



## 2021 VALVE SPRING GUIDE

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**INTRODUCING A NEW LINE  
OF VALVE SPRING PRODUCTS!**



## VALVE SPRING SHIMS **NEW 2021!**

Shim Number	Outside Diameter		Inside Diameter		Thickness		Material	Raised Center	Universal or Specific Fit
	inch	mm	inch	mm	inch	mm			
471060HP	1.246	31.65	0.814	20.68	0.015	0.38	Steel	No	Universal
471052HP	1.247	31.67	0.518	13.16	0.015	0.38	Steel	No	Universal
471070HP	1.247	31.67	0.877	22.28	0.015	0.38	Steel	No	Universal
471135HP	1.438	36.53	0.645	16.34	0.015	0.38	Steel	No	Universal
471140HP	1.438	36.53	0.766	19.46	0.015	0.38	Steel	No	Universal
471150HP	1.476	37.49	0.705	17.91	0.015	0.38	Steel	No	Universal
471160HP	1.500	38.10	1.030	26.16	0.015	0.38	Steel	No	Universal
473060HP	1.246	31.65	0.814	20.68	0.030	0.76	Steel	No	Universal
473052HP	1.247	31.67	0.518	13.16	0.030	0.76	Steel	No	Universal
473070HP	1.247	31.67	0.877	22.28	0.030	0.76	Steel	No	Universal
473135HP	1.438	36.53	0.645	16.38	0.030	0.76	Steel	No	Universal
473140HP	1.438	36.53	0.766	19.46	0.030	0.76	Steel	No	Universal
473150HP	1.476	37.49	0.705	17.91	0.030	0.76	Steel	No	Universal
473160HP	1.500	38.10	1.030	26.16	0.030	0.76	Steel	No	Universal
476060HP	1.246	31.65	0.814	20.68	0.060	1.52	Steel	No	Universal
476052HP	1.247	31.67	0.518	13.16	0.060	1.52	Steel	No	Universal
476070HP	1.247	31.67	0.877	22.28	0.060	1.52	Steel	No	Universal
476135HP	1.438	36.53	0.645	16.38	0.060	1.52	Steel	No	Universal
476140HP	1.438	36.53	0.766	19.46	0.060	1.52	Steel	No	Universal
476150HP	1.476	37.49	0.705	17.90	0.060	1.52	Steel	No	Universal
476160HP	1.500	38.10	1.030	26.16	0.060	1.52	Steel	No	Universal

Qty per box: 16 pieces - minimum order qty: 16 pieces • Sold by dimension

## GM LS VALVE SPRING CUPS AND BASES **NEW 2021!**

Seat Number	Outside Diameter		Inside Diameter		Thickness	Material	Universal or Specific Fit
	inch	mm	inch	mm			
478014*	1.360/1.270		0.570		0.650	Steel	Specific
478024	1.250		0.655		0.600	Steel	Specific
478034	1.250		0.505		0.600	Steel	Specific

Qty per box: 4 pieces - minimum order qty: 4 pieces • Sold by dimension

\*Spring Cup

## VALVE SPRING RETAINERS

Retainer Number	Outside Diameter	Inside Diameter	Valve Stem Size	Thickness	Material	Valve Lock	Fitment
	inch	inch	inch	inch			
475054	1.375	0.675	0.343	0.465	Chrome Moly Steel	7°	Ford, GM
475064	1.375	0.675	0.375	0.550	Chrome Moly Steel	7°	Ford, GM
475074	1.375	0.805	0.343	0.465	Chrome Moly Steel	7°	Ford, GM
475084	1.370	0.805	0.375	0.465	Chrome Moly Steel	7°	Ford
475094	1.495	0.635	0.375	0.505	Chrome Moly Steel	7°	Chrysler
475114	1.495	0.665	0.343	0.505	Chrome Moly Steel	7°	AMC, Ford
475144	1.030	0.590	0.375	0.520	Chrome Moly Steel	7°	AMC, Chrysler
475184	1.190	0.390	0.343	0.520	Chrome Moly Steel	7°	GM
475224	1.350	0.550	0.375	0.400	Chrome Moly Steel	7°	Chrysler
475234	1.039	0.606	0.315	0.345	Chrome Moly Steel	7°	GM LS
475244	1.155/0.950	0.610	0.315	0.330	Chrome Moly Steel	7°	GM LS Dual + .050 <b>NEW</b>
475264	1.030	0.640	0.315	0.325	Chrome Moly Steel	7°	GM LS Beehive <b>NEW</b>
475274	1.236/0.864	0.610	0.315	0.326	Chrome Moly Steel	7°	GM LS Dual <b>NEW</b>

Qty per box: 4 pieces - minimum order qty: 4 pieces

## GM LS VALVE STEM SEALS **NEW 2021!**

Seat Number	Description	Material	Seal Type	Rim Shape
440014	GM LS OE style valve seal; Intake	Steel	Premium	Round
440024	GM LS OE Style valve seal; Exhaust	Steel	Premium	Round
440034	GM LS OE Style valve seal, use with a dual spring. Intake & Exhaust	Steel	Premium	Round

Qty per box: 4 pieces - minimum order qty: 4 pieces • Sold by dimension

## VALVE SPRINGS • CATALOGED BY DIMENSION **NEW 2021!**

Spring Number	Position	Outside Diameter	Inside Diameter	Installed Load & Height		Open Load & Height		Coil Bind
		inch	inch	lbs.	inch	lbs.	inch	inch
461918**	Both	1.544	0.752	175 @ 1.800		482 @ 1.175		1.056
466454#	Both	1.259	0.885	130 @ 1.720		315 @ 1.174		1.113
466464#	Both	1.525	1.125	130 @ 1.900		315 @ 1.261		1.186
466474*	Both	1.426/1.075	1.016/0.665	160 @ 1.900		400 @ 1.250		1.193
466484#	Both	1.420	1.020	130 @ 1.780		310 @ 1.260		1.153

Qty per box: 4 pieces - minimum order qty: 4 pieces

#Single Spring \*Beehive Spring \*\* Dual Spring

## VALVE SPRINGS • CATALOGED BY APPLICATION

### AMC V8 (290-401)

Spring Number	Position	Outside Diameter	Inside Diameter	Installed Load & Height		Open Load & Height		Coil Bind
		inch	inch	lbs.	inch	lbs.	inch	inch
466434	Both	1.435	1.035	112 @ 1.687		290 @ 1.187		1.025

Qty per box: 4 pieces - minimum order qty: 4 pieces • For use with Hydraulic lifters

Valve spring with damper

Use with camshafts: 23203, MTD-1 & MTD-2

### CHRYSLER V8 (273-440)

Spring Number	Position	Outside Diameter	Inside Diameter	Installed Load & Height		Open Load & Height		Coil Bind
		inch	inch	lbs.	inch	lbs.	inch	inch
466434	Both	1.435	1.035	112 @ 1.687		290 @ 1.187		1.025

Qty per box: 4 pieces - minimum order qty: 4 pieces • For use with Hydraulic lifters

Valve spring with damper

Use with camshafts: 23203, MTD-1 & MTD-2

### CHRYSLER V8 (360-440) FORD V8 (351M-400) GM BIG BLOCK V8 (366-454)

Spring Number	Position	Outside Diameter	Inside Diameter	Installed Load & Height		Open Load & Height		Coil Bind
		inch	inch	lbs.	inch	lbs.	inch	inch
466154	Outer	1.550	1.125	131 @ 1.750		240 @ 1.250		1.225
466164	Inner	1.138	0.795	72 @ 1.625		148 @ 1.125		1.110

Qty per box: 4 pieces - minimum order qty: 4 pieces • For use with mechanical lifters

Single spring

### CHRYSLER V8 (360-440)

Spring Number	Position	Outside Diameter	Inside Diameter	Installed Load & Height		Open Load & Height		Coil Bind
		inch	inch	lbs.	inch	lbs.	inch	inch
466224	Both	1.540	1.130	134 @ 1.937		312 @ 1.375		1.200

Qty per box: 4 pieces - minimum order qty: 4 pieces • For use with Hydraulic lifters

Valve spring with damper

Use with camshafts: 22100, 22204, 22214, 22296, 23204, 23302, 24204, 24205 & 24224

**FORD V8 (260-302 CID)**

Spring Number	Position	Outside Diameter	Inside Diameter	Installed Load & Height		Open Load & Height		Coil Bind
		inch	inch	lbs.	inch	lbs.	inch	inch
466134#	Outer	1.384	1.060	66.8 @ 1.625		138 @ 1.150		0.950
466124#	Inner	1.060	0.084	38.2 @ 1.525		92 @ 1.050		0.820
466744**	Both	1.384	0.084	105 @ 1.625		230 @ 1.150		0.820

Qty per box: 4 pieces - minimum order qty: 4 pieces • For use with hydraulic lifters  
 Use with camshafts: 24203, 24210, 24212, 24301, 25211, 25309 & 25310

# Single Spring \*\*Dual spring includes 466124 and 466134

**FORD V8 (260-302)**

Spring Number	Position	Outside Diameter	Inside Diameter	Installed Load & Height		Open Load & Height		Coil Bind
		inch	inch	lbs.	inch	lbs.	inch	inch
466444	Both	1.437	1.075	106 @ 1.750		205 @ 1.250		1.062

Qty per box: 4 pieces - minimum order qty: 4 pieces • For use with Hydraulic lifters  
 Use with camshafts: 24203, 24210, 24212 & 24301

Valve spring with damper

**FORD V8 (260-302)**

Spring Number	Position	Outside Diameter	Inside Diameter	Installed Load & Height		Open Load & Height		Coil Bind
		inch	inch	lbs.	inch	lbs.	inch	inch
466484	Both	1.420	1.020	130 @ 1.780		310 @ 1.260		1.153

Qty per box: 4 pieces - minimum order qty: 4 pieces • For use with Hydraulic Roller/ Retro-Fit Roller Lifters  
 Use with camshafts: 24110, 24214, 24226, 24227, 24280 & 24305

Single Spring

**FORD V8 (351M-400)**

Spring Number	Position	Outside Diameter	Inside Diameter	Installed Load & Height		Open Load & Height		Coil Bind
		inch	inch	lbs.	inch	lbs.	inch	inch
466224	Both	1.540	1.130	134 @ 1.937		312 @ 1.375		1.200

Qty per box: 4 pieces - minimum order qty: 4 pieces • For use with Hydraulic lifters  
 Use with camshafts: 22100, 22204, 22214, 22296, 23204, 23302, 24204, 24205 & 24224

Valve spring with damper

**FORD V8 (351W)**

Spring Number	Position	Outside Diameter	Inside Diameter	Installed Load & Height		Open Load & Height		Coil Bind
		inch	inch	lbs.	inch	lbs.	inch	inch
466174	Both	1.475	1.061	112 @ 1.800		278 @ 1.300		1.125

Qty per box 4 - minimum order qty 4 pieces • For use with hydraulic lifters  
 Use with camshafts: MTF-5, 24108, 24211, 24225 & 24305

Valve spring with damper

**FORD MODULAR V8 (4.6L, 5.4L, 6.8L)**

Spring Number	Position	Outside Diameter	Inside Diameter	Installed Load & Height		Open Load & Height		Coil Bind
		inch	inch	lbs.	inch	lbs.	inch	inch
466554	Both	1.061/0.999	0.698/0.636	100 @ 1.640		265 @ 1.080		1.040

Qty per box: 4 pieces - minimum order qty: 4 pieces  
 (Up to 0.600 lift) Will work with stock retainer and seat • No machining required

Ovate Beehive Spring

**FORD (7.3-N "Godzilla") *NEW 2021!***

Spring Number	Position	Outside Diameter	Inside Diameter	Installed Load & Height		Open Load & Height		Coil Bind
		inch	inch	lbs.	inch	lbs.	inch	inch
466574	Intake	1.245/1.095	0.845/0.695	80 @ 2.362		346 @ 1.662		1.606
466584	Exhaust	1.219/1.069	0.845/0.695	100 @ 2.362		310 @ 1.662		1.585

Qty per box: 4 pieces - minimum order qty: 4 pieces

Beehive Spring

**GM SMALL BLOCK V8 (262-400)**

Spring Number	Position	Outside Diameter	Inside Diameter	Installed Load & Height		Open Load & Height		Coil Bind
		inch	inch	lbs.	inch	lbs.	inch	
466204	Both	1.260	0.876	110 @ 1.700		285 @ 1.210		1.160

Qty per box: 4 pieces - minimum order qty: 4 pieces • For use with Hydraulic lifters  
Use with camshafts: 22303, 22305 & 22401

Valve spring with damper

**GM SMALL BLOCK V8 (262-400)**

Spring Number	Position	Outside Diameter	Inside Diameter	Installed Load & Height		Open Load & Height		Coil Bind
		inch	inch	lbs.	inch	lbs.	inch	
466114#	Outer	1.440	1.080	105 @ 1.750		205 @ 1.1.250		1.086
466274#	Inner	1.084	0.800	72 @ 1.687		152 @ 1.087		1.000
466724**	Both	1.440	0.800	169 @ 1.750		335 @ 1.250		1.086

Qty per box: 4 pieces - minimum order qty: 4 pieces • For use with mechanical lifters  
Use with camshafts: 22400, 22410 & 22450

#Single Spring \*\* Dual Spring

**GM SMALL BLOCK V8 (262-400)**

Spring Number	Position	Outside Diameter	Inside Diameter	Installed Load & Height		Open Load & Height		Coil Bind
		inch	inch	lbs.	inch	lbs.	inch	
466354	Both	1.215	0.860	94 @ 1.800		235 @ 1.300		1.125

Qty per box: 4 pieces - minimum order qty: 4 pieces • For use with Hydraulic lifters  
Use with camshafts: 22110, 22115, 22200, 22203, 22210, 22213, 22301, 22320

Valve spring with damper

**GM SMALL BLOCK V8 (262-400)**

Spring Number	Position	Outside Diameter	Inside Diameter	Installed Load & Height		Open Load & Height		Coil Bind
		inch	inch	lbs.	inch	lbs.	inch	
466364	Both	1.260	0.876	112 @ 1.800		350 @ 1.200		1.160

Qty per box: 4 pieces - minimum order qty: 4 pieces • For use with Mechanical lifters  
Use with camshafts: 22400, 22410 & 22450

Valve spring with damper

**GM SMALL BLOCK V8 (262-400)**

Spring Number	Position	Outside Diameter	Inside Diameter	Installed Load & Height		Open Load & Height		Coil Bind
		inch	inch	lbs.	inch	lbs.	inch	
466454	Both	1.259	0.885	130 @ 1.720		315 @ 1.174		1.113

Qty per box: 4 pieces - minimum order qty: 4 pieces • For use with Hydraulic Roller/ Retro-Fit Roller Lifters  
Use with camshafts: 22129, 22131, 22135, 22136, 22221, 22237, 22238, 22280, 22298 & 22398

Single spring

**GM BIG BLOCK V8 (366-454)**

Spring Number	Position	Outside Diameter	Inside Diameter	Installed Load & Height		Open Load & Height		Coil Bind
		inch	inch	lbs.	inch	lbs.	inch	
466224	Both	1.540	1.130	134 @ 1.937		312 @ 1.375		1.200

Qty per box: 4 pieces - minimum order qty: 4 pieces • For use with Hydraulic lifters  
Use with camshafts: 22100, 22204, 22214, 22296, 23204, 23302, 24204, 24205 & 24224

Valve spring with damper

**GM BIG BLOCK V8 (366-454)**

Spring Number	Position	Outside Diameter	Inside Diameter	Installed Load & Height		Open Load & Height		Coil Bind
		inch	inch	lbs.	inch	lbs.	inch	
466464	Both	1.525	1.125	130 @ 1.900		315 @ 1.261		1.186

Qty per box: 4 pieces - minimum order qty: 4 pieces • For use with Hydraulic Roller/ Retro-Fit Roller Lifters  
Use with camshafts: 22141, 22223, 22236 & 22472

Single Spring

**GM BIG BLOCK V8 (366-454)**

Spring Number	Position	Outside Diameter	Inside Diameter	Installed Load & Height		Open Load & Height		Coil Bind
		inch	inch	lbs.	inch	lbs.	inch	
466474	Both	1.426	1.016	160 @ 1.900		400 @ 1.250		1.193

Qty per box: 4 pieces - minimum order qty: 4 pieces • For use with Hydraulic Roller/ Retro-Fit Roller Lifters  
 Use with camshafts: 22141, 22223, 22236 & 22472

Beehive Spring

**GM LS GEN III/IIII NEW 2021!**

Spring Number	Position	Outside Diameter	Inside Diameter	Installed Load & Height		Open Load & Height		Coil Bind
		inch	inch	lbs.	inch	lbs.	inch	
461208**	Both	1.324	0.700	160 @ 1.800		482 @ 1.100		1.045
466524**	Both	1.264/1.029	0.890/0.665	130 @ 1.800		325 @ 1.200		1.146
466564**	Both	1.268	0.890	147 @ 1.800		406 @ 1.230		1.100
466594**	Both	1.304	0.670	151 @ 1.800		417 @ 1.150		1.080

Qty per box: 4 pieces - minimum order qty: 4 pieces

\*\* Dual Spring \*Beehive Spring

Use with camshafts: MTC-7, MTC-8, 22205, 22307, 22308, 22411, 22412, 22413 & 22500

(466524 - Up to 6.000 lift • 466594 Up - to 0.650 lift)

**OLDSMOBILE V8 (260-455)**

Spring Number	Position	Outside Diameter	Inside Diameter	Installed Load & Height		Open Load & Height		Coil Bind
		inch	inch	lbs.	inch	lbs.	inch	
466134#	Outer	1.384	1.060	66.8 @ 1.625		138 @ 1.150		0.950
466124#	Inner	1.060	0.084	38.2 @ 1.525		92 @ 1.050		0.820
466744**	Both	1.384	0.084	105 @ 1.625		230 @ 1.150		0.820

Qty per box: 4 pieces - minimum order qty: 4 pieces • For use with hydraulic lifters

# Single Spring \*\*Dual spring includes 466124 and 466134

Use with camshafts: 24203, 24210, 24212, 24301, 25211, 25309 & 25310

**VALVE SPRINGS • LISTED BY OUTSIDE DIAMETER**

Spring Number	Spring Rate	Spring Type	Outside Diameter	Inside Diameter	Installed Load & Height		Open Load & Height		Coil Bind
			inch	inch	lbs.	inch	lbs.	inch	
466124	113	Single	1.060	0.804	38.2 @ 1.525		92 @ 1.050		0.820
466554	295	Beehive	1.061	0.698	100 @ 1.640		265 @ 1.080		1.040
466274	133	Single	1.084	0.800	72.5 @ 1.687		152 @ 1.087		1.000
466164	151	Single	1.138	0.795	72.5 @ 1.625		148 @ 1.125		1.110
466354	282	Single W/Damper	1.215	0.860	94 @ 1.800		235 @ 1.300		1.125
466584	380	Beehive	1.219	0.845	100 @ 2.362		310 @ 1.662		1.585
466574	300	Beehive	1.245	0.845	80 @ 2.362		346 @ 1.662		1.606
466454	339	Single	1.259	0.885	130 @ 1.720		315 @ 1.174		1.113
466204	357	Single W/Damper	1.260	0.876	110 @ 1.700		285 @ 1.210		1.160
466364	397	Single W/Damper	1.260	0.876	112 @ 1.800		350 @ 1.200		1.160
466524	325	Beehive	1.264	0.890	130 @ 1.800		325 @ 1.200		1.146
466564	454	Dual	1.268	0.890	147 @ 1.800		406 @ 1.230		1.100
466594	409	Dual	1.304	0.670	151 @ 1.800		417 @ 1.150		1.080
461208	460	Dual	1.324	0.700	160 @ 1.800		482 @ 1.100		1.045
466134	150	Single	1.384	1.060	66.8 @ 1.625		138 @ 1.150		0.950
466744	263	Dual	1.384	0.084	105 @ 1.625		230 @ 1.150		0.820
466484	346	Single	1.420	1.020	130 @ 1.780		310 @ 1.260		1.153
466474	339	Beehive	1.426	1.016	160 @ 1.900		400 @ 1.250		1.193
466434	356	Single W/Damper	1.435	1.035	112 @ 1.687		290 @ 1.187		1.125
466444	206	Single W/Damper	1.437	1.075	106 @ 1.750		209 @ 1.250		1.062
466114	200	Single	1.440	1.080	105 @ 1.750		205 @ 1.250		1.086
466724	332	Dual	1.440	0.800	169 @ 1.750		335 @ 1.250		1.086
466174	332	Single W/Damper	1.475	1.061	112 @ 1.800		278 @ 1.300		1.125
466464	290	Single	1.525	1.125	130 @ 1.900		315 @ 1.261		1.186
466224	317	Single W/Damper	1.540	1.130	134 @ 1.937		312 @ 1.375		1.200
461918	491	Dual	1.544	0.752	175 @ 1.800		482 @ 1.175		1.056
466154	217	Single	1.550	1.125	131 @ 1.750		240 @ 1.250		1.225

Since 1946

