

# MOTORCYCLE VALVE SPRINGS



We expanded our **Springs** offering to include Harley Davidson engines, providing the best possible **valve-train** combination for motorcycle racing.

**Ferrea's** motorcycle valve springs are made of premium grade chrome-silicon alloys. They are heat-treated and stress-relieved to increase the spring's life. Strict quality control procedures and cycle testing ensure consistency from batch to batch.

Part N°	Type/Material/ Application	O.D.	I.D.	Seat Press.	Open Press.	Rate Inch	Coil Bind	Max Net Lift
<b>BUELL XB9 (2002 - 2003)</b>								
S10065	Outer w/Damper Special Alloy Hi-Performance Spring	1.490	1.076	130 lbs @1.700	325 lbs @1.200	390 lbs	1.020	.650
This Spring requires Ferrea Titanium Retainer # E11040 and Factory supplied Spring Seat Locator								
<b>HARLEY DAVIDSON - EVOLUTION (1984-1998)</b>								
S10052	Dual w/Damper - Chro Silicon Hydraulic & Solid	1.005 1.530	.730 1.110	135 lbs @1.875	395 lbs 1.225	400 lbs	1.160	.650
This Spring requires Ferrea Titanium Retainer #E11029 and Ferrea Spring Seat Locator #SL1024 (Discard OEM Spring Seat Locator)								
S10053	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	.700
This Spring requires Ferrea Titanium Retainer #E11028 and Ferrea Spring Seat Locator #SL1024 (Discard OEM Spring Seat Locator)								
S10054	Dual w/Damper Chrome Silicon-Roller	1.005 1.440	.725 1.065	175 lbs @1.810	350 lbs 1.260	320 lbs	1.160	.600
This Spring requires Ferrea Titanium Retainer #E11027 and Ferrea Spring Seat Locator #SL1024 (Discard OEM Spring Seat Locator)								
<b>HARLEY DAVIDSON - VRSKA V ROD (2002-2003)</b>								
S10096	Dual Spring Special Alloy	.819 1.103	.625 .819	80 lbs @1.338	205 lbs @.945	317 lbs	.790	.550
This Spring requires Ferrea Titanium Retainer # E11041 and Factory supplied Spring Seat Locator								
<b>HONDA CRF 250R (2004-2007) - MOTOCROSS -</b>								
S10105	Single Spring - Special Alloy Endurance Application (EXHAUST - 2 pieces)	18.10 mm	11.50 mm	50 lbs @39.8mm	165 lbs @29.8mm	292 lbs	27.5 mm	10 mm
This spring requires Ferrea Titanium Retainers #E11071 (EXH) and Ferrea Spring Seat Locators #SL1058 (EXH) Spring pressures are measured with Ferrea Spring Seat Locator #SL1058 (EXH). (Discard OEM Spring Seat Locator)								
S10106	Single Spring - Special Alloy Endurance Application (INTAKE - 2 pieces)	18.50 mm	13.0 mm	40 lbs @35.13mm	95 lbs @25.13mm	139 lbs	23 mm	10 mm
This spring requires Ferrea Titanium Retainers #E11072 (INT) and Ferrea Spring Seat Locators #SL1059 (INT) Spring pressures are measured with Ferrea Spring Seat Locator #SL1059 (INT). (Discard OEM Spring Seat Locator)								
TECH NOTE: Ferrea Pro Springs are designed with progressive wound coils. Assemble <i>stacked coils</i> end of spring at the <i>bottom</i> , on top of spring seat locator.								
<b>HONDA CRF 250R (2008) - MOTOCROSS -</b>								
S10105	Single Spring - Special Alloy Endurance Application (EXHAUST - 2 pieces)	18.10 mm	11.50 mm	50 lbs @39.8mm	165 lbs @29.8mm	292 lbs	27.5 mm	10 mm
This spring requires Ferrea Titanium Retainers #E11086 (EXH) and Ferrea Spring Seat Locators #SL1058 (EXH) Spring pressures are measured with Ferrea Spring Seat Locator #SL1058 (EXH). (Discard OEM Spring Seat Locator)								

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Part N°	Type/Material/ Application	O.D.	I.D.	Seat Press.	Open Press.	Rate Inch	Coil Bind	Max Net Lift
<b>HONDA CRF 250R (2008) - MOTOCROSS -</b>								
<b>S10106</b>	Single Spring - Special Alloy Endurance Application (INTAKE - 2 pieces)	18.50 mm	13.0 mm	43 lbs @34.63mm	98 lbs @24.63mm	139 lbs	23 mm	9.5 mm
<p>This spring requires Ferrea Titanium Retainers #E11072 (INT) and Ferrea Spring Seat Locators #SL1059 (INT) Spring pressures are measured with Ferrea Spring Seat Locator #SL1059 (INT). (Discard OEM Spring Seat Locator) TECH NOTE: Ferrea Pro Springs are designed with progressive wound coils. Assemble <i>stacked coils</i> end of spring at the <i>bottom</i>, on top of spring seat locator.</p>								
<b>HONDA CRF 450 (2002-2006) - MOTOCROSS -</b>								
<b>S10085</b>	Single Spring Special Alloy Endurance Application	21.50 mm	15.10 mm	75 lbs @37 mm	155 lbs @ 27 mm	203 lbs	25 mm	10 mm
<p>This Spring requires Ferrea Titanium Retainers #E11054 (EXH) and #E11055 (INT) and Ferrea Spring Seat Locators #SL1043 (EXH) and #SL1042 (INT) Spring pressures are measured with Ferrea Spring Seat Locator # SL1043 (EXH) (Discard OEM Spring Seat Locator)</p>								
<b>HONDA TRX 450 (2002-2004)</b>								
<b>S10117</b>	Single Spring Special Alloy Endurance Application	21.50 mm	15.10 mm	75 lbs @37 mm	155 lbs @ 27 mm	203 lbs	25 mm	10 mm
<p>This Spring requires Ferrea Titanium Retainers #E11078 (EXH) and #E11055 (INT) and Ferrea Spring Seat Locators #SL1043 (EXH) and #SL1042 (INT) (Discard OEM Spring Seat Locator) Spring pressures are measured with Ferrea Spring Seat Locator # SL1043 (EXH)</p>								
<b>PRO STOCK MOTORCYCLE</b>								
<b>S10063</b>	Dual Spring Special Alloy Maximum Retainer step .075	.890 1.215	.650 .890	150 lbs @1.400	450 lbs @.750	462 lbs	.710	.650
<b>YAMAHA 700R - GRIZZLY / RAPTOR / RHINO (2006-2009) - 4 VALVES ENGINE -</b>								
<b>S10116</b>	Dual Spring Special Alloy Endurance Application	18.82 mm 25.19 mm	13.84 mm 18.82 mm	55 lbs @37 mm	155 lbs @27 mm	253 lbs	21 mm	14.5 mm
<p>This Spring requires Ferrea Titanium Retainers #E11085 and Ferrea Spring Seat Locators #SL1093 (Discard OEM Spring Seat Locator) TECH NOTE: To properly install Spring Seat Locator you must first remove the Valve Stem Seal.</p>								



These racing Quads tuned and built by Racers Edge ATV, utilize complete Ferrea Racing Valve-train.