

CAMSHAFT SPECIFICATIONS ID CHART

Part Number	Class	RPM Range	Duration @ .050	Advertized Duration	Valve Lift	Cam Lift	Center Line	Valve Lash	Rocker Arm Ratio	Camshaft Type	Computer Compatible	
22100	INT.	Class 1	Idle-4000	192	271	.398	.234	107	Hyd.	1.7	Hydraulic Flat Tappet	No
22100	EXH.	Class 1	Idle-4000	203	281	.430	.253	117	Hyd.	1.7	Hydraulic Flat Tappet	No
22107	INT.	Class 1	1000-4500	208	280	.408	.272	107	Hyd.	1.5	Hydraulic Flat Tappet	No
22107	EXH.	Class 1	1000-4500	208	280	.408	.272	113	Hyd.	1.5	Hydraulic Flat Tappet	No
22108	INT.	Class 1	Idle-4000	184	260	.367	.245	104	Hyd.	1.5	Hydraulic Flat Tappet	No
22108	EXH.	Class 1	Idle-4000	194	270	.398	.265	104	Hyd.	1.5	Hydraulic Flat Tappet	No
22109	INT.	Class 1	Idle-4000	194	270	.398	.265	104	Hyd.	1.5	Hydraulic Flat Tappet	No
22109	EXH.	Class 1	Idle-4000	204	278	.421	.280	104	Hyd.	1.5	Hydraulic Flat Tappet	No
22110	INT.	Class 1	1000-4500	204	278	.421	.280	110	Hyd.	1.5	Hydraulic Flat Tappet	No
22110	EXH.	Class 1	1000-4500	214	288	.443	.295	110	Hyd.	1.5	Hydraulic Flat Tappet	No
22111	INT.	Class 1	Idle-4000	194	270	.398	.266	107	Hyd.	1.5	Hydraulic Flat Tappet	No
22111	EXH.	Class 1	Idle-4000	204	278	.421	.282	117	Hyd.	1.5	Hydraulic Flat Tappet	No
22114	INT.	Class 1	1400-4900	208	280	.420	.280	106	Hyd.	1.5	Hydraulic Flat Tappet	No
22114	EXH.	Class 1	1400-4900	208	280	.420	.280	116	Hyd.	1.5	Hydraulic Flat Tappet	No
22115	INT.	Class 1	1500-5000	209	283	.435	.290	107	Hyd.	1.5	Hydraulic Flat Tappet	No
22115	EXH.	Class 1	1500-5000	216	286	.455	.303	117	Hyd.	1.5	Hydraulic Flat Tappet	No
22116	INT.	Class 1	Idle-4500	190	277	.406	.232	113	Hyd.	1.75	Hydraulic Flat Tappet	No
22116	EXH.	Class 1	Idle-4500	190	277	.406	.232	110	Hyd.	1.75	Hydraulic Flat Tappet	No
22117	INT.	Class 1	1000-4500	204	280	.441	.253	109	Hyd.	1.75	Hydraulic Flat Tappet	No
22117	EXH.	Class 1	1000-4500	204	280	.442	.253	115	Hyd.	1.75	Hydraulic Flat Tappet	No
22118	INT.	Class 1	Idle-4500	192	290	.403	.230	113	Hyd.	1.75	Hydraulic Flat Tappet	No
22118	EXH.	Class 1	Idle-4500	192	290	.403	.230	110	Hyd.	1.75	Hydraulic Flat Tappet	No
22119	INT.	Class 1	1000-4500	202	271	.403	.269	108	Hyd.	1.5	Hydraulic Roller	No
22119	EXH.	Class 1	1000-4500	213	284	.409	.273	116	Hyd.	1.5	Hydraulic Roller	No
22120	INT.	Class 1	1000-4500	202	271	.403	.269	108	Hyd.	1.5	Hydraulic Roller	No
22120	EXH.	Class 1	1000-4500	213	284	.409	.273	116	Hyd.	1.5	Hydraulic Roller	No
22123	INT.	Class 1	1000-4500	203	271	.410	.273	111	Hyd.	1.5	Hydraulic Flat Tappet	No
22123	EXH.	Class 1	1000-4500	214	285	.410	.273	115	Hyd.	1.5	Hydraulic Flat Tappet	No
22124	INT.	Class 1	1000-4500	202	271	.401	.267	108	Hyd.	1.5	Hydraulic Flat Tappet	No
22124	EXH.	Class 1	1000-4500	213	283	.410	.273	112	Hyd.	1.5	Hydraulic Flat Tappet	No
22125	INT.	Class 1	1000-4500	202	271	.401	.267	108	Hyd.	1.5	Hydraulic Flat Tappet	No
22125	EXH.	Class 1	1000-4500	213	283	.410	.273	112	Hyd.	1.5	Hydraulic Flat Tappet	No
22126	INT.	Class 1	1250-4750	194	268	.398	.265	107	Hyd.	1.5	Hydraulic Flat Tappet	No
22126	EXH.	Class 1	1250-4750	214	288	.441	.294	117	Hyd.	1.5	Hydraulic Flat Tappet	No
22127	INT.	Class 1	700-4500	190	261	.438	.258	106	Hyd.	1.7	Hydraulic Flat Tappet	No
22127	EXH.	Class 1	700-4500	202	272	.465	.273	114	Hyd.	1.7	Hydraulic Flat Tappet	No
22129	INT.	Class 1	Idle-4500	198	273	.434	.289	108	Hyd.	1.5	Hydraulic Roller	No
22129	EXH.	Class 1	Idle-4500	210	288	.462	.308	116	Hyd.	1.5	Hydraulic Roller	No
22131	INT.	Class 1	1000-4500	207	271	.410	.273	117	Hyd.	1.5	Hydraulic Roller	No
22131	EXH.	Class 1	1000-4500	214	280	.427	.284	117	Hyd.	1.5	Hydraulic Roller	No
22135	INT.	Class 1	1000-4500	206	265	.470	.313	108	Hyd.	1.5	Retro Roller	No
22135	EXH.	Class 1	1000-4500	214	274	.490	.327	116	Hyd.	1.5	Retro Roller	No
22136	INT.	Class 1	1500-5000	215	284	.470	.313	106	Hyd.	1.5	Retro Roller	No
22136	EXH.	Class 1	1500-5000	230	310	.480	.320	114	Hyd.	1.5	Retro Roller	No
22141	INT.	Class 1	1700-5200	216	288	.501	.295	108	Hyd.	1.7	Retro Roller	No
22141	EXH.	Class 1	1700-5200	228	300	.510	.300	116	Hyd.	1.7	Retro Roller	No
22200	INT.	Class 2	2100-5600	223	290	.447	.298	110	Hyd.	1.5	Hydraulic Flat Tappet	No
22200	EXH.	Class 2	2100-5600	223	290	.447	.298	118	Hyd.	1.5	Hydraulic Flat Tappet	No
22203	INT.	Class 2	1700-5200	214	288	.444	.296	107	Hyd.	1.5	Hydraulic Flat Tappet	No
22203	EXH.	Class 2	1700-5200	224	298	.466	.311	117	Hyd.	1.5	Hydraulic Flat Tappet	No
22204	INT.	Class 2	1700-5200	214	292	.503	.296	108	Hyd.	1.7	Hydraulic Flat Tappet	No
22204	EXH.	Class 2	1700-5200	224	302	.528	.311	116	Hyd.	1.7	Hydraulic Flat Tappet	No
22205	INT.	Class 2	2200-5400	228	283	.585		108	Hyd.		Hydraulic Roller	No
22205	EXH.	Class 2	2200-5400	230	286	.585		116	Hyd.		Hydraulic Roller	No
22206	INT.	Class 2	Idle-5000	212		.553		111	Hyd.		Hydraulic Roller	No
22206	EXH.	Class 2	Idle-5000	218		.553		111	Hyd.		Hydraulic Roller	No
22207	INT.	Class 2	Idle-5000	212		.604		112	Hyd.		Hydraulic Roller	No
22207	EXH.	Class 2	Idle-5000	218		.604		112	Hyd.		Hydraulic Roller	No
22210	INT.	Class 2	2200-5800	224	291	.450	.300	114	Hyd.	1.5	Hydraulic Flat Tappet	No
22210	EXH.	Class 2	2200-5800	224	287	.460	.307	114	Hyd.	1.5	Hydraulic Flat Tappet	No
22213	INT.	Class 2	1700-5200	214	288	.444	.296	107	Hyd.	1.5	Hydraulic Flat Tappet	No
22213	EXH.	Class 2	1700-5200	214	288	.444	.296	117	Hyd.	1.5	Hydraulic Flat Tappet	No
22214	INT.	Class 2	1700-5200	214	293	.503	.296	109	Hyd.	1.7	Hydraulic Flat Tappet	No
22214	EXH.	Class 2	1700-5200	214	293	.503	.296	119	Hyd.	1.7	Hydraulic Flat Tappet	No
22215	INT.	Class 2	2000-5000	218	295	.429	.286	108	Hyd.	1.5	Hydraulic Flat Tappet	No
22215	EXH.	Class 2	2000-5000	218	295	.429	.286	112	Hyd.	1.5	Hydraulic Flat Tappet	No
22216	INT.	Class 2	1500-5000	214	290	.476	.270	110	Hyd.	1.76	Hydraulic Flat Tappet	No
22216	EXH.	Class 2	1500-5000	218	303	.496	.282	120	Hyd.	1.76	Hydraulic Flat Tappet	No

All listed dimensions are in inches

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Part Number	Class	RPM Range	Duration @ .050	Advertized Duration	Valve Lift	Cam Lift	Center Line	Valve Lash	Rocker Arm Ratio	Camshaft Type	Computer Compatible	
22218	INT.	Class 2	1500-5000	214	289	.460	.270	110	Hyd.	1.7	Hydraulic Flat Tappet	No
22218	EXH.	Class 2	1500-5000	218	301	.479	.282	120	Hyd.	1.7	Hydraulic Flat Tappet	No
22219	INT.	Class 2	2000-5500	224	294	.510	.300	114	Hyd.	1.7	Hydraulic Flat Tappet	No
22219	EXH.	Class 2	2000-5500	224	294	.510	.300	117	Hyd.	1.7	Hydraulic Flat Tappet	No
22221	INT.	Class 1	Idle-4500	197	261	.433	.289	105	Hyd.	1.5	Hydraulic Roller	No
22221	EXH.	Class 1	Idle-4500	206	276	.450	.300	114	Hyd.	1.5	Hydraulic Roller	No
22222	INT.	Class 2	1000-4500	202	278	.403	.269	108	Hyd.	1.5	Hydraulic Roller	No
22222	EXH.	Class 2	1000-4500	214	294	.410	.273	116	Hyd.	1.5	Hydraulic Roller	No
22223	INT.	Class 2	2000-5500	224	296	.483	.284	113	Hyd.	1.7	Hydraulic Roller	No
22223	EXH.	Class 2	2000-5500	224	296	.483	.284	118	Hyd.	1.7	Hydraulic Roller	No
22230	INT.	Class 2	1700-5300	214	287	.444	.296	105	Hyd.	1.5	Hydraulic Flat Tappet	No
22230	EXH.	Class 2	1700-5300	214	287	.444	.296	115	Hyd.	1.5	Hydraulic Flat Tappet	No
22232	INT.	Class 2	2000-5700	220	304	.468	.312	106	Hyd.	1.5	Hydraulic Flat Tappet	No
22232	EXH.	Class 2	2000-5700	231	287	.480	.320	114	Hyd.	1.5	Hydraulic Flat Tappet	No
22233	INT.	Class 2	2200-5800	224	300	.436	.291	107	Hyd.	1.5	Hydraulic Flat Tappet	No
22233	EXH.	Class 2	2200-5800	224	300	.436	.291	109	Hyd.	1.5	Hydraulic Flat Tappet	No
22234	INT.	Class 2	2000-5500	224	283	.480	.320	107	Hyd.	1.5	Hydraulic Flat Tappet	No
22234	EXH.	Class 2	2000-5500	230	291	.486	.324	113	Hyd.	1.5	Hydraulic Flat Tappet	No
22235	INT.	Class 2	2200-5700	224	224	.465	.310	112	Hyd.	1.5	Hydraulic Flat Tappet	No
22235	EXH.	Class 2	2200-5700	224	224	.465	.310	112	Hyd.	1.5	Hydraulic Flat Tappet	No
22236	INT.	Class 2	2200-5700	224	296	.527	.310	106	Hyd.	1.7	Retro Roller	No
22236	EXH.	Class 2	2200-5700	234	308	.544	.320	114	Hyd.	1.7	Retro Roller	No
22237	INT.	Class 2	1700-5200	215	284	.470	.313	108	Hyd.	1.5	Retro Roller	No
22237	EXH.	Class 2	1700-5200	224	296	.490	.327	116	Hyd.	1.5	Retro Roller	No
22238	INT.	Class 2	1700-5300	215	284	.470	.313	106	Hyd.	1.5	Retro Roller	No
22238	EXH.	Class 2	1700-5300	215	284	.470	.313	114	Hyd.	1.5	Retro Roller	No
22239	INT.	Class 2	1750-5250	215	268	.625	.367		Hyd.	1.7	Hydraulic Roller	No
22239	EXH.	Class 2	1750-5250	225	279	.610	.358		Hyd.	1.7	Hydraulic Roller	No
22240	INT.	Class 2	1950-5450	219	272	.625	.367		Hyd.	1.7	Hydraulic Roller	No
22240	EXH.	Class 2	1950-5450	227	281	.610	.358		Hyd.	1.7	Hydraulic Roller	No
22280	INT.	Class 2	2000-5200	220	283	.495	.330	107	Hyd.	1.5	Hydraulic Roller	No
22280	EXH.	Class 2	2000-5200	224	287	.502	.335	113	Hyd.	1.5	Hydraulic Roller	No
22296	INT.	Class 2	2200-5700	222	310	.500	.294	110	Hyd.	1.7	Hydraulic Flat Tappet	No
22296	EXH.	Class 2	2200-5700	235	325	.505	.297	120	Hyd.	1.7	Hydraulic Flat Tappet	No
22297	INT.	Class 2	1600-5000	216	288	.502	.295	108	Hyd.	1.7	Hydraulic Roller	No
22297	EXH.	Class 2	1600-5000	228	300	.510	.300	116	Hyd.	1.7	Hydraulic Roller	No
22298	INT.	Class 2	2000-5500	222	297	.478	.319	109	Hyd.	1.5	Hydraulic Roller	No
22298	EXH.	Class 2	2000-5500	232	307	.501	.334	119	Hyd.	1.5	Hydraulic Roller	No
22301	INT.	Class 3	2500-6000	232	288	.480	.320	106	Hyd.	1.5	Hydraulic Flat Tappet	No
22301	EXH.	Class 3	2500-6000	232	288	.480	.320	110	Hyd.	1.5	Hydraulic Flat Tappet	No
22302	INT.	Class 3	2500-6000	230	309	.513	.302	106	Hyd.	1.7	Hydraulic Flat Tappet	No
22302	EXH.	Class 3	2500-6000	230	309	.513	.302	114	Hyd.	1.7	Hydraulic Flat Tappet	No
22303	INT.	Class 3	2200-5700	224	298	.466	.311	107	Hyd.	1.5	Hydraulic Flat Tappet	No
22303	EXH.	Class 3	2200-5700	234	304	.488	.325	117	Hyd.	1.5	Hydraulic Flat Tappet	No
22305	INT.	Class 3	2700-6200	234	303	.488	.325	107	Hyd.	1.5	Hydraulic Flat Tappet	No
22305	EXH.	Class 3	2700-6200	244	313	.508	.339	117	Hyd.	1.5	Hydraulic Flat Tappet	No
22306	INT.	Class 3	2500-6000	224	302	.528	.311	110	Hyd.	1.7	Hydraulic Flat Tappet	No
22306	EXH.	Class 3	2500-6000	234	308	.552	.325	118	Hyd.	1.7	Hydraulic Flat Tappet	No
22307	INT.	Class 3	Idle-5000	218	278	.523		109	Hyd.		Hydraulic Roller	No
22307	EXH.	Class 3	Idle-5000	227	287	.524		115	Hyd.		Hydraulic Roller	No
22308	INT.	Class 3	2200-5400	238	296	.595		108	Hyd.		Hydraulic Roller	No
22308	EXH.	Class 3	2200-5400	242	296	.595		116	Hyd.		Hydraulic Roller	No
22309	INT.	Class 3	2200-5400	216		.560			Hyd.		Hydraulic Roller	No
22309	EXH.	Class 3	2200-5400	220		.560			Hyd.		Hydraulic Roller	No
22310	INT.	Class 3	2200-5400	220		.575			Hyd.		Hydraulic Roller	No
22310	EXH.	Class 3	2200-5400	224		.575			Hyd.		Hydraulic Roller	No
22320	INT.	Class 3	2500 - 6000	230	304	.453	.302	112	Hyd.	1.5	Hydraulic Flat Tappet	No
22320	EXH.	Class 3	2500 - 6000	230	304	.453	.302	116	Hyd.	1.5	Hydraulic Flat Tappet	No
22321	INT.	Class 3	2000-5800	227		.513		103.5			Retro Hydraulic Roller - Use W/ Factory Roller Block	No
22321	EXH.	Class 3	2000-5800	241		.498		103.5			Retro Hydraulic Roller - Use W/ Factory Roller Block	No
22322	INT.	Class 3	2000-5800	227		.513		103.5			Retro Hydraulic Roller	No
22322	EXH.	Class 3	2000-5800	241		.498		103.5			Retro Hydraulic Roller	No
22323	INT.	Class 3	1800-5400	218		.553					Hydraulic Roller	No
22323	EXH.	Class 3	1800-5400	224		.553					Hydraulic Roller	No
22324	INT.	Class 3	1800-5400	224		.553		109			Hydraulic Roller	No

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Part Number	Class	RPM Range	Duration @ .050	Advertized Duration	Valve Lift	Cam Lift	Center Line	Valve Lash	Rocker Arm Ratio	Camshaft Type	Computer Compatible	
22324	EXH.	Class 3	1800-5400	230		.553	109			Hydraulic Roller	No	
22325	INT.	Class 3	1800-5400	218		.604	112			Hydraulic Roller	No	
22325	EXH.	Class 3	1800-5400	224		.604	112			Hydraulic Roller	No	
22326	INT.	Class 3	1800-5400	224		.604	112			Hydraulic Roller	No	
22326	EXH.	Class 3	1800-5400	230		.604	112			Hydraulic Roller	No	
22327	INT.	Class 3	1800-5400	224		.625	112			Hydraulic Roller	No	
22327	EXH.	Class 3	1800-5400	230		.625	112			Hydraulic Roller	No	
22328	INT.	Class 3	1800-5400	226		.625	112			Hydraulic Roller	No	
22328	EXH.	Class 3	1800-5400	238		.625	112			Hydraulic Roller	No	
22329	INT.	Class 3		193		.502			1.8	Hydraulic Roller	No	
22329	EXH.	Class 3		199		.494			1.8	Hydraulic Roller	No	
22330	INT.	Class 3		224		.639			1.8	Hydraulic Roller	No	
22330	EXH.	Class 3		238		.639			1.8	Hydraulic Roller	No	
22331	INT.	Class 3		230		.639			1.8	Hydraulic Roller	No	
22331	EXH.	Class 3		244		.639			1.8	Hydraulic Roller	No	
22332	INT.	Class 3		218		.639			1.8	Hydraulic Roller	No	
22332	EXH.	Class 3		230		.639			1.8	Hydraulic Roller	No	
22333	INT.	Class 3	2200-5800	223	276	.625	.367		1.7	Hydraulic Roller	No	
22333	EXH.	Class 3	2200-5800	229	283	.610	.358		1.7	Hydraulic Roller	No	
22396	INT.	Class 2	2200-5700	242	310	.520	.306	108	1.70	Hydraulic Flat Tappet	No	
22396	EXH.	Class 2	2200-5700	242	297	.520	.306	120	0.20	Hydraulic Flat Tappet	No	
22398	INT.	Class 3	2500-6000	234	296	.538	.358	107	Hyd.	1.5	Retro Roller	No
22398	EXH.	Class 3	2500-6000	238	300	.546	.364	117	Hyd.	1.5	Retro Roller	No
22400	INT.	Class 4	3700-7300	257	304	.494	.329	108	.022	1.5	Mechanical Flat Tappet	No
22400	EXH.	Class 4	3700-7300	270	320	.512	.341	112	.024	1.5	Mechanical Flat Tappet	No
22401	INT.	Class 4	3300-6700	244	313	.508	.339	107	Hyd.	1.5	Hydraulic Flat Tappet	No
22401	EXH.	Class 4	3300-6700	254	328	.533	.355	117	Hyd.	1.5	Hydraulic Flat Tappet	No
22402	INT.	Class 4	2700-6200	240	282	.521	.347	104	.024	1.5	Mechanical Flat Tappet	No
22402	EXH.	Class 4	2700-6200	250	290	.521	.347	108	.024	1.5	Mechanical Flat Tappet	No
22404	INT.	Class 4	3700-7300	258	290	.538	.358	99	.026	1.5	Mechanical Flat Tappet	No
22404	EXH.	Class 4	3700-7300	266	298	.556	.371	111	.026	1.5	Mechanical Flat Tappet	No
22410	INT.	Class 4	3600-7200	254	294	.484	.323	110	.030	1.5	Mechanical Flat Tappet	No
22410	EXH.	Class 4	3600-7200	254	294	.484	.323	118	.030	1.5	Mechanical Flat Tappet	No
22411	INT.	Class 4	2000-6000	225	289	.525		107			Hydraulic Roller	No
22411	EXH.	Class 4	2000-6000	236	300	.525		113			Hydraulic Roller	No
22412	INT.	Class 4	2000-6500	236	298	.612		110			Hydraulic Roller	No
22412	EXH.	Class 4	2000-6500	246	309	.612		110			Hydraulic Roller	No
22413	INT.	Class 4	2000-6000	227	295	.551		107			Hydraulic Roller	No
22413	EXH.	Class 4	2000-6000	239	336	.551		109			Hydraulic Roller	No
22414	INT.	Class 4	2200-5400	228		.577				1.8	Hydraulic Roller	No
22414	EXH.	Class 4	2200-5400	248		.577				1.8	Hydraulic Roller	No
22420	INT.	Class 4	2200-6100	235		.522		103.5			Retro Hydraulic Roller - Use W/ Factory Roller Block	No
22420	EXH.	Class 4	2200-6100	249		.508		103.5			Retro Hydraulic Roller - Use W/ Factory Roller Block	No
22421	INT.	Class 4	2200-6100	235		.522		103.5			Retro Hydraulic Roller	No
22421	EXH.	Class 4	2200-6100	249		.508		103.5			Retro Hydraulic Roller	No
22422	INT.	Class 4	2000-6000	228		.625		112			Hydraulic Roller	No
22422	EXH.	Class 4	2000-6000	234		.625		112			Hydraulic Roller	No
22423	INT.	Class 4	2000-6000	232		.625		112			Hydraulic Roller	No
22423	EXH.	Class 4	2000-6000	240		.625		112			Hydraulic Roller	No
22424	INT.	Class 4	2000-6000	236		.625		112			Hydraulic Roller	No
22424	EXH.	Class 4	2000-6000	244		.625		112			Hydraulic Roller	No
22425	INT.	Class 4	2000-6000	230		.625		113			Hydraulic Roller	No
22425	EXH.	Class 4	2000-6000	244		.625		113			Hydraulic Roller	No
22426	INT.	Class 4	2400-6000	227	280	.625	.367			1.7	Hydraulic Roller	No
22426	EXH.	Class 4	2400-6000	231	285	.610	.358			1.7	Hydraulic Roller	No
22427	INT.	Class 4	4500-8000	264	322	.559	.329	108	.022	1.7	Mechanical Flat Tappet	No
22427	EXH.	Class 4	4500-8000	270	322	.580	.341	116	.026	1.7	Mechanical Flat Tappet	No
22450	INT.	Class 4	3600-7200	262	309	.512	.341	108	.022	1.5	Mechanical Flat Tappet	No

All listed dimensions are in inches

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Part Number	Class	RPM Range	Duration @ .050	Advertized Duration	Valve Lift	Cam Lift	Center Line	Valve Lash	Rocker Arm Ratio	Camshaft Type	Computer Compatible	
22450	EXH.	Class 4	3600-7200	273	318	.536	.357	116	.024	1.5	Mechanical Flat Tappet	No
22460	INT.	Class 4	3300-6800	246	302	.508	.339	106	Hyd.	1.5	Hydraulic Flat Tappet	No
22460	EXH.	Class 4	3300-6800	246	302	.508	.339	112	Hyd.	1.5	Hydraulic Flat Tappet	No
22471	INT.	Class 4	3200-6700	240	305	.559	.329	110	Hyd.	1.7	Hydraulic Flat Tappet	No
22471	EXH.	Class 4	3200-6700	246	311	.572	.337	114	Hyd.	1.7	Hydraulic Flat Tappet	No
22472	INT.	Class 4	2600-6300	237	335	.626	.368	109	Hyd.	1.7	Retro Roller	No
22472	EXH.	Class 4	2600-6300	245	329	.639	.376	115	Hyd.	1.7	Retro Roller	No
22500	INT.	Class 5	2000-6000	234	295	.595		108			Hydraulic Roller	No
22500	EXH.	Class 5	2000-6000	277	336	.595		106			Hydraulic Roller	No
22501	INT.	Class 5	2500-6500	234		.625		113			Hydraulic Roller	No
22501	EXH.	Class 5	2500-6500	248		.625		113			Hydraulic Roller	No
22502	INT.	Class 5	2500-6500	238		.625		113			Hydraulic Roller	No
22502	EXH.	Class 5	2500-6500	252		.625		113			Hydraulic Roller	No
23103	INT.	Class 1	Idle-4500	198	278	.410	.273	114	Hyd.	1.5	Hydraulic Flat Tappet	No
23103	EXH.	Class 1	Idle-4500	199	282	.412	.274	108	Hyd.	1.5	Hydraulic Flat Tappet	No
23104	INT.	Class 1	Idle-4500	198	278	.410	.273	114	Hyd.	1.5	Hydraulic Flat Tappet	No
23104	EXH.	Class 1	Idle-4500	199	282	.411	.274	108	Hyd.	1.5	Hydraulic Flat Tappet	No
23107	INT.	Class 1	1000-5000	211	264	.520					Hydraulic Roller	No
23107	EXH.	Class 1	1000-5000	215	268	.520					Hydraulic Roller	No
23108	INT.	Class 1	1000-5000	211	264	.520					Hydraulic Roller	No
23108	EXH.	Class 1	1000-5000	215	268	.520					Hydraulic Roller	No
23203	INT.	Class 2	1700-5200	214	288	.444	.296	108	Hyd.	1.5	Hydraulic Flat Tappet	No
23203	EXH.	Class 2	1700-5200	224	298	.466	.311	116	Hyd.	1.5	Hydraulic Flat Tappet	No
23204	INT.	Class 2	1700-5200	214	288	.443	.295	107	Hyd.	1.5	Hydraulic Flat Tappet	No
23204	EXH.	Class 2	1700-5200	224	298	.452	.301	117	Hyd.	1.5	Hydraulic Flat Tappet	No
23207	INT.	Class 2	1200-5200	213	266	.575					Hydraulic Roller	No
23207	EXH.	Class 2	1200-5200	219	272	.575					Hydraulic Roller	No
23208	INT.	Class 2	1200-5200	213	266	.575					Hydraulic Roller	No
23208	EXH.	Class 2	1200-5200	219	272	.575					Hydraulic Roller	No
23302	INT.	Class 3	2500-6000	236	302	.480	.320	108	Hyd.	1.5	Hydraulic Flat Tappet	No
23302	EXH.	Class 3	2500-6000	236	302	.480	.320	108	Hyd.	1.5	Hydraulic Flat Tappet	No
24108	INT.	Class 1	1000-4500	190	258	.412	.257	106	Hyd.	1.6	Hydraulic Flat Tappet	No
24108	EXH.	Class 1	1000-4500	202	271	.437	.273	114	Hyd.	1.6	Hydraulic Flat Tappet	No
24110	INT.	Class 1	1200-4600	210	298	.444	.278	116	Hyd.	1.6	Retro Roller	No
24110	EXH.	Class 1	1200-4600	211	282	.444	.278	115	Hyd.	1.6	Retro Roller	No
24111	INT.	Class 1	1300-4800	208	284	.485	.280	107	Hyd.	1.73	Hydraulic Flat Tappet	No
24111	EXH.	Class 1	1300-4800	208	284	.485	.280	115	Hyd.	1.73	Hydraulic Flat Tappet	No
24116	INT.	Class 1	1500-6200	217		.596					Hydraulic Roller	Requires Computer Tuning
24116	EXH.	Class 1	1500-6200	228		.603					Hydraulic Roller	Requires Computer Tuning
24203	INT.	Class 2	1700-5200	214	288	.473	.295	108	Hyd.	1.6	Hydraulic Flat Tappet	No
24203	EXH.	Class 2	1700-5200	224	300	.497	.310	116	Hyd.	1.6	Hydraulic Flat Tappet	No
24204	INT.	Class 2	1700-5200	214	292	.511	.295	106	Hyd.	1.73	Hydraulic Flat Tappet	No
24204	EXH.	Class 2	1700-5200	224	302	.537	.310	118	Hyd.	1.73	Hydraulic Flat Tappet	No
24205	INT.	Class 2	1700-5200	214	292	.511	.295	104	Hyd.	1.73	Hydraulic Flat Tappet	No
24205	EXH.	Class 2	1700-5200	224	302	.537	.310	120	Hyd.	1.73	Hydraulic Flat Tappet	No
24206	INT.	Class 2	1700-5200	214	292	.511	.296	107	Hyd.	1.73	Hydraulic Flat Tappet	No
24206	EXH.	Class 2	1700-5200	224	302	.544	.310	117	Hyd.	1.73	Hydraulic Flat Tappet	No
24209	INT.	Class 2	1300-4800	207	282	.445	.278	117	Hyd.	1.6	Hydraulic Flat Tappet	No
24209	EXH.	Class 2	1300-4800	221	304	.453	.283	113	Hyd.	1.6	Hydraulic Flat Tappet	No
24211	INT.	Class 2	2200-5700	224	300	.497	.310	107	Hyd.	1.6	Hydraulic Flat Tappet	No
24211	EXH.	Class 2	2200-5700	234	306	.520	.325	117	Hyd.	1.6	Hydraulic Flat Tappet	No
24212	INT.	Class 2	1700-5200	218	297	.458	.286	106	Hyd.	1.6	Hydraulic Flat Tappet	No
24212	EXH.	Class 2	1700-5200	218	297	.457	.286	120	Hyd.	1.6	Hydraulic Flat Tappet	No
24213	INT.	Class 2	1800-5300	216	308	.493	.285	109	Hyd.	1.73	Hydraulic Flat Tappet	No
24213	EXH.	Class 2	1800-5300	220	312	.502	.290	120	Hyd.	1.73	Hydraulic Flat Tappet	No
24214	INT.	Class 2	1700-5300	219	285	.498	.311	110	Hyd.	1.6	Retro Roller	No
24214	EXH.	Class 2	1700-5300	219	285	.498	.311	110	Hyd.	1.6	Retro Roller	No
24216	INT.	Class 2	2000-6500	220		.596					Hydraulic Roller	Requires Computer Tuning
24216	EXH.	Class 2	2000-6500	230		.577					Hydraulic Roller	Requires Computer Tuning
24218	INT.	Class 2	2200-5700	224	315	.506	.292	109	Hyd.	1.73	Hydraulic Flat Tappet	No
24218	EXH.	Class 2	2200-5700	224	315	.506	.292	115	Hyd.	1.73	Hydraulic Flat Tappet	No
24224	INT.	Class 2	1900-5400	219	310	.505	.292	108	Hyd.	1.73	Hydraulic Flat Tappet	No
24224	EXH.	Class 2	1900-5400	219	310	.505	.292	120	Hyd.	1.73	Hydraulic Flat Tappet	No
24225	INT.	Class 2	1700-5200	219	308	.467	.292	107	Hyd.	1.6	Hydraulic Flat Tappet	No
24225	EXH.	Class 2	1700-5200	219	308	.467	.292	119	Hyd.	1.6	Hydraulic Flat Tappet	No

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Part Number	Class	RPM Range	Duration @ .050	Advertized Duration	Valve Lift	Cam Lift	Center Line	Valve Lash	Rocker Arm Ratio	Camshaft Type	Computer Compatible	
24226	INT.	Class 2	1200-5000	212	289	.491	.307	107	Hyd.	1.6	Retro Roller	No
24226	EXH.	Class 2	1200-5000	222	300	.509	.318	117	Hyd.	1.6	Retro Roller	No
24227	INT.	Class 2	2300-5800	222	300	.509	.318	107	Hyd.	1.6	Hydraulic Flat Tappet	No
24227	EXH.	Class 2	2300-5800	232	309	.532	.332	117	Hyd.	1.6	Hydraulic Flat Tappet	No
24280	INT.	Class 2	2000-5000	220	286	.512	.320	109	Hyd.	1.6	Hydraulic Roller	No
24280	EXH.	Class 2	2000-5000	223	292	.512	.320	115	Hyd.	1.6	Hydraulic Roller	No
24301	INT.	Class 3	2500-6000	231	288	.512	.320	106	Hyd.	1.6	Hydraulic Flat Tappet	No
24301	EXH.	Class 3	2500-6000	231	288	.512	.320	114	Hyd.	1.6	Hydraulic Flat Tappet	No
24305	INT.	Class 3	2200-5400	227	298	.520	.325	107	Hyd.	1.6	Retro Roller	No
24305	EXH.	Class 3	2200-5400	234	302	.520	.325	117	Hyd.	1.6	Retro Roller	No
24316	INT.	Class 3	2500-6650	236		.669					Hydraulic Roller	Requires Computer Tuning
24316	EXH.	Class 3	2500-6650	249		.669					Hydraulic Roller	Requires Computer Tuning
25211	INT.	Class 2	1700-5200	214	289	.473	.296	106	Hyd.	1.6	Hydraulic Flat Tappet	No
25211	EXH.	Class 2	1700-5200	224	300	.497	.310	118	Hyd.	1.6	Hydraulic Flat Tappet	No
25309	INT.	Class 3	3200-6700	244	314	.475	.297	110	Hyd.	1.6	Hydraulic Flat Tappet	No
25309	EXH.	Class 3	3200-6700	244	314	.475	.297	110	Hyd.	1.6	Hydraulic Flat Tappet	No
25310	INT.	Class 3	2650-6200	232	329	.474	.296	112	Hyd.	1.6	Hydraulic Flat Tappet	No
25310	EXH.	Class 3	2650-6200	232	329	.474	.296	114	Hyd.	1.6	Hydraulic Flat Tappet	No
26204	INT.	Class 2	1700-5200	214	288	.443	.296	108	Hyd.	1.5	Hydraulic Flat Tappet	No
26204	EXH.	Class 2	1700-5200	224	298	.466	.311	116	Hyd.	1.5	Hydraulic Flat Tappet	No
26303	INT.	Class 3	3200-6700	224	298	.407	.271	112	Hyd.	1.5	Hydraulic Flat Tappet	No
26303	EXH.	Class 3	3200-6700	236	310	.407	.271	119	Hyd.	1.5	Hydraulic Flat Tappet	No
26308	INT.	Class 3	2650-6200	231	304	.470	.313	112	Hyd.	1.5	Hydraulic Flat Tappet	No
26308	EXH.	Class 3	2650-6200	240	316	.470	.313	115	Hyd.	1.5	Hydraulic Flat Tappet	No
27101	INT.	Class 1	1000-4500	214		.417	.267	105	.012	1.56	Mechanical Flat Tappet	No
27101	EXH.	Class 1	1000-4500	224		.429	.275	115	.012	1.56	Mechanical Flat Tappet	No
27201	INT.	Class 2	2200-5200	224		.429	.275	105	.012	1.56	Mechanical Flat Tappet	No
27201	EXH.	Class 2	2200-5200	234		.441	.283	115	.012	1.56	Mechanical Flat Tappet	No
MTA-1	INT.	Class 1	1200-4700	204	280	.449	.280	105	Hyd.	1.6	Hydraulic	Yes
MTA-1	EXH.	Class 1	1200-4700	214	289	.473	.296	115	Hyd.	1.6	Hydraulic	Yes
MTC-1	INT.	Class 1	1000-4500	204	278	.421	.280	107	Hyd.	1.5	Hydraulic	Yes
MTC-1	EXH.	Class 1	1000-4500	214	288	.444	.296	117	Hyd.	1.5	Hydraulic	Yes
MTC-6	INT.	Class 1	1000-4500	204	288	.459	.270	108	Hyd.	1.7	Hydraulic	Yes
MTC-6	EXH.	Class 1	1000-4500	208	298	.459	.270	116	Hyd.	1.7	Hydraulic	Yes
MTC-7	INT.	Class 1	1200-4800	206	262	.515	.303	110	Hyd.	1.7	Hydraulic	Yes
MTC-7	EXH.	Class 1	1200-4800	212	268	.522	.307	114	Hyd.	1.7	Hydraulic	Yes
MTC-8	INT.	Class 2	1500-5000	212	274	.522	.307	112	Hyd.	1.7	Hydraulic	Yes
MTC-8	EXH.	Class 2	1500-5000	218	280	.529	.311	116	Hyd.	1.7	Hydraulic	Yes
MTD-1	INT.	Class 1	1200-4700	204	278	.421	.280	108	Hyd.	1.5	Hydraulic	Yes
MTD-1	EXH.	Class 1	1200-4700	214	288	.443	.295	116	Hyd.	1.5	Hydraulic	Yes
MTD-2	INT.	Class 1	1200-4700	204	278	.421	.280	107	Hyd.	1.5	Hydraulic	Yes
MTD-2	EXH.	Class 1	1200-4700	214	288	.443	.295	117	Hyd.	1.5	Hydraulic	Yes
MTF-1	INT.	Class 1	1000-4500	204	280	.449	.280	108	Hyd.	1.6	Hydraulic	Yes
MTF-1	EXH.	Class 1	1000-4500	214	289	.473	.295	116	Hyd.	1.6	Hydraulic	Yes
MTF-2	INT.	Class 1	1200-4700	204	282	.485	.280	106	Hyd.	1.73	Hydraulic	Yes
MTF-2	EXH.	Class 1	1200-4700	214	292	.511	.295	118	Hyd.	1.73	Hydraulic	Yes
MTF-3	INT.	Class 1	1200-4700	204	282	.485	.280	106	Hyd.	1.73	Hydraulic	Yes
MTF-3	EXH.	Class 1	1200-4700	214	292	.511	.295	118	Hyd.	1.73	Hydraulic	Yes
MTF-4	INT.	Class 1	1200-4700	204	282	.485	.280	104	Hyd.	1.73	Hydraulic	Yes
MTF-4	EXH.	Class 1	1200-4700	214	292	.511	.295	120	Hyd.	1.73	Hydraulic	Yes
MTF-5	INT.	Class 1	1000-4500	204	280	.449	.280	107	Hyd.	1.6	Hydraulic	Yes
MTF-5	EXH.	Class 1	1000-4500	214	290	.473	.295	117	Hyd.	1.6	Hydraulic	Yes
MTF-6	INT.	Class 1	1000-4800	204	280	.449	.281	106	Hyd.	1.6	Hydraulic	Yes
MTF-6	EXH.	Class 1	1000-4800	214	289	.473	.296	114	Hyd.	1.6	Hydraulic	Yes
MTO-1	INT.	Class 1	1200-4700	204	280	.449	.280	106	Hyd.	1.6	Hydraulic	Yes
MTO-1	EXH.	Class 1	1200-4700	214	289	.473	.295	118	Hyd.	1.6	Hydraulic	Yes
MTP-1	INT.	Class 1	1200-4700	204	278	.421	.280	108	Hyd.	1.5	Hydraulic	Yes
MTP-1	EXH.	Class 1	1200-4700	214	288	.443	.295	116	Hyd.	1.5	Hydraulic	Yes

All listed dimensions are in inches