

VALVE SPRINGS



Harmonics or high frequency fatigue is present in all racing engines and will usually destroy the valvetrain if not controlled. Properly designed valve springs will control the dominant harmonics, provide the needed stability, and reduce valvetrain component wear.

Ferrea valve springs are developed from high strength alloys, including premium grade chrome silicon steel. These springs are manufactured with state-of-the-art equipment. Our springs are heat-treated and stress-relieved, which dramatically increases the spring's life. Strict quality control procedures and cycle testing ensures consistency from batch to batch. Ferrea valve springs provide the stability needed for high lift, high rpm racing engines, while minimizing the

load loss for today's aggressive valvetrain combinations.

We expanded our **Springs** offering to include many new designs and applications. Our goal is to provide the best possible valve-train combinations for all racing environments from circle track, drag racing, motorcycle racing and offshore marine racing.

Part N°	Type/Material/ Application	O.D.	I.D.	Seat Press.	Open Press.	Rate Inch	Coil Bind	Max Net Lift
DIAMETERS 1.650" TO 1.600"								
S10000	Triple Spring Pacalloy Roller	.885 1.200 1.650	.645 .885 1.200	330 lbs @2.100"	950 lbs @1.200"	680 lbs	1.140"	.900"
S10001	Triple Spring Pacalloy Roller	.885 1.200 1.650	.640 .885 1.200	320 lbs @2.025"	865 lbs @1.225"	680 lbs	1.140"	.850"
S10002	Triple Spring Pacalloy Roller	.885 1.200 1.650	.640 .885 1.200	285 lbs @2.000"	790 lbs @1.250"	680 lbs	1.140"	.800"
S10003	Dual w/Damper H11 Tool Steel Roller	1.080 1.625	.767 1.189	250 lbs @1.950"	675 lbs @1.200"	570 lbs	1.150"	.750"
S10004	Dual w/Damper Chrome Silicon Roller	1.065 1.625	.770 1.175	230 lbs @2.000"	600 lbs @1.300"	550 lbs	1.200"	.700"
S11004	Dual w/Damper Special Alloy Roller	1.065 1.625	.770 1.175	250 lbs @2.020"	675 lbs @1.270"	550 lbs	1.180"	.750"
S10023	Dual w/Damper Special Alloy	1.065 1.625	.770 1.175	240 lbs @2.000"	685 lbs @1.250"	550 lbs	1.150"	.750"
S10005	Dual w/Damper Vasco Jet. Roller	1.064 1.624	.760 1.164	210 lbs @1.900"	695 lbs @1.200"	675 lbs	1.050"	.700"
S10076	Dual Spring - Special Alloy Endurance Spring	1.160 1.610	.835 1.160	262 lbs @2.000"	640 lbs @1.300"	540 lbs	1.220"	.750"
This Spring requires Ferrea Titanium Retainer # E11047LW. Maximum Retainer Step: .100"								

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DIAMETERS 1.570" TO 1.225"								
S10022	Dual w/Damper Vasco Jet. Roller	1.025 1.570	.740 1.135	230 lbs @ 1.950"	620 lbs @ 1.225"	540 lbs	1.175"	.720"
S10030	Dual w/Damper Special Alloy	1.025 1.570	.570 1.135	250 lbs @ 1.900"	650 lbs @ 1.200"	600 lbs	1.125"	.660"
S11016	Dual 1.153 Special Alloy Roller	.820 1.560	245 lbs 1.155	590 lbs @ 1.950"	490 lbs @ 1.250"	1.150"	.700"	
S10015	Dual w/Damper Special Alloy Endurance Roller	1.040 1.560	.740 1.145	240 lbs @ 2.000"	600 lbs @ 1.280"	500 lbs	1.180"	.720"
S11011	Dual w/Damper Special Alloy Roller	1.040 1.560	.740 1.145	245 lbs @ 1.970"	585 lbs @ 1.290"	480 lbs	1.190"	.680"
S11012	Dual w/Damper Special Alloy Roller	1.040 1.560	.740 1.145	245 lbs @ 1.950"	585 lbs @ 1.270"	470 lbs	1.170"	.680"
S11014	Dual w/Damper Special Alloy W Cup Flat Tapped	1.040 1.560	.740 1.145	195 lbs @ 1.975"	540 lbs @ 1.275"	500 lbs	1.175"	.700"
S11015	Dual w/Damper Special Alloy Roller	1.040 1.560	.740 1.145	245 lbs @ 2.000"	600 lbs @ 1.300"	500 lbs	1.200"	.700"
S10021	Dual Pacalloy Roller	1.135 1.550	.815 1.135	235 lbs @ 1.950"	635 lbs @ 1.200"	530 lbs	1.150"	.720"
S10014	Dual w/Damper Chrome Silicon Roller	1.025 1.550	.740 1.135	210 lbs @ 1.900"	520 lbs @ 1.240"	480 lbs	1.130"	.660"
S10011	Dual w/Damper Chrome Silicon Roller	1.025 1.550	.740 1.135	165 lbs @ 1.950"	465 lbs @ 1.300"	470 lbs	1.150"	.650"
S10012	Dual w/Damper Chrome Silicon Roller	1.025 1.550	.740 1.135	215 lbs @ 1.950"	550 lbs @ 1.270"	460 lbs	1.170"	.680"
S10010	Dual w/Damper Chrome Silicon Roller or Flat	1.040 1.550	.755 1.130	170 lbs @ 1.950"	463 lbs @ 1.275"	435 lbs	1.175"	.675"
S10009	Dual w/Damper Chrome Silicon Hydraulic & Solid	1.005 1.530	.730 1.110	135 lbs @ 1.875"	395 lbs @ 1.225"	400 lbs	1.160"	.650"
S10025	Dual w/Damper Chrome Silicon Flat & Hydraulic	1.005 1.530	.730 1.110	140 lbs @ 1.900"	430 lbs @ 1.250"	440 lbs	1.170"	.650"
S10008	Dual w/Damper Chrome Silicon Flat or Hydraulic	1.005 1.430	.725 1.070	170 lbs @ 1.830"	368 lbs @ 1.210"	320 lbs	1.110"	.620"
S10006	Dual w/Damper Chrome Silicon Hydraulic & Solid	1.005 1.430	.730 1.070	135 lbs @ 1.750"	285 lbs @ 1.200"	275 lbs	1.120"	.550"
S10007	Dual Spring Chrome Silicon Flat or Hydraulic	.925 1.240	.660 .915	130 lbs @ 1.690"	306 lbs @ 1.090"	320 lbs	1.020"	.550"

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CHEVROLET SMALL BLOCK - LS1								
S10042	Outer w/Damper Special Alloy	1.260	.886	130 lbs @ 1.750"	320 lbs @ 1.200"	350 lbs	1.150"	.550"
This Spring requires Ferrea Titanium Retainer # E11020 and Ferrea Spring Seat Locator # SL1030								
S10048	Outer w/Damper Super Alloy	1.260	.880	130 lbs @ 1.750"	370 lbs @ 1.200"	436 lbs	1.040"	.660"
This Spring requires Ferrea Titanium Retainer # E11020 and Ferrea Spring Seat Locator # SL1030								
S10061	Outer w/Damper. Super Alloy Endurance Application	1.270	.890	155 lbs @ 1.750"	420 lbs @ 1.100"	408 lbs	1.060"	.660"
This Spring requires Ferrea Titanium Retainer # E11020 and Ferrea Spring Seat Locator # SL1030								
S99100	Dual Spring. Pro PAC Alloy Endurance Application	.925 1.275	.650 .925	150 lbs @ 1.800"	475 lbs @ 1.100"	464 lbs	1.030"	.700"
This Spring requires Ferrea Titanium Retainer # E12000 and Ferrea Spring Seat Locator # SL1036								
CHEVROLET SMALL BLOCK - LS1/LS7 (5/16 CONVERSION KIT)								
S99101	Dual Spring. Pro PAC Alloy Endurance Application	.925 1.275	.650 .925	150 lbs @ 1.800"	475 lbs @ 1.100"	464 lbs	1.030"	.700"
This Spring requires Ferrea Titanium Retainer #E12001 and Ferrea Spring Seat Locator #SL1036 AND Ferrea Valve Guide #VG1061 (For 5/16 stem diameter valves).								
CHEVROLET SMALL BLOCK - L92								
S99102	Dual Spring. Pro PAC Alloy Endurance Application	.925 1.275	.650 .925	150 lbs @ 1.750"	425 lbs @ 1.150"	458 lbs	1.030"	.700"
This Spring requires Ferrea Titanium Retainer # E12002 and Ferrea Spring Seat Locator # SL1071 AND Ferrea Valve Guide (EXH #VG 1067) and (INT #VG1066)								
	Dual Spring. Pro PAC Alloy Racing Application	.925 1.275	.650 .925	175 lbs @ 1.750"	465 lbs @ 1.150"	483 lbs	1.030"	.700"
This Spring requires Ferrea Titanium Retainer #E12002 and Ferrea Spring Seat Locator #SL1072 AND Ferrea Valve Guide (EXH #VG 1067) and (INT #VG1066)								
FORD 4.6L/5.7L - SOHC V8 - 24 VALVE - 2005-2007								
S10102	Dual Spring-Special Alloy Street/Strip Applications	.819 1.102	.625 .819	95 lbs @ 1.575"	267 lbs @ 1.075"	334 lbs	1.023"	.500"
This Spring requires Ferrea Titanium Retainer #E11069 and BOTH, Ferrea Spring Seat Locator #SL1055 and Factory supplied Spring Seat Locator								

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COMPATIBLE W/STOCK RETAINERS - HYDRAULIC & SOLID LIFTER APPLICATIONS

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Part N°	Type/Material/ Application	O.D.	I.D.	Seat Press.	Open Press.	Rate Inch	Coil Bind	Max Net Lift
AMC V-8 360-390-401 CHEVROLET V-8 BIG BLOCK CHRYSLER V-8 383-440 FORD BOSS 302-351 FORD V-8 360-390-429-460								
S10020	Outer w/Damper Chrome Silicon	1.540	1.115	110 lbs @1.875"	300 lbs @1.350"	360 lbs	1.130"	.525"
CHEVROLET V-8 BIG BLOCK								
S10018	Outer w/Damper Chrome Silicon	1.530	1.110	120 lbs @1.875"	290 lbs @1.350"	330 lbs	1.120"	.525"
CHEVROLET V-6 & V-8 SMALL BLOCK BUICK V-6 LATE MODEL								
S10017	Outer w/Damper Chrome Silicon	1.260	.860	115 lbs @1.700"	268 lbs @1.210"	310 lbs	1.160"	.490"
S10024	Outer w/Damper Chrome Silicon	1.260	.886	130 lbs @1.750"	320 lbs @1.200"	350 lbs	1.150"	.550"
FORD WINDSOR V-8 302-351 MOPAR V-8 340-360								
S10019	Outer w/Damper Chrome Silicon	1.490	1.076	130 lbs @1.700"	320 lbs @1.200"	370 lbs	1.100"	.500"



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