | INSTALLED HEIGHT | INSTALLED PRESSURE | PRESSURE @.5 LIFT | MAX. LIFT | SOLID HEIGHT | SPRING RETAINER | VALVE LOCKS |
| 7739-12 ² | 1.820" | 90 | 245 | .600" | 1.125" | 12700-6 | 11704 |
| 7738-12 ² | 1.820" | 110 | 280 | .640" | 1.140" | 12702-6 | 11704 |
| 7328-12 ^{2,4} | 1.820" | 95 | 240 | .800" | 0.950" | 12710-6 | 11704 |
| 7333-12 ^{2,4} | 1.820" | 125 | 290 | .650" | 1.100" | 12700-6 | 11704 |

| Falcon 6 OHC to EL | | | | | | | |
|---------------------------|-------------------------|---------------------------|--------------------------|------------------|---------------------|------------------------|--------------------|
| PART NO. | INSTALLED HEIGHT | INSTALLED PRESSURE | PRESSURE @.5 LIFT | MAX. LIFT | SOLID HEIGHT | SPRING RETAINER | VALVE LOCKS |
| 7739-12 | 1.820" | 90 | 245 | .600" | 1.125" | Standard | 11704 |
| 7332-12 | 1.820" | 115 | 275 | .650" | 1.100" | 12700-12 | 11704 |
| 7333-12 | 1.820" | 140 | 305 | .650" | 1.100" | 12700-12 | 11704 |

| Ford Cleveland & Big Block 370-460 <small>NB. Step to be M/C off head for double springs</small> | | | | | | | |
|---|-------------------------|---------------------------|--------------------------|------------------|---------------------|------------------------|--------------------|
| PART NO. | INSTALLED HEIGHT | INSTALLED PRESSURE | PRESSURE @.5 LIFT | MAX. LIFT | SOLID HEIGHT | SPRING RETAINER | VALVE LOCKS |
| 7737 ² | 1.820" | 110 | 270 | .530" | 1.240" | 12702 ⁷ | 11702 ⁷ |
| 7738 ² | 1.820" | 110 | 280 | .640" | 1.140" | 12702 ⁷ | 11702 ⁷ |
| 7328 ⁵ | 1.820" | 110 | 250 | .830" | 0.950" | 11700 | 4133 |
| 7333 ⁵ | 1.820" | 125 | 290 | .650" | 1.100" | 11700 | 4133 |
| 7437 ⁵ | 1.820" | 140 | 330 | .680" | 1.100" | 13102 | 11101 |
| 7331 ⁵ | 1.920" | 130 | 290 | .750" | 1.100" | 13101 | 11101 |
| 9950 ⁵ | 1.920" | 190 | 430 | .725" | 1.130" | 13102 | 11101 |
| 9946 ⁵ | 1.920" | 240 | 515 | .700" | 1.170" | 13102 | 11101 |

| Ford Windsor <small>Check installed height before selecting springs as models vary</small> | | | | | | | |
|---|-------------------------|---------------------------|--------------------------|------------------|---------------------|------------------------|--------------------|
| PART NO. | INSTALLED HEIGHT | INSTALLED PRESSURE | PRESSURE @.5 LIFT | MAX. LIFT | SOLID HEIGHT | SPRING RETAINER | VALVE LOCKS |
| 5091 | 1.700" | 80 | 245 | .600" | 1.062" | 11700 | 11701 |
| 6426 ⁴ | 1.700" | 95 | 210 | .760" | 0.891" | 11700 | 11701 |
| 7736 | 1.700" | 120 | 300 | .550" | 1.100" | 11700 | 11701 |
| 7738 | 1.800" | 115 | 200 | .640" | 1.140" | 11700 | 11701 |
| 7333 ⁵ | 1.800" | 130 | 300 | .650" | 1.100" | 11710 | 11701 |
| 7437 ⁵ | 1.800" | 145 | 335 | .680" | 1.100" | 13102 | 11101 |
| 8945 ⁵ | 1.800" | 180 | 380 | .620" | 1.140" | 13102 | 11101 |

| Chrysler Slant 6 225 | | | | | | | |
|-----------------------------|-------------------------|---------------------------|--------------------------|------------------|---------------------|------------------------|--------------------|
| PART NO. | INSTALLED HEIGHT | INSTALLED PRESSURE | PRESSURE @.5 LIFT | MAX. LIFT | SOLID HEIGHT | SPRING RETAINER | VALVE LOCKS |
| 5091 | 1.650" | 95 | 265 | 0.520" | 1.090" | Std. | Std. |

| Chrysler Hemi 6 | | | | | | | |
|------------------------|-------------------------|---------------------------|--------------------------|------------------|---------------------|------------------------|--------------------|
| PART NO. | INSTALLED HEIGHT | INSTALLED PRESSURE | PRESSURE @.5 LIFT | MAX. LIFT | SOLID HEIGHT | SPRING RETAINER | VALVE LOCKS |
| 5091-6 | 1.687" | 85 | 250 | 0.585" | 1.062" | 12700 | 12102 |
| 7235-6 | 1.687" | 90 | 270 | 0.800" | 0.845" | 12700 | 12102 |
| 7736-6 | 1.687" | 110 | 290 | 0.545" | 1.100" | 12700 | 12102 |
| 6426-6 ^{3,4} | 1.687" | 105 | 225 | 0.750" | 0.891" | 12700 | 12102 |
| 7328-6 ^{3,4} | 1.787" | 120 | 260 | 0.800" | 0.950" | 12710 | 12102 |

VALVE SPRING APPLICATION Cont.

| Chrysler 273 - 360 V8 | | | | | | | |
|------------------------------|-------------------------|---------------------------|--------------------------|------------------|---------------------|------------------------|--------------------|
| PART NO. | INSTALLED HEIGHT | INSTALLED PRESSURE | PRESSURE @.5 LIFT | MAX. LIFT | SOLID HEIGHT | SPRING RETAINER | VALVE LOCKS |
| 5091 | 1.687" | 85 | 250 | 0.585" | 1.062" | 12700 | Note 7 |
| 7235 | 1.687" | 90 | 270 | 0.800" | 0.845 | 12700 | Note 7 |
| 7736 | 1.687" | 110 | 290 | 0.545" | 1.100" | 12700 | Note 7 |
| 6426 ^{3,4} | 1.687" | 105 | 225 | 0.750" | 0.891" | 12700 | Note 7 |
| 7328 ^{3,4} | 1.787" | 120 | 260 | 0.800" | 0.950" | 12710 | Note 7 |
| 6340 ^{3,4} | 1.687" | 135 | 335 | 0.715" | 0.930" | 12700 | Note 7 |
| 7331 ^{3,4} | 1.687" | 205 | 360 | 0.625" | 1.010" | 12700 | Note 7 |

| Sigma | | | | | | | |
|-----------------|-------------------------|---------------------------|--------------------------|------------------|---------------------|------------------------|--------------------|
| PART NO. | INSTALLED HEIGHT | INSTALLED PRESSURE | PRESSURE @.5 LIFT | MAX. LIFT | SOLID HEIGHT | SPRING RETAINER | VALVE LOCKS |
| 5840 | 1.560" | 105 | 275 | 0.710" | 0.810" | Std. | Std. |

| Datsun L series engines, 1600-2000 | | | | | | | |
|---|-------------------------|---------------------------|--------------------------|------------------|---------------------|------------------------|--------------------|
| PART NO. | INSTALLED HEIGHT | INSTALLED PRESSURE | PRESSURE @.5 LIFT | MAX. LIFT | SOLID HEIGHT | SPRING RETAINER | VALVE LOCKS |
| 5840 | 1.580" | 85 | 240 | 0.610" | 0.840" | Std. | Std. |

| Nissan RB30 Valve Springs | | | | | | | |
|----------------------------------|-------------------------|---------------------------|--------------------------|------------------|---------------------|------------------------|--------------------|
| PART NO. | INSTALLED HEIGHT | INSTALLED PRESSURE | PRESSURE @.5 LIFT | MAX. LIFT | SOLID HEIGHT | SPRING RETAINER | VALVE LOCKS |
| 5840-12 | 1.570" | 85 | 240 | 0.600" | 0.880" | Std. | Std. |
| 5833-12 | 1.570" | 105 | 255 | 0.550" | 0.880" | Std. | Std. |
| 5835-12 | 1.570" | 100 | 265 | 0.550" | 0.940" | Std. | Std. |
| 5838-12 ⁸ | 1.600" | 120 | 310 | 0.550" | 0.950" | Std. | Std. |

NOTES

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| <ul style="list-style-type: none"> 2. Must use performance retainers 3. Machining required to fit these components 4. Must use performance seal | <ul style="list-style-type: none"> 5. Notes 2 to 4 all apply to this part number. 7. Hardened valve locks, Inlet 12703, Exhaust 12704. 8. Step on head needs to be machined to 0.040" , 1mm high. |
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