



2.5" I.D. COILOVER RACE SPRINGS (7.5" FREE HEIGHT)

Part Number	Rate (lb/in)	Spring Travel (in)	Solid Load(lb)	Spring Mass (lb)	Retail Price
0200.250.0750	200	5.31	1061	1.52	\$80.00
0225.250.0750	225	5.24	1179	1.60	\$80.00
0250.250.0750	250	5.18	1295	1.69	\$80.00
0275.250.0750	275	4.98	1370	1.97	\$80.00
0300.250.0750	300	4.92	1475	2.08	\$80.00
0325.250.0750	325	4.84	1574	2.20	\$80.00
0350.250.0750	350	4.76	1664	2.33	\$80.00
0375.250.0750	375	4.80	1799	2.27	\$80.00
0400.250.0750	400	4.74	1894	2.40	\$80.00
0425.250.0750	425	4.63	1969	2.55	\$80.00
0450.250.0750	450	4.52	2035	2.71	\$80.00
0475.250.0750	475	4.45	2115	2.87	\$80.00
0500.250.0750	500	4.48	2241	2.80	\$80.00
0525.250.0750	525	4.40	2311	2.97	\$80.00
0550.250.0750	550	4.32	2377	3.14	\$80.00
0575.250.0750	575	4.38	2519	3.06	\$80.00
0600.250.0750	600	4.25	2549	3.26	\$80.00
0625.250.0750	625	4.30	2687	3.19	\$80.00
0650.250.0750	650	4.21	2735	3.38	\$80.00
0700.250.0750	700	4.16	2910	3.51	\$80.00
0750.250.0750	750	4.10	3075	3.65	\$80.00
0800.250.0750	800	4.03	3228	3.80	\$80.00

2.5" I.D. COILOVER RACE SPRINGS (9" FREE HEIGHT)

Part Number	Rate (lb/in)	Spring Travel (in)	Solid Load(lb)	Spring Mass (lb)	Retail Price
0090.250.0900	90	7.01	631	1.13	\$80.00
0100.250.0900	100	6.92	692	1.22	\$80.00
0115.250.0900	115	6.81	784	1.31	\$80.00
0130.250.0900	130	6.76	879	1.39	\$80.00
0150.250.0900	150	6.55	983	1.64	\$80.00
0165.250.0900	165	6.44	1063	1.76	\$80.00
0180.250.0900	180	6.36	1146	1.87	\$80.00
0200.250.0900	200	6.29	1258	1.98	\$80.00
0225.250.0900	225	6.06	1364	2.29	\$80.00
0250.250.0900	250	6.03	1508	2.38	\$80.00
0275.250.0900	275	5.93	1630	2.51	\$80.00
0300.250.0900	300	5.86	1759	2.63	\$80.00
0325.250.0900	325	5.77	1874	2.79	\$80.00
0350.250.0900	350	5.67	1986	2.94	\$80.00
0375.250.0900	375	5.58	2092	3.10	\$80.00
0400.250.0900	400	5.47	2188	3.28	\$80.00
0425.250.0900	425	5.38	2287	3.45	\$80.00
0450.250.0900	450	5.39	2425	3.35	\$80.00
0475.250.0900	475	5.34	2534	3.55	\$80.00
0500.250.0900	500	5.26	2631	3.73	\$80.00
0525.250.0900	525	5.20	2732	3.90	\$80.00
0550.250.0900	550	5.20	2863	3.85	\$80.00
0575.250.0900	575	5.12	2942	4.06	\$80.00
0600.250.0900	600	4.99	2996	4.28	\$80.00
0650.250.0900	650	4.96	3226	4.41	\$80.00
0700.250.0900	700	4.89	3426	4.58	\$80.00
0750.250.0900	750	4.78	3584	4.78	\$80.00
0800.250.0900	800	4.72	3772	4.96	\$80.00
0850.250.0900	850	4.64	3946	5.14	\$80.00

2.5" I.D. COILOVER RACE SPRINGS (11" FREE HEIGHT)

Part Number	Rate (lb/in)	Spring Travel (in)	Solid Load(lb)	Spring Mass (lb)	Retail Price
0125.250.1100	125	8.12	1016	1.90	\$80.00
0135.250.1100	135	7.98	1077	2.06	\$80.00
0150.250.1100	150	7.91	1188	2.17	\$80.00
0165.250.1100	165	7.82	1290	2.30	\$80.00
0175.250.1100	175	7.67	1341	2.49	\$80.00
0185.250.1100	185	7.56	1399	2.66	\$80.00
0200.250.1100	200	7.45	1490	2.83	\$80.00
0225.250.1100	225	7.37	1659	2.95	\$80.00
0250.250.1100	250	7.27	1818	3.10	\$80.00
0275.250.1100	275	7.05	1939	3.50	\$80.00
0300.250.1100	300	6.93	2067	3.67	\$80.00
0325.250.1100	325	6.90	2243	3.82	\$80.00
0350.250.1100	350	6.74	2359	4.03	\$80.00
0375.250.1100	375	6.64	2491	4.23	\$80.00
0400.250.1100	400	6.53	2610	4.44	\$80.00
0425.250.1100	425	6.48	2753	4.63	\$80.00
0450.250.1100	450	6.34	2854	4.87	\$80.00
0475.250.1100	475	6.23	2961	5.10	\$80.00
0500.250.1100	500	6.26	3130	5.01	\$80.00
0525.250.1100	525	6.18	3244	5.24	\$80.00
0550.250.1100	550	6.05	3326	5.50	\$80.00
0575.250.1100	575	5.96	3427	5.75	\$80.00
0600.250.1100	600	5.95	3571	5.69	\$80.00
0650.250.1100	650	5.78	3759	6.20	\$80.00
0700.250.1100	700	5.73	4011	6.40	\$80.00
0750.250.1100	750	5.61	4205	6.63	\$80.00
0800.250.1100	800	5.55	4442	6.84	\$80.00

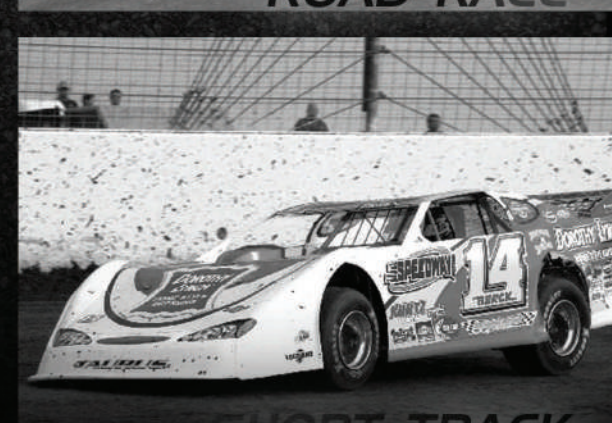
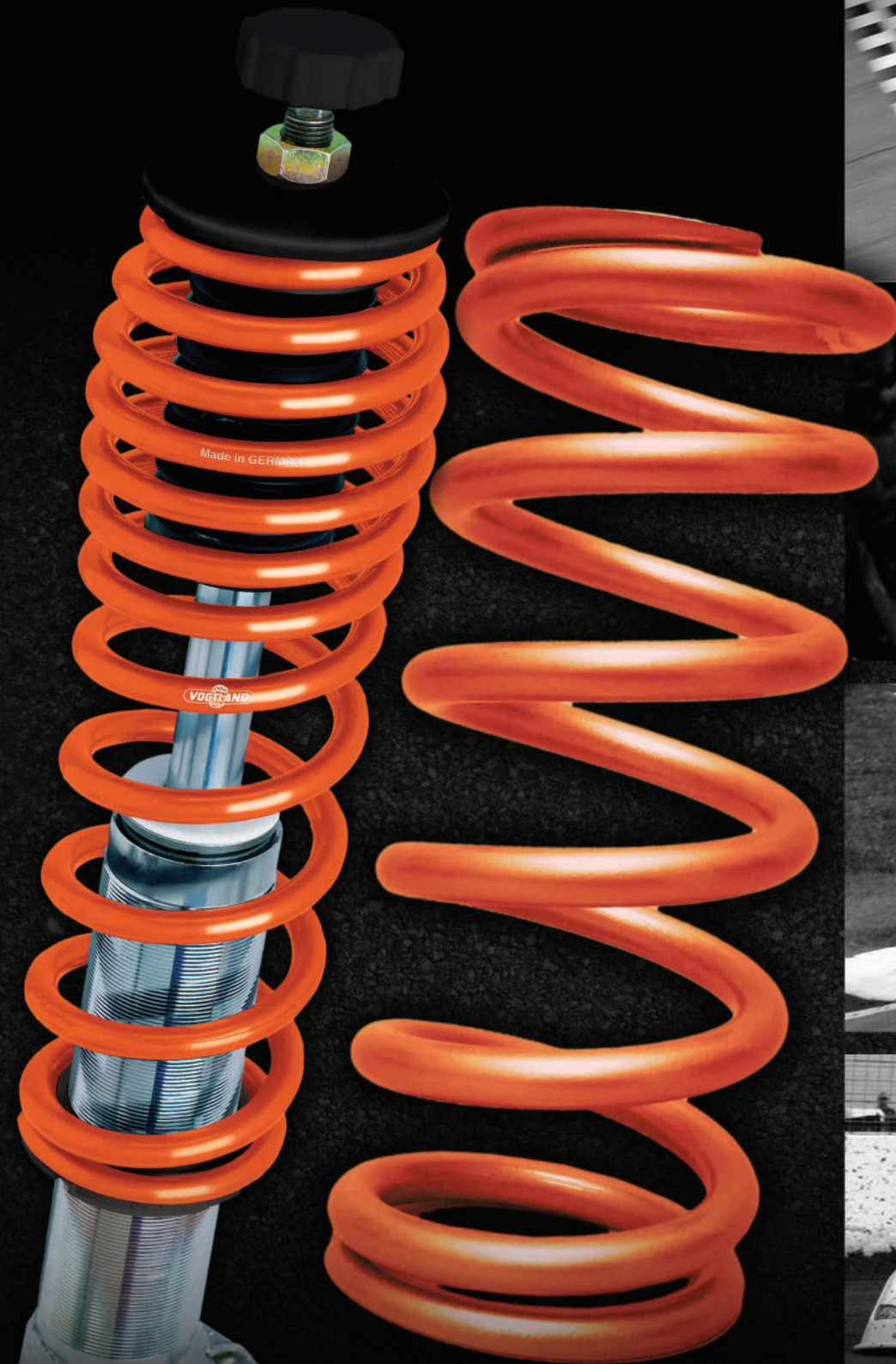
2.5" I.D. COILOVER RACE SPRINGS (14" FREE HEIGHT)

Part Number	Rate (lb/in)	Spring Travel (in)	Solid Load(lb)	Spring Mass (lb)	Retail Price
0085.250.1400	85	10.50	893	2.22	\$80.00
0095.250.1400	95	10.42	990	2.34	\$80.00
0105.250.1400	105	10.31	1088	2.50	\$80.00
0115.250.1400	115	10.18	1171	2.66	\$80.00
0125.250.1400	125	10.04	1255	2.84	\$80.00
0135.250.1400	135	9.87	1333	3.05	\$80.00
0150.250.1400	150	9.75	1464	3.21	\$80.00
0165.250.1400	165	9.66	1595	3.37	\$80.00
0175.250.1400	175	9.45	1654	3.63	\$80.00
0185.250.1400	185	9.29	1718	3.89	\$80.00
0200.250.1400	200	9.13	1835	4.10	\$80.00
0225.250.1400	225	8.88	1997	4.60	\$80.00
0250.250.1400	250	8.81	2203	4.74	\$80.00
0275.250.1400	275	8.70	2393	4.94	\$80.00
0300.250.1400	300	8.40	2521	5.55	\$80.00
0325.250.1400	325	8.34	2712	5.73	\$80.00
0350.250.1400	350	8.16	2857	6.01	\$80.00
0375.250.1400	375	8.07	3025	6.25	\$80.00
0400.250.1400	400	7.95	3179	6.52	\$80.00
0425.250.1400	425	7.82	3325	6.80	\$80.00
0450.250.1400	450	7.68	3454	7.10	\$80.00
0475.250.1400	475	7.63	3625	7.34	\$80.00
0500.250.1400	500	7.47	3737	7.69	\$80.00
0525.250.1400	525	7.46	4102	7.83	\$80.00
0550.250.1400	550	7.18	4311	8.53	\$80.00
0600.250.1400	600	7.05	4583	8.84	\$80.00
0700.250.1400	700	7.08	4959	8.98	\$80.00

Note:
The deflection to solid height and solid load as measured on a sample spring on a Instron SF1230. These values may vary due to manufacturing tolerances.

The rate testing procedure:
Preload the spring 1 inch and deflect the spring 2 inches in 1 inch increments. Depending on the spring free length Vogtland can ensure that the spring rate will be linear within 2% of the nominal rate between 25% and 75% of the springs total travel.

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VOGTLAND®

RACE SPRING CATALOG

“THE TRUTH IS IN THE PERFORMANCE”

VOGTLAND IS AN INTERNATIONAL SPRING MANUFACTURER COMPRISED OF THREE OPERATING UNITS. THE SUSPENSION TECHNOLOGY AND INDUSTRIAL MANUFACTURING UNITS AND COMPANY HEADQUARTERS ARE LOCATED IN HAGEN GERMANY. OUR THIRD DIVISION VOGTLAND NORTH AMERICA, INC. IS LOCATED IN TEMECULA CALIFORNIA, WHICH SUPPORTS THE NORTH AND SOUTH AMERICAN MARKETS.

AT VOGTLAND, WE HAVE INTEGRATED 9 DECADES OF OUR LONG STANDING TRADITION OF SPRING MAKING WITH THE MOST CURRENT SPRING MAKING TECHNOLOGIES. OUR DIVERSE MANUFACTURING CAPABILITIES, PRODUCTION LINES AND EFFICIENCIES ALLOW US TO PRODUCE BOTH LOW AND HIGH VOLUME PRODUCTS FOR OUR CUSTOMERS. THE UNIQUE MANUFACTURING CELLS PERMIT VOGTLAND TO QUICKLY RESPOND TO OUR CUSTOMERS NEEDS AND MEET THEIR STRINGENT DEADLINES.

QUALITY IS AN INTEGRAL PART OF VOGTLAND'S CULTURE, WE ARE CERTIFIED TO DIN EN ISO 9001 STANDARDS WHICH ARE SUPPORTED INTERNALLY BY ENGINEERING, TESTING CAPABILITIES, AND TRAINING PROGRAMS TO MAINTAIN THE HIGHEST QUALITY ASSURANCE STANDARDS. OUR FOCUS ON THESE ASPECTS OF OUR BUSINESS HAS MADE VOGTLAND A RESPECTED AND INTEGRAL PART OF THE GLOBAL SPRING MAKING COMMUNITY.

VOGTLAND “VVS” ALLOY “CONVENTIONAL & COILOVER” RACING SPRINGS

VOGTLAND “VVS” ALLOY RACING SPRINGS ARE MANUFACTURED AT OUR FACILITIES WITH OUR EXCLUSIVE “VVS” SPRING ALLOY. THE “VVS” ALLOY PERMITS OUR ENGINEERS TO DESIGN THE LIGHTEST POSSIBLE SPRINGS TO HELP REDUCE UNSPRUNG WEIGHT FOR IMPROVED HANDLING AND PERFORMANCE. VOGTLAND “VVS” ALLOY RACING SPRINGS PROVIDE MORE TRAVEL AND ARE UP TO 35% LIGHTER THAN CONVENTIONAL CHROME SILICON (CRSI) ALLOY SUSPENSION SPRINGS. THE “CONVENTIONAL” AND “COIL-OVER” SPRINGS ARE DESIGNED WITH A WIRE SIZE WHICH IS OPTIMIZED FOR THAT PARTICULAR DESIGN. WHEN SPRING PACKAGING IS AN ISSUE VOGTLAND PERFORMS LIKE NO OTHER, PERMITTING OUR SPRINGS TO TRAVEL FURTHER THAN THE COMPETITION.

IMPLEMENTING THE MOST CURRENT WAFIOS SPRING COILING TECHNOLOGIES AND OUR PROPRIETARY POST COILING PROCESSES ENSURES THAT YOU RECEIVE A SPRING THAT MEETS THE MOST CURRENT RULES AND REGULATIONS FOR LINEAR SPRING RATE CHARACTERISTICS. OUR POST COILING PROCESS INCLUDES TEMPERING, SHOTPEENING, AND A MULTI-STAGE PRESETTING PROCESS. FINALLY THE SPRINGS ARE ZINC PHOSPHATED AND POWDER COATED TO PROVIDE A SUPERIOR CORROSION BARRIER.

“VVS” ALLOY RACING SPRINGS ARE TESTED TO PERFORM UNDER THE MOST DIFFICULT MOTORSPORT ENVIRONMENTS. VOGTLAND UTILIZES THE MOST CURRENT GENERATION INSTRON SPRING TESTING EQUIPMENT SO YOU CAN BE ASSURED THAT THE SPRING RATE IS WITHIN 2% OF NOMINAL. WE ALSO IMPLEMENT RIGOROUS DYNAMIC TESTING STANDARDS TO GUARANTEE OUR RACING SPRINGS DO NOT LOSE LOAD CAPACITY TO ENSURE YOUR SETUP BEFORE AND AFTER THE RACE. WHEN OPERATING NEAR SOLID HEIGHT OVER THE COURSE OF A RACE, VOGTLAND “VVS” ALLOY SUSPENSION SPRINGS WILL NOT LET YOU DOWN.

FROM SPEEDWAYS TO SHORT TRACKS, VOGTLAND RACING SPRINGS ARE AVAILABLE IN A RANGE OF SIZES TO MEET YOUR “CONVENTIONAL” AND “COIL-OVER” SPRING REQUIREMENTS. VOGTLAND “VVS” ALLOY RACING SPRINGS PROVIDE MORE TRAVEL AND UP TO 35% LESS WEIGHT FOR A WINNING COMBINATION. SHOULD'N'T YOU RELY ON VOGTLAND?

TECHNICALLY SPEAKING

VOGTLAND “VVS” ALLOY RACING SPRINGS ARE MANUFACTURED SO THAT EACH SPRING IS OPTIMIZED TO PROVIDE THE MOST TRAVEL FOR A GIVEN SPRING PACKAGE RESULTING IN A SIGNIFICANT WEIGHT REDUCTION. THE WEIGHT REDUCTION IS ACHIEVED BY REDUCING THE WIRE SIZE BECAUSE WE CAN STRESS THE “VVS” ALLOY SIGNIFICANTLY HIGHER THAN A TYPICAL CHROME SILICON (CRSI) MATERIAL. TO ACHIEVE THE SAME SPRING RATE THE TOTAL COIL COUNT IS REDUCED AND FINALLY THE FREE HEIGHT CAN BE REDUCED TO MAINTAIN THE SAME TRAVEL.

EXAMPLE A VOGTLAND “VVS” ALLOY SPRING 11” FREE HEIGHT:

PART NUMBER	RATE (LB/IN)	SPRING TRAVEL (IN)	SOLID LOAD (LBF)	SPRING MASS (LB)
0250.250.1100	250	7.27	1818	3.10

STANDARD HIGH QUALITY CHROME SILICON (CRSI) ALLOY SPRING 12” FREE HEIGHT:

1200.250.0250	250	7.05	1763	4.72
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THE DIFFERENCE:

SPRING TRAVEL (IN)	SOLID LOAD (LBF)	SPRING MASS (LB)
0.22	55	-1.62

THE RESULT IS A 34% REDUCTION IN MASS.

Nascar Springs Note:
Front springs have a minimum of 4.50 total coils, maximum free height of 8.75" and 5.75" outside diameter.
Rear springs have a maximum free height of 13.0" and 5.25" outside diameter.
1500 lb. _ to Solid: The measured deflection to solid height with a preload of 1500 lbf. and a 13 mm rise plate.
750 lb. _ to Solid: The measured deflection to solid height with a preload of 750 lbf.
_ to Solid: The deflection to solid height as measured on a sample spring on a Instron SF1230. These values may vary due to manufacturing tolerances.

Note:
The deflection to solid height and solid load as measured on a sample spring on a Instron SF1230. These values may vary due to manufacturing tolerances.

Front spring rate testing procedure:
Preload the spring 1200 lb. and deflect the spring for one inch with a (.050") 15 mm rise plate.

Rear spring rate testing procedure:
Preload the spring 750 lb. and deflect the spring for one inch.

2.25" I.D. COILOVER RACE SPRINGS (6.5" FREE HEIGHT)

Part Number	Rate (lb/in)	Spring Travel (in)	Solid Load (lbf)	Spring Mass (lb)	Retail Price
0200.225.0650	200	4.52	905	1.13	\$80.00
0225.225.0650	225	4.48	1008	1.19	\$80.00
0250.225.0650	250	4.39	1097	1.28	\$80.00
0275.225.0650	275	4.32	1187	1.36	\$80.00
0300.225.0650	300	4.24	1286	1.46	\$80.00
0325.225.0650	325	4.19	1362	1.55	\$80.00
0350.225.0650	350	4.09	1433	1.66	\$80.00
0375.225.0650	375	3.99	1498	1.78	\$80.00
0400.225.0650	400	3.93	1571	1.89	\$80.00
0425.225.0650	425	3.96	1683	1.84	\$80.00
0450.225.0650	450	3.89	1748	1.96	\$80.00
0475.225.0650	475	3.81	1809	2.09	\$80.00
0500.225.0650	500	3.82	1913	2.05	\$80.00
0525.225.0650	525	3.74	1963	2.18	\$80.00
0550.225.0650	550	3.65	2010	2.23	\$80.00
0575.225.0650	575	3.70	2129	2.27	\$80.00
0600.225.0650	600	3.61	2167	2.42	\$80.00
0625.225.0650	625	3.61	2255	2.39	\$80.00
0650.225.0650	650	3.56	2314	2.53	\$80.00
0700.225.0650	700	3.50	2448	2.65	\$80.00
0750.225.0650	750	3.43	2571	2.78	\$80.00
0800.225.0650	800	3.35	2683	2.91	\$80.00
0850.225.0650	850	3.40	2887	2.83	\$80.00
0900.225.0650	900	3.31	2976	2.98	\$80.00
0950.225.0650	950	3.21	3052	3.14	\$80.00
1000.225.0650	1000	3.22	3217	3.26	\$80.00

2.25" I.D. COILOVER RACE SPRINGS (8.5" FREE HEIGHT)

Part Number	Rate (lb/in)	Spring Travel (in)	Solid Load (lbf)	Spring Mass (lb)	Retail Price
0350.225.0800	350	4.89	1712	2.34	\$80.00
0375.225.0800	375	4.78	1794	2.49	\$80.00
0400.225.0800	400	4.83	1933	2.41	\$80.00
0425.225.0800	425	4.76	2025	2.55	\$80.00
0450.225.0800	450	4.69	2109	2.70	\$80.00
0475.225.0800	475	4.55	2163	2.88	\$80.00
0500.225.0800	500	4.58	2289	2.82	\$80.00
0525.225.0800	525	4.49	2356	2.99	\$80.00
0550.225.0800	550	4.40	2419	3.16	\$80.00
0575.225.0800	575	4.40	2532	3.11	\$80.00
0600.225.0800	600	4.30	2583	3.30	\$80.00
0625.225.0800	625	4.36	2736	3.23	\$80.00
0650.225.0800	650	4.26	2768	3.42	\$80.00
0700.225.0800	700	4.20	2939	3.56	\$80.00
0750.225.0800	750	4.13	3097	3.71	\$80.00
0800.225.0800	800	4.05	3242	3.87	\$80.00
0850.225.0800	850	3.97	3372	4.04	\$80.00
0900.225.0800	900	3.87	3486	4.23	\$80.00
0950.225.0800	950	3.84	3648	4.38	\$80.00

Note:

The deflection to solid height and solid load as measured on a sample spring on a Instron SF1230. These values may vary due to manufacturing tolerances.

The rate testing procedure:

Preload the spring 1 inch and deflect the spring 2 inches in 1 inch increments. Depending on the spring free length Vogtland can ensure that the spring rate will be linear within 2% of the nominal rate between 25% and 75% of the springs total travel.

SHORT TRACK RACE SPRINGS (FRONT 8.5"-8.75" FREE LENGTH)

Part Number	Rate (lb/in)	Spring Travel (in)	Solid Load (lbf)	Spring Mass (lb)	Retail Price
0350.550.0875	350	6.19	2167	4.02	\$80.00
0400.550.0875	400	6.12	2447	4.30	\$80.00
0425.550.0875	425	6.05	2572	4.40	\$80.00
0450.575.0875	450	6.02	2710	4.56	\$80.00
0475.575.0875	475	5.94	2822	4.76	\$80.00
0500.575.0875	500	5.92	2961	4.92	\$80.00
0525.575.0875	525	5.86	3077	5.14	\$80.00
0550.575.0875	550	5.83	3204	5.04	\$80.00
0575.575.0875	575	5.79	3332	5.27	\$80.00
0600.575.0875	600	5.77	3459	5.47	\$80.00
0625.575.0875	625	5.75	3596	5.41	\$80.00
0650.575.0850	650	5.71	3716	5.61	\$80.00
0675.575.0875	675	5.72	3861	5.52	\$80.00
0700.575.0850	700	5.41	3788	6.64	\$80.00
0750.575.0850	750	5.41	4058	7.04	\$80.00
0800.575.0850	800	5.35	4280	7.79	\$80.00
0850.575.0850	850	5.30	4509	8.00	\$80.00
0900.575.0850	900	5.21	4693	8.20	\$80.00
0950.575.0850	950	5.07	4561	8.61	\$80.00
1000.575.0850	1000	4.93	4936	9.23	\$80.00

SHORT TRACK RACE SPRINGS (REAR 11"-16" FREE LENGTH)

Part Number	Rate (lb/in)	Spring Travel (in)	Solid Load (lbf)	Spring Mass (lb)	Retail Price
0150.525.1300	150	10.47	1570	3.97	\$80.00
0175.525.1300	175	10.10	1766	4.76	\$80.00
0200.525.1300	200	9.95	1991	5.16	\$80.00
0225.525.1300	225	9.81	2207	5.36	\$80.00
0250.525.1300	250	9.69	2422	5.75	\$80.00
0275.525.1300	275	9.48	2607	6.15	\$80.00
0300.525.1300	300	9.21	2763	6.35	\$80.00
0325.525.1300	325	9.09	2954	6.94	\$80.00
0350.525.1300	350	8.99	3147	7.14	\$80.00
0375.525.1300	375	8.88	3329	7.34	\$80.00
0400.525.1300	400	8.87	3546	7.54	\$80.00
0425.525.1300	425	8.79	3738	8.14	\$80.00
0450.525.1300	450	8.60	3868	8.33	\$80.00
0475.500.1300	475	8.38	3981	8.33	\$80.00
0500.500.1250	500	7.90	3954	8.13	\$80.00
0525.500.1200	525	7.65	4016	8.20	\$80.00
0550.500.1100	550	7.04	3873	7.38	\$80.00
0575.500.1100	575	6.94	3991	7.59	\$80.00
0600.500.1100	600	6.82	4094	7.59	\$80.00
0625.500.1100	625	6.77	4236	7.59	\$80.00
0650.500.1100	650	6.03	3918	9.64	\$80.00
0700.500.1100	700	5.93	4153	9.84	\$80.00

SHORT TRACK RACE SPRINGS (REAR 16" FREE LENGTH)

Part Number	Rate (lb/in)	Spring Travel (in)	Solid Load (lbf)	Spring Mass (lb)	Retail Price
0100.500.1600 (0100.16R)	100	12.96	1297	5.07	\$100.00
0125.500.1600 (0125.16R)	125	12.68	1586	5.07	\$100.00
0175.500.1600 (0175.16R)	175	12.06	2111	6.6	\$100.00
0200.500.1600 (0200.16R)	200	11.81	2362	7.26	\$100.00
0225.500.1600 (0225.16R)	225	11.42	2571	7.95	\$100.00
0250.500.1600 (0250.16R)	250	11.15	2789	8.91	\$100.00

Note:

Δ to Solid: The deflection to solid height as measured on a sample spring on a Instron SF1230. These values may vary due to manufacturing tolerances.

Part number reference: Rate.ID.Free Length