



Valve Spring Specifications - 6/24/19

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All springs that come standard with AFR Cylinder Heads are made of high quality spring wire and are sufficient for most general applications when following the below recommendations. Keep in mind that forced induction, Nitrous, high RPM, and even modest RPM with aggressively designed (faster) cam lobes require additional spring pressure and higher quality spring wire. AFR offers various upgrades over standard valve springs; if you're questioning the spring requirement for your particular application, we advise you contact AFR directly. It is always better to run a higher quality spring than you need, resulting in greater spring life, and more importantly, a higher level of reliability while doing so.

Valve spring pressures may vary plus or minus 5%. It is the customer's responsibility to verify springs are correct for their application. Failure to do so could result in engine damage

Part #, Application, & Markings	Size (in)	Installed & Open Load (lbs/in)	Material, Manufacturer & Spring Type	Coil Bind (in)	Rate (lbs/ in)	Gross Max Lift General Guideline	Max RPM General Guideline
AFR-8000 Solid Roller Orange Stripe	1.550 OD .800 ID	220 lbs. @ 1.950 603 lbs. @ 1.240	PAC Racing, Chrome Silicon, Dual Spring Max Duration - SB 260° & BB 250°	1.155	540	.710 .680 for valves larger than 2.165	7200-7400
AFR-8001* Solid Roller Yellow Stripe	1.550 OD .788 ID	250 lbs. @ 2.000 762 lbs. @ 1.200	Pacaloy PAC Racing Springs #1225 Dual Spring	1.150	640	.800	8000-8200
AFR-8002 Hydraulic Roller Green Stripe	1.550 OD .755 ID	175 lbs. @ 2.000 505 lbs. @ 1.275	Pacaloy Pac Racing Springs #1940 Dual Spring with Damper	1.110	455	.725	6500-6700
AFR-8014* Solid Roller No Stripe	1.645 OD .871 ID .633 ID	350 lbs. @ 2.150 1000 lbs. @ 1.200	Pacaloy PAC Racing Springs #1258 Triple Spring	1.130	688	.950	8300-8500
AFR-8016 Solid Flat Tappet No Stripe	1.540 OD .754 ID	135 lbs. @ 1.930 400 lbs. @ 1.300	Pacaloy PAC Racing Springs #1924 Dual Spring with Damper	1.125	431	.600	Solid Tappet 7200-7400 Hyd Roller 6300-6500
AFR-8017 Hydraulic Roller No Stripe	1.290 OD .685 ID	140 lbs. @ 1.810 356 lbs. @ 1.210	PAC Racing, Chrome Silicon, Dual Spring Max Duration - Small Block 236°	1.000	360	.600	6300-6500
AFR-8019* Hydraulic Roller Red or Pink Stripe	1.270 OD .645 ID	155 lbs. @ 1.810 448 lbs. @ 1.160	Premium Grade Chrome Silicon PAC Racing Springs Dual Spring	1.080	450	.650	7000-7200
AFR-8020 Hydraulic Flat Tappet Inner Blue	1.437 OD .720 ID	125 lbs. @ 1.800 304 lbs. @ 1.250	Chrome Silicon Pioneer Springs Dual Spring with Damper	1.090	320	.550	6100-6300
AFR-8022* Solid Roller Green Stripe	1.640 OD .860 ID	320 lbs. @ 2.040 862 lbs. @ 1.200	Premium Grade Chrome Silicon Manley Nextek #221425-16 Dual Spring	1.150	645	.840	8200-8400
AFR-8023* Solid Roller White Stripe	1.580 OD .830 ID	235 lbs. @ 1.950 625 lbs. @ 1.220	Erson, Special Steel Alloy Endurance Dual Spring #E915043	1.170	536	.730	7200-7400
AFR-8031 Solid Roller No Stripe	1.625 OD .851 ID	275 lbs. @ 2.000 810 lbs. @ 1.150	Pacaloy PAC Racing Springs #1224 Dual Spring	1.100	629	.850	7400-7600

*Titanium Retainers Recommended

IMPORTANT: Break in cam per cam manufacturers specifications. This can be critical for solid flat tappet and hydraulic flat tappet cams.