

PERFORMANCE 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 your spring is not listed please see the spring specification chart on page xx or contact our technical staff.

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

Note Dual Valve Springs may require head machining to fit. Dual Valve Springs measured with .100" Thick Retainer.

Part Number	Installed Height	Installed Pressure	Pressure @.5 Lift	Max. Lift	Solid Height	Spring Retainer	Valve Locks	O/D	ID of Outer	ID of Inner	Spring Type	RH or LH (Outer)	Free Length	Spring Rate (Lb/hr)
CHEV. BIG BLOCK 396 - 454 Standard retainers have large step which may bind on damper.														
7737-16	1.880"	90	270	.520"	1.310"	12700	12708	1.510"	1.086"	0.965"	1+ Damper	L	2.220"	345
7437-16^D	1.880"	118	300	.780"	1.050"	12700	12708	1.465"	1.080"	0.800"	2	L	2.260"	380
4910-16^D	1.900"/2.000"	240 / 190	520 / 460	.700"	1.100"	12710 / TR405	12708	1.550"	1.150"	0.800"	2	R	2.466"	555
8937-16^D	1.900"	131	325	.650"	1.180"	12710	12708	1.530"	1.120"	0.760"	2+ Damper	L	2.335"	390
9731-16	1.950"	130	295	.720"	1.180"	12700	12708	1.550"	1.125"	1.000"	1+ Damper	L	2.460"	320
8337-16^D	1.980"	130	305	.725"	1.114"	12710	12708	1.515"	1.120"	0.800"	2	L	2.350"	360
9936-16^D	1.980"	143	345	.800"	1.180"	12710	12708	1.539"	1.120"	0.765"	2+ Damper	L	2.460"	400
9950-16^D	1.980"	165	410	.760"	1.150"	12710	12708	1.540"	1.130"	0.725"	2+ Damper	L	2.430"	485
9945-16^D	1.980"	138	370	.760"	1.200"	12710	12708	1.560"	1.010"	0.690"	2+ Damper	L	2.475"	460
4920-16^D	2.000"	267	574	.770"	1.180"	12710 / TR405	12708	1.560"	1.110"	0.780"	2	R	2.475"	620
CHEV. SMALL BLOCK V8														
4931-16	1.700"	85	250	.550"	1.140"	11707	11701	1.230"	0.880"	0.770"	1+ Damper	R	2.020"	275
4828-16	1.700"	110	285	.570"	1.080"	11707	11701	1.250"	0.870"		1	R	2.030"	360
4830-16	1.700"	120	275	.550"	1.120"	11707	11701	1.220"	0.860"	0.755"	1+ Damper	R	2.140"	310
4833-16	1.700"	110	320	.570"	1.080"	11707	11701	1.255"	0.868"	0.780"	1+ Damper	R	2.030"	415
4328-16^D	1.700"	108	243	.700"	.940"	11707	11701	1.245"	0.920"	0.685"	2	L	2.165"	260
4843-16	1.700"	120	320	.490"	1.160"	11707	11701	1.265"	0.875"	0.760"	1+ Damper	R	2.015"	411
7328-16^D	1.700"	140	285	.690"	.960"	11700	11701	1.430"	1.080"	0.810"	2	L	2.372"	280
4438-16^D	1.800"	155	330	.650"	1.050"	11717	4133	1.290"	0.948"	0.690"	2	R	2.345"	365
7333-16^D	1.800"	130	295	.650"	1.050"	13101/11710	11101 / 4134	1.450"	1.090"	0.820"	2	L	2.345"	330
7331-16^D	1.800"	160	330	.700"	1.100"	13101/11710	11101 / 4134-16	1.450"	1.090"	0.800"	2	L	2.350"	330

Part Number	Installed Height	Installed Pressure	Pressure @.5 Lift	Max. Lift	Solid Height	Spring Retainer	Valve Locks	O/D	ID of Outer	ID of Inner	Spring Type	RH or LH (Outer)	Free Length	Spring Rate (Lb/hr)
CHEV. SMALL BLOCK V8 ...CONTINUED														
4845-16	1.850"	95	285	.660"	1.140"	11717	4134	1.260"	0.880"	0.785"	1 + Damper	R	2.130"	380
7342-16^D	1.850"	135	330	.760"	1.040"	13101/11710	11101 / 4134	1.480"	1.080"	.800"	2	L	2.280"	390
7437-16^D	1.850"	130	315	.750"	1.050"	13101/11710	11101 / 4134	1.465"	1.080"	0.800"	2	L	2.260"	380
4910-16^D	1.900"/2.000"	240 / 190	520 / 460	.700"	1.100"	13101 / TR405	11101	1.550"	1.150"	0.800"	2	R	2.460"	555
4920-16^D	2.000"	267	574	.770"	1.180"	13101 / TR405	11101	1.560"	1.110"	0.780"	2	R	2.475"	620
7328-16^D	1.700"	145	285	.690"	.960"	11700	11701	1.425"	1.095"	0.820"	2	L	2.350"	280
CHRYSLER SMALL BLOCK 273 - 360 V8														
5091-16	1.687"	90	270	.542"	1.095"	12700	12108	1.500"	1.080"	0.990"	1 + Damper	R	1.960"	355
7736-16	1.687"	115	280	.537"	1.100"	12700	12108	1.445"	1.040"	0.955"	1 + Damper	L	2.040"	340
7331-16^D	1.687"	200	370	.700"	1.100"	12700	12108	1.450"	1.090"	0.800"	2	L	2.350"	330
7328-16^D	1.787"	120	260	.690"	0.960"	12710	12108	1.425"	1.095"	0.820"	2	L	2.350"	280
CHRYSLER 300C V8 5.7 - 6.1														
4435-16	1.800"	135	314	.600"	1.150"	Stock	Stock	1.060" TOP 1.200" BOT	0.640" TOP 0.800" BOT		1 Conical	R	2.220"	350
CHRYSLER SLANT 6 225														
5091-12	1.650"	100	285	.542"	1.095"	Std.	Std.	1.500"	1.080"	0.990	1 + Damper	R	1.960"	355
CHRYSLER HEMI 6														
5091-12	1.687"	90	270	.542"	1.095"	12700	12102-12	1.500"	1.080"	0.990	1 + Damper	R	1.960"	355
7736-12	1.687"	115	280	.537"	1.100"	12700	12102-12	1.445"	1.040"	0.955"	1 + Damper	L	2.040"	340
7328-12^D	1.787"	120	260	.690"	0.960"	12710	12102-12	1.425"	1.095"	0.820"	2	L	2.350"	280
DATSUN L SERIES ENGINES, 1600-2000 4CYL / 2400-2800 6CYL														
5840-8^D	1.580"	90	265	.670"	0.860"	Std.	Std.	1.335"	1.000"	0.720"	2	R	1.930"	345
FORD BA 6 CYLINDER														
1808-24	1.480"	90	200	.550"	.880"	Std	Std	0.970" TOP 1.060" BOT	0.650" TOP 0.727" BOT		1 Conical	R	1.970"	220
1809-24	1.520"	105	205	.570"	.900"	10703	Std	0.970" TOP 1.060" BOT	0.650" TOP 0.740" BOT		1 Conical	R	2.180"	205
FORD BA V8 290KW / XR8 FROM MAY 2008														
1808-32	1.490"	88	188	.550"	.880"	Std	Std	0.970" TOP 1.060" BOT	0.650" TOP 0.727" BOT		1 Conical	R	1.970"	220
1809-32	1.590"	90	190	.570"	.900"	10705	Std	0.970" TOP 1.060" BOT	0.650" TOP 0.740" BOT		1 Conical	R	2.180"	205
1804-32	1.590"	120	260	.520"	1.020"	Std	Std;	0.995" TOP 1.060" BOT	0.635" TOP 0.700" BOT		1 Conical	R	2.060"	280

Part Number	Installed Height	Installed Pressure	Pressure @.5 Lift	Max. Lift	Solid Height	Spring Retainer	Valve Locks	O/D	ID of Outer	ID of Inner	Spring Type	RH or LH (Outer)	Free Length	Spring Rate (Lb/hr)
FORD FALCON CROSSFLOW														
7739-12	1.820"	100	270	.600	1.150"	12700	11704-12	1.420"	1.015"	0.925"	1 + Damper	R	2.160"	340
7738-12	1.820"	110	285	.590"	1.200"	12700	11704-12	1.470"	1.060"	0.960"	1 + Damper	L	2.170"	350
7328-12^D	1.820"	110	250	.690"	0.960"	12700	11704-12	1.425"	1.095"	0.820"	2	L	2.350"	280
7333-12^D	1.820"	124	285	.650"	1.050"	12700	11704-12	1.450"	1.090"	0.820"	2	L	2.345"	330
FORD FALCON AU														
7739-12	1.820"	100	270	.600	1.150"	11750	Standard	1.420"	1.015"	0.925"	1 + Damper	R	2.160"	340
7332-12^D	1.820"	98	255	.650"	1.050"	11740	Standard	1.445"	1.090"	0.800"	2	L	2.335"	315
7333-12^D	1.820"	124	285	.650"	1.050"	11740	Standard	1.450"	1.090"	0.820"	2	L	2.345"	330
FORD FALCON PRE-CROSSFLOW														
1025-12	1.550"	125	260	.520"	1.030"	11700	11703-12	1.370"	1.005"		1	L	2.110"	265
FORD 4.6 V8 4 VALVE														
1832-16	1.470"	95	265	.500"	.900"	N/A	Standard	0.970"TOP 1.105"BOT	0.585"TOP 0.745"BOT		1 Conical	R	1.810"	310
FORD FALCON 6 OHC TO EL														
7739-12	1.820"	100	270	.600	1.150"	12700	11704	1.420"	1.015"	0.925"	1 + Damper	R	2.160"	340
7332-12^D	1.820"	98	255	.650"	1.050"	12700	11704	1.445"	1.090"	0.800"	2	L	2.335"	315
7333-12^D	1.820"	124	285	.650"	1.050"	12700	11704	1.450"	1.090"	0.820"	2	L	2.345"	330
FORD 998 - 1600 PUSHROD ENGINE NB. Step to be M/C off head for double springs														
2834-8^D	1.280"	115	270 @.400	.430"	.830"	Standard	Standard	1.140"	0.830"	0.612"	2	R	1.650"	390
2836-8^D	1.280"	130	290 @.400	.460"	.830"	Standard	Standard	1.140"	0.830"	0.612"	2	R	1.650"	355
2021-8	1.289"	75	195	.489"	.750"	Standard	Standard	1.140"	0.830"		1	R	1.650"	235
FORD 2000 OHC														
4250-8^D	1.417"	72	195	.550"	.805"	Standard	Standard	1.212"	0.930"	.0695"	2	R	1.960"	250

Part Number	Installed Height	Installed Pressure	Pressure @.5 Lift	Max. Lift	Solid Height	Spring Retainer	Valve Locks	O/D	ID of Outer	ID of Inner	Spring Type	RH or LH (Outer)	Free Length	Spring Rate (Lb/hr)
FORD CLEVELAND & BIG BLOCK 370-460 SINGLE OR MULTI GROOVE VALVES														
NB. Step to be M/C off head for double springs														
7342-16^D	1.800"	155	350	.760"	1.040"	11700	4133	1.460"	1.080"	0.800"	2	L	2.280"	390
7737-16	1.820"	110	295	.520"	1.310"	12700	11702	1.510"	1.086"	0.965"	1 + Damper	L	2.220"	370
7738-16	1.820"	110	285	.590"	1.200"	12700	11702	1.475"	1.060"	0.965"	1 + Damper	L	2.170"	350
7328-16^D	1.820"	110	250	.690"	0.960"	11700	4133	1.425"	1.095"	0.820"	2	L	2.350"	280
7333-16^D	1.820"	124	285	.650"	1.050"	11700	4133	1.450"	1.090"	0.820"	2	L	2.345"	330
7437-16^D	1.820"	135	330	.750"	1.050"	11700	4133	1.465"	1.080"	0.800"	2	L	2.260"	380
4910-16^D	1.900"/2.000"	240 / 190	520 / 460	.700"	1.100"	12710 / TR405	12708	1.550"	1.150"	0.800"	2	R	2.460"	555
7331-16^D	1.920"	125	285	.700"	1.100"	13101	11101	1.450"	1.090"	0.800"	2	L	2.350"	315
9950-16^D	1.920"	190	440	.760"	1.150"	13102	11101	1.540"	1.130"	0.725"	2 + Damper	L	2.430"	500
4920-16^D	2.000"	267	574	.770"	1.180"	13101 / TR405	11101	1.560"	1.110"	0.780"	2	R	2.475"	620
FORD WINDSOR Check installed height before selecting springs as models vary														
7736-16	1.700"	110	280	.550"	1.120"	11700	11701	1.445"	1.045"	0.960"	1 + Damper	L	2.050"	340
7738-16	1.800"	115	295	.570"	1.200"	11710	11701	1.450"	1.060"	0.960"	1 + Damper	L	2.170"	355
7333-16^D	1.800"	130	295	.650"	1.050"	11710	11701 / 4134	1.450"	1.090"	0.820"	2	L	2.345"	330
7437-16^D	1.800"	145	335	.750"	1.050"	11710	4133	1.465"	1.080"	0.800"	2	L	2.260"	390
7342-16^D	1.800"	155	350	.760"	1.040"	11710	4134	1.460"	1.080"	0.800"	2	L	2.460"	390
4910-16^D	1.900"/2.000"	240 / 190	520 / 460	.700"	1.100"	12710 / TR405	12708	1.550"	1.150"	0.800"	2	L	2.460"	555
4920-16^D	2.000"	267	574	.770"	1.180"	13101 / TR405	11101	1.560"	1.110"	0.780"	2	R	2.475"	620

Part Number	Installed Height	Installed Pressure	Pressure @.5 Lift	Max. Lift	Solid Height	Spring Retainer	Valve Locks	O/D	ID of Outer	ID of Inner	Spring Type	RH or LH (Outer)	Free Length	Spring Rate (Lb/in)
HOLDEN VN-VP V6														
4936-12	1.700"	85	250	.550"	1.120"	11707	11703	1.230"	0.875"	0.780"	1 + Damper	R	2.000"	330
4836-12	1.700"	115	315	.550"	1.100"	11707	11703	1.250"	0.875"	0.780"	1 + Damper	R	2.040"	405
4327-12^D	1.700"	110	240	.710"	0.940"	11707	4133	1.255"	0.930"	0.690"	2	L	2.170"	270
4835-12	1.700"	120	290	.560"	1.090"	11707	11703	1.220"	0.860"	0.765"	1 + Damper	R	2.170"	340
7328-12^D	1.700"	145	285	.690"	0.960"	11700	11703 / 4133	1.425"	1.095"	0.820"	2	L	2.350"	285
7332-12^D	1.700"	135	295	.650"	1.050"	11700	4133	1.445"	1.090"	0.800"	2	L	2.335"	325
4231-12	1.780"	120	270	.550"	1.100"	11707	11703-12	1.045"TOP 1.275"BOT	0.650"TOP 0.870"BOT		1 Conical	R	2.260"	300

HOLDEN ECOTEC V6

4231-12	1.780"	120	270	.550"	1.100"	10707	10701	1.045"TOP 1.275"BOT	0.650"TOP 0.870"BOT		1 Conical	R	2.260"	300
4438-12^D	1.780"	165	340	.650"	1.000"	10708	10701	1.295"	0.948"	0.690"	2	R	2.365"	355
4511X-12	1.780"	150	335	.600"	1.100"	10707	10701	1.035"TOP 1.290"BOT	0.655"TOP 0.910"BOT		1 Conical	R	2.230"	365
4919-12	1.780"	150	310	.590"	1.090"	10707	10701	1.050"TOP 1.275"BOT	0.650"TOP 0.880"BOT		1 Conical	R	2.390	320
4918-12	1.780"	135	295	.640"	1.090"	10707	10701	1.040"TOP 1.275"BOT	0.640"TOP 0.875"BOT		1 Conical	R	2.335"	314
4021-12	1.780"	55	230	.630"	1.150"	11707	11701	1.065"TOP 1.255"BOT	0.670"TOP 0.875"BOT		1 Conical	R	1.960"	350

HOLDEN 6 CYLINDER RED MOTOR

4719-12	1.625"	85	210	.645"	.930"	11707	11703	1.240"	0.920"	0.840"	1 + Damper	L	2.090"	250
4326-12^D	1.625"	125	260	.625"	.950"	11707	11703	1.240"	0.920"	0.685"	2	L	2.100"	275
4823-12	1.625"	115	250	.615"	.960"	11707	11703	1.275"	0.930"	0.850"	1 + Damper	L	2.170"	270
4327-12^D	1.660"	120	250	.670"	.940"	11707	11703	1.250"	0.930"	0.690"	2	L	2.168"	270
7328-12^D	1.755"	130	270	.690"	.960"	11700	4134	1.425"	1.095"	0.820"	2	L	2.350"	280
7333-12^D	1.810"	125	290	.650"	1.050"	11710	4134	1.450"	1.090"	0.820"	2	L	2.345"	325
7331-12^D	1.810"	160	324	.700"	1.100"	11710	4134	1.450"	1.090"	0.800"	2	L	2.350"	310

Part Number	Installed Height	Installed Pressure	Pressure @.5 Lift	Max. Lift	Solid Height	Spring Retainer	Valve Locks	O/D	ID of Outer	ID of Inner	Spring Type	RH or LH (Outer)	Free Length	Spring Rate (Lb/hr)
HOLDEN 6 CYLINDER BLUE & BLACK MOTOR														
4028-12	1.470"	120	215	.540"	.950"	11707	11703	1.250"	0.920"	0.920"	1	L	2.105"	190
4038-12	1.470"	95	285	.500"	.920"	11707	11703	1.200"	0.860"	0.860"	1	R	1.830"	380
4336-12^D	1.505"	160	310	.605	.920"	11707	4133	1.245"	0.920"	0.685"	2	L	2.100"	295
4823-12	1.605"	120	255	0.615"	0.960"	11717	4134	1.275"	0.930"	0.850"	1 + Damper	L	2.170"	275
4327-12^D	1.655"	120	255	.670"	0.940"	11717	4134	1.250"	0.930"	0.690"	2	L	2.168"	270
HOLDEN GEMINI														
5840-8^D	1.550"	100	275	.640"	.860"	Standard	Standard	1.330"	0.990"	0.770"	2	R	1.930"	345
5833-8^D	1.550"	110	280	.600"	.900"	Standard	Standard	1.330"	0.990"	0.760"	2	R	2.160"	330
HOLDEN 253, 308														
4931-16	1.700"	85	245	.550"	1.140"	11707	11701	1.230"	0.880"	0.780"	1 + Damper	R	2.020"	320
7328-16^D	1.700"	140	285	.690"	.960"	11700	11701	1.425"	1.095"	0.820"	2	L	2.350"	285
4828-16	1.700"	105	285	.570"	1.080"	11707	11701	1.250"	0.870"	0.870"	1	R	2.030"	360
4830-16	1.700"	120	275	.550"	1.120"	11707	11701	1.220"	0.860"	0.755"	1 + Damper	R	2.140"	310
4833-16	1.700"	110	320	.570"	1.080"	11707	11701	1.255"	0.868"	0.780"	1 + Damper	R	2.030"	415
4328-16^D	1.700"	108	243	.700"	.940"	11707	11701	1.245"	0.920"	0.685"	2	L	2.165"	260
4843-16	1.700"	120	320	.490"	1.160"	11707	11701	1.265"	0.875"	0.760"	1 + Damper	R	2.015"	411
4438-16^D	1.800"	155	330	.650"	1.050"	11717	4133	1.290"	0.948"	0.690"	2	R	2.345"	365
7333-16^D	1.800"	125	290	.650"	1.050"	11710	4133	1.450"	1.090"	0.820"	2	L	2.345"	325
7331-16^D	1.800"	160	330	.700"	1.100"	13101/11710	11101 / 4134	1.450"	1.090"	0.800"	2	L	2.350"	330
4845-16	1.850"	95	285	.660"	1.140"	11717	4134	1.260"	0.875"	0.785"	1 + Damper	R	2.130"	380
7342-16^D	1.850"	135	330	.760"	1.040"	13101/11710	11101 / 4134	1.460"	1.080"	0.800"	2	L	2.280"	390
7437-16^D	1.850"	130	315	.750"	1.050"	13101/11710	11101 / 4134	1.465"	1.080"	0.800"	2	L	2.260"	380
4910-16^D	1.900"/2.000"	240 / 190	520 / 460	.700"	1.100"	12710 / TR405	12708	1.550"	1.150"	0.800"	2	R	2.460"	555
4920-16^D	2.000"	267	574	.770"	1.180"	13101 / TR405	11101	1.560"	1.110"	0.780"	2	R	2.475"	620

Part Number	Installed Height	Installed Pressure	Pressure @.5 Lift	Max. Lift	Solid Height	Spring Retainer	Valve Locks	O/D	ID of Outer	ID of Inner	Spring Type	RH or LH (Outer)	Free Length	Spring Rate (Lb/hr)
HOLDEN V8 LS ENGINE FAMILY														
4231-16	1.780"	120	270	.550"	1.100"	11707	11703	1.045"TOP 1.275"BOT	0.650"TOP 0.870"BOT		1 Conical	R	2.260"	300
1511ML-16	1.780"	140	330	.600"	1.100"	10707	10701	1.050" TOP 1.295" BOT	0.643" TOP 0.908" BOT		1 Conical	R	2.180"	385
4438-16^D	1.780"	165	340	.650"	1.000"	10708	10701	1.295"	0.948"	0.690"	2	R	2.365"	355
4439-16^D	1.800"	165	360	.650"	1.020"	10708	10701	1.305"	0.950"	0.690"	2	R	2.300"	375
4207X-16^D	1.800"	155	385	.700"	1.000"	10708	10701	1.304"	0.950"	0.680"	2	R	2.300"	430
4209X-16^D	1.800"	160	415	.750"	1.000"	10708	10701	1.324"	0.950"	0.689"	2	R	2.330"	495
1335-16^D	1.800"	250	860 @.750"	.800"	0.985"	TR432-16	10701-16	1.300"	0.900"	0.616"	2	R	2.250"	813
NISSAN RB30														
5840-12^D	1.570"	95	270	.660"	0.860"	Standard	Standard	1.330"	0.990"	0.770"	2	R	1.930"	345
5833-12^D	1.570"	105	270	.600"	0.900"	Standard	Standard	1.330"	0.990"	0.760"	2	R	2.160"	330
5835-12^D	1.570"	110	280	.570"	0.950"	Standard	Standard	1.330"	0.971"	0.720"	2	R	1.920"	335
5838-12^D	1.600"	135	335	.570"	0.950"	Standard	Standard	1.330"	0.980"	0.690"	2	R	1.930"	395
MITSUBISHI SIGMA														
5840-8^D	1.560"	100	275	.660"	0.860"	Standard	Standard	1.330"	0.990"	0.770"	2	R	1.930"	345
TOYOTA 1FZ-FE														
4163-12	1.487"	105	235	.462"	0.975"	10715	Std	1.160"	0.835"		1	R	1.980"	260