

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 56 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
4021	1.625"	110	300	.445"	1.140"	Std	Std
4231-12	1.710"	130	280	.550"	1.120"	Std	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.	INSTALLE D HEIGHT	INSTALLED PRESSURE	PRESSURE @.5 LIFT	MAX. LIFT	SOLID HEIGHT	SPRING RETAINER	VALVE LOCKS
4936	1.700"	85	230	.500"	1.150"	Std.	11703
4828	1.700"	120	250	.550"	1.010"	Std	11703
4836	1.700"	100	295	.550"	1.010"	11707-12	11703
4328 ³	1.700"	115	250	.600"	0.960"	11707-12	11703
4841	1.700"	120	320	.500"	1.150"	11707-12	11703
4845-12 ²	1.800"	100	300	.600"	1.150"	11717-12	11703
7333-12 ^{2,3}	1.800"	130	295	.750"	1.010"	13101/11710	11101/4133

Holden 6 Cylinder Red Motor							
PART NO.	INSTALLED HEIGHT	INSTALLE 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"	11707-12	11703
7328-12 ⁵	1.760"	130	270	0.770"	.950"	13101-12	11101
7333-12 ⁵	1.810"	130	300	0.680"	1.050"	13101	11150
7331-12 ⁵	1.810"	185	340	0.710"	1.000"	13101	11150
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"	11707-12	11703
4823 ²	1.605"	125	250	0.615"	0.950"	11717-12	11703
4327 ²	1.655"	125	265	0.700"	0.900"	11717-12	4134-12

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.

NOTES

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

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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"	105	305	.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 <i>Standard retainers have large step which may bind on damper.</i>							
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
9949 ⁵	1.980"	280	515	0.600"	1.320"	TR565	12101

VALVE SPRING APPLICATION Cont.

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.

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	11703
7332-12	1.820"	115	275	.650"	1.100"	11700-12	11703
7333-12	1.820"	140	305	.650"	1.100"	11700-12	11703

Ford 6 Cyl Au Double Spring Kit							
PART NO.	INSTALLED HEIGHT	INSTALLED PRESSURE	PRESSURE @.5 LIFT	MAX. LIFT	SPRING SEAT	SPRING RETAINER	VALVE LOCKS
VTKAU ³	1.820"	125	285	.600"		11740-12	Stock
VTKAU-R ³	1.82"	150	310	.600"	VSS1456	11740-12	Stock

Ford Cleveland & Big Block 370-460 NB. Step to be M/C off head for double springs							
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"	13101	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 Check installed height before selecting springs as models vary							
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	285	.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

VALVE SPRING APPLICATION Cont.

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 V8 4.7 2003 on							
PART NO.	INSTALLED HEIGHT	INSTALLED PRESSURE	PRESSURE @.5 LIFT	MAX. LIFT	SOLID HEIGHT	SPRING RETAINER	VALVE LOCKS
4435-16	1.800"	135	310	0.600"	1.160"	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

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

- 2. Must use performance retainers
- 3. Machining required to fit these components
- 4. Must use performance seal
- 5. Notes 2 to 4 all apply to this part number.
- 7. Hardened valve locks, Inlet 12703, Exhaust 12704.
- 8. Machine Step on head to 0.040" , 1mm high.