



ENGINE PRO PERFORMANCE VALVE SPRING PROGRESSIVE



Part #	02-1024-16	02-1200-16	02-1022-16	02-1205-16	02-1000-16	02-1001-16	02-1017-16	02-1010-16	02-2002-16	02-1016-16	02-1203-16	02-1004-16	02-1003-16	02-1002-16	02-3625-16	02-1204-16	02-1201-16	02-1023-16
# SPRINGS	DUAL	BEEHIVE	SINGLE	BEEHIVE	SINGLE	SINGLE	SINGLE	DUAL	SINGLE	SINGLE	BEEHIVE	DUAL	DUAL	SINGLE	BEEHIVE	BEEHIVE	BEEHIVE	DUAL
INSTALLED HEIGHT	1.600	1.640	1.650	1.700	1.700	1.700	1.700	1.700	1.750	1.750	1.750	1.750	1.750	1.800	1.800	1.800	1.800	1.800
O.D. OUTER	1.388	1.061/.960	1.494	1.237/1.062	1.230	1.253	1.437	1.440	1.259	1.263	1.412/1.00	1.445	1.445	1.259	1.270/.985	1.292/1.062	1.292/1.062	1.304
I.D. OUTER	1.062	.737/.636	1.080	.825/.650	.876	.870	1.035	1.076	.876	.880	1.065/.650	1.085	1.085	.876	.845/.645	.880/.650	.880/.650	.940
I.D. INNER	.806							.697				.696	.697					.670
SPRING RATE	230	191	380	347	316	404	358	433	358	434	284	305	345	407	350.8	322	300	409
RATE / .050	11.5	9.6	19	17.4	15.8	20	17.9	21.7	17.9	21.7	14.2	15.2	17.3	20.4	17.9	16.1	15	20.5
DAMPER	NO	NO	YES	NO	YES	YES	YES	YES	NO	YES	NO	YES	YES	YES	NO	NO	NO	NO
2.000																		
1.950																		
1.900																		110
1.850												103	108	101			120	131
1.800									110	128	109	118	125	121	95	105	135	151
1.750				93	75	104	92	104	128	150	123	133	142	141	113	121	150	172
1.700			97	110	91	124	110	126	146	172	137	148	159	161	131	137	165	192
1.650	105	78	106	127	107	144	128	148	164	193	151	163	176	181	149	153	180	213
1.600	117	88	125	145	123	164	146	169	182	215	165	178	194	202	167	169	195	233
1.550	128	97	144	162	138	184	164	191	200	237	180	193	211	223	185	185	210	254
1.500	140	107	163	179	154	204	182	213	217	259	194	209	228	343	203	202	225	274
1.450	151	116	182	197	170	224	200	234	235	280	208	224	245	364	221	218	240	295
1.400	163	126	201	214	186	244	218	256	253	302	222	239	263	384	239	234	255	315
1.350	174	135	220	231	201	264	236	277	271	324	237	254	280	304	256	250	270	336
1.300	186	145	239	249	217	284	254	299	289	345	251	269	297	325	274	266	285	356
1.250	197	154	258	266	233	304	271	320	307	367	265	285	314	345	292	282	300	377
1.200	209	164	277	283	249	324	289	342	325	389	279	300	332	365		298	315	397
1.150	220	174						364			293	316	349			314	330	417
1.100	232	183						386										
1.050	243																	
MATERIAL*	CR-SI-V-NI	CR-SI-V-NI	CR-SI	CR-SI-V-NI	CR-SI	CR-SI	CR-SI	CR-SI	CR-SI	CR-SI-V	CR-SI-V-NI	CR-SI	CR-SI	CR-SI	CR-SI	CR-SI-V-NI	CR-SI-V-NI	CR-SI-V
MAX OPEN		185@1.090		292@1.175		322@.210					284@1.175				295 @ 1.230			
COIL BIND HEIGHT	1.00	1.020	1.100	1.115	1.150	1.160	1.060	1.055	1.160	1.100	1.100	1.055	1.055	1.160	1.200	1.100	1.110	1.080
RETAINER, 7° - 11/32	03-1003-16		03-1003-16	03-1013-16	03-1000-16	03-1000-16	03-1016-16	03-1003-16	03-1000-16	03-1000-16	03-1013-16	03-1003-16	03-1003-16	03-1000-16	03-1013-16	03-1013-16	03-1013-16	
RETAINER, 10°	03-1002-16		03-1006-16	03-1014-16				03-1006-16			03-1014-16	03-1006-16	03-1006-16		03-1014-16	03-1014-16	03-1014-16	
RETAINER, 7° - 3/8	03-1005-16		03-1005-16					03-1005-16				03-1005-16	03-1005-16					
RETAINER, OTHER		03-1012-16		03-1015-16				03-1010-16	03-1001-16	03-1001-16		03-1010-16	03-1010-16	03-1001-16	03-1015-16	03-1015-16	03-1015-16	03-1017-16
RETAINER, TITANIUM			03-1730-16	03-1794-16				03-1730-16			03-1794-16	03-1730-16	03-1730-16		03-1794-16	03-1794-16	03-1794-16	03-1717-16
LOCATOR, see specs				03-3012-16				03-3011-16				03-3011-16	03-3011-16					03-3010-16
SPRING CUPS, .635 I.D.							03-2001-16	03-2001-16	03-2000-16	03-2000-16		03-2001-16	03-2001-16					
SPRING CUPS, .570 I.D.						03-2000-16								03-2000-16				
SHIMS .015	03-1135HP-16		03-1153HP-16	03-1060HP-16	03-1060HP-16	03-1060HP-16	03-1135HP-16	03-1135HP-16	03-1060HP-16	03-1060HP-16	03-1135HP-16	03-1135HP-16	03-1135HP-16	03-1060HP-16	03-1230HP-16	03-1135HP-16	03-1135HP-16	03-1060HP-16
SHIMS .030	03-3135HP-16		03-3153HP-16	03-3060HP-16	03-3060HP-16	03-3060HP-16	03-3135HP-16	03-3135HP-16	03-3060HP-16	03-3060HP-16	03-3135HP-16	03-3135HP-16	03-3135HP-16	03-3060HP-16	03-3230HP-16	03-3135HP-16	03-3135HP-16	03-3060HP-16
SHIMS .060	03-6135HP-16		03-6153HP-16	03-6060HP-16	03-6060HP-16	03-6060HP-16	03-6135HP-16	03-6135HP-16	03-6060HP-16	03-6060HP-16	03-6135HP-16	03-6135HP-16	03-6135HP-16	03-6060HP-16	03-6230HP-16	03-6135HP-16	03-6135HP-16	03-6060HP-16

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*CR=Chrome, SI=Silicon, V=Vanadium, NI=Nickle
Chart is intended as a **GUIDELINE ONLY!** SPECS +/-



ENGINE PRO PERFORMANCE VALVE SPRING PROGRESSIVE



PART #	02-2023-16	02-1021-16	02-1005-16	02-1018-18	02-1019-16	02-1301-16	02-1011-16	02-4040-32	02-1202-16	02-1300-16	02-1020-16	02-1012-16	02-1007-16	02-1008-16	02-1009-16	02-1014-16	02-1015-16
# SPRINGS	DUAL	SINGLE	SINGLE	SINGLE	SINGLE	DUAL	DUAL	SINGLE	BEEHIVE	DUAL	SINGLE	DUAL	SINGLE	DUAL	DUAL	SINGLE	DUAL
INSTALLED HEIGHT	1.800	1.800	1.800	1.800	1.850	1.850	1.850	1.880	1.880	1.900	1.900	1.900	1.900	1.900	1.900	1.900	1.950
O.D. OUTER	1.304	1.464	1.476	1.510	1.354	1.385	1.460	.995	1.447/1.098	1.450	1.463	1.515	1.539	1.539	1.546	1.548	1.539
I.D. OUTER	.940	1.064	1.062	1.117	.940	.995	1.060	.657	.999/.650	1.060	1.080	1.115	1.125	1.125	1.134	1.134	1.125
I.D. INNER	.670					.711	.696			.790		.696		.731	.814		.697
SPRING RATE	409	320	416	289	430	448	403	354	350	363	253	371	352	483	551	324	467
RATE / .050	20.5	16	20.8	14.5	21.5	22.4	20.2	17.7	17.5	18.2	12.7	18.6	17.6	24.2	27.6	16.2	23.4
DAMPER	NO	YES	YES	YES	YES	NO	YES	NO	NO	NO	YES	YES	YES	YES	NO	YES	YES
2.000																	122
1.950						117				122		106	115	182	212	134	145
1.900	110			124		139	106	83	148	140	100	125	133	206	240	150	168
1.850	131	113		138	97	161	126	100	166	158	113	144	151	230	268	166	192
1.800	151	129	109	152	119	183	146	118	183	176	126	163	168	254	295	182	215
1.750	172	145	130	167	140	207	166	135	201	194	138	181	186	279	323	198	239
1.700	192	161	151	181	162	230	186	153	218	212	151	200	203	303	350	215	262
1.650	213	177	172	196	183	252	206	170	235	230	164	218	221	327	378	231	285
1.600	233	193	192	210	204	274	227	188	253	249	177	237	239	351	405	247	309
1.550	254	209	213	225	225	297	247	206	270	267	189	256	256	375	433	263	332
1.500	274	225	234	239	247	319	267	224	288	285	202	275	274	400	460	280	356
1.450	295	241	255	254	267	341	287	242	305	303	214	292	291	424	488	296	379
1.400	315	257	276	268	290	363	308	260	323	321	227	311	309	448	516	312	402
1.350	336	273	297	283	312	385	328	277	340	339	239	329	327	472	543	328	425
1.300	356	289	317	297		408	348		358	358	252	348	344	496	571	344	448
1.250	377	305	338	311		430	368			376	264	367	362	520	598	360	
1.200	397	321	359	326								385			626		
1.150	417			340													
1.100																	
1.050																	
MATERIAL*	CR-SI-V	CR-SI	CR-SI	CR-SI-V	CR-SI	CR-SI	CR-SI	CR-SI	CR-SI-V-NI	CR-SI	CR-SI	CR-SI	CR-SI	CR-SI	CR-SI-V	CR-SI	CR-SI
MAX OPEN									365@1.280								
COIL BIND HEIGHT	1.080	1.135	1.140	1.050	1.280	1.195	1.150	1.300	1.210	1.120	1.120	1.165	1.170	1.200	1.150	1.180	1.200
RETAINER, 7° - 11/32		03-1003-16	03-1003-16	03-1003-16			03-1003-16		03-1013-16	03-1003-16	03-1003-16						
RETAINER, 10°		03-1006-16	03-1006-16	03-1004-16			03-1006-16		03-1014-16	03-1006-16	03-1006-16	03-1007-16	03-1009-16	03-1009-16	03-1009-16	03-1009-16	03-1007-16
RETAINER, 7° - 3/8		03-1005-16	03-1005-16	03-1005-16			03-1005-16			03-1005-16	03-1005-16	03-1005-16					
RETAINER, OTHER	03-1017-16	03-1010-16	03-1010-16	03-1008-16	03-1017-16		03-1010-16		03-1015-16	03-1010-16	03-1010-16		03-1007-16		03-1004-16	03-1007-16	
RETAINER, TITANIUM	03-1717-16	03-1730-16	03-1730-16				03-1730-16		03-1794-16	03-1730-16	03-1730-16	03-1732-16	03-1732-16	03-1732-16	03-1732-16	03-1736-16	
LOCATOR, see specs	03-3010-16					03-3011-16	03-3011-16					03-1003-16		03-3000-16			
SPRING CUPS, .635 I.D.									03-2001-16				03-2002-16	03-2002-16	03-2002-16	03-2002-16	03-2002-16
SPRING CUPS, .570 I.D.													03-2003-16	03-2003-16	03-2003-16	03-2003-16	03-2003-16
SHIMS .015	03-1060HP-16	03-1153HP-16	03-1153HP-16	03-1153HP-16			03-1135HP-16		03-1135HP-16	03-1135HP-16	03-1135HP-16	03-1153HP-16	03-1153HP-16	03-1153HP-16	03-1153HP-16	03-1153HP-16	03-1153HP-16
SHIMS .030	03-3060HP-16	03-3153HP-16	03-3153HP-16	03-3153HP-16			03-3135HP-16		03-3135HP-16	03-3135HP-16	03-3135HP-16	03-3153HP-16	03-3153HP-16	03-3153HP-16	03-3153HP-16	03-3153HP-16	03-3153HP-16
SHIMS .060	03-6060HP-16	03-6153HP-16	03-6153HP-16	03-6153HP-16			03-6135HP-16		03-6135HP-16	03-6135HP-16	03-6135HP-16	03-6153HP-16	03-6153HP-16	03-6153HP-16	03-6153HP-16	03-6153HP-16	03-6153HP-16

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