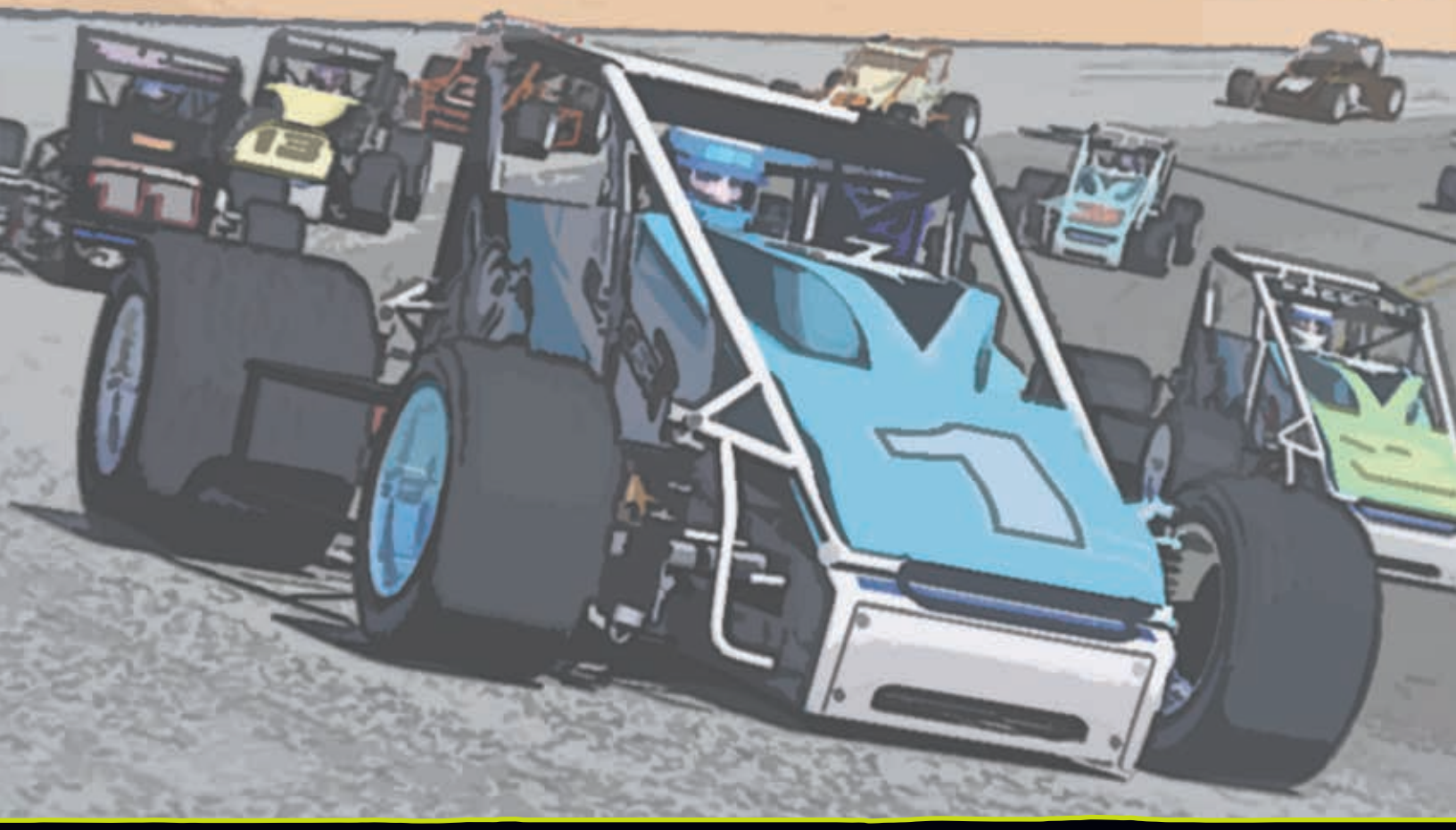
PAC®

Circle Track Products

- BUMP SPRINGS
- BUMP SPRING ACCESSORIES
- TORSION BARS
- SUSPENSION SPRINGS
- VALVE SPRINGS



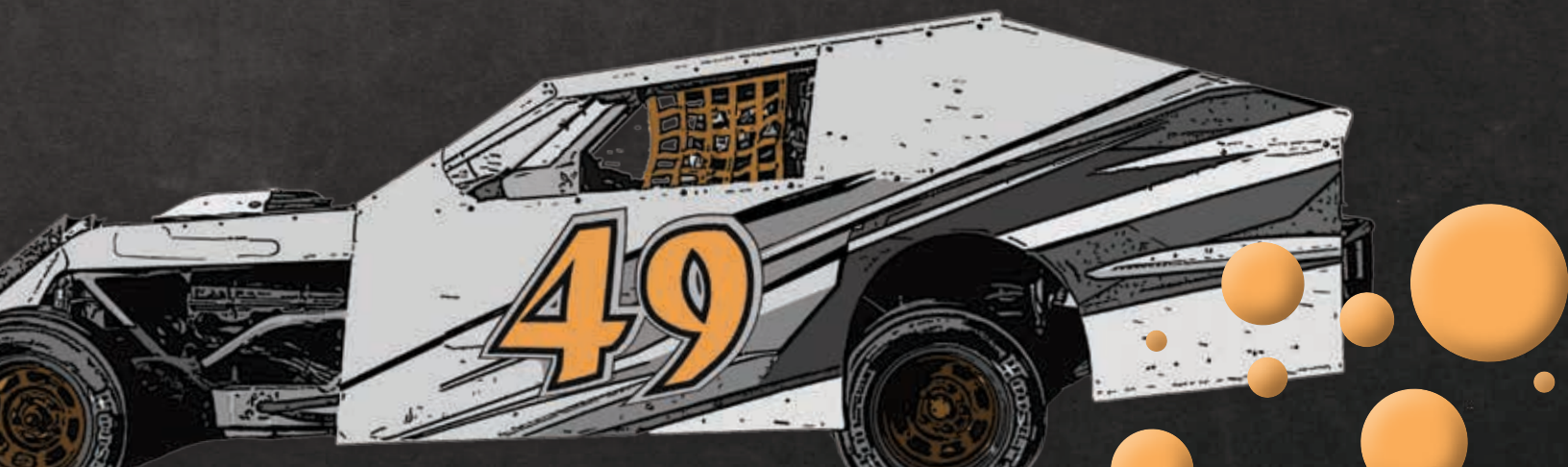
RacingSprings.com 866-799-9417

MANUFACTURERS OF VALVE SPRING, SUSPENSION, AND OTHER QUALITY PRODUCTS

2015 RELEASE

Circle Track Products

CONTENTS:



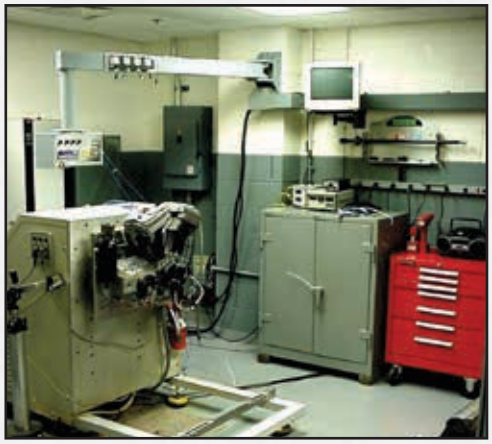
About PAC Racing

RacingSprings.com

PETERSON SPRING
MANUFACTURERS OF ENGINEERED METAL PRODUCTS

ABOUT PAC

PAC Racing Springs, based in Detroit, MI, is the Racing and Aftermarket Division of the Peterson Spring Company. With more than 10 divisions around the world, Peterson Spring is the largest privately held, family owned Spring Company in the USA. With more than 100 years of operation, Peterson Spring proudly manufactures all the Racing and Aftermarket components in Detroit, Michigan.

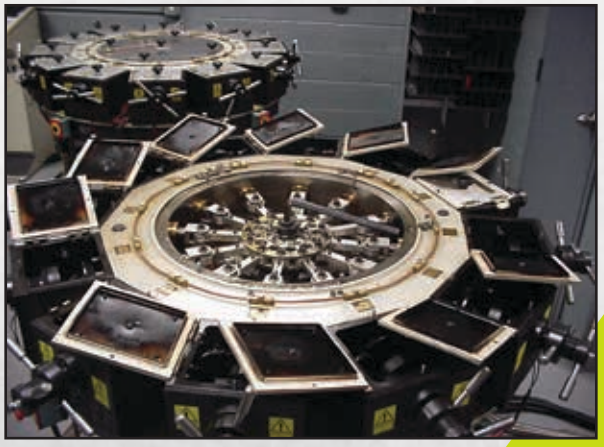


SERVICE COMMITMENT

We understand the demands of racing and provide a commitment to all of our customers to provide the best service possible. We continue to expand products, and offer expanded onsite technical services at various racing events. We believe these interactions allow us to provide the latest product advancements and respond to additional future requirements. Because we are the manufacturer we are able to design, build, and supply parts within days if needed.

CUSTOM PRODUCTS

We believe in providing custom products for every product line. This philosophy is a premium choice to allow our customers an enhanced product or something unique to the application. Additional Private Label programs are available to many companies looking for their own brand identity and are typically for larger volume applications. We honor proprietary agreements and are dedicated to providing any aftermarket company a superior American made product at sustainable market pricing.



TECHNOLOGY

The primary focus of the Peterson Spring group is Automotive and Industrial applications, these interactions increase technical advancements for PAC Racing Spring products. We can offer enhanced technology through engineering resources and expanded experience from all of our power-train engineers. Additionally with nearly 100 years of manufacturing experience we continually improve our products to exceed demanding expectations.

TESTING

Because of the extreme demands of racing, we routinely test all of our components using advanced testing technology. We have a fully accredited metallurgy lab with dedicated staff and equipment such as: SEM with EDAX, Xray Diffraction, Micro Hardness, Impact Testing, and MTS Tensile Test machine. Additionally, we are able to test functionality and fatigue properties in our Dyanamics Laboratory, which includes a single post MTS Servo Hydraulic test machine, various bench type equipment, and our High Tech Engine test lab. Whatever your application we strive to bring confidence that our products meet and exceed designed parameters.

Suspension Engineering & Design

PAC Racing Springs Engineering abilities have always extended past simply manufacturing and designing springs. The engineering team within PAC Racing and the Peterson Spring group views spring components as a system, and develops a spring solution that fits with the overall application needed to integrate the system. With a host of engineering tools, PAC Racing's expansion into suspension systems offers our customers a unique set of opportunities to develop a suspension system from the drawing board, or optimize a current system.

We are eager to help and expand on our ability into the suspension market. If you have a need or inquiry please contact us at 1.866.799.9417, email tech@racingsprings.com, or view our website for our web tools, knowledge based papers, and product information.

WE OFFER

Engineering Services and Design

- Complete 3D CAD modeling of system.
- Suspension component design.
- Private label engineering- turn key suspension systems for aftermarket.
- Rate curve and wheel rate analysis.
- Suspension optimization- viewed as a system
- Onsite tuning and tech support- ride handling and performance
- Spring and ride handling support – spring rate optimization based on specific application
- Suspension travel and geometry changes
- IFS (Independent Front Suspension) design and optimization
- Systems approach (springs, shocks, sway bars)

PRO SERIES BUMP SPRINGS

- Pro-Series bump springs are the extreme when it comes to travel and extreme spring rates needed for Super Speedway and Pro-Circle Track cars.
- Lowest weight possible
- Maximized travel
- Solid designs
- High tensile valve spring alloy
- Fully processed for extreme endurance and load loss improvements
- Custom versions available

4 INCH TALL

Part Number	ID	Free Length	Spring Rate	Solid Height	Weight	Travel
PAC-NB4x1.08x1500	1.080	4.000	1500	2.429	0.867	1.417
PAC-NB4x1.25x2000	1.250	4.000	2000	2.705	1.357	1.568
PAC-NB4x1.25x2500	1.250	4.000	2500	2.409	1.239	1.597
PAC-NB4x1.25x3000	1.250	4.000	3000	2.608	1.470	1.392
PAC-NB4x1.25x3500	1.250	4.000	3500	2.644	1.570	1.356
PAC-NB4x1.25x4000	1.250	4.000	4000	2.714	1.700	1.286
PAC-NB4x1.25x4500	1.250	4.000	4500	2.807	1.860	1.193
PAC-NB4x1.25x5000	1.250	4.000	5000	2.920	2.030	1.080
PAC-NB4x1.25x5500	1.250	4.000	5500	3.049	2.230	0.951
PAC-NB4x1.25x6000	1.250	4.000	6000	2.999	2.240	1.001
PAC-NB4x1.08x6500	1.080	4.000	6500	3.011	1.900	0.989
PAC-NB4x1.08x7000	1.080	4.000	7000	3.000	1.940	1.000
PAC-NB4x1.08x7500	1.080	4.000	7500	3.000	1.990	1.000
PAC-NB4x1.08x8000	1.080	4.000	8000	3.008	2.040	0.992
PAC-NB4x1.08x8500	1.080	4.000	8500	3.023	2.100	0.977
PAC-NB4x1.02x9000	1.020	4.000	9000	3.171	2.130	0.829
PAC-NB4x1.02x9500	1.190	4.000	9500	2.740	2.170	1.260
PAC-NB4x1.02x10000	1.190	4.000	10000	2.616	2.070	1.384
PAC-NB4x1.02x10500	1.150	4.000	10500	2.659	2.060	1.341
PAC-NB4x1.02x11000	1.150	4.000	11000	2.549	1.980	1.451
PAC-NB4x1.02x11500	1.150	4.000	11500	2.736	2.220	1.264
PAC-NB4x1.02x12000	1.150	4.000	12000	2.633	2.140	1.367

Part Number	ID	Free Length	Spring Rate	Solid Height	Weight	Travel
3.5 INCH TALL						
PAC-NB3.5x2.5x1000	1.050	3.500	1000	1.885	0.544	1.615
PAC-NB3.5x2.5x1500	0.940	3.500	1500	2.096	0.602	1.404
PAC-NB3.5x2.5x2000	0.950	3.500	2000	2.228	0.718	1.272
PAC-NB3.5x2.5x2500	0.940	3.500	2500	2.292	0.790	1.208
PAC-NB3.5x2.5x3000	1.020	3.500	3000	2.269	0.890	1.231
PAC-NB3.5x2.5x4000	0.990	3.500	4000	2.417	1.020	1.083
PAC-NB3.5x2.5x5000	0.950	3.500	5000	2.509	1.100	0.991
PAC-NB3.5x2.5x6000	0.950	3.500	6000	2.673	1.280	0.827
PAC-NB3.5x2.5x7000	0.910	3.500	7000	2.699	1.300	0.801
PAC-NB3.5x2.5x8000	0.870	3.500	8000	2.772	1.330	0.728
PAC-NB3.5x2.5x9000	0.840	3.500	9000	2.830	1.370	0.670
PAC-NB3.5x2.5x10000	0.820	3.500	10000	2.862	1.400	0.638
3.0 INCH TALL						
PAC-NB3x1.08x1000	1.080	3.000	1000	1.932	0.490	1.068
PAC-NB3x1.10x1500	1.100	3.000	1500	1.682	0.460	1.318
PAC-NB3x1.10x2000	1.100	3.000	2000	1.796	0.560	1.204
PAC-NB3x1.08x2500	1.080	3.000	2500	1.863	0.620	1.137
PAC-NB3x1.08x3000	1.080	3.000	3000	1.913	0.680	1.087
PAC-NB3x1.08x3500	1.080	3.000	3500	1.990	0.770	1.010
PAC-NB3x1.08x4000	1.080	3.000	4000	2.087	0.860	0.913
PAC-NB3x1.08x4500	1.080	3.000	4500	2.045	0.870	0.955
PAC-NB3x1.25x5000	1.250	3.000	5000	1.814	0.920	1.186
PAC-NB3x1.25x5500	1.250	3.000	5500	1.801	0.940	1.199
PAC-NB3x1.25x6000	1.250	3.000	6000	1.916	1.060	1.084
PAC-NB3x1.25x6500	1.250	3.000	6500	1.916	1.090	1.084
PAC-NB3x1.25x7000	1.250	3.000	7000	1.922	1.130	1.078
PAC-NB3x1.25x7500	1.250	3.000	7500	1.934	1.160	1.066
PAC-NB3x1.25x8000	1.250	3.000	8000	1.950	1.210	1.050
PAC-NB3x1.25x8500	1.250	3.000	8500	1.970	1.250	1.030
PAC-NB3x1.25x9000	1.250	3.000	9000	1.994	1.300	1.006
PAC-NB3x1.25x9500	1.250	3.000	9500	2.020	1.350	0.980
PAC-NB3x1.25x10000	1.250	3.000	10000	2.049	1.410	0.951
PAC-NB3x1.25x10500	1.250	3.000	10500	1.971	1.350	1.029
PAC-NB3x1.25x11000	1.250	3.000	11000	2.004	1.410	0.996
PAC-NB3x1.25x11500	1.250	3.000	11500	2.040	1.470	0.960
PAC-NB3x1.08x12000	1.080	3.000	12000	2.118	1.290	0.882

SPORTSMAN BUMP STOP SPRINGS

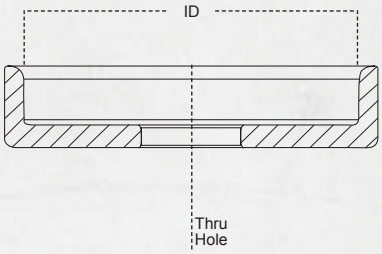
- Designed with the sportsman dirt and paved racer in mind
- No hysteresis like urethane bump stops
- More consistent with temperature variations
- Smaller package design than pro- series
- Full retainer cups and stacker hardware available
- Maximized travel
- Solid safe

SPORTSMAN 1 INCH SERIES

Part Number	OD	Max Travel	Weight	Free Length	Rate
PAC-B1x0.63x400	1.700	0.547	0.078	1.000	400
PAC-B1x0.63x500	1.700	0.582	0.072	1.000	500
PAC-B1x0.63x600	1.700	0.606	0.067	1.000	600
PAC-B1x0.63x700	1.700	0.578	0.077	1.000	700
PAC-B1x0.63x800	1.700	0.572	0.080	1.000	800
PAC-B1x0.63x900	1.700	0.549	0.088	1.000	900
PAC-B1x0.63x1000	1.700	0.564	0.085	1.000	1000
PAC-B1x0.63x1200	1.700	0.533	0.097	1.000	1200
PAC-B1x0.63x1400	1.700	0.527	0.101	1.000	1400
PAC-B1x0.63x1600	1.700	0.478	0.120	1.000	1600
PAC-B1x0.63x1800	1.700	0.478	0.122	1.000	1800
PAC-B1x0.63x2000	1.700	0.461	0.130	1.000	2000
PAC-B1x0.63x2200	1.700	0.441	0.138	1.000	2200

SPORTSMAN 2 INCH SERIES

PAC-B2x0.63x400	1.1800	1.230	0.107	2.125	400
PAC-B2x0.63x500	1.1900	1.079	0.136	2.125	500
PAC-B2x0.63x600	1.1900	1.035	0.147	2.125	600
PAC-B2x0.63x700	1.1900	0.997	0.157	2.125	700
PAC-B2x0.63x800	1.1900	0.991	0.161	2.125	800
PAC-B2x0.63x900	1.1900	0.951	0.171	2.125	900
PAC-B2x0.63x1000	1.1800	1.013	0.160	2.125	1000
PAC-B2x0.63x1200	1.1900	0.878	0.191	2.125	1200
PAC-B2x0.63x1400	1.1800	0.896	0.189	2.125	1400
PAC-B2x0.63x1600	1.1800	0.857	0.200	2.125	1600
PAC-B2x0.63x1800	1.1800	0.806	0.213	2.125	1800
PAC-B2x0.63x2000	1.1800	0.791	0.218	2.125	2000




PAC-C274

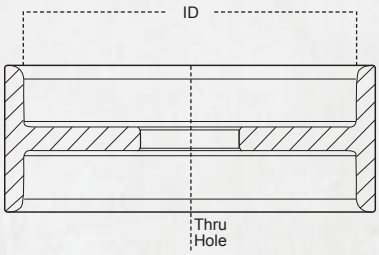

PAC-C240

SINGLE SPRING
Hard Coat Aluminum


PAC-C276


PAC-C246

SINGLE SPRING
Titanium




PAC-C241


PAC-C275

DOUBLE SPRING
Hard Coat Aluminum


PAC-C277


PAC-C247

DOUBLE SPRING
Titanium

1 INCH BUMP SPRING RETAINERS

Part Number	OD	ID	Height	Thru Hole	Material	Type
PAC-C270	1.900	1.705	0.400	0.505	Aluminum	Single Cup
PAC-C271	1.900	1.705	0.750	0.505	Aluminum	Double Cup
PAC-C272	1.900	1.705	0.400	0.505	Titanium	Single Cup
PAC-C273	1.900	1.705	0.750	0.505	Titanium	Double Cup
PAC-C274	1.900	1.705	0.400	0.630	Aluminum	Single Cup
PAC-C275	1.900	1.705	0.750	0.630	Aluminum	Double Cup
PAC-C276	1.900	1.705	0.400	0.630	Titanium	Single Cup
PAC-C277	1.900	1.705	0.750	0.630	Titanium	Double Cup

2 INCH BUMP SPRING RETAINERS

PAC-C240	1.375	1.190	0.500	0.505	Aluminum	Single Cup
PAC-C241	1.375	1.190	0.850	0.505	Aluminum	Double Cup
PAC-C242	1.375	1.190	0.500	0.505	Titanium	Single Cup
PAC-C243	1.375	1.190	0.850	0.505	Titanium	Double Cup
PAC-C244	1.375	1.190	0.500	0.630	Aluminum	Single Cup
PAC-C245	1.375	1.190	0.850	0.630	Aluminum	Double Cup
PAC-C246	1.375	1.190	0.500	0.630	Titanium	Single Cup
PAC-C247	1.375	1.190	0.850	0.630	Titanium	Double Cup

URETHANE BUMP HARDWARE

PAC Racing has worked to develop urethane bump technology that exceeds current standards. Urethane is unique when compared to a steel spring, and can see force loss or force differences when in compression and rebound. We have designed a complete line-up that utilized premium USA made Urethane to resist loss and tested on the same equipment as our suspension springs.Use the Urethane hardware as a high rate bump stop or stack them to get the desired rate curve.

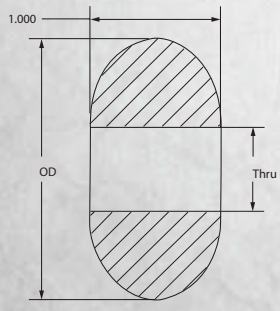
Elliptical Bump Urethane: Offers a uniform rate profile that is considered progressive as the profile closes out.

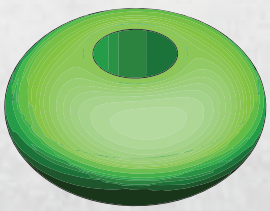
Single Taper Urethane: Offers a rate change once the tapered top is closed out.

Urethane Hardware: Use this hardware to mount and align the urethane hardware to your desired stack setup.

ELLIPSE SHAPE (SKATED)

Part Number	OD	Height	Thru Hole	Shape	Color	Durometer (Ref)	Rate	Max Force Deflection
PAC-BR101	2.00	1.00	0.650	Ellipse	Orange	40	CALL FOR MORE INFORMATION	
PAC-BR102	2.00	1.00	0.650	Ellipse	Black	50		
PAC-BR103	2.00	1.00	0.650	Ellipse	Purple	60		
PAC-BR104	2.00	1.00	0.650	Ellipse	Green	70		
PAC-BR105	2.00	1.00	0.650	Ellipse	Yellow	80		
PAC-BR106	2.00	1.00	0.650	Ellipse	Red	85		

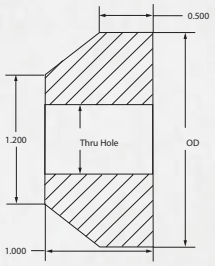


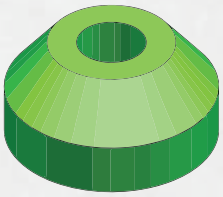


URETHANE BUMP SPRINGS

SINGLE TAPER

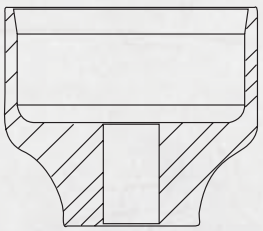
Part Number	OD	Height	Thru Hole	Shape	Color	Durometer (Ref)	Rate	Max Force Deflection
PAC-BR110	2.00	1.00	0.650	Taper Top	Orange	40	CALL FOR MORE INFORMATION	
PAC-BR111	2.00	1.00	0.650	Taper Top	Black	50		
PAC-BR112	2.00	1.00	0.650	Taper Top	Purple	60		
PAC-BR113	2.00	1.00	0.650	Taper Top	Green	70		
PAC-BR114	2.00	1.00	0.650	Taper Top	Yellow	80		
PAC-BR115	2.00	1.00	0.650	Taper Top	Red	85		



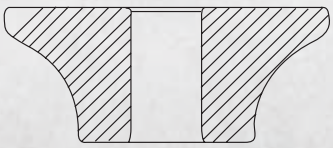


URETHANE BUMP ACCESSORIES

Part Number	OD	Thru Hole	Height	Material	Type
PAC-C280	1.975	0.505	0.100	Aluminum	Washer/Spacer
PAC-C281	1.975	0.630	0.100	Aluminum	Washer/Spacer
PAC-C282	2.300	0.505	2.000	Aluminum	Cup Standoff for Urethane Bumps (All Shapes)
PAC-C283	2.300	0.630	2.000	Aluminum	Cup Standoff for Urethane Bumps (All Shapes)
PAC-C284	2.300	0.505	0.950	Aluminum	Tapered Standoff for Urethane Bumps (All Shapes)
PAC-C285	2.300	0.630	0.950	Aluminum	Tapered Standoff for Urethane Bumps (All Shapes)
PAC-C246	1.375	1.190	0.500	Titanium	Single Cup
PAC-C247	1.375	1.190	0.850	Titanium	Double Cup



PAC-C283



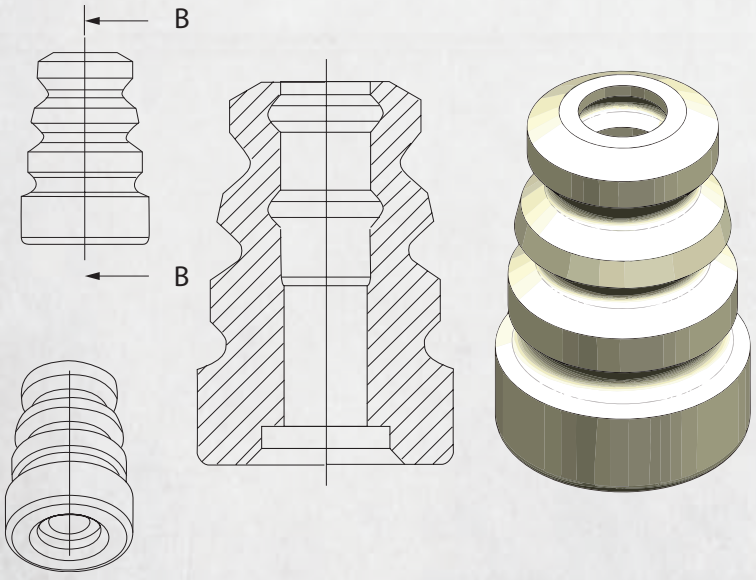
PAC-C284

PAC-C281

URETHANE BUMP SPRINGS

"TREE" SHAPE

Part Number	OD	Height	Thru Hole	Shape	Color	Grams/ CC	Rate	Max Force Deflection
PAC-BTR200	2	3	0.650	3 inch Foam Tree Bump	Black	30	Please call for more information	
PAC-BTR201	2	3	0.650	3 inch Foam Tree Bump	Purple	40		
PAC-BTR202	2	3	0.650	3 inch Foam Tree Bump	Green	60		
PAC-BTR203	2	3	0.650	3 inch Foam Tree Bump	Yellow	80		
PAC-BTR205	2	2	0.650	2 inch Foam Tree Bump	Black	30		
PAC-BTR206	2	2	0.650	2 inch Foam Tree Bump	Purple	40		
PAC-BTR207	2	2	0.650	2 inch Foam Tree Bump	Green	60		
PAC-BTR208	2	2	0.650	2 inch Foam Tree Bump	Yellow	80		

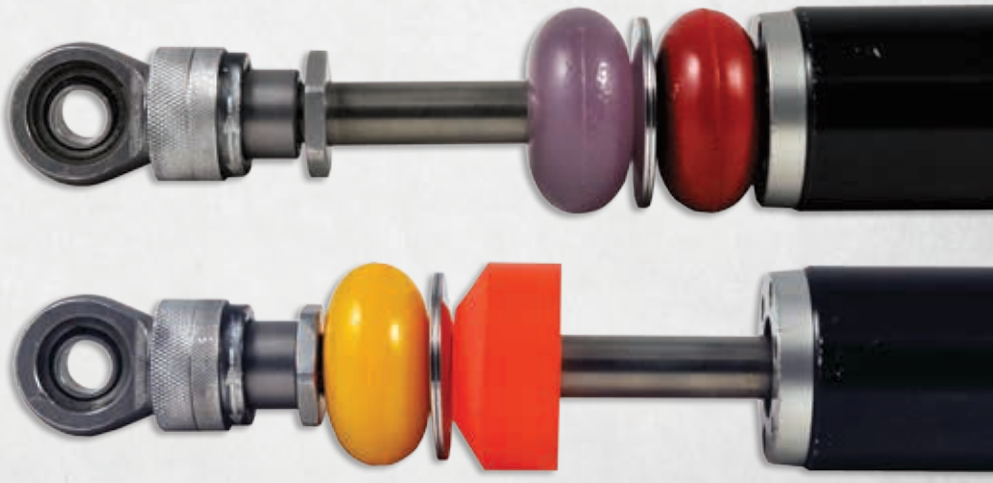


CONICAL WASHERS

- Superior design over hardware store brands and types
- Custom made from PAC Racing spring alloy
- Designed for maximum load retention and fatigue life
- Designed for maximum travel
- Smooth radius and mirror finish
- Tested and proven on PAC Racing test machine
- Custom rates and shapes available

CONICAL WASHERS

Part Number	OD	Thru Hole	Free Length	Thickness	Height @ 100 Lbs	Height @ 400 Lbs	Rate	Travel
PAC-300405-1	1.850	0.640	0.125	0.025				
PAC-300405-2	1.850	0.640	0.125	0.035		Call for more information		
PAC-300405-3	1.850	0.640	0.125	0.045				
PAC-300405-4	1.850	0.640	0.125	0.055	0.110	0.090	15,000 Lbs	0.070
PAC-300405-5	1.850	0.640	0.125	0.065	0.110	0.100	22,000 Lbs	0.060
PAC-300405-6	1.850	0.640	0.125	0.075	0.115	0.105	32,000 Lbs	0.050
PAC-300405-7	1.850	0.640	0.125	0.085	0.115	0.110	45,000 Lbs	0.030



ROD ENDS

FITS FK OFFERS

F1

- LONGEST LIFE IN EXTREME RACING!
- Super tight fit
- Not really able to move the ball by hand.
- Used in suspensions and control arms.
- Over time, it has a chance to burnish in (loosen up) and works very smoothly.

F2

- Tight fit but can still move the ball by hand.
- Used in sway bars and shifters.
- Snug but not over-tight and not usually load bearing.

F3

- As with all Teflon liners, it helps the wear of the rod.
- Promotes longer life due to its self-lubricating properties.

FK ROD ENDS
AUTHORIZED DISTRUBITOR

Left Hand PN	Right Hand PN	Thru Hole	Shank Size	Material	Type
CM SERIES					
CML4	CM4	.25"	1/4-28	Zinc plated steel	Male 2-piece (Economy)
CML5	CM5	.3125"	5/16-24	Zinc plated steel	Male 2-piece (Economy)
CML6	CM6	.375"	3/8-24	Zinc plated steel	Male 2-piece (Economy)
CML7	CM7	.4375"	7/16-20	Zinc plated steel	Male 2-piece (Economy)
CML8	CM8	.500"	1/2-20	Zinc plated steel	Male 2-piece (Economy)
CML10	CM10	.625"	5/8-18	Zinc plated steel	Male 2-piece (Economy)
CML12	CM12	.750"	3/4-16	Zinc plated steel	Male 2-piece (Economy)
CF SERIES					
CFL4	CF4	.25"	1/4-28	Zinc plated steel	Female 2-piece (Economy)
CFL5	CF5	.3125"	5/16-24	Zinc plated steel	Female 2-piece (Economy)
CFL6	CF6	.375"	3/8-24	Zinc plated steel	Female 2-piece (Economy)
CFL7	CF7	.4375"	7/16-20	Zinc plated steel	Female 2-piece (Economy)
CFL8	CF8	.500"	1/2-20	Zinc plated steel	Female 2-piece (Economy)
CFL10	CF10	.625"	5/8-18	Zinc plated steel	Female 2-piece (Economy)
CFL12	CF12	.750"	3/4-16	Zinc plated steel	Female 2-piece (Economy)
CMX SERIES					
CMXL4	CMX4	.25"	1/4-28	Zinc plated steel	Male 2-piece (Premium)
CMXL5	CMX5	.3125"	5/16-24	Zinc plated steel	Male 2-piece (Premium)
CMXL6	CMX6	.375"	3/8-24	Zinc plated steel	Male 2-piece (Premium)
CMXL7	CMX7	.4375"	7/16-20	Zinc plated steel	Male 2-piece (Premium)
CMXL8	CMX8	.500"	1/2-20	Zinc plated steel	Male 2-piece (Premium)
CMXL10	CMX10	.625"	5/8-18	Zinc plated steel	Male 2-piece (Premium)
CMXL12	CMX12	.750"	3/4-16	Zinc plated steel	Male 2-piece (Premium)
JM SERIES					
JML4	JM4	0.25"	1/4-28	Zinc plated steel	Male 3-Piece (economy)
JML5	JM5	0.3125"	5/16-24	Zinc plated steel	Male 3-Piece (economy)
JML6	JM6	0.375"	3/8-24	Zinc plated steel	Male 3-Piece (economy)
JML7	JM7	.4375"	7/16-20	Zinc plated steel	Male 3-Piece (economy)
JML8	JM8	0.5"	1/2-20	Zinc plated steel	Male 3-Piece (economy)
JML10	JM10	0.625"	5/8-18	Zinc plated steel	Male 3-Piece (economy)
JML12	JM12	0.750"	3/4-16	Zinc plated steel	Male 3-Piece (economy)
JMX SERIES					
JMXL4	JMX4	0.25"	1/4-28	Zinc plated steel	Male 3-Piece (premium)
JMXL5	JMX5	0.3125"	5/16-24	Zinc plated steel	Male 3-Piece (premium)
JMXL6	JMX6	0.375"	3/8-24	Zinc plated steel	Male 3-Piece (premium)
JMXL7	JMX7	.4375"	7/16-20	Zinc plated steel	Male 3-Piece (premium)
JMXL8	JMX8	0.5"	1/2-20	Zinc plated steel	Male 3-Piece (premium)
JMXL10	JMX10	0.625"	5/8-18	Zinc plated steel	Male 3-Piece (premium)
JMXL12	JMX12	0.750"	3/4-16	Zinc plated steel	Male 3-Piece (premium)

PAC Sway Bars

How to order:

PAC – SBHS – XX – XX – XX

- SBHS: Material — SBHS-Tomahawk™, SBTi-Titanium
- XX: Spline Count
- XX: Turn Down Dia.
- XX: Overall Length

Example:

PAC – SBHS – 40 – 150 – 40

- 40 Spline Sway Bar
- 1.500 Active Dia.
- 40 inches long

SWAY BAR PAC ADVANTAGE

PAC Racing Springs is a stand alone division of Peterson Spring which has been in business for over 100 years. **Peterson Spring is the largest family owned and privately held spring company in the United States.** While PAC Racing Springs specializes in valve springs, we have developed a substantial suspension spring product line, this product utilizes our technology from valve springs. PAC Racing Springs has world class engineering, materials, testing, manufacturing, and distribution systems that will react to your needs.

WHY ARE PAC RACING SWAY BARS BETTER?

We demand the highest technology and best performance from our products-we work very diligently ensuring our designs, materials, and processing withstand all performance requirements. **Years of experience in high stressed valve springs and race engines, provides understanding on what it takes to manufacture a lighter, better performing sway bar.**

We validate these claims by testing the competition in our Dynamics Laboratory, setting baseline standards to exceed current sag (load loss), spring weight, and fatigue life. Cost is always a factor and with being a division of Peterson Spring, it allows for our metallurgists to demand the highest strength alloys, while leveraging our suppliers to meet market price demands.

- FK Rod Ends were selected because they cater to high stress racing applications. All rod ends are made in the USA, the way it should be!

- ARP Racing Products fasteners were also selected for their high performance reputation. If you race, you should be using ARP hardware to get you to the finish line.

PAC QUALITY

- 5 Year limited warranty
- 30-40% stronger than 300M

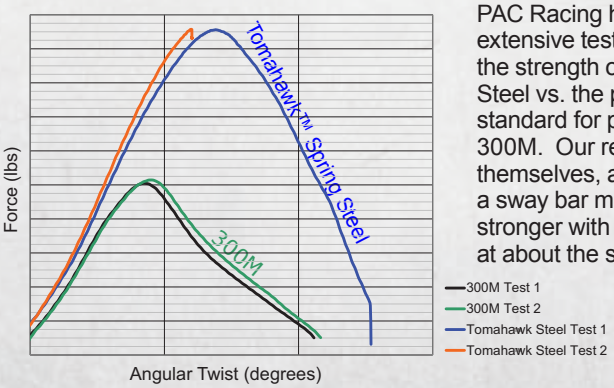
WHY DO WE POWDERCOAT?

- We coat sway bars to prevent rust - rust pitting could cause bar failure.
- Better coating than paint with improved corrosion resistance - longer life.
- Thicker coating without runs or sags.
- Practically no waste from overspray.
- Less VOC's transmitted to environment - more environmentally friendly.

NEW BAR WITH POWDERCOAT

UNCOATED BAR AFTER ONE YEAR OF RACING

TOMAHAWK™ SPRING STEEL 30-40% BETTER ULTIMATE TENSILE STRENGTH (UTS)



PAC Racing has performed extensive testing evaluating the strength of Tomahawk™ Steel vs. the previous industry standard for performance: 300M. Our results speak for themselves, and we provide a sway bar material that is stronger with better fatigue life at about the same cost!

All Sway Bars come with thread for cap

45 SPLINE

1.900 Major Dia.
1.850 Max Active
Special Order

40 SPLINE

1.750 Major Dia.
1.625 Max Active
Special Order

35 SPLINE

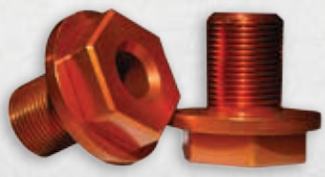
1.500 Major Dia.
1.375 Max Active

28 SPLINE

1.200 Major Dia.
1.100 Max Active

GUN DRILL

Option available
35 thru 45 Spline
Special Order



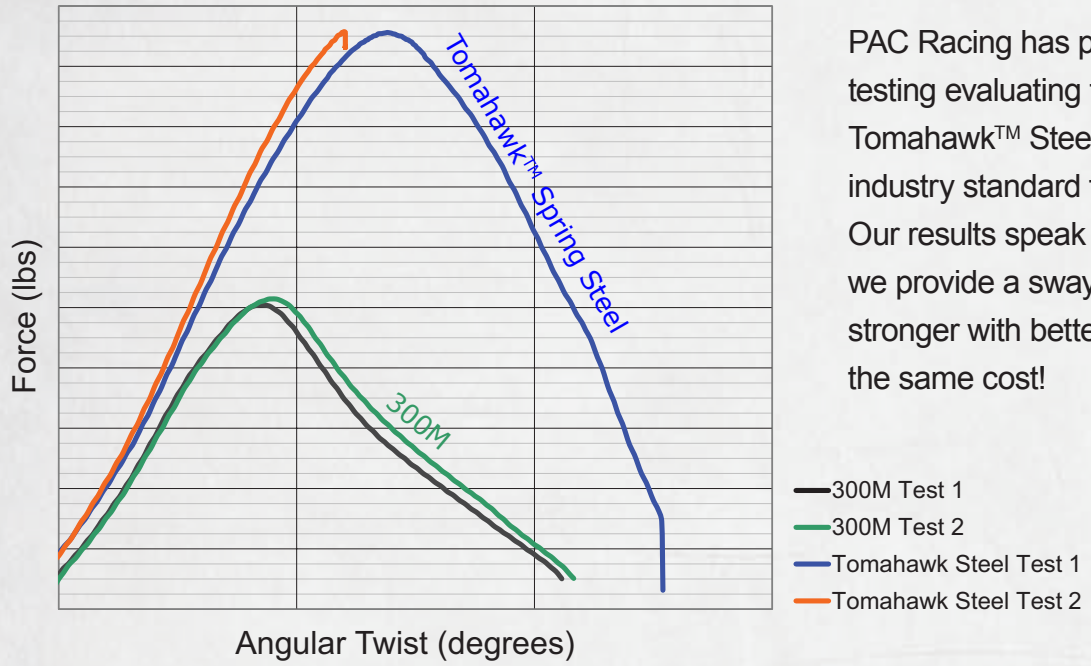
Gun Drilled Retainment Washer

Standard Retainment Washer

Why PAC Racing?

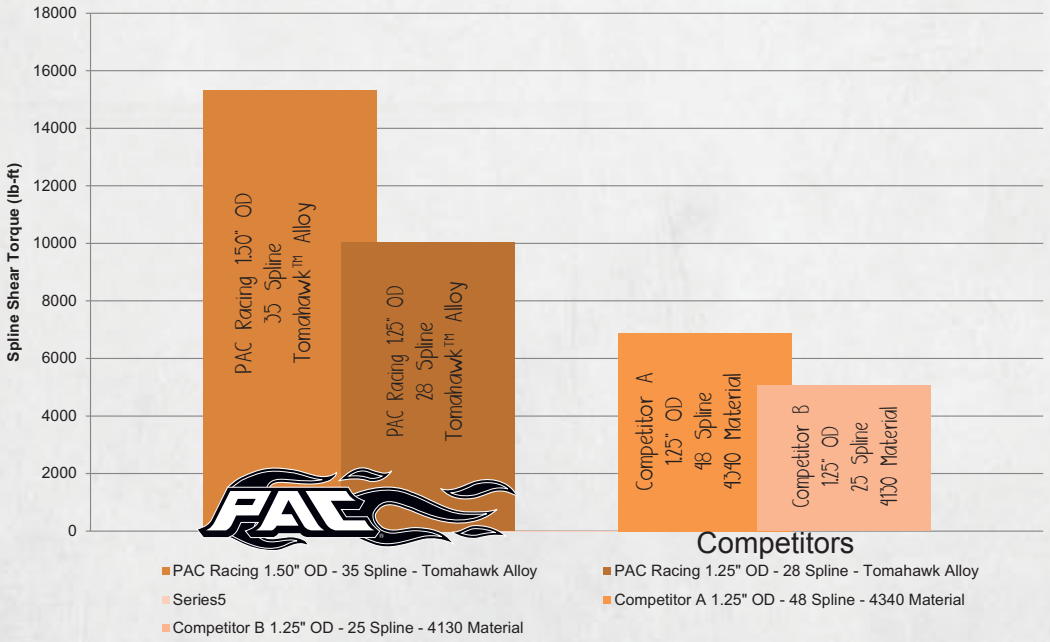
...because the facts don't lie

Tomahawk™ Spring Steel 30-40% Better Ultimate Tensile Strength (UTS)



PAC Racing has performed extensive testing evaluating the strength of Tomahawk™ Steel vs. the previous industry standard for performance: 300M. Our results speak for themselves, and we provide a sway bar material that is stronger with better fatigue life at about the same cost!

Sway Bar Spline Interface Comparison



PAC Racing has also designed a superior spline interface compared to the competition. The count and geometry of the splines is only a small part of the picture, as material (Tomahawk™ is stronger), spline length, and the clamping force all contribute to increasing the Spline Shear Torque. Because our shear torque is greater, we can safely run aluminum arms without risk of stripping out the splines.

SWAY BAR ARMS & ACCESSORIES

100 SERIES LINK ARM BLANKS

For the builder/fabricator not interested in a spherical bearing connection to the radius rod, we also stock the same machined link arms with a blank end so you can drill your own holes or design an end condition specific for your application. The steel arms have the same pocketed body as the SLA100-104's.

Part Number	Length Range	Spline Count	Material	Overall Length
ALUMINUM				
PAC-ALA105	9" - 13.5"	28	6061-T6, Anodized Black, Blank End	16.25”
PAC-ALA106	12" - 16.5"	28		19.25”
PAC-ALA107	15" - 19.5"	28		22.25”
PAC-ALA108	18" - 22.5"	28		25.25”
PAC-ALA109	21" - 25.5"	28		28.25”
PAC-ALA115	9" - 13.5"	35		16.25”
PAC-ALA116	12" - 16.5"	35		19.25”
PAC-ALA117	15" - 19.5"	35		22.25”
PAC-ALA118	18" - 22.5"	35		25.25”
PAC-ALA119	21" - 25.5"	35		28.25”

Any of these arms can be upgraded to 7075 aluminum, call for pricing.

STEEL				
PAC-SLA105	11"-13.75"	28	1018 Steel, Blank End, Pocketed Body	16.25”
PAC-SLA106	14"-16.75"	28		19.25”
PAC-SLA107	17"-19.75"	28		22.25”
PAC-SLA108	20"-22.75"	28		25.25”
PAC-SLA109	23"-25.75"	28		28.25”
PAC-SLA115	11"-13.75"	35		16.25”
PAC-SLA116	14"-16.75"	35		19.25”
PAC-SLA117	17"-19.75"	35		22.25”
PAC-SLA118	20"-22.75"	35		25.25”
PAC-SLA119	23"-25.75"	35		28.25”

Part Number includes spherical bearing and retaining ring. Also includes a premium ARP 7/16" bolt and ARP locknut to clamp down on the splines.

■ = WARNING DO NOT USE FOR 30”-35” @ 1.250 ACTIVE DIAMETER BARS

ROUND WELD INSERT

Part Number	Spline Configuration	Dimensions
PAC-300308	28 Spline	2.00" OD x 1.50" wide
PAC- 300309	35 Spline	2.00" OD x 1.50" wide
PAC-300310	40 Spline	2.00" OD x 1.50" wide

PAC-300308

SEE PAGE 21 FOR ROD END INFO

300 SERIES STEEL ARM SIDES

These parts fit with either of the round weld inserts. Includes a hex cap screw, jam top lock nut, and 2 washers for bolting a PAC-300329 rod end in place.

Part Number	Dimension A (length range)	Overall Length	Dimension B (Thickness)	Dimension C (Insert Cutout)
1/8" wall thickness side plates in stock				
PAC-SLA300	9" - 14"	16.25”	.125"	2.00"
PAC-SLA301	12" - 17"	19.25”	.125"	2.00"
PAC-SLA302	15" - 20"	22.25”	.125"	2.00"
PAC-SLA303	18" - 23"	25.25”	.125"	2.00"
PAC-SLA304	21" - 26"	28.25”	.125"	2.00"
3/16" wall thickness side plates in stock				
PAC-SLA305	9" - 14"	16.25”	.187"	2.00"
PAC-SLA306	12" - 17"	19.25”	.187"	2.00"
PAC-SLA307	15" - 20"	22.25”	.187"	2.00"
PAC-SLA308	18" - 23"	25.25”	.187"	2.00"
PAC-SLA309	21" - 26"	28.25”	.187"	2.00"

SPLINE CLAMP TUBE

We have selected and cut to length a tube that can be welded directly to the front of the arm for clamping down on the splines. It has a radius cut out which fits into the PAC- 300308 or PAC- 300309 OD.

3” length can be used for the 35 spline or 28 spline application. Purchase of the tube comes with a 7/16” ARP bolt and ARP top lock nut.

Part Number	Length	OD	ID
PAC-300339	3.00"	.937"	.500"

SWAY BAR BUSHINGS

TO FIT YOUR APPLICATION

MOUNTING

Mounting of your Sway Bar can be done a variety of ways. By far the most popular is mounting inside a chassis tube. We stock all sizes of nylon bushings listed below to press inside commonly used 1.75" and 2" chassis tubes (bushings are sized .002" over the nominal ID of tubing). We offer 4 different shoulder thickness to take up any slack that will result if mounting tube length is not a whole number.

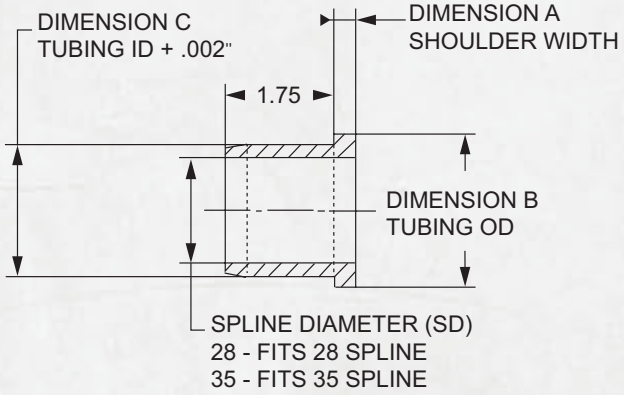
PART NUMBERING:

300303 – X – SD

- X: Specifies which size tubing the bushing presses inside
- SD: Spline Diameter — 28 - fits a 28 Spline Sway Bar; 35 - fits a 35 Spline Sway Bar

STANDARD LENGTH BUSHING

(300302-X-SD)



0.250" SHOULDER BUSHING

(for use with mounting tube lengths that are whole numbers, eg. 30", etc.)

Part Number	Dimension A Shoulder Thickness	Dimension B Tubing OD	Dimension C Tubing ID +.002	Tubing Wall Thickness (REF)
FOR USE WITH 28 SPLINE SWAY BARS ONLY				
PAC-300302-1-28	0.25	1.75	1.622	0.065
PAC-300302-2-28	0.25	1.75	1.586	0.083
PAC-300302-3-28	0.25	1.75	1.562	0.095
PAC-300302-4-28	0.25	1.75	1.534	0.109
PAC-300302-5-28	**0.25**	**1.75**	**1.512**	**0.120**
PAC-300302-6-28	**0.25**	**1.75**	**1.502**	**0.125**
PAC-300302-7-28	0.25	1.75	1.484	0.134
FOR USE WITH BOTH 28 SPLINE AND 35 SPLINE (Please specify when ordering)				
PAC-300302-8-SD	0.25	2.00	1.872	0.065
PAC-300302-9-SD	0.25	2.00	1.736	0.083
PAC-300302-10-SD	0.25	2.00	1.812	0.095
PAC-300302-11-SD	0.25	2.00	1.784	0.109
PAC-300302-12-SD	**0.25**	**2.00**	**1.762**	**0.120**
PAC-300302-13-SD	**0.25**	**2.00**	**1.752**	**0.125**
PAC-300302-14-SD	0.25	2.00	1.734	0.134

***Bold** type denotes most common tubing size

0.375" SHOULDER BUSHING

(for use with mounting tube lengths that are 0.75" over a whole number, eg. 30.75")

Part Number	Dimension A Shoulder Thickness	Dimension B Tubing OD	Dimension C Tubing ID +.002	Tubing Wall Thickness (REF)
FOR USE WITH 28 SPLINE SWAY BARS ONLY				
PAC-300303-1-28	0.375	1.75	1.622	0.065
PAC-300303-2-28	0.375	1.75	1.586	0.083
PAC-300303-3-28	0.375	1.75	1.562	0.095
PAC-300303-4-28	0.375	1.75	1.534	0.109
PAC-300303-5-28	**0.375**	**1.75**	**1.512**	**0.120**
PAC-300303-6-28	**0.375**	**1.75**	**1.502**	**0.125**
PAC-300303-7-28	0.375	1.75	1.484	0.134
FOR USE WITH BOTH 28 SPLINE AND 35 SPLINE (Please specify when ordering)				
PAC-300303-8-SD	0.375	2.00	1.872	0.065
PAC-300303-9-SD	0.375	2.00	1.736	0.083
PAC-300303-10-SD	0.375	2.00	1.812	0.095
PAC-300303-11-SD	0.375	2.00	1.784	0.109
PAC-300303-12-SD	**0.375**	**2.00**	**1.762**	**0.120**
PAC-300303-13-SD	**0.375**	**2.00**	**1.752**	**0.125**
PAC-300303-14-SD	0.375	2.00	1.734	0.134

***Bold** type denotes most common tubing size

0.500" SHOULDER BUSHING

(for use with mounting tube lengths that are 0.50" over a whole number, eg. 30.50")

Part Number	Dimension A Shoulder Thickness	Dimension B Tubing OD	Dimension C Tubing ID +.002	Tubing Wall Thickness (REF)
FOR USE WITH 28 SPLINE SWAY BARS ONLY				
PAC-300304-1-28	0.500	1.75	1.622	0.065
PAC-300304-2-28	0.500	1.75	1.586	0.083
PAC-300304-3-28	0.500	1.75	1.562	0.095
PAC-300304-4-28	0.500	1.75	1.534	0.109
PAC-300304-5-28	**0.500**	**1.75**	**1.512**	**0.120**
PAC-300304-6-28	**0.500**	**1.75**	**1.502**	**0.125**
PAC-300304-7-28	0.500	1.75	1.484	0.134
FOR USE WITH BOTH 28 SPLINE AND 35 SPLINE (Please specify when ordering)				
PAC-300304-8-SD	0.500	2.00	1.872	0.065
PAC-300304-9-SD	0.500	2.00	1.736	0.083
PAC-300304-10-SD	0.500	2.00	1.812	0.095
PAC-300304-11-SD	0.500	2.00	1.784	0.109
PAC-300304-12-SD	**0.500**	**2.00**	**1.762**	**0.120**
PAC-300304-13-SD	**0.500**	**2.00**	**1.752**	**0.125**
PAC-300304-14-SD	0.500	2.00	1.734	0.134

***Bold** type denotes most common tubing size

0.625" SHOULDER BUSHING

(for use with mounting tube lengths that are 0.25" over a whole number, eg. 30.25")

Part Number	Dimension A Shoulder Thickness	Dimension B Tubing OD	Dimension C Tubing ID +.002	Tubing Wall Thickness (REF)
FOR USE WITH 28 SPLINE SWAY BARS ONLY				
PAC-300305-1-28	0.625	1.75	1.622	0.065
PAC-300305-2-28	0.625	1.75	1.586	0.083
PAC-300305-3-28	0.625	1.75	1.562	0.095
PAC-300305-4-28	0.625	1.75	1.534	0.109
PAC-300305-5-28	**0.625**	**1.75**	**1.512**	**0.120**
PAC-300305-6-28	**0.625**	**1.75**	**1.502**	**0.125**
PAC-300305-7-28	0.625	1.75	1.484	0.134
FOR USE WITH BOTH 28 SPLINE AND 35 SPLINE (Please specify when ordering)				
PAC-300305-8-SD	0.625	2.00	1.872	0.065
PAC-300305-9-SD	0.625	2.00	1.736	0.083
PAC-300305-10-SD	0.625	2.00	1.812	0.095
PAC-300305-11-SD	0.625	2.00	1.784	0.109
PAC-300305-12-SD	**0.625**	**2.00**	**1.762**	**0.120**
PAC-300305-13-SD	**0.625**	**2.00**	**1.752**	**0.125**
PAC-300305-14-SD	0.625	2.00	1.734	0.134

***Bold** type denotes most common tubing size

PAC-300302-5-28

PAC-300302-12-28

Bushing installed on sway bar

ROD ENDS SELECTED FOR SWAY BAR APPLICATION

Part Number	Description
PAC-300288R	1/2" Right Hand Regular Rod End, Teflon Lined
PAC-300288L	1/2" Left Hand Regular Rod End, Teflon Lined
PAC-300289R	1/2" Right Hand Premium Rod End, Teflon Lined
PAC-300289L	1/2" Left Hand Premium Rod End, Teflon Lined
PAC-300329	1/2" High Misalignment Rod End, Teflon Lined, Right Hand

ROD ENDS

About Suspension Springs

WE ARE A MANUFACTURER OF SUSPENSION SPRINGS, VALVE SPRINGS, SPRING RETAINER PRODUCTS, SWAY BARS, AND MANY OTHER METAL COMPONENTS

PAC Racing Springs is a stand alone division of Peterson Spring. Peterson Spring has been been producing world class products for over 100 years and is the largest family owned and privately held spring company in the United States.

While PAC Racing Springs specializes in valve springs, we have developed a substantial suspension spring product line which utilizes our technology from valve springs. PAC Racing Springs has world class engineering, materials, testing, manufacturing, and distribution systems that strives to your needs.

WHY ARE PAC RACING SPRINGS BETTER?

We demand the highest technology and best performance from our products. We work diligently to ensure our designs, materials, and processes withstand all performance requirements. Years of experience in high stressed valve springs and race engines provides understanding on what it takes to manufacture a lighter, better performing suspension spring.

We validate these claims by testing the competition in our dynamics laboratory, setting baseline standards to exceed current sag (load loss), spring weight, and fatigue life.

Cost is always a factor and with being a division of Peterson Spring, it allows for our metallurgists to demand the highest strength alloys, while leveraging our suppliers to meet market price demands.

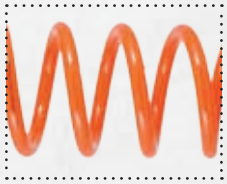
PAC RACING SPRINGS HAS MANY MATERIAL OPTIONS

- Super High Tensile Chrome Silicon + Alloy
- Aerospace High Tensile Steels
- Titanium
- Wire sizes from 0.008 up to 1.250 Diameter!

RacingSprings.com

Powder Coat & Identification Options

STANDARD COLORS


Orange

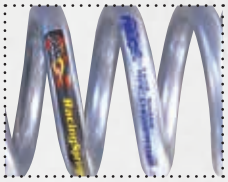

Silver


Black

OPTIONAL COLORS


Blue

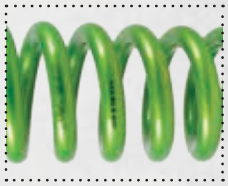

Red


Near Chrome

{ Additional charge of $5.00 per spring }

ADDITIONAL STOCKED COLORS


Rust Brown


Sparkle Green


Bomber Sparkle Orange

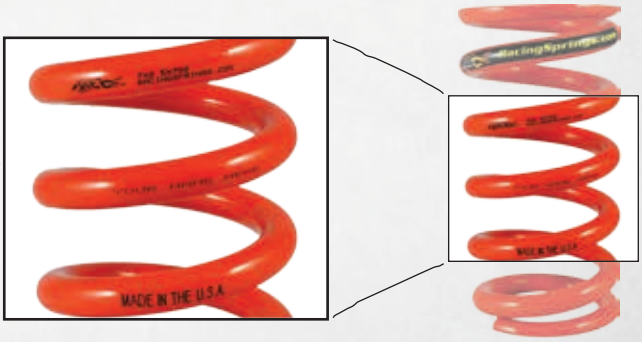
{ Additional charge of $10.00 per spring }

CUSTOM COLORS AND PANTONES AVAILABLE TO MATCH YOUR APPLICATION

Additional charge of $25.00 per spring
Setup charge of $35.00

CUSTOM INKJET LABELING

Add any label to your coil spring:
Part numbers, team names, batch and date codes



SPRING ACCESSORIES

COIL WRAPS

Part Number		Size	Description
PAC-CW10	10”	Fits 2.5 and 3.0 ID Coil springs	10 Inch Ballistic Nylon Spring Cover Universal Spring Diameter Sizing
PAC-CW12	12”	Fits 2.5 and 3.0 ID Coil springs	12 Inch Ballistic Nylon Spring Cover Universal Spring Diameter Sizing
PAC-CW14	14”	Fits 2.5 and 3.0 ID Coil springs	14 Inch Ballistic Nylon Spring Cover Universal Spring Diameter Sizing
PAC-CW16	16”	Fits 2.5 and 3.0 ID Coil springs	16 Inch Ballistic Nylon Spring Cover Universal Spring Diameter Sizing
PAC-CW18	18”	Fits 2.5 and 3.0 ID Coil springs	18 Inch Ballistic Nylon Spring Cover Universal Spring Diameter Sizing
PAC-CW20	20”	Fits 2.5 and 3.0 ID Coil springs	20 Inch Ballistic Nylon Spring Cover Universal Spring Diameter Sizing
PAC-CW22	22”	Fits 2.5 and 3.0 ID Coil springs	22 Inch Ballistic Nylon Spring Cover Universal Spring Diameter Sizing
PAC-CW24	24”	Fits 2.5 and 3.0 ID Coil springs	24 Inch Ballistic Nylon Spring Cover Universal Spring Diameter Sizing
PAC-CW26	26”	Fits 2.5 and 3.0 ID Coil springs	26 Inch Ballistic Nylon Spring Cover Universal Spring Diameter Sizing
PAC-CW28	28”	Fits 2.5 and 3.0 ID Coil springs	28 Inch Ballistic Nylon Spring Cover Universal Spring Diameter Sizing
PAC-CW30	30”	Fits 2.5 and 3.0 ID Coil springs	30 Inch Ballistic Nylon Spring Cover Universal Spring Diameter Sizing
PAC-CW32	32”	Fits 2.5 and 3.0 ID Coil springs	32 Inch Ballistic Nylon Spring Cover Universal Spring Diameter Sizing

SUSPENSION SPRING COVERS

- MANUFACTURED FROM MILITARY BALLISTIC NYLON
- DURABLE HIGH STRENGTH CONSTRUCTION
- HOOK AND LOOP ENCLOSURE

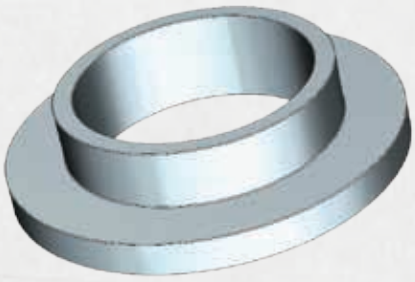
NEEDLE ROLLER THRUST BEARINGS

WITH 2 WASHERS

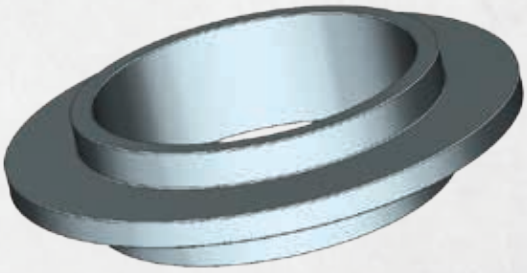
Part Number	ID	OD	Type	Bearing Thickness	Washer Thickness
PAC-TB01	2.50	3.14	Needle Thrust Bearing and Standard Washer	0.157	0.032
PAC-TB02	3.00	3.74	Needle Thrust Bearing and Standard Washer	0.157	0.032
PAC-TB03	3.85	5.00	Needle Thrust Bearing and Standard Washer	0.157	0.032
PAC-TB04	2.50	3.50	Thick Stainless Steel Washer	-	0.100
PAC-TB05	3.00	4.00	Thick Stainless Steel Washer	-	0.100

2.5 TO 3.0 SPRING ADAPTER

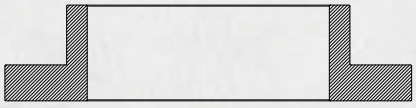
Part Number	Spring Size (in)	Perch Thickness (in)	Type
PAC-300412	3.00	0.375	Hard Anodize Aluminum
PAC-300413	3.00	0.250	Zinc Plated Steel

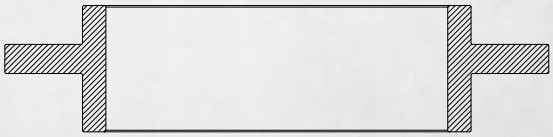


2.5-3.0 Springs Adapter



Helper Spring Slider





SHOCK ACCESSORIES

SPRING SLIDERS

CIRCLE TRACK

Part Number	Spring Size (in)	Inside Dia (in)	Application	Design Type
PAC-200-101	2.50	2.200	2.0 Ohlins	Nylon Center Body with Spun Shield
PAC-200-102	2.50	2.106	2.0 Penske	Nylon Center Body with Spun Shield
PAC-200-103	2.50	2.184	2.0 Afco	Nylon Center Body with Spun Shield
PAC-200-104	2.50	2.014	2.0 Integra	Nylon Center Body with Spun Shield

HELPER SPRING SHOCK SLIDERS

OFF-ROAD

Part Number	Spring Size (in)	Inside Dia (in)	Application	Design Type
PAC-800-201	2.50	2.120	2.0 Fox / Sway Away	Solid Aluminum
PAC-800-202	2.50	2.030	2.0 King	Solid Aluminum
PAC-800-203	3.00	2.580	3.0 Fox / King / Sway Away	Solid Aluminum
PAC-800-205	3.00	2.060	2.0 Bilstein	Solid Aluminum
PAC-800-206	2.50	2.630	2.5 Bilstein	Solid Aluminum

CIRCLE TRACK

Part Number	Spring Size (in)	Inside Dia (in)	Application	Design Type	Coating Type
PAC-200-201	2.50	2.200	2.0 Ohlins	Solid Aluminum	Hard Anodize
PAC-200-202	2.50	2.106	2.0 Penske	Solid Aluminum	Hard Anodize
PAC-200-203	2.50	2.184	2.0 Afco	Solid Aluminum	Hard Anodize
PAC-200-204	2.50	2.014	2.0 Integra	Solid Aluminum	Hard Anodize

FLAT WIRE HELPER SPRINGS

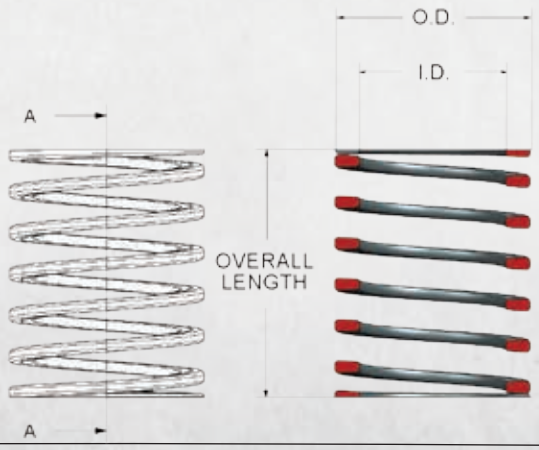
FLAT WIRE SPRINGS (PAC-FW SERIES)

These have been known as “Tender Springs” or “Helper Springs” and are traditionally used in conjunction with dual rate coil over shock springs. These are designed to be used when your spring stack does not have enough pre load for the full extension of the shock. These will allow for full extension of the shock without losing your coil spring buckets or retainers.

PAC Racing Springs designed these springs using high tensile keystone shape wire, allowing for an even stress distribution on the wire. These are designed to be run at bind height without losing free-length, and are designed to withstand many cycles of compression and extension.

If you would like to know more about flat or shaped wire springs or have an inquiry about a custom wire shape for your application, please let us know.

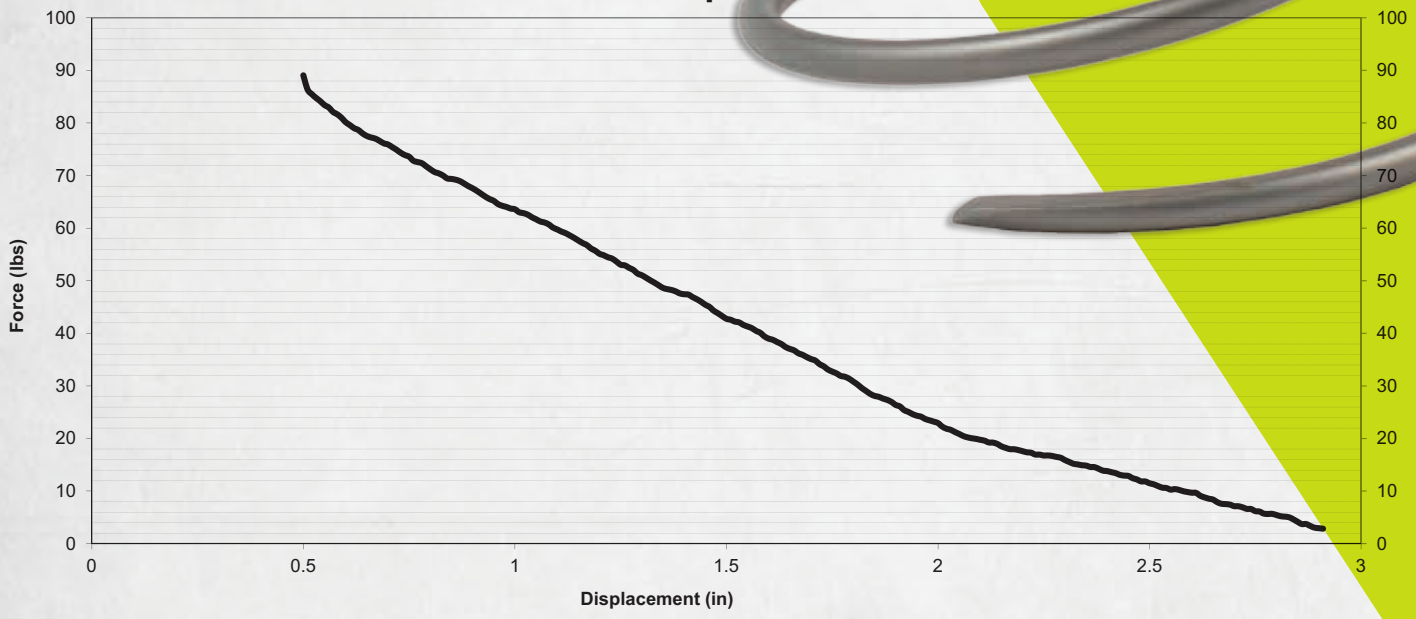
Part Number	Nominal Free Length		Nominal Inside Diameter		Spring Rate		Load @ Coil Bind		Coil Bind Height		Free Length to Coil Bind Travel		Spring Weight	
	(in)	(mm)	(in)	(mm)	(lbs/ in)	(kg/ mm)	(lbs)	(kg)	(in)	(mm)	(in)	(mm)	(lbs)	(kg)
1 Inch Tall Helper Springs														
PAC-FW-1x2.0x84	1.21	30.73	2.03	51.56	74	1.32	58	26	0.424	10.77	0.786	19.96	0.19	0.09
PAC-FW-1x2.25x84	1.21	30.73	2.28	57.91	84	1.50	44	20	0.688	17.48	0.522	13.26	0.34	0.15
PAC-FW-1x2.5x84	1.21	30.73	2.53	64.26	84	1.50	51	23	0.600	15.24	0.610	15.49	0.33	0.15
2 Inch Tall Helper Springs														
PAC-FW-2x2.0x104	2.00	50.80	2.04	51.69	104	1.86	121	55	0.828	21.03	1.172	29.77	0.49	0.22
PAC-FW-2x2.25x104	2.00	50.80	2.28	57.79	104	1.86	135	61	0.700	17.78	1.300	33.02	0.45	0.20
PAC-FW-2x2.5x104	2.00	50.80	2.53	64.26	115	2.05	105	48	1.085	27.56	0.915	23.24	0.78	0.35
3 Inch Tall Helper Springs														
PAC-FW-3x2.0x15	3.00	76.20	2.00	50.80	15	0.27	35	16	0.693	17.60	2.307	58.60	0.31	0.14
PAC-FW-3x2.0x25	3.00	76.20	2.00	50.80	25	0.45	56	25	0.762	19.35	2.238	56.85	0.34	0.15
PAC-FW-3x2.5x50	3.00	76.20	2.53	64.26	50	0.89	130	59	0.825	20.96	2.175	55.25	0.58	0.26
PAC-FW-3x3.0x50	3.00	76.20	3.03	76.96	50	0.89	115	52	0.691	17.55	2.309	58.65	0.58	0.26
PAC-FW-3x2.5x128	3.00	76.20	2.53	64.26	128	2.29	253	115	1.020	25.91	1.980	50.29	0.73	0.33
5 Inch Tall Helper Springs														
PAC-FW-5x2.5x25	5.00	127.00	2.53	64.26	25	0.45	85	39	1.600	40.64	3.400	86.36	0.88	0.40
PAC-FW-5x2.5x75	5.00	127.00	2.53	64.26	75	1.34	218	99	2.100	53.34	2.900	73.66	1.50	0.68
PAC-FW-5x3.0x25	5.00	127.00	3.03	76.96	25	0.45	97	44	1.100	27.94	3.900	99.06	0.70	0.32
PAC-FW-5x3.0x75	5.00	127.00	3.03	76.96	75	1.34	273	124	1.350	34.29	3.650	92.71	1.20	0.54
6 Inch Tall Helper Springs														
PAC-FW-6x2.5x5	6.00	152.40	2.53	64.26	5	0.09	34	15	0.517	13.13	5.483	139.27	0.21	0.10



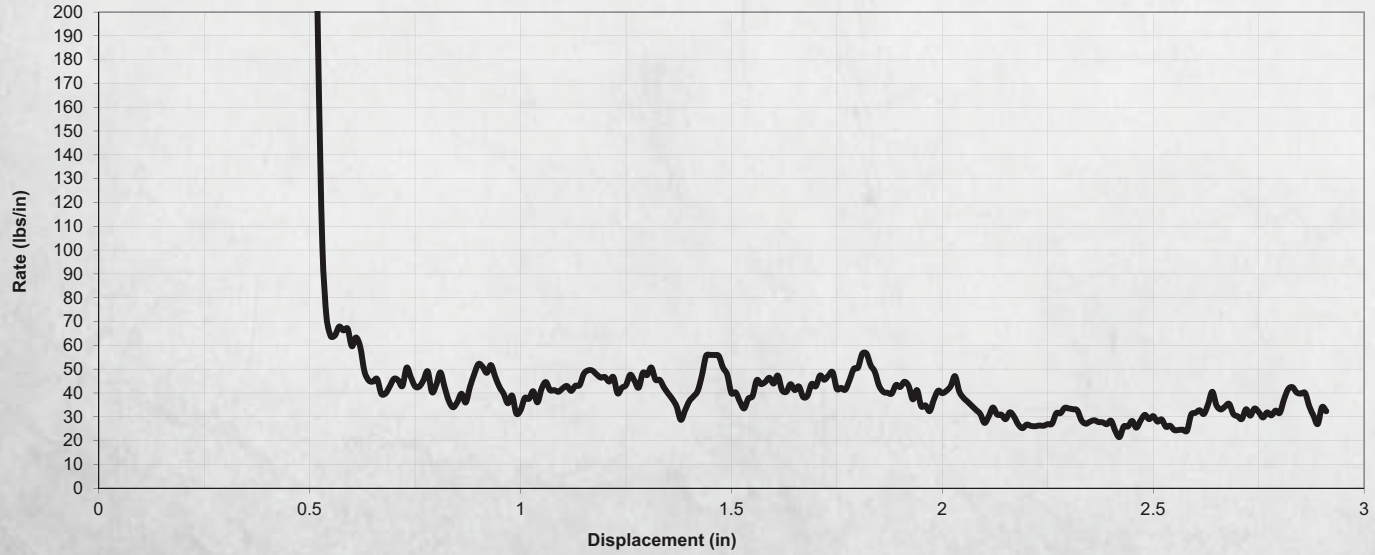
LOCKER SPRINGS

Part Number	Feelength	Linear Rate (2.0" to 0.70")	Solid Height	Coil Direction
PAC-LOC1	2.900	50 lbs/in	0.51	RH
PAC-LOC2	2.900	50 lbs/in	0.51	LH
PAC-LOC3	2.900	75 lbs/in	0.51	RH
PAC-LOC4	2.900	75 lbs/in	0.51	LH
PAC-LOC5	2.900	90 lbs/in	0.51	RH
PAC-LOC6	2.900	90 lbs/in	0.51	LH

Force vs. Displacement

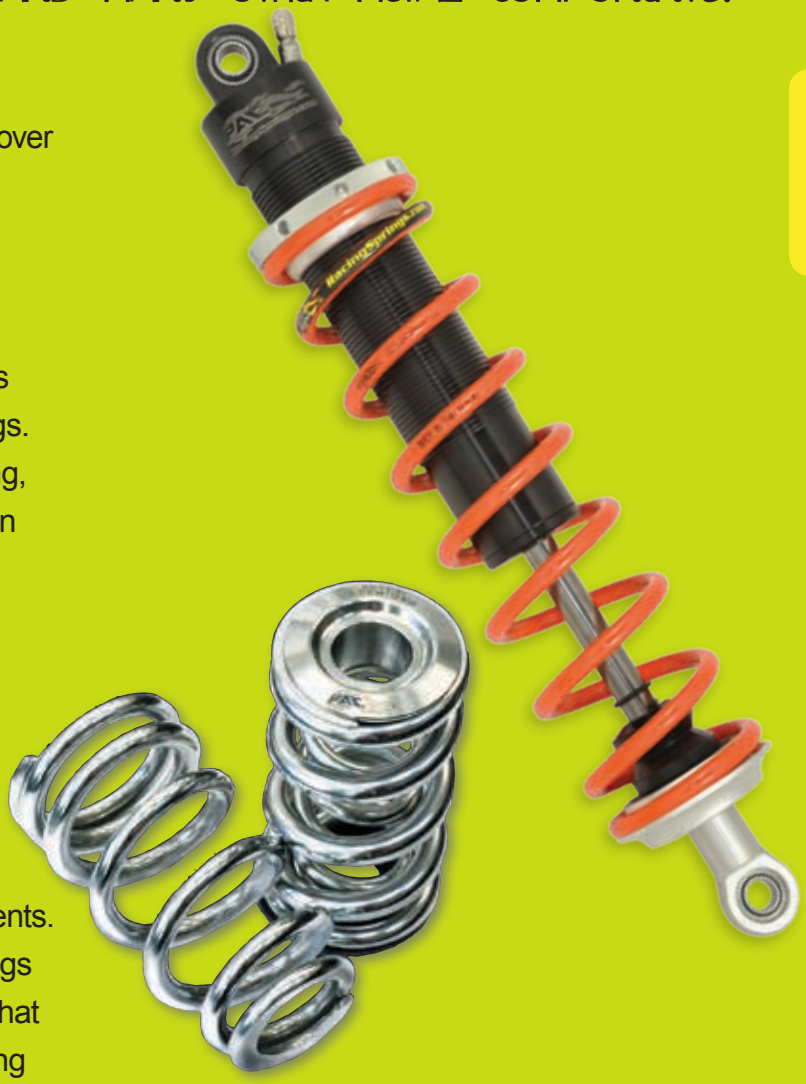


Rate vs. Displacement



COIL OVER SPRINGS

WE ARE A MANUFACTURER OF SUSPENSION SPRINGS, VALVE SPRINGS, SPRING RETAINER PRODUCTS, SWAY BARS, AND MANY OTHER METAL COMPONENTS.



PAC Racing Springs is a stand alone division of Peterson Spring which has been in business for over 100 years. Peterson Spring is the largest family owned and privately held spring company in the United States. While PAC Racing Springs specializes in valve springs, we have developed a substantial suspension spring product line, this product utilizes our technology from valve springs. PAC Racing Springs has world class engineering, materials, testing, manufacturing, and distribution systems that will react to your needs.

WHY ARE PAC RACING SPRINGS BETTER?

We demand the highest technology and best performance from our products-we work very diligently ensuring our designs, materials, and processing withstand all performance requirements. Years of experience in high stressed valve springs and race engines, provides understanding on what it takes to manufacture a lighter, better performing suspension spring.

We validate these claims by testing the competition in our Dynamics Laboratory, setting baseline standards to exceed current sag (load loss), spring weight, and fatigue life. Cost is always a factor and with being a division of Peterson Spring, it allows for our metallurgists to demand the highest strength alloys, while leveraging our suppliers to meet market price demands.

PAC RACING SPRINGS HAS MANY MATERIAL OPTIONS

MATERIALS:

- Super high tensile chrome silicon + alloy
- Aerospace high tensile steels
- Titanium
- Wire sizes from 0.008 up to 1.250 diameter!

Suspension Spring Listings

2.5" ID COIL OVER

Part Number	Nominal Free Length		Nominal Inside Diameter		Spring Rate		Load @ Coil Bind		Coil Bind Height		Free Length to Coil Bind Travel		Spring Weight	
	(in)	(mm)	(in)	(mm)	(lbs/in)	(kg/mm)	(lbs)	(kg)	(in)	(mm)	(in)	(mm)	(lbs)	(kg)
4" TALL														
PAC-4x2.5x400	4.000	102	2.50	64	400	7.1	1042	474	1.395	35	2.605	66	0.95	0.43
PAC-4X2.5X450	4.000	102	2.50	64	450	8.0	1180	536	1.427	36	2.573	65	0.98	0.45
PAC-4x2.5x500	4.000	102	2.50	64	500	8.9	1289	586	1.422	36	2.578	65	0.30	0.14
PAC-4X2.5X650	4.000	102	2.50	64	650	11.6	1633	742	1.537	39	2.463	63	1.21	0.55
5" TALL														
PAC-5x2.5x225	5.000	127	2.50	64	225	4.0	774	352	1.610	41	3.39	86	0.98	0.45
PAC-5x2.5x300	5.000	127	2.50	64	300	5.4	1028	467	1.571	40	3.429	87	1.05	0.48
PAC-5x2.5x350	5.000	127	2.50	64	350	6.2	1030	468	2.058	52	2.942	75	1.59	0.72
PAC-5x2.5x375	5.000	127	2.50	64	375	6.7	1145	521	1.946	49	3.054	78	1.50	0.68
PAC-5x2.5x400	5.000	127	2.50	64	400	7.1	1261	573	1.848	47	3.152	80	1.42	0.65
PAC-5x2.5x425	5.000	127	2.50	64	425	7.6	1376	626	1.762	45	3.238	82	1.35	0.61
PAC-5x2.5x450	5.000	127	2.50	64	450	8.0	1344	611	2.014	51	2.986	76	1.68	0.76
PAC-5x2.5x500	5.000	127	2.50	64	500	8.9	1573	715	1.855	47	3.145	80	1.52	0.69
PAC-5X2.5X650	5.000	127	2.50	64	650	11.6	2012	915	1.955	50	3.045	77	1.71	0.78
6" TALL														
PAC-6x2.5x50	6.000	152	2.50	64	50	0.9	247	112	1.062	27	4.938	125	0.49	0.22
PAC-6x2.5x100	6.000	152	2.50	64	100	1.8	470	214	1.300	33	4.7	119	0.61	0.28
PAC-6x2.5x150	6.000	152	2.50	64	150	2.7	667	303	1.553	39	4.447	113	0.89	0.40
PAC-6x2.5x200	6.000	152	2.50	64	200	3.6	851	387	1.747	44	4.253	108	1.26	0.57
PAC-6x2.5x250	6.000	152	2.50	64	250	4.5	1047	476	1.813	46	4.187	106	1.06	0.48
PAC-6x2.5x300	6.000	152	2.50	64	300	5.4	1224	556	1.920	49	4.08	104	1.21	0.55
PAC-6x2.5x350	6.000	152	2.50	64	350	6.2	1380	627	2.058	52	3.942	100	1.50	0.68
PAC-6x2.5x400	6.000	152	2.50	64	400	7.1	1511	687	2.223	56	3.777	96	1.62	0.74
PAC-6x2.5x450	6.000	152	2.50	64	450	8.0	1707	776	2.207	56	3.793	96	1.70	0.77
PAC-6x2.5x500	6.000	152	2.50	64	500	8.9	1896	862	2.209	56	3.791	96	1.94	0.88
PAC-6x2.5x550	6.000	152	2.50	64	550	9.8	2008	913	2.649	67	3.351	85	2.13	0.97
PAC-6x2.5x600	6.000	152	2.50	64	600	10.7	2171	987	2.381	60	3.619	92	2.49	1.13
PAC-6x2.5x650	6.000	152	2.50	64	650	11.6	2303	1047	2.457	62	3.543	90	2.78	1.26
PAC-6x2.5x700	6.000	152	2.50	64	700	12.5	2474	1124	2.466	63	3.534	90	2.41	1.09
7" TALL														
PAC-7x2.5x100	7.000	178	2.50	64	100	1.8	534	243	1.664	42	5.336	136	0.87	0.39
PAC-7x2.5x150	7.000	178	2.50	64	150	2.7	788	358	1.875	48	5.125	130	0.91	0.41
PAC-7x2.5x175	7.000	178	2.50	64	175	3.1	921	419	1.909	48	5.091	129	1.14	0.52
PAC-7x2.5x200	7.000	178	2.50	64	200	3.6	1010	459	1.919	49	5.0815	129	1.36	0.62
PAC-7x2.5x225	7.000	178	2.50	64	225	4.0	1131	514	2.010	51	4.99	127	1.49	0.68
PAC-7x2.5x250	7.000	178	2.50	64	250	4.5	1247	567	2.270	58	4.73	120	1.68	0.76
PAC-7x2.5x275	7.000	178	2.50	64	275	4.9	1299	590	2.350	60	4.65	118	1.76	0.80
PAC-7x2.5x300	7.000	178	2.50	64	300	5.4	1464	665	2.440	62	4.56	116	1.89	0.86
PAC-7x2.5x325	7.000	178	2.50	64	325	5.8	1564	711	2.470	63	4.53	115	1.94	0.88
PAC-7x2.5x350	7.000	178	2.50	64	350	6.2	1658	754	2.610	66	4.39	112	2.01	0.91
PAC-7x2.5x400	7.000	178	2.50	64	400	7.1	1826	830	2.552	65	4.448	113	2.14	0.97
PAC-7x2.5x450	7.000	178	2.50	64	450	8.0	2065	939	2.840	72	4.16	106	2.26	1.03
PAC-7x2.5x500	7.000	178	2.50	64	500	8.9	2189	995	2.970	75	4.03	102	2.48	1.13
PAC-7x2.5x550	7.000	178	2.50	64	550	9.8	2403	1092	3.210	82	3.79	96	2.86	1.30
PAC-7x2.5x600	7.000	178	2.50	64	600	10.7	2608	1186	3.460	88	3.54	90	3.01	1.37
PAC-7x2.5x650	7.000	178	2.50	64	650	11.6	2661	1210	3.420	87	3.58	91	3.54	1.61

Part Number	Nominal Free Length		Nominal Inside Diameter		Spring Rate		Load @ Coil Bind		Coil Bind Height		Free Length to Coil Bind Travel		Spring Weight	
	(in)	(mm)	(in)	(mm)	(lbs/in)	(kg/mm)	(lbs)	(kg)	(in)	(mm)	(in)	(mm)	(lbs)	(kg)
7" TALL CONT.														
PAC-7x2.5x700	7.000	178	2.50	64	700	12.5	2837	1290	2.947	75	4.053	103	3.87	1.76
PAC-7x2.5x750	7.000	178	2.50	64	750	13.4	3002	1365	2.997	76	4.003	102	4.04	1.84
8" TALL														
PAC-8x2.5x60	8.000	203	2.50	64	60	1.1	395	179	1.645	42	6.355	161	0.820	0.37
PAC-8x2.5x100	8.000	203	2.50	64	100	1.8	585	266	1.530	39	6.47	164	0.970	0.44
PAC-8x2.5x125	8.000	203	2.50	64	125	2.2	776	353	1.790	45	6.21	158	1.020	0.46
PAC-8x2.5x140	8.000	203	2.50	64	140	2.5	861	391	1.940	49	6.06	154	1.570	0.71
PAC-8x2.5x180	8.000	203	2.50	64	180	3.2	1057	481	2.549	65	5.451	138	1.760	0.80
PAC-8x2.5x200	8.000	203	2.50	64	200	3.6	1116	507	2.549	65	5.451	138	2.010	0.91
PAC-8x2.5x220	8.000	203	2.50	64	220	3.9	1214	552	2.810	71	5.19	132	2.130	0.97
PAC-8x2.5x250	8.000	203	2.50	64	250	4.5	1300	591	2.900	74	5.1	130	2.140	0.97
PAC-8x2.5x275	8.000	203	2.50	64	275	4.9	1469	668	2.658	68	5.342	136	2.184	0.99
PAC-8x2.5x300	8.000	203	2.50	64	300	5.4	1627	740	2.734	69	5.266	134	2.230	1.01
PAC-8x2.5x350	8.000	203	2.50	64	350	6.2	1846	839	2.937	75	5.063	129	2.460	1.12
PAC-8x2.5x400	8.000	203	2.50	64	400	7.1	2035	925	3.170	81	4.83	123	2.390	1.09
PAC-8x2.5x450	8.000	203	2.50	64	450	8.0	2193	997	3.248	82	4.752	121	2.560	1.16
PAC-8x2.5x500	8.000	203	2.50	64	500	8.9	2449	1113	3.220	82	4.78	121	2.520	1.15
PAC-8x2.5x550	8.000	203	2.50	64	550	9.8	2695	1225	3.450	88	4.55	116	2.840	1.29
PAC-8x2.5x600	8.000	203	2.50	64	600	10.7	2778	1263	3.370	86	4.63	118	3.571	1.62
PAC-8x2.5x650	8.000	203	2.50	64	650	11.6	2994	1361	3.394	86	4.606	117	3.684	1.67
PAC-8X2.5X700	8.000	203	2.50	64	700	12.5	3249	1477	3.408	87	4.592	117	3.760	1.71
PAC-8X2.5X800	8.000	203	2.50	64	800	14.3	3631	1650	3.501	89	4.499	114	4.060	1.85
PAC-8X2.5X850	8.000	203	2.50	64	850	15.2	3804	1729	3.575	91	4.425	112	4.230	1.92
PAC-8x2.5x1100	8.000	203	2.50	64	1100	19.6	4571	2078	3.845	98	4.155	106	5.184	2.36
PAC-8x2.5x1200	8.000	203	2.50	64	1200	21.4	4516	2053	4.237	108	3.763	96	5.850	2.66
9" TALL														
PAC-9x2.5x60	9.000	229	2.50	64	60	1.1	441	200	1.650	42	7.35	187	0.76	0.34
PAC-9x2.5x100	9.000	229	2.50	64	100	1.8	685	311	2.155	55	6.845	174	1.24	0.56
PAC-9x2.5x140	9.000	229	2.50	64	140	2.5	932	424	2.342	59	6.658	169	1.51	0.68
PAC-9x2.5x180	9.000	229	2.50	64	180	3.2	1143	520	2.010	51	6.99	178	1.96	0.89
PAC-9x2.5x220	9.000	229	2.50	64	220	3.9	1374	625	2.980	76	6.02	153	2.26	1.03
PAC-9x2.5x300	9.000	229	2.50	64	300	5.4	1849	841	3.174	81	5.826	148	2.49	1.13
PAC-9x2.5x350	9.000	229	2.50	64	350	6.2	2104	956	3.425	87	5.5755	142	2.77	1.26
PAC-9x2.5x400	9.000	229	2.50	64	400	7.1	2328	1058	3.428	87	5.572	142	3.25	1.48
PAC-9x2.5x450	9.000	229	2.50	64	450	8.0	2519	1145	3.572	91	5.428	138	3.48	1.58
PAC-9x2.5x550	9.000	229	2.50	64	550	9.8	2949	1341	3.620	92	5.38	137	4.09	1.86
PAC-9x2.5x650	9.000	229	2.50	64	650	11.6	3283	1492	3.371	86	5.629	143	4.86	2.21
10" TALL														
PAC-10x2.5x100	10.000	254	2.50	64	100	1.8	755	343	2.511	64	7.489	190	1.56	0.71
PAC-10x2.5x125	10.000	254	2.50	64	125	2.2	928	422	2.423	62	7.577	192	1.80	0.82
PAC-10x2.5x150	10.000	254	2.50	64	150	2.7	1083	492	2.772	70	7.228	184	1.98	0.90
PAC-10x2.5x175	10.000	254	2.50	64	175	3.1	1220	555	2.792	71	7.208	183	2.01	0.91
PAC-10x2.5x200	10.000	254	2.50	64	200	3.6	1402	637	2.992	76	7.008	178	2.29	1.04
PAC-10x2.5x225	10.000	254	2.50	64	225	4.0	1577	717	3.400	86	6.6	168	2.49	1.13
PAC-10x2.5x250	10.000	254	2.50	64	250	4.5	1746	794	3.489	89	6.511	165	2.90	1.32
PAC-10x2.5x275	10.000	254	2.50	64	275	4.9	1825	829	3.651	93	6.349	161	3.27	1.49
PAC-10x2.5x300	10.000	254	2.50	64	300	5.4	1973	897	3.422	87	6.578	167	3.04	1.38
PAC-10x2.5x325	10.000	254	2.50	64	325	5.8	2008	913	3.703	94	6.297	160	3.34	1.52
PAC-10x2.5x350	10.000	254	2.50	64	350	6.2	2248	1022	3.930	100	6.07	154	3.56	1.62
PAC-10x2.5x375	10.000	254	2.50	64	375	6.7	2373	1079	3.867	98	6.133	156	3.69	1.68
PAC-10x2.5x400	10.000	254	2.50	64	400	7.1	2489	1131	3.989	101	6.011	153	3.64	1.65

2.5 ID COIL OVER

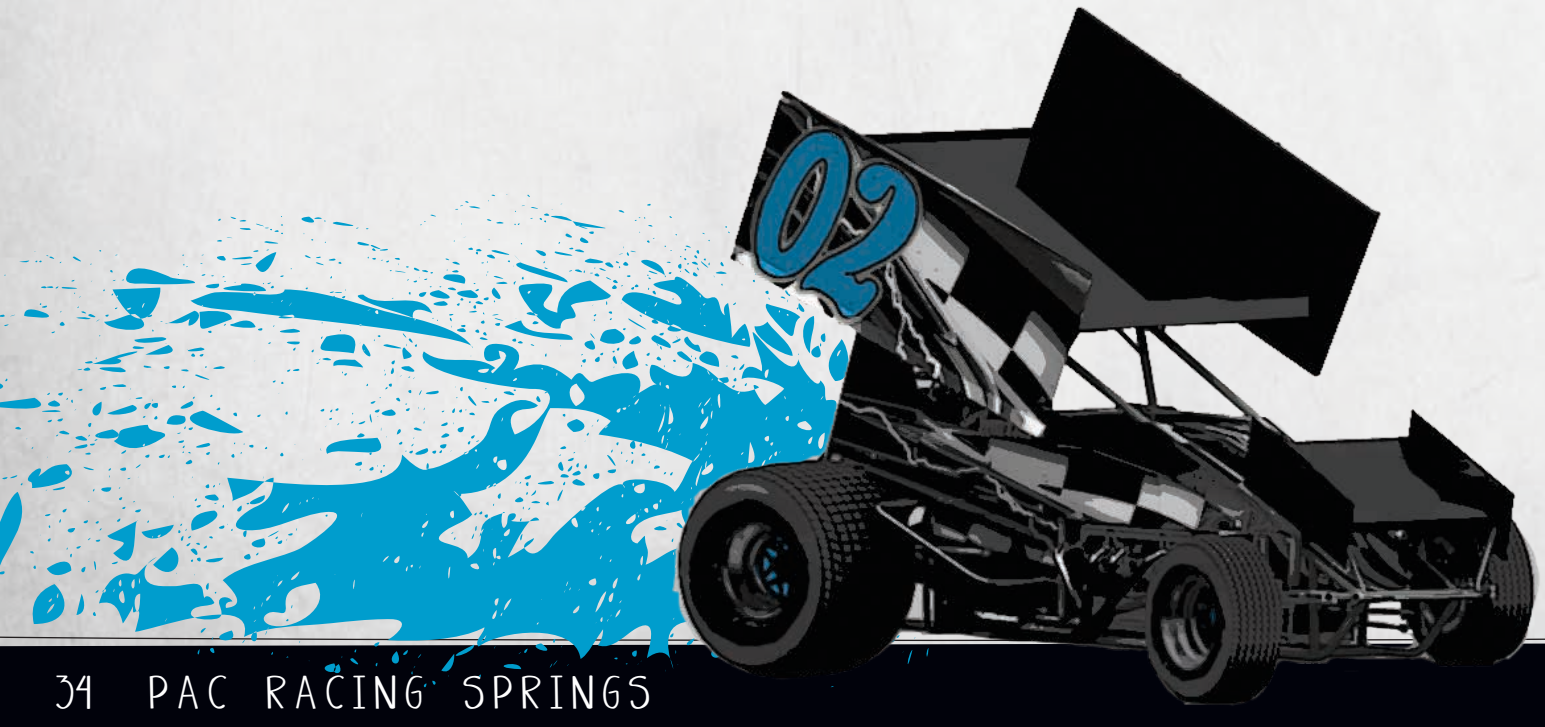
Part Number	Nominal Free Length		Nominal Inside Diameter		Spring Rate		Load @ Coil Bind		Coil Bind Height		Free Length to Coil Bind Travel		Spring Weight	
	(in)	(mm)	(in)	(mm)	(lbs/in)	(kg/mm)	(lbs)	(kg)	(in)	(mm)	(in)	(mm)	(lbs)	(kg)
10" TALL CONT.														
PAC-10x2.5x425	10.000	254	2.50	64	425	7.6	2596	1180	4.302	109	5.698	145	3.92	1.78
PAC-10x2.5x450	10.000	254	2.50	64	450	8.0	2693	1224	4.371	111	5.629	143	4.00	1.82
PAC-10x2.5x500	10.000	254	2.50	64	500	8.9	3020	1373	4.352	111	5.648	143	4.67	2.12
PAC-10x2.5x550	10.000	254	2.50	64	550	9.8	3161	1437	4.650	118	5.35	136	4.84	2.20
PAC-10x2.5x600	10.000	254	2.50	64	600	10.7	3454	1570	4.820	122	5.18	132	4.97	2.26
PAC-10x2.5x650	10.000	254	2.50	64	650	11.6	3735	1698	4.254	108	5.746	146	5.03	2.29
PAC-10x2.5x700	10.000	254	2.50	64	700	12.5	3780	1718	4.600	117	5.4	137	5.65	2.57
PAC-10x2.5x750	10.000	254	2.50	64	750	13.4	4022	1828	4.638	118	5.362	136	5.53	2.51
PAC-10x2.5x800	10.000	254	2.50	64	800	14.3	4250	1932	4.688	119	5.312	135	6.06	2.75
12" TALL														
PAC-12X2.5X60	12.000	305	2.50	64	60	1.07	519	236	3.36	85	8.641	219	1.84	0.84
PAC-12X2.5X70	12.000	305	2.50	64	70	1.25	635	289	2.93	74	9.071	230	1.58	0.72
PAC-12x2.5x80	12.000	305	2.50	64	80	1.4	722	328	3.037	77	8.9635	228	1.87	0.85
PAC-12x2.5x90	12.000	305	2.50	64	90	1.6	806	367	3.098	79	8.902	226	1.91	0.87
PAC-12x2.5x100	12.000	305	2.50	64	100	1.8	886	403	3.103	79	8.897	226	2.06	0.94
PAC-12x2.5x110	12.000	305	2.50	64	110	2.0	963	438	3.220	82	8.78	223	2.11	0.96
PAC-12x2.5x120	12.000	305	2.50	64	120	2.1	1079	490	3.201	81	8.799	223	2.17	0.99
PAC-12x2.5x125	12.000	305	2.50	64	125	2.2	1137	517	3.245	82	8.755	222	2.34	1.06
PAC-12x2.5x130	12.000	305	2.50	64	130	2.3	1151	523	3.385	86	8.6146	219	2.41	1.10
PAC-12x2.5x140	12.000	305	2.50	64	140	2.5	1218	554	3.245	82	8.755	222	2.39	1.08
PAC-12x2.5x150	12.000	305	2.50	64	150	2.7	1280	582	3.415	87	8.585	218	2.66	1.21
PAC-12x2.5x165	12.000	305	2.50	64	165	2.9	1395	634	3.755	95	8.245	209	2.73	1.24
PAC-12x2.5x175	12.000	305	2.50	64	175	3.1	1511	687	3.755	95	8.245	209	3.01	1.37
PAC-12x2.5x185	12.000	305	2.50	64	185	3.3	1562	710	3.604	92	8.3965	213	2.95	1.34
PAC-12x2.5x200	12.000	305	2.50	64	200	3.6	1665	757	3.674	93	8.326	211	3.00	1.37
PAC-12x2.5x225	12.000	305	2.50	64	225	4.0	1794	815	4.124	105	7.8762	200	3.26	1.48
PAC-12x2.5x250	12.000	305	2.50	64	250	4.5	1993	906	4.193	106	7.8075	198	3.71	1.69
PAC-12x2.5x275	12.000	305	2.50	64	275	4.9	2184	993	4.057	103	7.943	202	3.71	1.69
PAC-12x2.5x300	12.000	305	2.50	64	300	5.4	2253	1024	4.490	114	7.51	191	4.34	1.97
PAC-12x2.5x325	12.000	305	2.50	64	325	5.8	2419	1100	4.293	109	7.707	196	4.11	1.87
PAC-12x2.5x350	12.000	305	2.50	64	350	6.2	2576	1171	4.344	110	7.656	194	4.72	2.14
PAC-12x2.5x375	12.000	305	2.50	64	375	6.7	2724	1238	4.560	116	7.44	189	4.94	2.24
PAC-12x2.5x400	12.000	305	2.50	64	400	7.1	3013	1370	4.467	113	7.533	191	4.65	2.11
PAC-12x2.5x425	12.000	305	2.50	64	425	7.6	2987	1358	4.473	114	7.527	191	4.81	2.19
PAC-12x2.5x450	12.000	305	2.50	64	450	8.0	3103	1411	4.698	119	7.302	185	5.12	2.33
PAC-12x2.5x475	12.000	305	2.50	64	475	8.5	3207	1458	4.553	116	7.447	189	5.39	2.45
PAC-12x2.5x500	12.000	305	2.50	64	500	8.9	3497	1589	4.664	118	7.336	186	5.44	2.47
PAC-12x2.5x525	12.000	305	2.50	64	525	9.4	3588	1631	5.165	131	6.835	174	5.86	2.66
PAC-12x2.5x550	12.000	305	2.50	64	550	9.8	3668	1667	5.331	135	6.669	169	6.46	2.94
PAC-12x2.5x575	12.000	305	2.50	64	575	10.3	3734	1697	5.506	140	6.494	165	6.58	2.99
PAC-12x2.5x600	12.000	305	2.50	64	600	10.7	4024	1829	5.294	134	6.706	170	6.87	3.12
PAC-12x2.5x625	12.000	305	2.50	64	625	11.2	4076	1853	5.478	139	6.522	166	7.01	3.19
PAC-12x2.5x650	12.000	305	2.50	64	650	11.6	4365	1984	5.284	134	6.716	171	7.12	3.24
PAC-12x2.5x675	12.000	305	2.50	64	675	12.1	4404	2002	5.476	139	6.524	166	7.25	3.30
PAC-12x2.5x700	12.000	305	2.50	64	700	12.5	4428	2013	5.674	144	6.326	161	7.54	3.43
PAC-12x2.5x750	12.000	305	2.50	64	750	13.4	4726	2148	5.699	145	6.301	160	8.11	3.69

Part Number	Nominal Free Length		Nominal Inside Diameter		Spring Rate		Load @ Coil Bind		Coil Bind Height		Free Length to Coil Bind Travel		Spring Weight	
	(in)	(mm)	(in)	(mm)	(lbs/in)	(kg/mm)	(lbs)	(kg)	(in)	(mm)	(in)	(mm)	(lbs)	(kg)
12" TALL CONT.														
PAC-12x2.5x800	12.000	305	2.50	64	800	14.3	4697	2135	6.129	156	5.871	149	8.81	4.00
PAC-12x2.5x900	12.000	305	2.50	64	900	16.1	5177	2353	6.248	159	5.752	146	9.93	4.51
PAC-12x2.5x1000	12.000	305	2.50	64	1000	17.9	5184	2356	6.816	173	5.184	132	10.81	4.91
14" TALL														
PAC-14X2.5X50	14.000	356	2.50	64	50	0.9	473	215	4.541	115	9.459	240	2.65	1.21
PAC-14X2.5X65	14.000	356	2.50	64	65	1.2	688	313	3.410	87	10.59	269	2.12	0.96
PAC-14x2.5x70	14.000	356	2.50	64	70	1.2	746	339	3.344	85	10.656	271	2.04	0.93
PAC-14x2.5x80	14.000	356	2.50	64	80	1.4	850	386	3.844	98	10.156	258	2.01	0.91
PAC-14x2.5x90	14.000	356	2.50	64	90	1.6	910	414	4.092	104	9.908	252	2.74	1.25
PAC-14x2.5x100	14.000	356	2.50	64	100	1.8	1046	476	3.641	92	10.359	263	2.72	1.24
PAC-14x2.5x110	14.000	356	2.50	64	110	2.0	1089	495	3.822	97	10.178	259	2.83	1.29
PAC-14x2.5x120	14.000	356	2.50	64	120	2.1	1225	557	3.786	96	10.214	259	2.78	1.26
PAC-14x2.5x125	14.000	356	2.50	64	125	2.2	1239	563	3.991	101	10.009	254	2.86	1.30
PAC-14x2.5x130	14.000	356	2.50	64	130	2.3	1307	594	3.893	99	10.107	257	2.91	1.32
PAC-14x2.5x140	14.000	356	2.50	64	140	2.5	1384	629	4.178	106	9.822	249	3.24	1.47
PAC-14x2.5x150	14.000	356	2.50	64	150	2.7	1520	691	4.378	111	9.622	244	3.40	1.55
PAC-14x2.5x165	14.000	356	2.50	64	165	2.9	1588	722	4.373	111	9.627	245	3.59	1.63
PAC-14x2.5x175	14.000	356	2.50	64	175	3.1	1725	784	4.584	116	9.4165	239	3.43	1.56
PAC-14x2.5x185	14.000	356	2.50	64	185	3.3	1783	811	4.727	120	9.273	236	3.56	1.62
PAC-14x2.5x200	14.000	356	2.50	64	200	3.6	1904	865	4.928	125	9.072	230	4.37	1.99
PAC-14x2.5x225	14.000	356	2.50	64	225	4.0	2054	934	5.129	130	8.871	225	4.64	2.11
PAC-14x2.5x250	14.000	356	2.50	64	250	4.5	2288	1040	5.249	133	8.751	222	5.08	2.31
PAC-14x2.5x275	14.000	356	2.50	64	275	4.9	2513	1142	5.582	142	8.418	214	5.75	2.61
PAC-14x2.5x300	14.000	356	2.50	64	300	5.4	2597	1180	5.345	136	8.655	220	5.45	2.48
PAC-14x2.5x325	14.000	356	2.50	64	325	5.8	2794	1270	5.403	137	8.597	218	5.64	2.56
PAC-14x2.5x350	14.000	356	2.50	64	350	6.2	2981	1355	5.766	146	8.234	209	5.74	2.61
PAC-14x2.5x375	14.000	356	2.50	64	375	6.7	3158	1436	5.849	149	8.151	207	5.92	2.69
PAC-14x2.5x400	14.000	356	2.50	64	400	7.1	3324	1511	5.901	150	8.099	206	6.30	2.86
PAC-14x2.5x425	14.000	356	2.50	64	425	7.6	3478	1581	6.104	155	7.896	201	6.57	2.99
PAC-14x2.5x450	14.000	356	2.50	64	450	8.0	3620	1646	6.034	153	7.966	202	6.93	3.15
PAC-14x2.5x475	14.000	356	2.50	64	475	8.5	3750	1705	6.105	155	7.895	201	7.30	3.32
PAC-14x2.5x500	14.000	356	2.50	64	500	8.9	3867	1758	6.267	159	7.733	196	7.56	3.44
PAC-14x2.5x525	14.000	356	2.50	64	525	9.4	4206	1912	5.989	152	8.011	203	8.82	4.01
PAC-14x2.5x550	14.000	356	2.50	64	550	9.8	4059	1845	6.620	168	7.38	187	8.84	4.02
PAC-14x2.5x575	14.000	356	2.50	64	575	10.3	4133	1879	6.812	173	7.188	183	8.98	4.08
PAC-14x2.5x600	14.000	356	2.50	64	600	10.7	4472	2033	6.546	166	7.454	189	8.54	3.88
PAC-14x2.5x625	14.000	356	2.50	64	625	11.2	4532	2060	6.749	171	7.251	184	8.98	4.08
PAC-14x2.5x650	14.000	356	2.50	64	650	11.6	4870	2214	6.507	165	7.493	190	8.66	3.94
PAC-14x2.5x675	14.000	356	2.50	64	675	12.1	4914	2234	6.720	171	7.28	185	9.13	4.15
PAC-14x2.5x700	14.000	356	2.50	64	700	12.5	4941	2246	6.941	176	7.059	179	9.62	4.37
PAC-14x2.5x750	14.000	356	2.50	64	750	13.4	4946	2248	7.406	188	6.594	167	10.67	4.85
PAC-14x2.5x800	14.000	356	2.50	64	800	14.3	5622	2556	6.972	177	7.028	179	10.04	4.56
PAC-14x2.5x900	14.000	356	2.50	64	900	16.1	5831	2651	7.521	191	6.479	165	11.46	5.21
PAC-14x2.5x1000	14.000	356	2.50	64	1000	17.9	5862	2665	8.138	207	5.862	149	13.08	5.95

Suspension Spring Listings

2.5" ID COIL OVER

Part Number	Nominal Free Length		Nominal Inside Diameter		Spring Rate		Load @ Coil Bind		Coil Bind Height		Free Length to Coil Bind Travel		Spring Weight	
	(in)	(mm)	(in)	(mm)	(lbs/in)	(kg/mm)	(lbs)	(kg)	(in)	(mm)	(in)	(mm)	(lbs)	(kg)
16" TALL														
PAC-16x2.5x85	16.000	406	2.50	64	85	2.7	1012	460	4.099	104	11.901	302	2.80	1.27
PAC-16x2.5x100	16.000	406	2.50	64	100	1.8	1098	499	4.688	119	11.312	287	3.64	1.65
PAC-16X2.5X125	16.000	406	2.50	64	125	2.2	1310	596	5.518	140	10.482	266	4.60	2.09
PAC-16x2.5x150	16.000	406	2.50	64	150	2.7	1607	730	4.820	122	11.18	284	4.28	1.95
PAC-16X2.5X175	16.000	406	2.50	64	175	3.1	1749	795	6.001	152	9.9993	254	5.59	2.54
PAC-16x2.5x200	16.000	406	2.50	64	200	3.6	2114	961	4.893	124	11.107	282	5.13	2.33
PAC-16x2.5x225	16.000	406	2.50	64	225	4.0	2160	982	6.452	164	9.548	243	6.38	2.90
PAC-16x2.5x250	16.000	406	2.50	64	250	4.5	2550	1159	4.961	126	11.039	280	6.24	2.84
PAC-16x2.5x300	16.000	406	2.50	64	300	5.4	2902	1319	5.004	127	10.996	279	6.98	3.17
PAC-16x2.5x350	16.000	406	2.50	64	350	6.2	3345	1520	6.443	164	9.557	243	7.23	3.29
PAC-16x2.5x400	16.000	406	2.50	64	400	7.1	3742	1701	6.646	169	9.354	238	7.80	3.55
PAC-16x2.5x450	16.000	406	2.50	64	450	8.0	4088	1858	6.915	176	9.085	231	8.48	3.85
PAC-16x2.5x500	16.000	406	2.50	64	500	8.9	4117	1871	7.767	197	8.233	209	10.14	4.61
PAC-16x2.5x550	16.000	406	2.50	64	550	9.8	4615	2098	7.609	193	8.391	213	10.14	4.61
PAC-16x2.5x600	16.000	406	2.50	64	600	10.7	4787	2176	8.022	204	7.978	203	11.12	5.06
PAC-16X2.5X650	16.000	406	2.50	64	650	11.6	4891	2223	8.475	215	7.525	191	12.12	5.51
PAC-16x2.5x700	16.000	406	2.50	64	700	12.5	4525	2057	9.586	243	6.414	163	14.53	6.60
18" TALL														
PAC-18x2.5x100	18.000	457	2.50	64	100	1.8	1239	563	5.610	142	12.39	315	4.42	2.01
PAC-18x2.5x150	18.000	457	2.50	64	150	2.7	1732	787	6.454	164	11.546	293	5.81	2.64
PAC-18x2.5x200	18.000	457	2.50	64	200	3.6	2170	986	7.152	182	10.848	276	7.14	3.25
PAC-18x2.5x225	18.000	457	2.50	64	225	4.0	2335	1061	7.622	194	10.378	264	7.99	3.63
PAC-18x2.5x250	18.000	457	2.50	64	250	4.5	2623	1192	7.509	191	10.491	266	8.06	3.66
PAC-18x2.5x300	18.000	457	2.50	64	300	5.4	2981	1355	8.064	205	9.936	252	9.27	4.22
PAC-18x2.5x350	18.000	457	2.50	64	350	6.2	3453	1570	8.133	207	9.867	251	9.77	4.44
PAC-18x2.5x400	18.000	457	2.50	64	400	7.1	3874	1761	8.315	211	9.685	246	10.42	4.74
PAC-18x2.5x450	18.000	457	2.50	64	450	8.0	4239	1927	8.581	218	9.419	239	11.21	5.10
PAC-18x2.5x500	18.000	457	2.50	64	500	8.9	4543	2065	8.915	226	9.085	231	12.13	5.51



3.0 ID COIL OVER

Part Number	Nominal Free Length		Nominal Inside Diameter		Spring Rate		Load @ Coil Bind		Coil Bind Height		Free Length to Coil Bind Travel		Spring Weight	
	(in)	(mm)	(in)	(mm)	(lbs/in)	(kg/mm)	(lbs)	(kg)	(in)	(mm)	(in)	(mm)	(lbs)	(kg)
6" TALL														
PAC-6x3x250	6.000	152	3.00	76	250	4.5	1081	491	1.722	44	4.278	109	1.46	0.66
8" TALL														
PAC-8x3x100	8.000	203	3.00	76	100	1.8	654	297	1.458	37	6.542	166	0.95	0.43
PAC-8x3x150	8.000	203	3.00	76	150	2.7	949	432	1.671	42	6.329	161	1.27	0.58
PAC-8x3x200	8.000	203	3.00	76	200	3.6	1158	526	2.209	56	5.791	147	2.01	0.91
PAC-8x3x250	8.000	203	3.00	76	250	4.5	1445	657	2.222	56	5.778	147	2.14	0.97
PAC-8x3x300	8.000	203	3.00	76	300	5.4	1713	779	2.290	58	5.71	145	2.34	1.06
PAC-8x3x350	8.000	203	3.00	76	350	6.2	1904	865	2.560	65	5.44	138	2.86	1.30
10" TALL														
PAC-10x3x80	10.000	254	3.00	76	80	1.4	626	285	2.226	57	7.774	197	1.59	0.72
PAC-10x3x90	10.000	254	3.00	76	90	1.6	699	318	2.288	58	7.712	196	1.69	0.77
PAC-10x3x100	10.000	254	3.00	76	100	1.8	816	371	1.845	47	8.155	207	1.32	0.60
PAC-10x3x150	10.000	254	3.00	76	150	2.7	1118	508	2.545	65	7.455	189	2.27	1.03
PAC-10x3x200	10.000	254	3.00	76	200	3.6	1464	665	2.681	68	7.319	186	2.61	1.19
PAC-10x3x250	10.000	254	3.00	76	250	4.5	1770	804	2.922	74	7.078	180	3.10	1.41
PAC-10X3X325	10.000	254	3.00	76	325	5.8	2202	1001	3.224	82	6.776	172	3.45	1.57
PAC-10X3X800	10.000	254	3.00	76	800	14.3	4834	2197	3.957	101	6.043	153	5.70	2.59
12" TALL														
PAC-12x3x100	12.000	305	3.00	76	100	1.8	939	427	2.606	66	9.394	239	2.12	0.96
PAC-12x3x150	12.000	305	3.00	76	150	2.7	1332	605	3.120	79	8.88	226	2.97	1.35
PAC-12x3x175	12.000	305	3.00	76	175	3.1	1520	691	3.315	84	8.685	221	3.34	1.52
PAC-12x3x200	12.000	305	3.00	76	200	3.6	1752	796	3.240	82	8.76	223	3.35	1.52
PAC-12x3x225	12.000	305	3.00	76	225	4.0	1979	900	3.203	81	8.797	223	3.40	1.55
PAC-12x3x250	12.000	305	3.00	76	250	4.5	2128	967	3.751	95	8.249	210	4.43	2.01
PAC-12x3x275	12.000	305	3.00	76	275	4.9	2339	1063	3.496	89	8.504	216	4.02	1.83
PAC-12x3x300	12.000	305	3.00	76	300	5.4	2354	1070	4.155	106	7.845	199	5.15	2.34
PAC-12x3x350	12.000	305	3.00	76	350	6.2	2715	1234	4.242	108	7.758	197	5.51	2.50
PAC-12x3x400	12.000	305	3.00	76	400	7.1	3046	1385	4.384	111	7.616	193	5.53	2.51
PAC-12x3x450	12.000	305	3.00	76	450	8.0	3344	1520	4.569	116	7.431	189	6.48	2.94
PAC-12x3x500	12.000	305	3.00	76	500	8.9	3606	1639	4.789	122	7.211	183	7.08	3.22
14" TALL														
PAC-14x3x75	14.000	356	3.00	76	75	1.3	852	387	2.942	75	11.058	281	2.01	0.91
PAC-14x3x100	14.000	356	3.00	76	100	1.8	1074	488	3.256	83	10.744	273	2.84	1.29
PAC-14x3x125	14.000	356	3.00	76	125	2.2	1336	607	3.309	84	10.691	272	3.07	1.39
PAC-14x3x150	14.000	356	3.00	76	150	2.7	1472	669	4.189	106	9.811	249	4.37	1.99
PAC-14x3x175	14.000	356	3.00	76	175	3.1	1749	795	4.006	102	9.994	254	4.28	1.95
PAC-14x3x200	14.000	356	3.00	76	200	3.6	1932	878	4.338	110	9.662	245	4.91	2.23
PAC-14x3x225	14.000	356	3.00	76	225	4.0	2124	965	4.562	116	9.438	240	5.40	2.46
PAC-14x3x250	14.000	356	3.00	76	250	4.5	2372	1078	4.047	103	9.9535	253	5.47	2.49
PAC-14x3x275	14.000	356	3.00	76	275	4.9	2509	1140	4.877	124	9.123	232	6.20	2.82
PAC-14x3x300	14.000	356	3.00	76	300	5.4	2736	1244	4.879	124	9.121	232	6.35	2.89
PAC-14x3x350	14.000	356	3.00	76	350	6.2	3168	1440	4.950	126	9.05	230	6.73	3.06
PAC-14x3x400	14.000	356	3.00	76	400	7.1	3412	1551	5.470	139	8.53	217	7.94	3.61
PAC-14x3x450	14.000	356	3.00	76	450	8.0	3755	1707	5.656	144	8.344	212	8.55	3.89
PAC-14x3x650	14.000	356	3.00	76	650	11.6	4653	2115	6.891	175	7.109	181	7.16	3.25

3.0 ID COIL OVER

Part Number	Nominal Free Length		Nominal Inside Diameter		Spring Rate		Load @ Coil Bind		Coil Bind Height		Free Length to Coil Bind Travel		Spring Weight	
	(in)	(mm)	(in)	(mm)	(lbs/in)	(kg/mm)	(lbs)	(kg)	(in)	(mm)	(in)	(mm)	(lbs)	(kg)
14" TALL CONT.														
PAC-14x3x500	14.000	356	3.00	76	500	8.9	4057	1844	5.887	150	8.113	206	9.26	4.21
PAC-14x3x550	14.000	356	3.00	76	550	9.8	4530	2059	5.763	146	8.237	209	9.24	4.20
16" TALL														
PAC-16x3x75	16.000	406	3.00	76	75	1.3	949	431	3.353	85	12.647	321	3.16	1.44
PAC-16x3x100	16.000	406	3.00	76	100	1.8	1237	562	3.631	92	12.369	314	3.28	1.49
PAC-16x3x125	16.000	406	3.00	76	125	2.2	1493	678	4.060	103	11.94	303	4.01	1.82
PAC-16x3x150	16.000	406	3.00	76	150	2.7	1772	805	4.189	106	11.811	300	4.37	1.99
PAC-16x3x175	16.000	406	3.00	76	175	3.1	1943	883	4.900	124	11.1	282	5.56	2.53
PAC-16x3x200	16.000	406	3.00	76	200	3.6	2092	951	5.538	141	10.462	266	6.74	3.06
PAC-16x3x225	16.000	406	3.00	76	225	4.0	2384	1084	5.403	137	10.597	269	6.73	3.06
PAC-16x3x250	16.000	406	3.00	76	250	4.5	2669	1213	5.323	135	10.677	271	6.78	3.08
PAC-16x3x300	16.000	406	3.00	76	300	5.4	2953	1342	6.156	156	9.844	250	8.58	3.90
PAC-16x3x350	16.000	406	3.00	76	350	6.2	3587	1631	5.751	146	10.249	260	8.18	3.72
PAC-16x3x400	16.000	406	3.00	76	400	7.1	3877	1762	6.308	160	9.692	246	9.54	4.34
PAC-16x3x450	16.000	406	3.00	76	450	8.0	4279	1945	6.491	165	9.509	242	10.22	4.64
PAC-16x3x500	16.000	406	3.00	76	500	8.9	4638	2108	6.725	171	9.275	236	11.00	5.00
PAC-16x3x575	16.000	406	3.00	76	575	10.3	5696	2589	6.150	156	9.85	250	10.15	4.61
PAC-16x3x600	16.000	406	3.00	76	600	10.7	5474	2488	6.876	175	9.124	232	11.89	5.40
PAC-16x3x650	16.000	406	3.00	76	650	11.6	5709	2595	7.217	183	8.783	223	12.93	5.88
PAC-16x3x700	16.000	406	3.00	76	700	12.5	6194	2816	7.151	182	8.849	225	14.54	6.61
PAC-16x3x800	16.000	406	3.00	76	800	14.3	6785	3084	7.519	191	8.481	215	14.44	6.56
18" TALL														
PAC-18x3x75	18.000	457	3.00	76	75	1.3	1068	485	3.764	96	14.236	362	3.20	1.46
PAC-18x3x100	18.000	457	3.00	76	100	1.8	1351	614	4.490	114	13.51	343	4.32	1.96
PAC-18x3x150	18.000	457	3.00	76	150	2.7	1941	882	5.060	129	12.94	329	5.58	2.54
PAC-18x3x200	18.000	457	3.00	76	200	3.6	2492	1133	5.538	141	12.462	317	6.74	3.06
PAC-18x3x250	18.000	457	3.00	76	250	4.5	2938	1335	6.249	159	11.751	298	8.34	3.79
PAC-18x3x300	18.000	457	3.00	76	300	5.4	3409	1550	6.637	169	11.363	289	9.45	4.29
PAC-18x3x350	18.000	457	3.00	76	350	6.2	3799	1727	7.146	182	10.854	276	10.71	4.87
PAC-18x3x400	18.000	457	3.00	76	400	7.1	4098	1863	7.756	197	10.244	260	12.48	5.67
PAC-18x3x450	18.000	457	3.00	76	450	8.0	4534	2061	7.925	201	10.075	256	13.22	6.01
PAC-18x3x500	18.000	457	3.00	76	500	8.9	4657	2117	8.686	221	9.314	237	15.30	6.95
PAC-18x3x550	18.000	457	3.00	76	550	9.8	4660	2118	9.527	242	8.473	215	17.68	8.04
PAC-18x3x600	18.000	457	3.00	76	600	10.7	5536	2516	8.773	223	9.227	234	16.28	7.40
PAC-18x3x650	18.000	457	3.00	76	650	11.6	5407	2458	9.681	246	8.319	211	18.90	8.59
PAC-18x3x700	18.000	457	3.00	76	700	12.5	6283	2856	9.025	229	8.975	228	17.90	8.14
PAC-18x3x750	18.000	457	3.00	76	750	13.4	6009	2731	9.988	254	8.012	204	20.47	9.31
PAC-18x3x800	18.000	457	3.00	76	800	14.3	6884	3129	9.395	239	8.605	219	19.26	8.75
20" TALL														
PAC-20x3x600	20.000	508	3.00	76	600	10.7	6765	3075	9.593	244	10.407	264	18.73	8.51
PAC-20x3x650	20.000	508	3.00	76	650	11.6	6764	3075	9.593	244	10.407	264	18.73	8.51
PAC-20x3x700	20.000	508	3.00	76	700	12.5	7745	3520	8.936	227	11.064	281	17.45	7.93

CONVENTIONAL SPRINGS

Pro-Series Conventional Front Springs

- Maximized for travel
- High stress designed for increased travel
- Solid safe (coil bind safe)
- Rate curve optimized
- Custom designs available
- Fit in rules package

Sportsman Conventional Front Springs

- Designed to meet budget
- Improved load loss with superior material
- Increased travel over competition
- Light weight
- Traditional design

Pro-Series Rear Springs

- Fits in new rules package
- Optimized travel
- Maximized weight savings
- Extreme design (not coil bind safe)
- Max load of 3,500 lbs

Sportsman Conventional Rear Springs

- Designed to meet budget
- Improved load loss with superior material
- Increased travel over competition
- Light weight
- Traditional design

PRO-SERIES CONVENTIONAL FRONT SPRINGS

Part Number	Freelength	Rate	Outside Diameter	Est. Travel	Weight
PAC-PF8.75x5.5x350	8.75"	350	5.5"	6.03"	4.21
PAC-PF8.75x5.5x375	8.75"	375	5.5"	5.96"	4.38
PAC-PF8.75x5.5x400	8.75"	400	5.5"	5.89"	4.57
PAC-PF8.75x5.5x425	8.75"	425	5.5"	5.81"	4.78
PAC-PF8.75x5.5x450	8.75"	450	5.5"	5.72"	5.01
PAC-PF8.75x5.5x475	8.75"	475	5.5"	5.77"	5.07
PAC-PF8.75x5.5x500	8.75"	500	5.5"	5.68"	5.32
PAC-PF8.75x5.5x200	9.5"	200	5.5"	6.94"	3.61
PAC-PF8.75x5.5x250	9.5"	250	5.5"	7"	3.56
PAC-PF8.75x5.5x300	9.5"	300	5.5"	6.73"	4.18
PAC-PF8.75x5.5x350	9.5"	350	5.5"	6.62"	4.49
PAC-PF8.75x5.5x400	9.5"	400	5.5"	6.48"	4.88
PAC-PF8.75x5.5x450	9.5"	450	5.5"	6.38"	5.25
PAC-PF8.75x5.5x500	9.5"	500	5.5"	6.26"	5.68
PAC-PF8.75x5.5x550	9.5"	550	5.5"	6.19"	6.06
PAC-PF8.75x5.5x600	9.5"	600	5.5"	5.65"	7.14
PAC-PF10.5x5.5x200	10.5"	200	5.5"	7.92"	3.73
PAC-PF10.5x5.5x250	10.5"	250	5.5"	7.91"	3.84
PAC-PF10.5x5.5x300	10.5"	300	5.5"	7.65"	4.49
PAC-PF10.5x5.5x350	10.5"	350	5.5"	7.46"	5.13
PAC-PF10.5x5.5x400	10.5"	400	5.5"	6.78"	6.48
PAC-PF10.5x5.5x450	10.5"	450	5.5"	6.59"	7.03
PAC-PF10.5x5.5x500	10.5"	500	5.5"	6.56"	7.41
PAC-PF10.5x5.5x550	10.5"	550	5.5"	6.41"	7.98
PAC-PF10.5x5.5x600	10.5"	600	5.5"	6.32"	8.18

SPORTSMAN CONVENTIONAL FRONT SPRINGS

9-1/2" TALL — 5 INCH O.D.

Part Number	Freelength	Rate	Outside Diameter	Est. Travel	Weight
PAC-SF9.5x5x300	9.5"	300	5"	6.17"	4.79
PAC-SF9.5x5x350	9.5"	350	5"	6.04"	5.15
PAC-SF9.5x5x400	9.5"	400	5"	6.04"	5.4
PAC-SF9.5X5X425	9.5"	425	5"	5.94"	5.64
PAC-SF9.5x5x450	9.5"	450	5"	5.91"	5.57
PAC-SF9.5x5x475	9.5"	475	5"	5.8"	5.85
PAC-SF9.5x5x500	9.5"	500	5"	5.67"	6.15
PAC-SF9.5x5x525	9.5"	525	5"	5.73"	6.23
PAC-SF9.5x5x550	9.5"	550	5"	5.61"	6.56
PAC-SF9.5x5x575	9.5"	575	5"	5.57"	6.78
PAC-SF9.5x5x600	9.5"	600	5"	5.55"	6.71
PAC-SF9.5x5x625	9.5"	625	5"	5.45"	7.01
PAC-SF9.5x5x650	9.5"	650	5"	5.47"	6.9
PAC-SF9.5X5X700	9.5"	700	5"	5.42"	7.06
PAC-SF9.5x5x750	9.5"	750	5"	5.31"	7.61
PAC-SF9.5x5x800	9.5"	800	5"	4.64"	8.6
PAC-SF9.5x5x850	9.5"	850	5"	4.56"	8.86
PAC-SF9.5x5x900	9.5"	900	5"	4.47"	9.15
PAC-SF9.5x5x950	9.5"	950	5"	4.36"	9.46
PAC-SF9.5x5x1000	9.5"	1000	5"	4.38"	9.61
PAC-SF9.5X5X1350	9.5"	1350	5"	4.2"	10.26

SPORTSMAN CONVENTIONAL FRONT SPRINGS

CONT.

9-1/2" TALL

5 1/2 INCH O.D.

Part Number	Rate	Freelength	Outside Diameter	Est. Travel	Weight
PAC-SF9.5X5.5X300	300	9.5"	5.5"	6.56"	4.81
PAC-SF9.5X5.5X350	350	9.5"	5.5"	6.45"	5.13
PAC-SF9.5X5.5X400	400	9.5"	5.5"	5.86"	6.38
PAC-SF9.5X5.5X450	450	9.5"	5.5"	5.76"	6.8
PAC-SF9.5X5.5X500	500	9.5"	5.5"	5.55"	7.41
PAC-SF9.5X5.5X550	550	9.5"	5.5"	5.5"	7.85
PAC-SF9.5X5.5X600	600	9.5"	5.5"	5.32"	8.18
PAC-SF9.5X5.5X650	650	9.5"	5.5"	5.3"	8.29
PAC-SF9.5X5.5X700	700	9.5"	5.5"	5.28"	8.44
PAC-SF9.5X5.5X750	750	9.5"	5.5"	5.23"	8.62
PAC-SF9.5X5.5X800	800	9.5"	5.5"	5.18"	8.83
PAC-SF9.5X5.5X850	850	9.5"	5.5"	5.12"	9.06
PAC-SF9.5X5.5X900	900	9.5"	5.5"	5.05"	9.32
PAC-SF9.5X5.5X950	950	9.5"	5.5"	4.97"	9.61
PAC-SF9.5X5.5X1000	1000	9.5"	5.5"	4.88"	9.91
PAC-SF9.5X5.5X1050	1050	9.5"	5.5"	4.78"	10.24
PAC-SF9.5X5.5X1100	1100	9.5"	5.5"	4.68"	10.59
PAC-SF9.5X5.5X1150	1150	9.5"	5.5"	4.57"	10.96
PAC-SF9.5X5.5X1200	1200	9.5"	5.5"	4.69"	10.98
PAC-SF9.5X5.5X1300	1300	9.5"	5.5"	4.45"	11.8
PAC-SF9.5X5.5X1400	1400	9.5"	5.5"	4.47"	11.87

11" TALL

5 1/2 INCH O.D.

Part Number	Rate	Freelength	Outside Diameter	Est. Travel	Weight
PAC-SF11X5.5X600	600	11"	5.5"	6.21"	9.38
PAC-SF11X5.5X700	700	11"	5.5"	5.93"	10.75
PAC-SF11X5.5X800	800	11"	5.5"	5.84"	11.18
PAC-SF11X5.5X900	900	11"	5.5"	5.71"	11.73
PAC-SF11X5.5X1000	1000	11"	5.5"	5.52"	12.41
PAC-SF11X5.5X1100	1100	11"	5.5"	5.31"	13.19
PAC-SF11X5.5X1200	1200	11"	5.5"	5.06"	14.08
PAC-SF11X5.5X1300	1300	11"	5.5"	5.11"	14.07
PAC-SF11X5.5X1400	1400	11"	5.5"	5.13"	14.11

PRO-SERIES CONVENTIONAL REAR SPRINGS

Part Number	Free Length	ID	Rate	Max Load	Weight
PAC-NR10x3x500	10.25"	3.75"	500	3500	5.2
PAC-NR9x3x600	9.25"	3.75"	600	3500	4.5
PAC-NR9x3x700	9.25"	3.75"	700	3500	6.5
PAC-NR9x3x800	9.25"	3.5"	800	3500	6.3
PAC-NR9x3x900	9.25"	3.5"	900	3500	7.2
PAC-NR9x3x1000	9.25"	3.5"	1000	3500	6.6
PAC-NR9x3x1100	9.25"	3.5"	1100	3500	7.6
PAC-NR9x3x1200	9.25"	3.5"	1200	3500	7.1
PAC-NR9x3x1300	9.25"	3.5"	1300	3500	8.2
PAC-NR9x3x1400	9.25"	3.5"	1400	3500	7.7
PAC-NR9x3x1500	9.25"	3.5"	1500	3500	8.9
PAC-NR9x3x1600	9.25"	3.5"	1600	3500	8.4
PAC-NR9x3x1700	9.25"	3.25"	1700	3500	8.8
PAC-NR9x3x1800	9.25"	3.25"	1800	3500	8.3
PAC-NR9x3x1900	9.25"	3.25"	1900	3500	7.9
PAC-NR9x3x2000	9.25"	3.25"	2000	3500	7.6
PAC-NR9x3x2200	9.25"	3.25"	2200	3500	9.1
PAC-NR9x3x2400	9.25"	3.25"	2400	3500	8.4
PAC-NR9x3x2600	9.25"	3.25"	2600	3500	9.5
PAC-NR9x3x2800	9.25"	3.25"	2800	3500	10.6
PAC-NR9x3x3000	9.25"	3.25"	3000	3500	10
PAC-NR9x3x3500	9.25"	3.25"	3500	3500	10.4
PAC-NR9x3x4000	9.25"	3.01"	4000	3500	10.2
PAC-NR9x3x4500	9.25"	3.01"	4500	3500	10.9
PAC-NR9x3x5000	9.25"	3.01"	5000	3500	10

SPORTSMAN CONVENTIONAL REAR SPRINGS

11" TALL

5 INCH O.D.

Part Number	Rate	Freelength	Outside Diameter	Travel
PAC-SR11X5X100	100	11"	5"	8.67
PAC-SR11X5X125	125	11"	5"	8.43
PAC-SR11X5X150	150	11"	5"	8.16
PAC-SR11X5X175	175	11"	5"	8.05
PAC-SR11X5X200	200	11"	5"	7.91
PAC-SR11X5X225	225	11"	5"	7.84
PAC-SR11X5X250	250	11"	5"	7.28
PAC-SR11X5X275	275	11"	5"	7.15
PAC-SR11X5X300	300	11"	5"	7.57
PAC-SR11X5X325	325	11"	5"	7.14
PAC-SR11X5X350	350	11"	5"	6.96
PAC-SR11X5X375	375	11"	5"	6.96
PAC-SR11X5X400	400	11"	5"	6.77
PAC-SR11X5X425	425	11"	5"	6.66
PAC-SR11X5X450	450	11"	5"	6.54
PAC-SR11X5X475	475	11"	5"	6.65
PAC-SR11X5X500	500	11"	5"	6.51

13" TALL

5 INCH O.D.

Part Number	Rate	Freelength	Outside Diameter	Travel
PAC-SR13X5X100	100	13"	5"	9.95
PAC-SR13X5X125	125	13"	5"	9.89
PAC-SR13X5X140	140	13"	5"	9.72
PAC-SR13X5X150	150	13"	5"	9.6
PAC-SR13X5X160	160	13"	5"	9.46
PAC-SR13X5X175	175	13"	5"	9.39
PAC-SR13X5X200	200	13"	5"	9.33
PAC-SR13X5X225	225	13"	5"	9.17
PAC-SR13X5X250	250	13"	5"	8.62
PAC-SR13X5X275	275	13"	5"	8.59
PAC-SR13X5X300	300	13"	5"	8.44
PAC-SR13X5X325	325	13"	5"	8.25
PAC-SR13X5X350	350	13"	5"	8.17
PAC-SR13X5X375	375	13"	5"	8.08
PAC-SR13X5X400	400	13"	5"	8.11
PAC-SR13X5X425	425	13"	5"	7.98
PAC-SR13X5X450	450	13"	5"	7.85

13" TALL

5 INCH O.D.

Part Number	Rate	Freelength	Outside Diameter	Travel
PAC-SR13X5X475	475	13"	5"	7.71
PAC-SR13X5X500	500	13"	5"	7.63
PAC-SR13X5X525	525	13"	5"	7.54
PAC-SR13X5X550	550	13"	5"	7.45
PAC-SR13X5X575	575	13"	5"	7.37
PAC-SR13X5X600	600	13"	5"	6.89
PAC-SR13X5X625	625	13"	5"	6.68
PAC-SR13X5X650	650	13"	5"	6.83
PAC-SR13X5X675	675	13"	5"	6.61
PAC-SR13X5X700	700	13"	5"	6.38
PAC-SR13X5X725	725	13"	5"	6.38
PAC-SR13X5X750	750	13"	5"	6.37
PAC-SR13X5X775	775	13"	5"	6.32
PAC-SR13X5X800	800	13"	5"	6.29
PAC-SR13X5X825	825	13"	5"	6.24
PAC-SR13X5X850	850	13"	5"	6.2
PAC-SR13X5X875	875	13"	5"	6.14
PAC-SR13X5X900	900	13"	5"	6.1
PAC-SR13X5X925	925	13"	5"	6.03
PAC-SR13X5X950	950	13"	5"	5.97
PAC-SR13X5X975	975	13"	5"	5.9
PAC-SR13X5X1000	1000	13"	5"	6.05

16" TALL

5 INCH O.D.

Part Number	Rate	Freelength	Outside Diameter	Travel
PAC-SR16X5X100	100	16"	5"	12.38
PAC-SR16X5X125	125	16"	5"	12.07
PAC-SR16X5X140	140	16"	5"	11.44
PAC-SR16X5X150	150	16"	5"	11.29
PAC-SR16X5X160	160	16"	5"	11.38
PAC-SR16X5X175	175	16"	5"	11.32
PAC-SR16X5X200	200	16"	5"	11.03
PAC-SR16X5X225	225	16"	5"	10.82
PAC-SR16X5X250	250	16"	5"	10.72
PAC-SR16X5X275	275	16"	5"	10.59
PAC-SR16X5X300	300	16"	5"	9.92

20" TALL

5 INCH O.D.

Part Number	Rate	Freelength	Outside Diameter	Travel
PAC-SR20X5X100	100	20"	5"	15.08
PAC-SR20X5X125	125	20"	5"	14.32
PAC-SR20X5X150	150	20"	5"	14.02

SHOCKS

PAC RACING HAS PARTNERED WITH PREMIER SHOCK MANUFACTURERS TO BRING YOU A COMPLETE ENGINEERED SUSPENSION SYSTEM

- With the introduction of our onsite tech support trailer OUR CUSTOMERS will have access to onsite shock dyno testing, spring rate curve testing, and shock service/repair.

- Make PAC Racing Springs your one stop supplier for your shock, springs, bump stops, and test services.

- Call for track days and tech support locations and dates to have your shocks serviced, dyno'd, or advice on setup.

JRi shocks

BILSTEIN
SHOCK ABSORBERS

PAC RACING JRi SHOCKS

Part Number	Application	Description	Shock Body Type
PAC-200-7-125TP-2CR	Dirt Late Model	Double Adj. LF	Threaded aluminum
PAC-200-7-240-2CR	Dirt Late Model	Double Adj. RF	Threaded aluminum
PAC-200-9-134-2CR	Dirt Late Model	Double Adj. LR	Threaded aluminum
PAC-200-9-241-2CR	Dirt Late Model	Double Adj. RR	Threaded aluminum
PAC-200-9-324-XX	Dirt Late Model	Base valve LR front	Threaded aluminum
PAC-200-7-180-CX	Dirt Late Model	5th coil	Threaded aluminum
PAC-200-7-128-3CR	Asphalt Late Model	Triple Adjustable LF	Threaded aluminum
PAC-200-7-130-3CR	Asphalt Late Model	Triple Adjustable RF	Threaded aluminum
PAC-200-9-129-3CR	Asphalt Late Model	Triple Adjustable LR	Threaded aluminum
PAC-200-9-131-3CR	Asphalt Late Model	Triple Adjustable RR	Threaded aluminum
PAC-200-7-149-XX	Northeastern Modified	Multiple valving options	Threaded aluminum monotube
PAC-200-9-150-XX	Northeastern Modified	Multiple valving options	Threaded aluminum monotube
PAC-200-7-237-XX	IMCA Modified	NSV Multiple valving options	Steel monotube w/schrader valve
PAC-200-9-238-XX	IMCA Modified	NSV Multiple valving options	Steel monotube w/schrader valve
PAC-200-7-260-XX	UMP, USMTS, Open Modifieds	LF Standard	Steel monotube basevalve w/schrader valve
PAC-200-7-263-XX	UMP, USMTS, Open Modifieds	LF Slick	Steel monotube basevalve w/schrader valve
PAC-200-7-262-XX	UMP, USMTS, Open Modifieds	RF Standard	Steel monotube basevalve w/schrader valve
PAC-200-7-261-XX	UMP, USMTS, Open Modifieds	RF Slick	Steel monotube basevalve w/schrader valve
PAC-200-9-266-XX	UMP, USMTS, Open Modifieds	LR Lift Arm	Steel monotube basevalve w/schrader valve
PAC-200-9-267-XX	UMP, USMTS, Open Modifieds	LR Pullbar	Steel monotube basevalve w/schrader valve
PAC-200-9-264-XX	UMP, USMTS, Open Modifieds	RR Lift Arm	Steel monotube basevalve w/schrader valve
PAC-200-9-265-XX	UMP, USMTS, Open Modifieds	RR Pullbar	Steel monotube basevalve w/schrader valve
PAC-200-7-278-XX	UMP, USMTS, Open Modifieds	5th Coil	Steel monotube basevalve w/schrader valve
PAC-200-7-244-XX	UMP, USMTS, Open Modifieds	LF Standard	Steel monotube non basevalve w/schrader valve
PAC-200-7-247-XX	UMP, USMTS, Open Modifieds	LF Slick	Steel monotube non basevalve w/schrader valve
PAC-200-7-248-XX	UMP, USMTS, Open Modifieds	LF Super Slick	Steel monotube non basevalve w/schrader valve
PAC-200-7-246-XX	UMP, USMTS, Open Modifieds	RF Standard	Steel monotube non basevalve w/schrader valve
PAC-200-7-243-XX	UMP, USMTS, Open Modifieds	RF Slick	Steel monotube non basevalve w/schrader valve
PAC-200-7-245-XX	UMP, USMTS, Open Modifieds	RF Heavy Tie Down	Steel monotube non basevalve w/schrader valve
PAC-200-7-242-XX	UMP, USMTS, Open Modifieds	RF Tight Corner	Steel monotube non basevalve w/schrader valve

Spring Inside Dia	Stroke	Extended Length	Collapsed Length	Adjustable	Compression Adjustment "clicks"	Rebound Adjustment "clicks"
2.5	7"	20"	13"	Double	6	50
2.5	7"	20"	13"	Double	6	50
2.5	9"	26"	17"	Double	6	50
2.5	9"	26"	17"	Double	6	50
2.5	9"	26"	17"	Non	0	0
2.5	7"	20"	13"	Compression	50	0
2.5	7"	20"	13"	Triple	6	52
2.5	7"	20"	13"	Triple	6	52
2.5	9"	24"	15"	Triple	6	52
2.5	9"	24"	15"	Triple	6	52
2.5	7"	21.5"	14.5"	Non	0	0
2.5	9"	23.5"	15.5"	Non	0	0
NA	7"	20"	13"	Non	0	0
NA	9"	24"	15"	Non	0	0
NA	7"	20"	13"	Non	0	0
NA	7"	20"	13"	Non	0	0
NA	7"	20"	13"	Non	0	0
NA	7"	20"	13"	Non	0	0
NA	9"	24"	15"	Non	0	0
NA	9"	24"	15"	Non	0	0
NA	9"	24"	15"	Non	0	0
NA	9"	24"	15"	Non	0	0
NA	7"	20"	13"	Non	0	0
NA	7"	20"	13"	Non	0	0
NA	7"	20"	13"	Non	0	0
NA	7"	20"	13"	Non	0	0
NA	7"	20"	13"	Non	0	0
NA	7"	20"	13"	Non	0	0
NA	7"	20"	13"	Non	0	0

PAC RACING JRi SHOCKS

CONT.

Part Number	Application	Description	Shock Body Type
PAC-200-9-249-XX	UMP, USMTS, Open Modifieds	LR Standard	Steel monotube non basevalve w/schrader valve
PAC-200-9-250-XX	UMP, USMTS, Open Modifieds	LR Slick	Steel monotube non basevalve w/schrader valve
PAC-200-9-251-XX	UMP, USMTS, Open Modifieds	LR Lift Arm	Steel monotube non basevalve w/schrader valve
PAC-200-9-252-XX	UMP, USMTS, Open Modifieds	RR Standard	Steel monotube non basevalve w/schrader valve
PAC-200-9-253-XX	UMP, USMTS, Open Modifieds	RR Slick	Steel monotube non basevalve w/schrader valve
PAC-200-9-255-XX	UMP, USMTS, Open Modifieds	RR Heavy	Steel monotube non basevalve w/schrader valve
PAC-200-9-254-XX	UMP, USMTS, Open Modifieds	RR Lift Arm	Steel monotube non basevalve w/schrader valve
PAC-200-5-198-XR	Dirt Midget	LF standard	Threaded aluminum monotube
PAC-200-5-199-XR	Dirt Midget	RF standard	Threaded aluminum monotube
PAC-200-5-200-XR	Dirt Midget	LR standard	Threaded aluminum monotube
PAC-200-5-201-XR	Dirt Midget	RR standard	Threaded aluminum monotube
PAC-200-5-202-XR	Asphalt Midget	LF standard	Threaded aluminum monotube
PAC-200-5-203-XR	Asphalt Midget	RF standard	Threaded aluminum monotube
PAC-200-5-202-XR	Asphalt Midget	LR standard	Threaded aluminum monotube
PAC-200-5-202-XR	Asphalt Midget	RR standard	Threaded aluminum monotube
PAC-200-6-210-XR	LF Non Wing Sprintcar	LF standard	Threaded aluminum monotube
PAC-200-6-211-XR	RF Non Wing Sprintcar	RF standard	Threaded aluminum monotube
PAC-200-8-212-XR	LR Non Wing Sprintcar	LR standard	Threaded aluminum monotube
PAC-200-6-213-XR	RR Non Wing Sprintcar	RR standard	Threaded aluminum monotube
PAC-200-6-214-XR	LF 360 Wing Sprintcar	LF standard	Threaded aluminum monotube
PAC-200-6-215-XR	RF 360 Wing Sprintcar	RF standard	Threaded aluminum monotube
PAC-200-8-216-XR	LR 360 Wing Sprintcar	LR standard	Threaded aluminum monotube
PAC-200-8-217-XR	RR 360 Wing Sprintcar	RR standard	Threaded aluminum monotube
PAC-200-6-218-XR	LF 410 Wing Sprintcar	LF standard	Threaded aluminum monotube
PAC-200-6-219-XR	RF 410 Wing Sprintcar	RF standard	Threaded aluminum monotube
PAC-200-8-220-XR	LR 410 Wing Sprintcar	LR standard	Threaded aluminum monotube
PAC-200-8-221-XR	RR 410 Wing Sprintcar	RR standard	Threaded aluminum monotube

Spring Inside Dia	Stroke	Extended Length	Collapsed Length	Adjustable	Compression Adjustment "clicks"	Rebound Adjustment "clicks"
NA	9"	24"	15"	Non	0	0
NA	9"	24"	15"	Non	0	0
NA	9"	24"	15"	Non	0	0
NA	9"	24"	15"	Non	0	0
NA	9"	24"	15"	Non	0	0
NA	9"	24"	15"	Non	0	0
NA	9"	24"	15"	Non	0	0
2.5	5"	17.5"	12.5"	Rebound	0	12
2.5	5"	17.5"	12.5"	Rebound	0	12
2.5	5"	17.5"	12.5"	Rebound	0	12
2.5	5"	17.5"	12.5"	Rebound	0	12
2.5	5"	17.5"	12.5"	Rebound	0	12
2.5	5"	17.5"	12.5"	Rebound	0	12
2.5	5"	17.5"	12.5"	Rebound	0	12
2.5	5"	17.5"	12.5"	Rebound	0	12
2.5	6"	19.5"	13.5"	Rebound	0	12
2.5	6"	19.5"	13.5"	Rebound	0	12
2.5	8"	22.5"	14.5"	Rebound	0	12
2.5	8"	22.5"	14.5"	Rebound	0	12
2.5	6"	19.5"	13.5"	Rebound	0	12
2.5	6"	19.5"	13.5"	Rebound	0	12
2.5	8"	22.5"	14.5"	Rebound	0	12
2.5	8"	22.5"	14.5"	Rebound	0	12
2.5	6"	19.5"	13.5"	Rebound	0	12
2.5	6"	19.5"	13.5"	Rebound	0	12
2.5	8"	22.5"	14.5"	Rebound	0	12
2.5	8"	22.5"	14.5"	Rebound	0	12

PAC RACING BILSTEIN SHOCKS

Part Number	Application	Description	Shock Body Type	Spring Inside Dia
PAC-200-7-SZ-XX	Modifieds & Late Models	Multiple Valving Options	Steel monotube	NA
PAC-200-9-SZ-XX	Modifieds & Late Models	Multiple Valving Options	Steel monotube	NA
PAC-200-5-SL-XX	Modifieds & Late Models	Multiple Valving Options	Steel monotube	NA
PAC-200-6-SL-XX	Modifieds & Late Models	Multiple Valving Options	Steel monotube	NA
PAC-200-7-SL-XX	Modifieds & Late Models	Multiple Valving Options	Steel monotube	NA
PAC-200-8-SL-XX	Modifieds & Late Models	Multiple Valving Options	Steel monotube	NA
PAC-200-9-SL-XX	Modifieds & Late Models	Multiple Valving Options	Steel monotube	NA
PAC-200-7-SLS-XX	Stock Car, Modifieds, Late Models	Multiple Valving Options	Steel monotube	NA
PAC-200-9-SLS-XX	Stock Car, Modifieds, Late Models	Multiple Valving Options	Steel monotube	NA
PAC-200-SE7-6696	4 Bar Modifieds	Kit includes 10 SLS shocks	Steel monotube	NA
PAC-200-7-COB-XX	4 Bar Modifieds & Late Models	Multiple Valving Options	Steel monotube	NA
PAC-200-9-SLM-XX	4 Bar Modifieds & Late Models	Multiple Valving Options	Steel monotube	NA
PAC-200-5-SN-XX	4 Bar Modifieds, Late Models, & Sprintcars	Multiple Valving Options	Steel monotube, aluminum cap & schrader valve	NA
PAC-200-6-SN-XX	4 Bar Modifieds, Late Models, & Sprintcars	Multiple Valving Options	Steel monotube, aluminum cap & schrader valve	NA
PAC-200-7-SN-XX	4 Bar Modifieds, Late Models, & Sprintcars	Multiple Valving Options	Steel monotube, aluminum cap & schrader valve	NA
PAC-200-8-SN-XX	4 Bar Modifieds, Late Models, & Sprintcars	Multiple Valving Options	Steel monotube, aluminum cap & schrader valve	NA
PAC-200-9-SN-XX	4 Bar Modifieds, Late Models, & Sprintcars	Multiple Valving Options	Steel monotube, aluminum cap & schrader valve	NA
PAC-200-5-SNS-XX	4 Bar Modifieds, Late Models, & Sprintcars	Multiple Valving Options	Steel monotube, steel cap & schrader valve	NA
PAC-200-6-SNS-XX	4 Bar Modifieds, Late Models, & Sprintcars	Multiple Valving Options	Steel monotube, steel cap & schrader valve	NA
PAC-200-7-SNS-XX	4 Bar Modifieds, Late Models, & Sprintcars	Multiple Valving Options	Steel monotube, steel cap & schrader valve	NA
PAC-200-8-SNS-XX	4 Bar Modifieds, Late Models, & Sprintcars	Multiple Valving Options	Steel monotube, steel cap & schrader valve	NA
PAC-200-9-SNS-XX	4 Bar Modifieds, Late Models, & Sprintcars	Multiple Valving Options	Steel monotube, steel cap & schrader valve	NA
PAC-200-6-XVS-XX	4 Bar Modifieds & Late Models	Multiple Valving Options	Steel monotube w/ schrader valve	NA
PAC-200-7-XVS-XX	4 Bar Modifieds & Late Models	Multiple Valving Options	Steel monotube w/ schrader valve	NA

BILSTEIN
SHOCK ABSORBERS

Stroke	Extended Length	Collapsed Length	Adjustable	Compression Adjustment "clicks"	Rebound Adjustment "clicks"	Valving Type
7"	20"	13.14"	Non	0	0	Digressive
9"	23.44"	14.94"	Non	0	0	Digressive
5"	16.25"	11.25"	Non	0	0	Linear
6"	18.25"	12"	Non	0	0	Linear
7"	20"	13.14"	Non	0	0	Linear
8"	22.25"	14"	Non	0	0	Linear
9"	23.44"	14.94"	Non	0	0	Linear
7"	13.14"	13.14"	Non	0	0	Linear
9"	14.94"	14.94"	Non	0	0	Linear
7" & 9"	see above	see above	Non	0	0	Linear
7"	20"	13.14"	Non	0	0	Digressive
9"	23.44"	14.94"	Non	0	0	Linear
5"	16.32"	11.48"	Non	0	0	Linear or Digressive options
6"	18.13"	12.42"	Non	0	0	Linear or Digressive options
7"	20.08"	13.50"	Non	0	0	Linear or Digressive options
8"	22.07"	14.47"	Non	0	0	Linear or Digressive options
9"	23.44"	15.16"	Non	0	0	Linear or Digressive options
5"	16.32"	11.48"	Non	0	0	Linear or Digressive options
6"	18.13"	12.42"	Non	0	0	Linear or Digressive options
7"	20.08"	13.50"	Non	0	0	Linear or Digressive options
8"	22.07"	14.47"	Non	0	0	Linear or Digressive options
9"	23.44"	15.16"	Non	0	0	Linear or Digressive options
6"	19.31"	13.35"	Non	0	0	Linear or Digressive options
7"	20.16"	15.24"	Non	0	0	Linear or Digressive options

PAC RACING BILSTEIN SHOCKS CONT.

Part Number	Application	Description	Shock Body Type	Spring Inside Dia
PAC-200-7.5-XVS-XX	4 Bar Modifieds & Late Models	Multiple Valving Options	Steel monotube w/ schrader valve	NA
PAC-200-9-XVS-XX	4 Bar Modifieds & Late Models	Multiple Valving Options	Steel monotube w/ schrader valve	NA
PAC-200-6-ASB-XX	Sprintcars, Midgets, & Mini-Sprints	Multiple Valving Options	Threaded aluminum monotube	1.875"
PAC-200-7-ASB-XX	Sprintcars, Midgets, & Mini-Sprints	Multiple Valving Options	Threaded aluminum monotube	1.875"
PAC-200-4-ASN-XX	Modifieds, Late Models, & Sprintcars	Multiple Valving Options	Threaded aluminum monotube	2.5"
PAC-200-5-ASN-XX	Modifieds, Late Models, & Sprintcars	Multiple Valving Options	Threaded aluminum monotube	2.5"
PAC-200-6-ASN-XX	Modifieds, Late Models, & Sprintcars	Multiple Valving Options	Threaded aluminum monotube	2.5"
PAC-200-7-ASN-XX	Modifieds, Late Models, & Sprintcars	Multiple Valving Options	Threaded aluminum monotube	2.5"
PAC-200-8-ASN-XX	Modifieds, Late Models, & Sprintcars	Multiple Valving Options	Threaded aluminum monotube	2.5"
PAC-200-9-ASN-XX	Modifieds, Late Models, & Sprintcars	Multiple Valving Options	Threaded aluminum monotube	2.5"
PAC-200-7-BGT-XX	Super Late Models, Sprintcars, Dirt Late Models, Big Block Modifieds	Multiple Valving Options	Threaded aluminum monotube	2.5"
PAC-200-9-BGT-XX	Super Late Models, Sprintcars, Dirt Late Models, Big Block Modifieds	Multiple Valving Options	Threaded aluminum monotube	2.5"

Stroke	Extended Length	Collapsed Length	Adjustable	Compression Adjustment "clicks"	Rebound Adjustment "clicks"	Valving Type
7.5"	22.78"	15.24"	Non	0	0	Linear or Digressive options
9"	23.76"	15.24"	Non	0	0	Linear or Digressive options
6"	17.32"	11.44"	Non	0	0	Linear or Digressive options
7"	20.08"	12.81"	Non	0	0	Linear or Digressive options
4"	14.23"	10.45"	Non	0	0	Linear or Digressive options
5"	16.25"	11.25"	Non	0	0	Linear or Digressive options
6"	18.37"	12.66"	Non	0	0	Linear or Digressive options
7"	20.23"	13.35"	Non	0	0	Linear or Digressive options
8"	22.26"	14.70"	Non	0	0	Linear or Digressive options
9"	23.60"	15.08"	Non	0	0	Linear or Digressive options
7"	21.75"	14.75"	Non	0	0	NA
9"	25.25"	16.75"	Non	0	0	NA

ABOUT VALVE SPRINGS

Over the last decade PAC Racing Springs drive has been developing the best design, process, and manufacturing technology for valve springs. We have continued to develop cutting edge valve train products that exceed demands of racing and continuously strive for improvements.
100% USA MADE.

"R" Series Valve Springs

THE LATEST ADVANCEMENT

Launching in 2015 as the premier valve spring, with an approach introducing the latest in material technology combined with state of the art performance, processing, and design.

- "R" Series springs use USA Made spring alloy with inclusion advancements
- Reduction of nearly 40% in inclusion size and quantity-over traditional alloys
- Advanced "blueprinting" of springs ensure a consistent load range in batch
- Available "tip conditioning"
- Tight tolerance range - batch sorting by qualified technicians
- Fully documented and serialized

1300 SERIES

THE BENCH MARK IN SPRINT CAR, LATE MODEL, AND MODIFIED RACING

- Utilizing in house heat treating
- Nano-peening
- Super-finish polish
- Optimized for load loss and aggressive valve trains
- High lift abusive applications

1500 SERIES

-EXTREME ENDURANCE-
PROCESSING FOR ROAD RACING AND SPEEDWAY ENDURANCE

- Fully nitrided
- Optimized for endurance and life
- Nano peened finish
- Super-finish polish
- Ideal for refined dynamics and valve control

1200 SERIES

DESIGNED FOR SPORTSMAN RACERS

- In house heat hreating
- Pacaloy- PAC enhanced processing
- Budget minded
- Good performance for medium and abusive environments

PAC RACING INTRODUCES

"R" SERIES SPRINGS

From decades of research and development comes the next level of performance and batch consistency. We have developed a 100% made in USA exclusive spring alloy that improves the inclusion size and content by nearly 40%. These advancements are designed for the pro engine builder who is looking for the next level of performance.

PROFESSIONAL OPTIONS:

STANDARD "R" SERIES ← OPTION 1

- Advanced material USA made
- Load sorted to 4% of spec L1 & L2
- Solid Sort to +/- 0.020 of nominal
- Certified batch signed by PAC Racing quality technician

"R" SERIES BLUE-PRINT OPTION ← OPTION 2

$100 ADDITIONAL

- Advanced material USA made
- Load sorted to 3% of spec L1 & L2
- Solid sort to +/- 0.010 of nomin nominal (between H1 & H2)
- Spec sheet ID (spreadsheet) with loads for each spring in box (L1, L2, Solid, Rate)
- Certified batch signed by PAC Racing quality technician

"R" SERIES TIP CONDITION ← OPTION 3

$200 ADDITIONAL

- Tip condition
- Fully radius tips and ends for improved wear and performance
- Done in process to maintain shot peening effectiveness and performance

"R" SERIES EXTREME ENDURANCE VALVE SPRINGS

From decades of research and development comes the next level of performance and batch consistency. We have developed a 100% made in USA exclusive spring alloy that improves the inclusion size and content by nearly 40%. These advancements are designed for the pro engine builder who is looking for the next level of performance.

	Spring Diameters				Spring Loads						
Part Number	OD Outer	ID Outer	Damper	ID Inner	Installed Height (Valve Closed)	Open Load (Valve Open)	Spring Rate	Max Coil Bind	Max Lift	Comments
PAC-1326R	1.550	1.100	Yes	0.706	275 @ 2.000	805 @ 1.200	662	1.150	0.800	Sprint Car- Late Model
PAC-1341R	1.575	1.125	Yes	0.720	270 @ 2.050	766 @ 1.250	620	1.170	0.800	Late Model-Off Road Endurance
PAC-1373R	1.430	1.002	No	0.688	250 @ 2.100	855 @ 1.200	670	1.160	0.850	Sprint Car- High RPM- High lift Low Mass
PAC-1387R	1.600	1.150	Yes	0.744	285 @ 1.95	780 @ 1.200	660	1.150	0.750	Late Model- Off Road Endurance
PAC-1374R	1.510	1.086	No	0.762	180 @ 1.980	685 @ 1.180	631	1.110	0.850	Endurance- Paved Circle Track
PAC-1375R	1.409	0.995	No	0.700	150 @ 2.000	645 @ 1.150	582	1.110	0.850	Endurance- Paved Circle Track
PAC-1389R	1.464	1.050	No	0.754	250 @ 2.000	627 @ 1.250	502	1.160	0.750	Endurance- Paved Circle Track
PAC-1390R	1.474	1.050	No	0.754	250 @ 2.050	670 @ 1.200	525	1.195	0.800	Endurance- Paved Circle Track
PAC-1391R	1.536	1.100	Yes	0.694	275 @ 2.000	800 @ 1.200	654	1.160	0.800	Endurance- Paved Circle Track

700 SERIES STEEL RETAINERS

PREMIUM COMPONENTS FOR "R" SERIES VALVE SPRINGS

700 Series Steel Retainers are made from "Space Plane" alloy. Literally this alloy is used on the most sophisticated defense air craft- This alloy was previously un-available to the public, has extra ordinary strength and toughness.

PAC Racing Combines this extra premium alloy with vacuum hardening processing, cryogenics, and our nano peening to add strength and maximize weight savings.

"X" Series Spring Seats Are Made from an extremely tough "tool steel" material that is harder and more robust than traditional 4140 or 8620 chrome moly steel. With nearly 20% improvement in hardness and 40% in strength use these as the absolute extreme in spring seats to reduce wear and breakage.

700 Series Retainers	Fits Spring PN	OD Dim "A"	ID of Outer Spring Dim "B"	ID of Inner Spring Dim "C"	Inner Step Thickness	Lock Angle	Weight (Grams)	Pull Thru Load	Matching Seats	Matching Step Seats
PAC-R761	PAC-1326R	Please call for more information				Mini 8	Please call for more information		PAC-S105X PAC-S106X	PAC-S139X
PAC-R758	PAC-1341R					Mini 8			PAC-S110X PAC-S127X***	PAC-S122X
PAC-R759	PAC-1373R					Mini 8			PAC-S137X PAC-S140X	
PAC-R767	PAC-1387R					Mini 8			PAC-S117X PAC-S118X	PAC-S124X
PAC-R768	PAC-1374R					Mini 8			PAC-S117X PAC-S118X	PAC-S124X
PAC-R769	PAC-1375R					Mini 8			PAC-S114X PAC-S115X	
PAC-R770	PAC-1389R					Mini 8			PAC-S110X PAC-S127X***	PAC-S122X
PAC-R771	PAC-1390R					Mini 8			PAC-S110X PAC-S127X***	PAC-S122X
PAC-R772	PAC-1391R					Mini 8			PAC-S105X PAC-S106X	

SPECIFICATIONS: SPRING LOADS AND HEIGHTS

Part Number	PAC-1326R	PAC-1341R	PAC-1373R	PAC-1387R	PAC-1374R	PAC-1375R	PAC-1389R	PAC-1390R	PAC-1391R
Mass (g)	158	170	136	167	140	125	135	141	154
Outer Freq	29368	26129	30043	29852	28580	29026	26876	28458	28047
Inner Freq	28434	27420	32323	28387	32458	30604	26721	26721	32325
Coil Bind	1.150	1.150	1.160	1.149	1.100	1.100	1.160	1.195	1.160
2.550									
2.500							3	15	
2.450	4	40	20				27	40	16
2.400	15	67	49	2			53	66	35
2.350	46	98	82	24			78	92	54
2.300	76	128	116	54			103	119	78
2.250	109	158	149	87	20	11	128	145	111
2.200	142	189	183	120	41	34	153	171	144
2.150	176	219	216	153	73	63	178	197	177
2.100	209	250	250	186	104	92	203	224	209
2.050	242	280	283	219	136	121	228	250	242
2.000	275	310	317	252	167	150	253	276	275
1.950	308	341	350	285	199	179	279	302	308
1.900	341	371	384	318	230	208	304	329	341
1.850	374	401	417	351	262	237	329	355	373
1.800	407	432	451	384	294	266	354	381	406
1.750	441	462	484	417	325	296	379	407	439
1.700	474	493	518	450	357	325	409	434	472
1.650	507	523	551	483	388	354	429	460	505
1.600	540	553	585	516	420	383	454	486	537
1.550	573	584	618	549	451	412	479	512	570
1.500	606	614	652	582	483	441	504	539	603
1.450	639	644	685	615	515	470	530	565	636
1.400	672	675	719	648	546	499	555	591	669
1.350	706	705	752	681	578	529	580	617	702
1.300	739	736	786	714	609	558	605	644	734
1.250	772	766	819	747	641	587	630	670	767
1.200	805	796	853	780	672	616	655	696	800
1.150	838		887	813	704	645			
1.100									
1.050									
1.000									
0.950									
0.900									

Standard seats measure 0.060 thick

** Suffix mean this seat comes in a 0.030 thickness

CUSTOM THICKNESSES AVAILABLE FOR $75 Additional charge per set

See PAGE 70 for more details

ENDURANCE VALVE SPRINGS

1300 SERIES

The 1300 Series springs were designed to have the highest endurance and latest advancements in spring processing. PAC Racing continually improves the process to ensure the customer has the latest and highest endurance springs available. The 1300 Series comes with ID Chamfers, Nano-Peening, and are 100% load sorted to ensure they exceed our customers demands.

Part Number	Spring Diameters				Spring Loads					Recommended Matching Components				Comments
	OD Outer	ID Outer	Damper	ID Inner	Installed Height (Valve Closed)	Open Load (Valve Open)	Spring Rate	Max Coil Bind	Max Lift	400 & 500 Series Retainers	300 & 600 Series Retainers	Spring Seats	Spring Cups	
PAC-1325	1.550	1.100	No	0.788	250 @ 2.000	765 @ 1.200	644	1.150	0.800	PAC-R505 PAC-R405 PAC-R556	NA	PAC-S103 PAC-S104	PAC-C204	High rate dual spring for aggressive valvetrains.
PAC-1326	1.550	1.100	Yes	0.706	275 @ 2.000	805 @ 1.200	662	1.150	0.800	PAC-R506 PAC-R541	PAC-R606 PAC-R641 PAC-R661	PAC-S105 PAC-S106	PAC-C204	High rate dual spring with a damper for aggressive valvetrains.
PAC-1340	1.500	1.085	No	0.790	250 @ 2.030	614 @ 1.250	467	1.180	0.780	PAC-R540	NA	PAC-S103 PAC-S104	PAC-C202	Dual spring without damper for roller cam application
PAC-1341	1.575	1.125	Yes	0.720	270 @ 2.050	766 @ 1.250	620	1.170	0.800	PAC-R515 PAC-R557	PAC-R315 PAC-R615 PAC-R658	PAC-S110 PAC-S127	PAC-C204	Dual Spring with Damper for Sprint Cars and Late Model Endurance Applications
PAC-1342	1.574	1.150	No	0.826	250 @ 2.050	655 @ 1.250	506	1.200	0.800	PAC-R537 PAC-R538	NA	PAC-S130 PAC-S131	PAC-C204	Dual spring without a damper for high lift roller applications.
PAC-1344	1.570	1.120	No	0.780	190 @ 1.950	710 @ 1.250	743	1.035	0.800	PAC-R551	NA	PAC-S103 PAC-S104	PAC-C204	High Frequency High Lift Dual Spring for Roller Cam Applications
PAC-1371	1.374	1.000	No	0.716	150 @ 1.950	455 @ 1.250	436	1.190	0.700	PAC -R517 PAC-R552	PAC-R317 PAC-R348	PAC-S114 PAC-S115	NA	Small diameter flat tappet spring for high RPM engines. Low mass and high frequency.
PAC-1373	1.430	1.002	No	0.688	250 @ 2.100	855 @ 1.200	670	1.160	0.850	NA	PAC-R659	PAC-S137X	NA	Small Diameter Endurance Spring MUST USE SPECIAL RETAINER
PAC-1374	1.536	1.100	Yes	0.694	275 @ 2.000	800 @ 1.200	654	1.160	0.800	PAC-R506 PAC-R541	PAC-R606 PAC-R641 PAC-R661	PAC-S105 PAC-S106	NA	Dual Spring with Damper for Sprint Cars and Late Model Endurance Applications
PAC-1385	1.564	1.150	Yes	0.744	250 @ 2.000	670 @ 1.200	525	1.140	0.800	PAC-R514 PAC-R519	PAC-R614 PAC-R619	PAC-S117 PAC-S118	PAC-C204	Dual spring with a damper for high lift applications.
PAC-1386	1.564	1.150	No	0.826	245 @ 2.000	655 @ 1.200	513	1.150	0.800	PAC-R537 PAC-R538	NA	PAC-S130 PAC-S131	PAC-C204	Dual spring without a damper for high lift roller applications.
PAC-1395	1.574	1.150	Yes	0.744	265 @ 2.000	705 @ 1.200	550	1.150	0.800	PAC-R514 PAC-R519	PAC-R614 PAC-R619	PAC-S117 PAC-S118	PAC-C204	Dual spring with a damper for high lift roller applications.
PAC-1396	1.574	1.150	No	0.826	260 @ 2.000	690 @ 1.200	538	1.150	0.800	PAC-R537	NA	PAC-S130 PAC-S131	PAC-C204	Dual spring without a damper for high lift roller applications.

SPECIFICATIONS: SPRING LOADS AND HEIGHTS

Part No.	PAC-1325	PAC-1326	PAC-1340	PAC-1341	PAC-1342	PAC-1344	PAC-1371	PAC-1373	PAC-1374	PAC-1385	PAC-1386	PAC-1395	PAC-1396
Mass (g)	151	158	142	170	157	142	119	136	154	156	149	159	152
Outer Freq	29368	29368	25500	26129	24906	32630	27294	30043	28047	26113	26113	26431	26431
Inner Freq	28294	28434	26412	27420	26443	32965	29226	32323	32325	28374	28095	28374	28095
Coil Bind	1.150	1.150	1.180	1.150	1.190	1.035	1.190	1.160	1.160	1.140	1.150	1.150	1.150
2.550			7		7								
2.500			31		22					10	10	12	12
2.450		4	54	40	47			20	16	25	25	29	29
2.400	5	15	77	67	73			49	35	42	40	47	45
2.350	25	46	101	98	98			82	54	67	66	73	72
2.300	57	76	124	128	123		7	116	78	92	91	100	99
2.250	89	109	147	158	149		21	149	111	119	117	127	126
2.200	121	142	171	189	174	4	41	183	144	145	142	155	152
2.150	153	176	194	219	199	41	63	216	177	171	168	182	179
2.100	186	209	217	250	225	79	85	250	209	197	194	210	206
2.050	218	242	241	280	250	116	106	283	242	224	219	237	233
2.000	250	275	264	310	275	153	128	317	275	250	245	265	260
1.950	282	308	287	341	301	190	150	350	308	276	271	292	287
1.900	314	341	311	371	326	227	172	384	341	302	296	320	314
1.850	347	374	334	401	351	264	194	417	373	329	322	347	341
1.800	379	407	357	432	377	301	215	451	406	355	347	375	367
1.750	411	441	381	462	402	339	237	484	439	381	373	402	394
1.700	443	474	404	493	427	376	259	518	472	407	399	430	421
1.650	475	507	427	523	452	413	281	551	505	434	424	457	448
1.600	507	540	451	553	478	450	303	585	537	460	450	485	475
1.550	540	573	474	584	503	487	324	618	570	486	476	512	502
1.500	572	606	497	614	528	524	346	652	603	512	501	540	525
1.450	604	639	521	644	554	561	368	685	636	539	527	567	556
1.400	636	672	544	675	579	599	390	719	669	565	552	595	582
1.350	668	706	567	705	604	636	411	752	702	591	578	622	609
1.300	701	739	591	736	630	673	433	786	734	617	604	650	636
1.250	733	772	614	766	655	710	455	819	767	644	629	677	663
1.200	765	805	637	796	680	747	477	853	800	670	655	705	690
1.150	797	838				784		887		696	681	732	717
1.100						821							
1.050						859							
1.000													
0.950													
0.900													

ENDURANCE VALVE SPRINGS

1500 SERIES

The 1500 Series springs were designed from our historical use in Circle Track. These are nitrided springs for use in the highest endurance applications. Nitriding allows for a durable surface and improved compressive stress. Additional Nano-Peening and ID and OD chamfering are performed to improve spring life and retainer fitment.

Part Number	Spring Diameters				Spring Loads					Recommended Matching Components				Comments
	OD Outer	ID Outer	Damper	ID Inner	Installed Height (Valve Closed)	Open Load (Valve Open)	Spring Rate	Max Coil Bind	Max Lift	400 & 500 Series Retainers	300 & 600 Series Retainers	Spring Seats	Spring Cups	
PAC-1509	1.539	1.125	Yes	0.731	200 @ 2.000	550 @ 1.300	500	1.130	0.750	PAC-R515	NA	PAC-S117 PAC-S118	PAC-C204	High endurance nitrided spring for high lift roller applications.
PAC-1512	1.102	0.806	No	0.580	110 @ 1.470	300 @ 0.920	346	0.850	0.575	PAC-R439 PAC-R539		NA	NA	FMOD Ford Dual Nitrided Spring For high RPM appications
PAC-1529	1.284	0.900	No	0.630	180 @ 1.900	600 @ 1.150	560	1.085	0.750	PAC-R432 PAC-R532	PAC-R632	PAC-S128	NA	Small diameter lightweight spring for lightweight valvetrains.
PAC-1530	1.284	0.900	No	0.616	160 @ 2.000	580 @ 1.250	560	1.180	0.750	PAC-R432 PAC-R532	PAC-R632	PAC-S128	NA	Small diameter lightweight spring for lightweight valvetrains.
PAC-1541	1.510	1.086	No	0.790	230 @ 2.050	625 @ 1.250	494	1.185	0.800	PAC-R540	NA	PAC-S103 PAC-S104	PAC-C202	High endurance Nitrided Spring for high lift aggressive applications.
PAC-1561	1.514	1.100	No	0.804	250 @ 2.000	636 @ 1.200	483	1.160	0.800	PAC-R505 PAC-R405	NA	PAC-S119 PAC-S120	PAC-C202	High endurance nitrided spring for high lift aggressive applications.
PAC-1572	1.510	1.086	No	0.774	180 @ 1.980	650 @ 1.180	588	1.110	0.800	PAC-R540	NA	PAC-S103 PAC-S104	PAC-C202	Dual spring without a damper for high lift roller applications.
PAC-1574	1.510	1.086	No	0.762	180 @ 1.980	685 @ 1.180	631	1.110	0.850	PAC-R553	NA	PAC-S103 PAC-S104	PAC-C202	High endurance Nitrided Spring for high lift aggressive applications.
PAC-1575	1.409	0.995	No	0.700	150 @ 2.000	645 @ 1.150	582	1.110	0.850	PAC-R552	NA	PAC-S114 PAC-S115	NA	High endurance Nitrided Spring for high lift aggressive applications.
PAC-1589	1.464	1.050	No	0.754	250 @ 2.000	627 @ 1.250	502	1.160	0.750	PAC-R508 PAC-R509	PAC-R608 PAC-R609	PAC-S110 PAC-S126	PAC-C201	High endurance Nitrided Spring for high lift aggressive applications.
PAC-1590	1.474	1.050	No	0.754	250 @ 2.050	670 @ 1.200	525	1.195	0.800	PAC-R508 PAC-R509	PAC-R608 PAC-R609	PAC-S110 PAC-S126	PAC-C202	High endurance Nitrided Spring for high lift aggressive applications.

SPECIFICATIONS: SPRING LOADS AND HEIGHTS

Part No.	PAC-1509	PAC-1512	PAC-1529	PAC-1530	PAC-1541	PAC-1561	PAC-1572	PAC-1574	PAC-1575	PAC-1589	PAC-1590
Mass (g)	148	53	99	111	143	141	136	140	125	135	141
Outer Freq	25510	27123	32185	29735	26332	26618	28580	28580	29026	26876	28458
Inner Freq	27259	39747	34200	32947	25326	27568	30487	32458	30604	26721	26721
Coil Bind	1.130	0.850	1.085	1.180	1.175	1.160	1.110	1.100	1.100	1.160	1.195
2.550											
2.500						11				3	15
2.450					33	33				27	40
2.400	11				57	57				53	66
2.350	32				82	81				78	92
2.300	55			5	107	105	2			103	119
2.250	78			22	131	129	21	20	11	128	145
2.200	101		15	44	156	153	51	41	34	153	171
2.150	125		40	72	181	178	80	73	63	178	197
2.100	150		68	100	205	202	109	104	92	203	224
2.050	175		96	128	230	226	139	136	121	228	250
2.000	200		124	156	255	250	168	167	150	253	276
1.950	225		152	184	279	274	198	199	179	279	302
1.900	250		180	211	304	298	227	230	208	304	329
1.850	275	4	208	239	329	322	256	262	237	329	355
1.800	300	14	236	267	354	346	286	294	266	354	381
1.750	325	24	264	295	378	371	315	325	296	379	407
1.700	350	34	292	323	403	395	344	357	325	409	434
1.650	375	47	320	351	428	419	374	388	354	429	460
1.600	400	65	348	379	452	443	403	420	383	454	486
1.550	425	82	376	407	477	467	433	451	412	479	512
1.500	450	99	404	434	502	491	462	483	441	504	539
1.450	475	116	432	462	526	515	491	515	470	530	565
1.400	500	134	460	490	551	539	521	546	499	555	591
1.350	525	151	488	518	576	564	550	578	529	580	617
1.300	550	168	516	546	600	588	580	609	558	605	644
1.250	575	186	544	574	625	612	609	641	587	630	670
1.200	600	203	572	602	650	636	638	672	616	655	696
1.150	625	220	600			660	668	704	645		
1.100		237	628				697				
1.050		255									
1.000		272									
0.950		289									
0.900		306									

CLASS AND SPECIALTY SPRINGS

Part Number	Spring Diameters				Spring Loads		Spring Rate	Max Coil Bind	Max Lift	Recommended Matching Components				Comments
	OD Outer	ID Outer	Damper	ID Inner	Installed Height (Valve Closed)	Open Load (Valve Open)				400 & 500 Series Retainers	300 & 600 Series Retainers	Spring Seats	Spring Cups	
PAC-1210X	1.245	0.891	NA	NA	87 @ 1.700	212 @ 1.270	290	1.150	0.430	NA	NA	NA	NA	GM 602 Crate motor "Cheater" Spring.
PAC-1212X	1.355	0.910	NA	NA	125 @ 1.750	315 @ 1.250	380	1.180	0.550	NA	NA	NA	NA	GM 604 Crate motor "Cheater" Spring. This spring meets the nominal specs but has variabe rate
PAC-1216	1.260	0.906	Yes	0.876	115 @ 1.800	350 @ 1.300	470	1.048	0.500	NA	NA	NA	NA	Race Saver Spec'd Spring
PAC-1280X	1.282	0.860	1.077	0.655	92 @ 1.80	285 @ 1.300	386	1.181	0.5	NA	NA	NA	NA	GM 604 Crate motor "Blue Beehive" Spring. This spring meets the nominal class specs but has variabe rate features that allow more RPM capability.

PAC-1210X

PAC-1280X

PAC-1212X

SPECIFICATIONS: SPRING LOADS AND HEIGHTS

Part Number	PAC-1210X	PAC-1212X	PAC-1216	PAC-1280X
Mass (g)	65	99	Call	69
Freq (cpm)*	31853	30844	Call	34702
Coil Bind	1.150	1.170	1.048	1.181
2.500				
2.450				
2.400				
2.350				
2.300				
2.250				
2.200				
2.150				
2.100				
2.050		11		
2.000		30	21	15
1.950	14	49	45	34
1.900	29	68	68	53
1.850	43	87	92	73
1.800	58	106	115	92
1.750	72	125	139	111
1.700	87	144	162	131
1.650	102	163	186	150
1.600	116	182	209	169
1.550	131	201	233	189
1.500	145	220	256	208
1.450	160	239	280	227
1.400	174	258	303	246
1.350	189	277	327	266
1.300	203	296	350	285
1.250	218	315	374	304
1.200	232	334	397	324
1.150	247		421	
1.100			444	
1.050			468	
1.000				
0.950				
0.900				

ENDURANCE VALVE SPRINGS

1200 SERIES

The 1200 Series Springs were developed for the sportsman racer looking for a quality but budget minded product. 1200 Series springs come with PAC Racing Proprietary heat treat process that will allow for outstanding load loss and durability.

Part Number	Spring Diameters				Spring Loads		Spring Rate	Max Coil Bind	Max Lift	Recommended Matching Components				Comments
	OD Outer	ID Outer	Damper	ID Inner	Installed Height (Valve Closed)	Open Load (Valve Open)				400 & 500 Series Retainers	300 & 600 Series Retainers	Spring Seats	Spring Cups	
PAC-1200	1.244	0.860	Yes	0.770	125 @ 1.750	350 @ 1.250	450	1.100	0.550	NA	PAC-R349 PAC-R649	NA	NA	Small diameter to fit stock pocket without machining. Single Spring with a Damper.
PAC-1201	1.260	0.860	Yes	0.770	140 @ 1.750	437 @ 1.200	540	1.115	0.550	NA	PAC-R349 PAC-R649	NA	NA	Small diameter to fit stock SBC pocket without machining. Single Spring with a Damper. High rate for aggressive cam.
PAC-1201X	1.260	0.860	Yes	0.770	150 @ 1.750	460 @ 1.200	540	1.115	0.550	NA	PAC-R349 PAC-R649	NA	NA	Additional RPM Processing to allow for Extreme Use and Endurance over Traditional PAC-1201 spring.
PAC-1202	1.244	0.860	No	0.624	160 @ 1.750	484 @ 1.150	540	1.100	0.575	NA	PAC-R334	PAC-S128	NA	Dual Spring for aggressive cams.
PAC-1203	1.260	0.860	No	0.624	145 @ 1.800	511 @ 1.200	610	1.115	0.650	NA	PAC-R334	PAC-S128	NA	Dual Spring for aggressive cams.
PAC-1227	1.539	1.125	Yes	0.731	200 @ 1.950	550 @ 1.250	500	1.130	0.700	PAC-R515	PAC-R315 PAC-R615	PAC-S117 PAC-S118	PAC-C204	Dual spring with a damper for high lift flat tappet applications. General purpose spring that works well with many endurance applications.
PAC-1239	1.550	1.126	Yes	0.720	220 @ 2.050	625 @ 1.300	540	1.180	0.800	PAC-R515	PAC-R315 PAC-R615	PAC-S110 PAC-S126	PAC-C204	Dual spring with a damper for roller cam applications.
PAC-1240	1.500	1.085	No	0.790	250 @ 2.030	614 @ 1.250	467	1.180	0.780	PAC-R540	NA	PAC-S103 PAC-S104	PAC-C202	Dual spring without damper for roller cam applicationS.
PAC-1243	1.550	1.136	No	0.812	240 @ 1.900	625 @ 1.200	550	1.150	0.700	PAC-R536	NA	PAC-S119 PAC-S120	PAC-C204	Dual spring for roller applications.
PAC-1244	1.570	1.120	No	0.780	190 @ 1.950	710 @ 1.250	743	1.035	0.800	PAC-R551	NA	PAC-S103 PAC-S104	PAC-C204	High Frequency High Lift Dual Spring for Roller Cam applications .
PAC-1245	1.550	1.136	No	0.812	240 @ 2.000	608 @ 1.300	526	1.200	0.750	PAC-R536	NA	PAC-S119 PAC-S120	PAC-C204	Dual spring for roller cam applications.
PAC-1254	1.554	1.140	Yes	0.746	194 @ 1.950	499 @ 1.300	470	1.170	0.650	PAC-R515	PAC-R315 PAC-R615	PAC-S117 PAC-S118	PAC-C204	Dual spring with a damper for various applications including marine.
PAC-1289	1.550	1.136	No	0.812	230 @ 2.000	580 @ 1.300	500	1.210	0.750	PAC-R536	NA	PAC-S119 PAC-S120	PAC-C204	Dual spring without damper for roller cam applications.
PAC-1294	1.545	1.131	Yes	0.757	175 @ 1.900	442 @ 1.275	428	1.180	0.700	PAC-R515	PAC-R315 PAC-R615	PAC-S117 PAC-S118	PAC-C204	Dual spring with a damper for flat tappet applications.
PAC-1297	1.539	1.125	Yes	0.731	200 @ 2.000	550 @ 1.300	500	1.130	0.700	PAC-R515	PAC-R315 PAC-R615	PAC-S117 PAC-S118	PAC-C204	Dual spring with a damper for high lift flat tappet applications. General purpose spring that works well with many endurance applications.
PAC-1298	1.625	1.175	Yes	0.769	250 @ 2.000	648 @ 1.300	564	1.210	0.700	PAC-R507	NA	PAC-S107 PAC-S108	PAC-C205	Dual spring with a damper for high lift roller applications.
PAC-1299	1.625	1.175	Yes	0.769	250 @ 2.050	673 @ 1.300	564	1.210	0.750	PAC-R507	NA	PAC-S107 PAC-S108	PAC-C205	Dual spring with a damper for high lift roller applications.

SPECIFICATIONS: SPRING LOADS AND HEIGHTS

Part No.	PAC-1200	PAC-1201	PAC-1201 (X)	PAC-1202	PAC-1203	PAC-1227	PAC-1239	PAC-1240	PAC-1243	PAC-1244	PAC-1245	PAC-1254	PAC-1289	PAC-1294	PAC-1297	PAC-1298	PAC-1299
Mass (g)	76	82	82	90	96	148	162	142	140	142	152	153	155	155	148	176	176
Outer Freq	35516	36938	36938	35516	36938	25510	25566	25500	27566	32630	26459	24192	25228	23344	25510	25673	25673
Inner Freq	NA	NA	NA	30832	30832	27259	27420	26142	29978	32965	28489	26331	26999	24294	27259	25290	25290
Coil Bind	1.075	1.130	1.130	1.075	1.115	1.130	1.180	1.180	1.150	1.035	1.200	1.170	1.210	1.180	1.130	1.210	1.200
2.550								7									2
2.500							6	31			1					1	10
2.450							22	54			17		13			9	31
2.400							40	77			32	2	30		11	30	57
2.350						11	65	101	6		56	17	55		32	56	83
2.300						32	90	124	22		82	39	80	7	55	83	109
2.250						55	115	147	47		109	60	105	27	78	109	137
2.200						78	140	171	75	4	135	82	130	48	101	136	165
2.150						101	166	194	103	41	161	103	155	68	125	165	194
2.100						125	193	217	130	79	187	125	180	90	150	193	222
2.050				9	9	150	220	241	157	116	214	147	205	111	175	222	250
2.000	12	7	12	25	22	175	247	264	185	153	240	171	230	132	200	250	278
1.950	35	32	38	52	53	200	274	287	212	190	266	194	255	154	225	278	306
1.900	57	59	65	73	83	225	301	311	240	227	293	217	280	175	250	307	335
1.850	80	86	94	106	114	250	328	334	267	264	319	241	305	196	275	335	363
1.800	103	113	122	133	145	275	355	357	295	301	345	264	330	218	300	364	391
1.750	125	140	150	160	175	300	382	381	322	339	371	288	355	239	325	392	419
1.700	148	167	178	187	206	325	409	404	350	376	398	311	380	260	350	421	447
1.650	170	194	206	214	236	350	436	427	377	413	424	335	405	282	375	449	476
1.600	193	221	235	241	267	375	463	451	405	450	450	358	430	303	400	477	504
1.550	215	248	263	268	297	400	490	474	432	487	477	382	455	325	425	506	532
1.500	238	275	291	295	328	425	517	497	460	524	503	405	480	340	450	534	560
1.450	260	302	319	322	358	450	544	521	488	561	529	429	505	367	475	563	588
1.400	283	329	348	349	389	475	571	544	515	599	555	452	530	389	500	591	617
1.350	305	356	376	376	419	500	598	567	543	636	582	476	555	410	525	620	645
1.300	328	383	404	403	450	525	625	591	570	673	608	499	580	431	550	648	673
1.250	350	410	432	430	480	550	652	614	598	710	634	522	605	453	575	676	701
1.200	373	437	460	457	511	575	679	637	625	747	661	546	630	474	600	705	
1.150	395	464	489	484	541	600			653	784		569			625		
1.100	418	491	517	511	572					821							
1.050										859							
1.000																	
0.950																	
0.900																	

SPRING RETAINERS

PAC OFFERS A FULL LINE OF MATCHING RETAINERS, SEATS, AND CUPS FOR PAC VALVE SPRINGS. THEY ARE SPECIFICALLY MATCHED WITH RADII AND DIAMETERS TO OPTIMIZE THE PERFORMANCE OF THE VALVE-TRAIN.

300 SERIES

CHROME MOLY STEEL

300 Series retainers are made from 4140 chrome moly steel, primarily designed for smaller beehive springs. These retainers are heat treated, black oxide finished and processed to maintain high strength with lightweight designs.

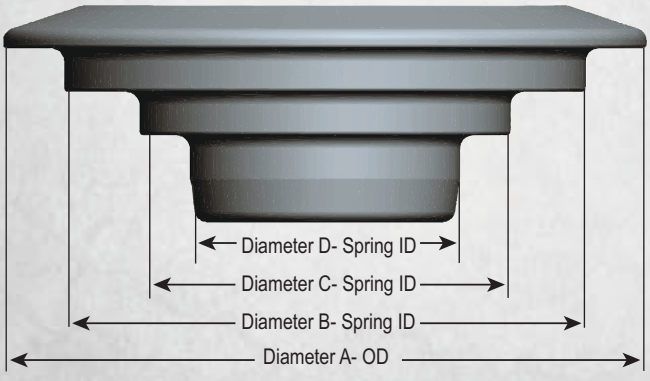
Part No.	Retainer Dimensions (in.)				Lock Angle (deg.)	Weight (grams)	Notes and Applications *Other applications may apply call for tech support
	Diameter A	Diameter B	Diameter C	Diameter D			
DUAL SPRING 300 SERIES							
PAC-R315	1.475	1.110	0.710	N/A	STD 10°	26.3	Steel retainer for Marine applications
PAC-R317	1.325	0.990	0.700	N/A	STD 10°	17.0	Steel retainer for 1371
PAC-R334	1.200	0.850	0.600	N/A	7°	17.0	Steel retainer for 1202,1203
PAC-R348	1.360	0.985	0.690	N/A	mini 8°	15.1	Steel retainer for 1371 Spring
PAC-R349	1.200	0.775	N/A	N/A	STD 8°	18.8	Steel retainer for 1200-1201

400 SERIES

PAC-TUFF 64 TITANIUM

PAC-Tuff™ Retainers are made from the best 6AL-4V Titanium alloy and completely sonic tested to aerospace standards prior to being machined. These retainers are designed for standard to high durability use and are designed to be very robust.

Part No.	Retainer Dimensions (in.)				Lock Angle (deg.)	Weight (grams)	Notes and Applications *Other applications may apply call for tech support
	Diameter A	Diameter B	Diameter C	Diameter D			
DUAL SPRING 400 SERIES							
PAC-R405	1.450	1.090	0.780	N/A	STD 10°	16.6	+0.050 Sportsman Drag Race/Circle Track
PAC-R432	1.200	0.890	0.600	N/A	Mini 8°	10.4	Titanium LS retainer for 1530,1335
PAC-R439	1.075	0.800	0.575	N/A	7°	7.8	Titanium Ford (FMOD) for 1512 spring



500 SERIES

TI-17 TITANIUM

Titanium spring retainers made from Ti-17 alloy. This alloy has shown greater tensile properties over other titanium products with its high strength and deep hardening alloys. These retainers are micro polished for enhanced fatigue life and are laser engraved for part number and batch identification.

Part No.	Retainer Dimensions (in.)				Lock Angle (deg.)	Weight (grams)	Notes and Applications *Other applications may apply call for tech support
	Diameter A	Diameter B	Diameter C	Diameter D			
DUAL SPRING 500 SERIES							
PAC-R505	1.400	1.090	0.780	N/A	STD 10°	15.0	Ti retainer for 1225,1325,1243,1561 Dual Springs
PAC-R506	1.400	1.090	0.695	N/A	STD 10°	14.4	Ti retainer for 1226,1326 Dual Springs
PAC-R507	1.475	1.165	0.760	N/A	STD 10°	16.5	Ti retainer for 1298, 1299 Dual springs
PAC-R508	1.365	1.040	0.715	N/A	STD 10°	12.9	Ti retainer for all 1.050 ID Dual Springs
PAC-R509	1.365	1.040	0.715	N/A	STD 8°	12.9	Ti retainer for all 1.050 ID Dual Springs
PAC-R514	1.475	1.140	0.735	N/A	STD 10°	14.8	Ti retainer for 1385,1395 Dual springs
PAC-R515	1.475	1.110	0.710	N/A	STD 10°	14.4	Ti retainer for 1227,1239,1254,1297,1509, Dual Springs
PAC-R517	1.325	0.990	0.700	N/A	STD 10°	11.8	Ti retainer for 1371 Dual Spring
PAC-R519	1.475	1.140	0.735	N/A	STD 8°	14.7	Ti retainer for 1385,1395 Dual springs
PAC-R532	1.200	0.890	0.600	N/A	Mini 8°	10.2	Ti retainer for 1530,1335 Dual springs
PAC-R536	1.450	1.125	0.800	N/A	STD 10°	15.9	Ti retainer for 1245,1289 Dual springs
PAC-R537	1.475	1.140	0.815	N/A	STD 8°	15.8	Ti retainer for 1342,1386,1396 Dual springs
PAC-R538	1.475	1.140	0.815	N/A	STD 10°	17.3	Ti retainer for 1342,1386,1396 Dual springs
PAC-R539							Ford FMOD retainer for PAC-1512 Spring
PAC-R540	1.400	1.080	0.770	N/A	STD 8°	14.1	Ti retainer for 1240,1340,1540 Dual spring
PAC-R541	1.400	1.090	0.695	N/A	STD 8°	13.2	Ti retainer for 1226, 1326,Dual Springs
PAC-R551	1.450	1.110	0.785	N/A	STD 8°	16.8	Titanium Retainer for 1244 Dual spring
PAC-R552	1.360	0.985	0.680	N/A	Mini 8°	13.1	Titanium Retainer for 1371,1575 Dual spring
PAC-R553	1.440	1.070	0.750	N/A	STD 8°	15.8	Titanium Retainer for 1574 Dual spring
PAC-R556	1.440	1.090	0.780	N/A	STD 8 °	16.3	Ti retainer for 1225,1325,1243,1561 Dual Springs
PAC-R557	1.450	1.120	0.715	N/A	STD 8°	15.4	Ti retainer for 1341

600 SERIES

TOOL STEEL

PACALOY® BILLET TOOL STEEL RETAINERS – These are the latest developments from PAC Racing Springs. These retainers feature ultra lightweight designs from valve spring type alloys. Sophisticated processing such as micropolishing and Nano Peen™ technology are used to enhance the retainer life. The high hardness of the steel has higher wear resistance properties.

Part No.	Retainer Dimensions (in.)				Lock Angle (deg.)	Weight (grams)	Notes and Applications *Other applications may apply call for tech support
	Diameter A	Diameter B	Diameter C	Diameter D			
DUAL SPRING 600 SERIES							
PAC-R606	1.400	1.090	0.695	N/A	STD 10°	16.6	Tool Steel retainer for 1226,1326 Dual Springs
PAC-R608	1.350	1.040	0.715	N/A	STD 10°	15.7	Tool Steel retainer for all 1.050 ID Dual Springs
PAC-R609	1.350	1.040	0.715	N/A	STD 8°	15.9	Tool Steel retainer for all 1.050 ID Dual Springs
PAC-R614	1.450	1.140	0.735	N/A	STD 10°	18.8	Tool Steel retainer for 1385,1395 Dual springs
PAC-R615	1.475	1.110	0.710	N/A	STD 10°	21.8	Tool Steel retainer for 1227,1239,1254,1297,1509, Duals
PAC-R619	1.450	1.140	0.735	N/A	STD 8°	17.8	Tool Steel retainer for 1385,1395 Dual springs
PAC-R632	1.250	0.890	0.600	N/A	mini 8°	Call	Tool Steel retainer for 1530,1335 Dual springs
PAC-R641	1.400	1.090	0.695	N/A	STD 8°	17.5	Tool Steel retainer for 1226, 1326,Dual Springs
PAC-R649	1.200	0.775	N/A	N/A	STD 8°	14.8	Tool Steel retainer 1200-1201 spring
PAC-R658	1.450	1.120	0.715	N/A	mini 8°	Call	Tool Steel Pro Series Race for 1341 spring (DLC Option)
PAC-R659	1.380	0.990	0.675	N/A	mini 8°	21.0	Tool Steel Pro Series Race for 1373 spring (DLC Option)
PAC-R661	1.430	1.095	0.695	N/A	mini 8°	22.0	Tool Steel Pro Series for 1326 spring (DLC Option)

VALVE LOCKS

LASH CAP RECESS LOCKS

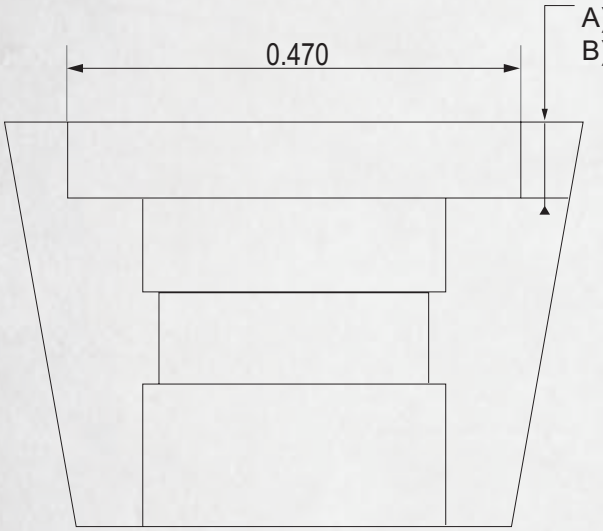
We have added several lock part numbers that feature a machined recess for lash caps.
The available locks with these feature are highlighted blue.

TO ORDER USE:

PAC-LR xxxx instead of the standard Part Number PAC-Lxxxx

Reference:

- LR = Lash Recess
- L= STD Lock no Recess
- STD installed height has recess of 0.030
- +0.050 installed height has recess of 0.080 depth



PAC-L8045

3/8" VALVE LOCKS

Part Number	Listed Valve Size	Type	Lock Angle	Valve Groove Type	Installation Height	Material
PAC-L8090	3/8	STD 10	10°	Square	STD	Titanium
PAC-L8091	3/8	STD 10	10°	Square	+0.050	Titanium
PAC-L8092	3/8	STD 10	10°	Square	STD	Steel
PAC-L8093	3/8	STD 10	10°	Square	+0.050	Steel
PAC-L8094	3/8	STD 8	8°	Square	STD	Titanium
PAC-L8095	3/8	STD 8	8°	Square	+0.050	Titanium
PAC-L8096	3/8	STD 8	8°	Square	STD	Steel
PAC-L8097	3/8	STD 8	8°	Square	+0.050	Steel
PAC-L8127	3/8	Mini 8	8°	Square	STD	Steel
PAC-L8128	3/8	Mini 8	8°	Square	+0.050	Steel

11/32" VALVE LOCKS

Part Number	Listed Valve Size	Type	Lock Angle	Valve Groove Type	Installation Height	Material
PAC-L8005	11/32	STD 10	10°	Square	0.000	Titanium
PAC-L8006	11/32	STD 10	10°	Radius	0.000	Titanium
PAC-L8007	11/32	STD 10	10°	Square	+0.050	Titanium
PAC-L8008	11/32	STD 10	10°	Radius	+0.050	Titanium
PAC-L8025	**11/32**	**STD 10**	**10°**	**Square**	**0.000**	**Steel**
PAC-L8026	11/32	STD 10	10°	Radius	0.000	Steel
PAC-L8027	**11/32**	**STD 10**	**10°**	**Square**	**+0.050**	**Steel**
PAC-L8028	**11/32**	**STD 10**	**10°**	**Radius**	**+0.050**	**Steel**
PAC-L8015	11/32	STD 8	8°	Square	0.000	Titanium
PAC-L8016	11/32	STD 8	8°	Radius	0.000	Titanium
PAC-L8017	11/32	STD 8	8°	Square	+0.050	Titanium
PAC-L8018	11/32	STD 8	8°	Radius	+0.050	Titanium
PAC-L8119	11/32	Mini 8	8°	Radius	STD	Titanium
PAC-L8121	11/32	Mini 8	8°	Square	STD	Titanium
PAC-L8035	11/32	STD 8	8°	Square	0.000	Steel
PAC-L8036	11/32	STD 8	8°	Radius	0.000	Steel
PAC-L8037	11/32	STD 8	8°	Square	+0.050	Steel
PAC-L8038	11/32	STD 8	8°	Radius	+0.050	Steel
PAC-L8131	11/32	Mini 8	8°	Radius	STD	Steel
PAC-L8132	11/32	Mini 8	8°	Radius	+0.050	Steel
PAC-L8133	11/32	Mini 8	8°	Square	STD	Steel
PAC-L8134	11/32	Mini 8	8°	Square	+0.050	Steel
PAC-L8146	11/32	STD 7°	7°	Square	STD	Steel
PAC-L8147	11/32	STD 7°	7°	Square	+0.050	Steel
PAC-L8154	11/32	STD 7°	7°	Radius	STD	Steel
PAC-L8155	11/32	STD 7°	7°	Radius	+0.050	Steel

AVAILABLE IN LASH CAP RECESS USE P/N PAC-LRxxxx

5/16" VALVE LOCKS

Part Number	Listed Valve Size	Type	Lock Angle	Valve Groove Type	Installation Height	Material
PAC-L8045	5/16	STD 10	10°	Square	0.000	Titanium
PAC-L8046	5/16	STD 10	10°	Radius	0.000	Titanium
PAC-L8047	5/16	STD 10	10°	Square	+0.050	Titanium
PAC-L8048	5/16	STD 10	10°	Radius	+0.050	Titanium
PAC-L8064	**5/16**	**STD 10**	**10°**	**Square**	**0.000**	**Steel**
PAC-L8065	**5/16**	**STD 10**	**10°**	**Radius**	**0.000**	**Steel**
PAC-L8066	**5/16**	**STD 10**	**10°**	**Square**	**+0.050**	**Steel**
PAC-L8067	**5/16**	**STD 10**	**10°**	**Radius**	**+0.050**	**Steel**
PAC-L8055	5/16	STD 8	8°	Square	0.000	Titanium
PAC-L8056	5/16	STD 8	8°	Radius	0.000	Titanium
PAC-L8057	5/16	STD 8	8°	Square	+0.050	Titanium
PAC-L8058	5/16	STD 8	8°	Radius	+0.050	Titanium
PAC-L8123	5/16	Mini 8	8°	Radius	STD	Titanium
PAC-L8125	5/16	Mini 8	8°	Square	STD	Titanium
PAC-L8073	5/16	STD 8	8°	Square	0.000	Steel
PAC-L8074	5/16	STD 8	8°	Radius	0.000	Steel
PAC-L8075	5/16	STD 8	8°	Square	+0.050	Steel
PAC-L8076	5/16	STD 8	8°	Radius	+0.050	Steel
PAC-L8135	5/16	Mini 8	8°	Radius	STD	Steel
PAC-L8136	5/16	Mini 8	8°	Radius	+0.050	Steel
PAC-L8137	5/16	Mini 8	8°	Square	STD	Steel
PAC-L8138	5/16	Mini 8	8°	Square	+0.050	Steel
PAC-L8148	5/16	STD 7°	7°	Square	STD	Steel
PAC-L8149	5/16	STD 7°	7°	Square	+0.050	Steel
PAC-L8150	5/16	STD 7°	7°	Radius	STD	Steel
PAC-L8151	5/16	STD 7°	7°	Radius	+0.050	Steel

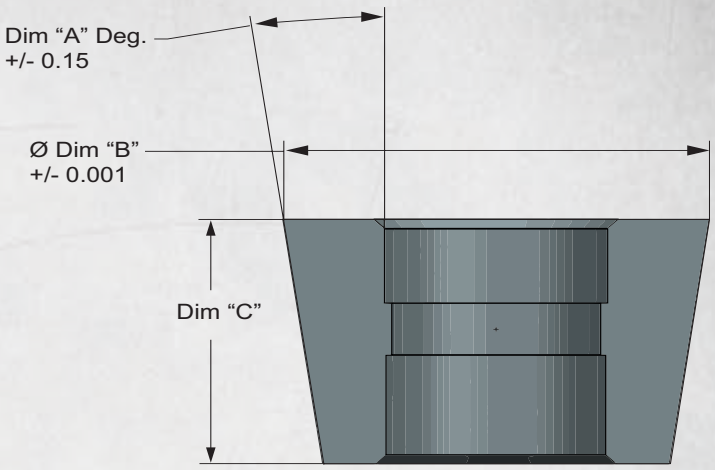
7MM VALVE LOCKS

Part Number	Listed Valve Size	Type	Lock Angle	Valve Groove Type	Installation Height	Material
PAC-L8078	7 mm	STD 10	10°	Radius	STD	Titanium
PAC-L8079	7mm	STD 10	10°	Radius	+0.050	Titanium
PAC-L8080	7mm	STD 10	10°	Radius	STD	Steel
PAC-L8081	7mm	STD 10	10°	Radius	+0.050	Steel
PAC-L8082	7mm	STD 8	8°	Radius	STD	Titanium
PAC-L8083	7mm	STD 8	8°	Radius	+0.050	Titanium
PAC-L8084	7mm	STD 8	8°	Radius	STD	Steel
PAC-L8085	7mm	STD 8	8°	Radius	+0.050	Steel
PAC-L8129	7mm	Mini 8	8°	Radius	STD	Titanium
PAC-L8130	7mm	Mini 8	8°	Radius	+0.050	Titanium
PAC-L8086	7mm	FMOD 7	7°	Triple Radius	STD	Steel OE

AVAILABLE IN LASH CAP RECESS USE P/N PAC-LRxxxx

LS ENGINE VALVE LOCKS

Part Number	Listed Valve Size	Type	Lock Angle	Valve Groove Type	Installation Height	Material
PAC-L8117	8mm	Mini 8	8°	Radius	STD	Titanium
PAC-L8118	8mm	Mini 8	8°	Radius	+0.050	Titanium
PAC-L8141	8mm	Mini 8	8°	Radius	STD	Steel
PAC-L8142	8mm	Mini 8	8°	Radius	+0.050	Steel
PAC-L8113	8mm	LS-1	7°	Radius	STD	Steel
PAC-L8114	8mm	LS-1	7°	Radius	+0.050	Steel
PAC-L8116	8mm	LS-1	7°	Radius	-0.050	Steel
PAC-L8152	8mm	STD 7	7°	Radius	STD	Steel
PAC-L8153	8mm	STD 7	7°	Radius	+0.050	Steel



VALVE LOCK STANDARDS

Lock Type	Dim. A (Angle)	Dim. B (Cone Top)	Dim. C (Lock Height)
STD 10	10.00°	0.6100	0.400
STD 8	8.00°	0.6000	0.400
Mini 8	8.00°	0.5200	0.380
LS-1	7.00°	0.4700	0.300
STD 7°	7.00°	0.4950	0.360

PAC-T950 LOCK AND RETAINER CONE IDENTIFICATION TOOL KIT

PAC Racing Springs has developed this tool for Racers and Engine builders to correctly identify lock angles and correct cones for the various locks and retainers. This tool has a combined lock standards guide and assorted lock standards to alleviate choosing the wrong locks with matching retainers.

This tool simply works by choosing the lock standard cone (laser marked and identified) and placing it on the easy to grip handle and inserting into current or new retainers. Use this tool if you don't know what angle you need and alleviate lost part number headaches. This information will help identify the correct parts and allow PAC Racing Associates to get you the correct parts

The PAC-T950 Kit comes with the following parts:

PAC-T951	Aluminum Knurled Anodized Handle
PAC-T953	STD 7 Degree Street Lock Cone (LT-1)
PAC-T954	STD 8 Degree Cone (Also known as Super 7)
PAC-T955	Mini 8 Degree Cone (Top Lock Design)
PAC-T956	STD 10 Degree Cone
PAC-T958	LS Based 7 degree Cone
PAC-T959	Top Fuel 7 degree Cone

Bolts to use with the handle

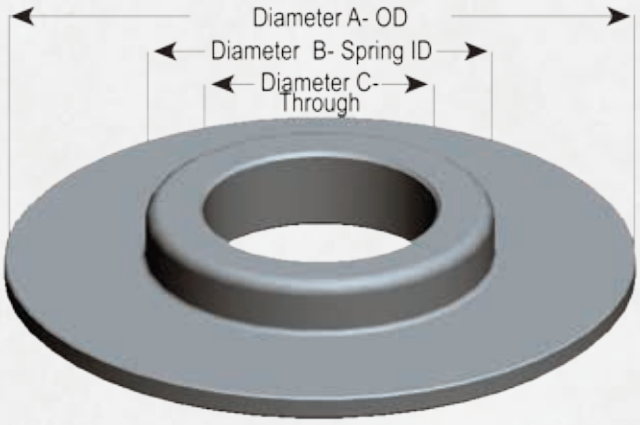
Allen Wrench to secure lock standards to handle

SPRING SEATS

CHROME MOLY SPRING SEATS

Part Number	Diameter A (in.)	Diameter B (in.)	Diameter C (in.)	Dim "E" Thickness
PAC-S103	1.550	0.770	0.575	0.060
PAC-S104	1.550	0.770	0.635	0.060
PAC-S105	1.550	0.700	0.575	0.060
PAC-S106	1.550	0.700	0.635	0.060
PAC-S107	1.625	0.760	0.635	0.060
PAC-S108	1.625	0.760	0.575	0.060
PAC-S110	1.500	0.715	0.570	0.060
PAC-S114	1.450	0.700	0.570	0.060
PAC-S115	1.450	0.700	0.630	0.060
PAC-S117	1.550	0.730	0.575	0.060
PAC-S118	1.550	0.730	0.630	0.060
PAC-S119	1.550	0.800	0.575	0.060
PAC-S120	1.550	0.800	0.630	0.060
PAC-S126	1.500	0.715	0.630	0.060
PAC-S127	1.500	0.715	0.630*	0.030
PAC-S128	1.270	0.600	0.520	0.060
PAC-S130	1.550	0.820	0.575	0.060
PAC-S131	1.550	0.820	0.630	0.060
PAC-S137X	1.400	0.685	0.570*	0.030

*0.030 thick seats. These are a great way to get more installed height.
Tool steel seats also available, to order add a "-X" to the chrome moly seat part number.



Chrome Moly Spring Seat

X SERIES TOOL STEEL

How to order:

PAC – S103 – X

Chrome Moly Standard Seats

Adds tool steel option

From decades of research and development comes the next level of performance and batch consistency. We have developed a 100% made in USA exclusive spring alloy that improves the inclusion size and content by nearly 40%. These advancements are designed for the pro engine builder who is looking for the next level of performance.

VALVETRAIN TOOLS

DIGITAL GRAM SCALE

This small, inexpensive scale is extremely useful for weighing springs, retainers, locks or any of your valvetrain components. This scale is used regularly by PAC engineers.

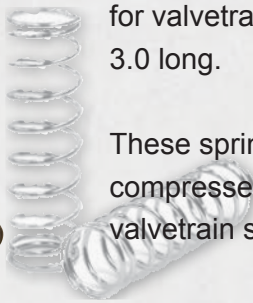
- 1000 gram capacity
- Easy one-button calibration
- Stainless steel platform
- Backlit LCD display
- Powered by 2 AAA batteries (included)
- Auto-off timeout feature to save battery life

PAC-T940

CHECKING SPRINGS

PAC-T910

These lightweight springs are used for valvetrain mock-up 0.860 OD x 3.0 long.



These springs are easily compressed by hand for ease of valvetrain setup and checking.

CALIBRATION SPRINGS

PAC-T900

Specially designed springs for calibrating spring testers.

These springs come complete with data sheets showing various loads at heights to check the accuracy of spring testers.

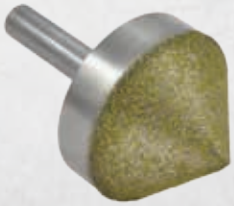
Certificate of calibration included

SPRING INSTALLED HEIGHT GAGES

- Stainless steel construction for extremely long life
- Non-magnetic to avoid pulling shims when using
- Increased accuracy and precision with finer pitch threads
- Several models to choose from

PAC-T902 **PAC-T903** **PAC-T904** **PAC-T901**

Part Number	Height Range	ID	Per Turn	Use	Color
PAC-T901	1.400 to 2.000	0.760	0.050	Beehive springs	Blue
PAC-T902	1.800 to 2.500	1.200	0.050	Pro Series & Drag Race	Red
PAC-T903	1.400 to 1.900	1.200	0.050	Engine Builders	Orange
PAC-T904	1.400 to 2.000	0.975	0.050	LS Dual Springs	Purple



SPRING CHAMFER TOOL

PAC-T920

Shank Diameter 3/8"

Outside Diameter 1.750"

Chamfer 100-200 springs before needing to be coated again.

TAPE MEASURE

PAC-T941

$3 SPECIAL

PAC APPAREL

Show off your favorite springmakers with our exclusive PAC Racing wearables! We have T-shirts, long sleeved T-shirts, sweatshirts, hoodies and hats available in many sizes. Contact us for large apparel orders or custom screenprinting & embroidery questions. High quality, heavyweight cotton blends.

PAC Beanie
One-size

PAC Flat Bill Hats
Sizes S-3X

PAC Structured Hats
Sizes S-3X

PAC T-Shirts & Long Sleeved Tees
Sizes S-3X

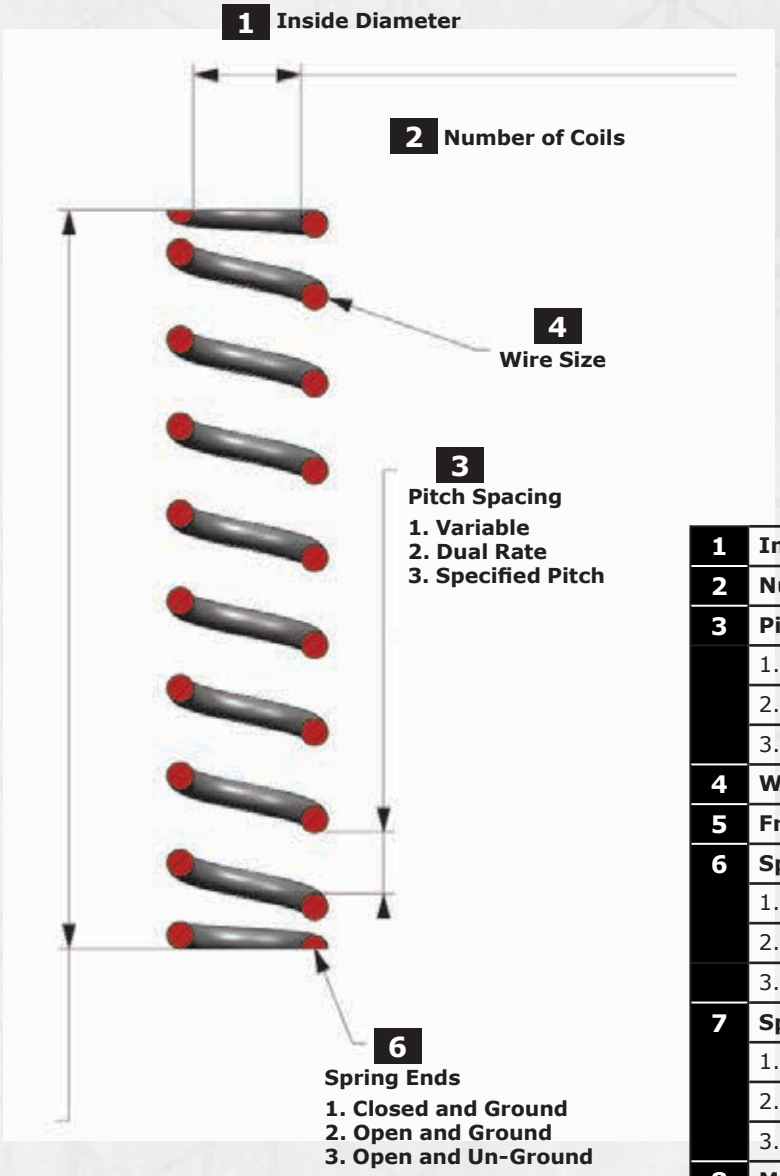
PAC Women's T-Shirts
Sizes S-3X

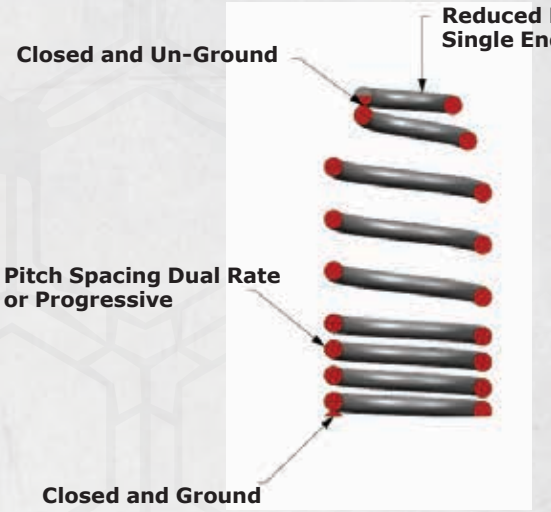
Special Edition
Limited Supply

SUSPENSION SPRINGS

FAX TO:
(248) 350-3206

CUSTOM SPRING DESIGN REQUEST FORM





Free Length

CONTACT NAME _____

COMPANY NAME _____

ADDRESS _____

ADDRESS _____

CITY _____ STATE _____

ZIP CODE _____ COUNTRY _____

PHONE NUMBER _____

FAX NUMBER _____

EMAIL ADDRESS _____

WEBSITE _____

1	**Inside Diameter**	
2	**Number of Coils**	
3	**Pitch Spacing** (Circle Applicable)	
	1. Progressive	
	2. Multiple Rate	
	3. Specified Rate	
4	**Wire Size**	
5	**Free Length**	
6	**Spring Ends** (Circle Applicable)	
	1. Closed and Ground	
	2. Open and Ground	
	3. Open and Un-Ground	
7	**Spring Type** (Circle Applicable)	
	1. Straight Cylindrical	
	2. Single End Reduced Dia.	
	3. Double End Reduced Dia.	
8	**Material Type** (Circle Applicable)	
	1. Standard Spring Steel	
	2. Super High Tensile Alloy	
	3. High Temperature	
	4. Titanium	
	5. Shaped Wire	
9	Bind Height	
10	Application	
11	Spring Rate	
12	Target Pricing	

Additional Notes or Comments: _____

_____

_____

_____

VALVE SPRING CUSTOM DESIGN REQUEST FORM

NAME _____

COMPANY NAME _____

ADDRESS _____

ADDRESS _____

CITY _____ STATE _____ ZIP CODE _____

COUNTRY _____

PHONE NUMBER _____

FAX NUMBER _____

EMAIL ADDRESS _____

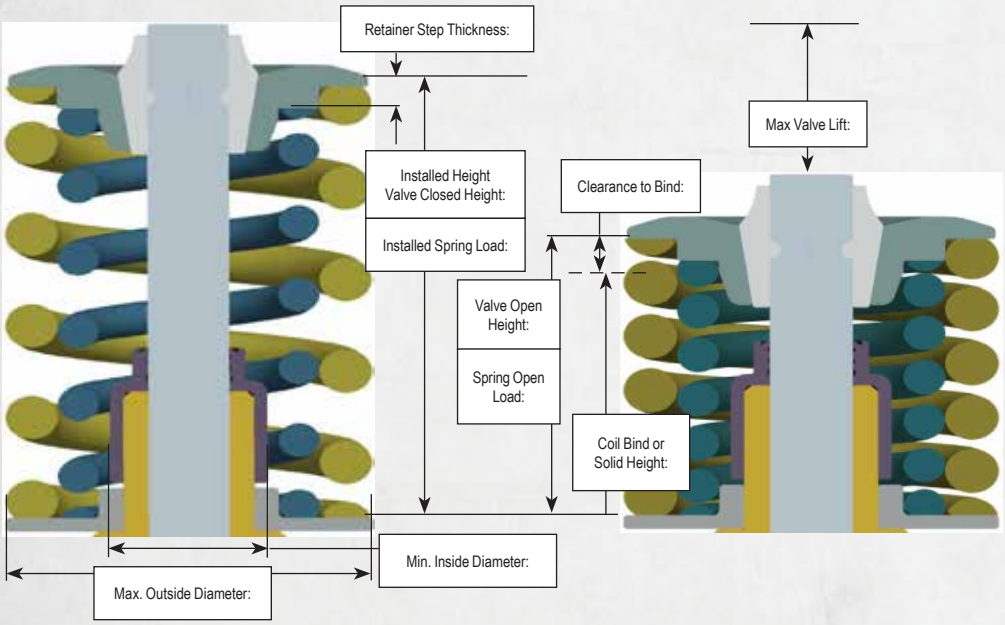
WEBSITE _____

www.RacingSprings.com

PAC Racing Springs
21200 Telegraph Road
Southfield, MI 48033
1-866-799-9417

This is PAC's starting point to provide you the absolute best valve spring tailored completely to your engine application. Please fill this out as completely as possible. This information will be used by our engineering staff to design a spring that will provide a spring that will control the valve to the requested RPM while reducing operating stresses as much as possible. Please feel free to contact our staff for any assistance with this. All information provided will be held in the strictest confidence and will be completely proprietary to your company.

BASIC SPRING LAYOUT



This diagram is very general but the basic load, height and operating envelopes can be defined for most engine configurations

Other Requirements	
Chamfering	
Identification	
Tip Conditioning	
Load Tolerance	
Solid Height Tolerance	

What is the application: (Street, Drag, Oval, etc.)? _____

What is the expected RPM Range? _____

What is the expected life of the spring: (Race, Season, Cycles, etc.)? _____

What type of springs is desired: (Single, Dual, Triple, Beehive, etc.)? _____

Does this spring need to fit an existing retainer or seat? _____

What is the current spring used for this application? _____

What are the problems / issues with the current springs used? _____

Any other comments: _____

_____

Valvetrain Information: (if not proprietary)

Engine / type _____ Rocker arm ratio _____

Cam lift / profile * _____ Rocker arm mass / stiffness _____

Tappet mass _____ Retainer mass _____

Pushrod mass _____ Valve stem lock mass _____

*We can accept many forms of lift / profile data – contact PAC Racing Springs for more detailed information.

Please fax or mail to PAC Racing Springs • Fax 248-350-3206

SWAY BAR CUSTOM DESIGN ORDER FORM

We can create any sway bar specific for your application. Spline patterns, custom lengths, and larger/smaller diameters are all easily changed to your exact specifications.

NAME _____

COMPANY NAME _____

ADDRESS _____

ADDRESS _____

CITY _____ **STATE** _____ **ZIP CODE** _____

COUNTRY _____

PHONE NUMBER _____

FAX NUMBER _____

EMAIL ADDRESS _____

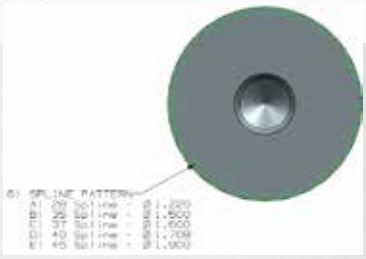
WEBSITE _____

www.RacingSprings.com

PAC Racing Springs
21200 Telegraph Road
Southfield, MI 48033
1-866-799-9417

Fax to: (248) 350-3206

1	Overall Length	
2	Spline Length	
3	Bushing Width	
4	Active Diameter	
5	Spline Diameter	
6	Spline Pattern	

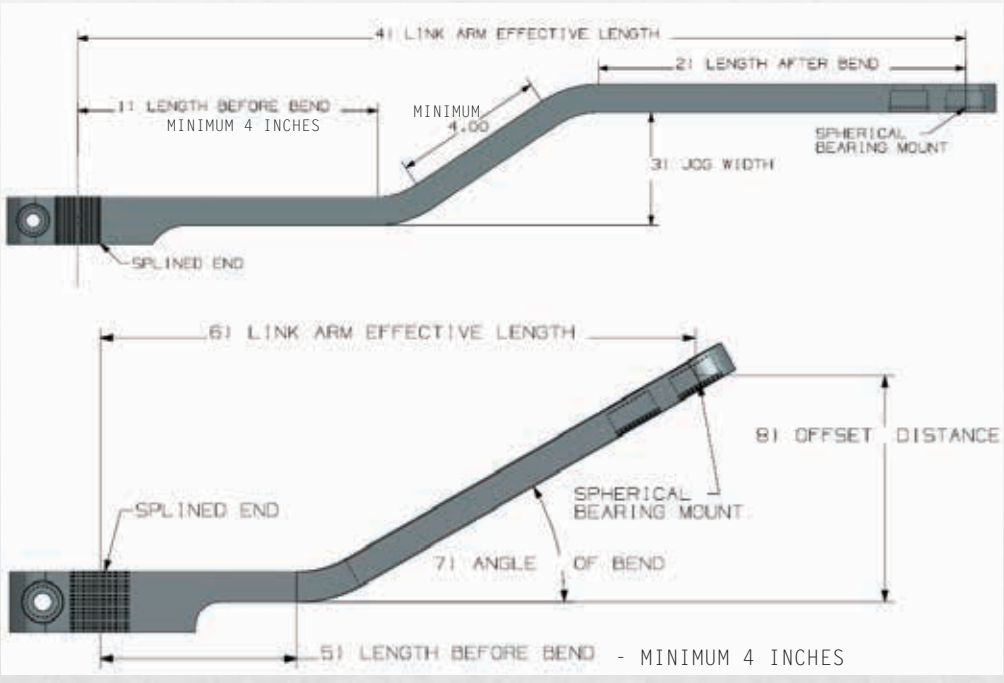


Additional Notes/ Comments: _____

_____

BENT LINK ARM CUSTOM ORDER FORM

We can bend any of our standard aluminum or steel link arms to your specifications. Please enter your application information, as we need to validate your sizing to ensure that materials are not overstressed.



Your Application Information*	
Wheel Travel	
Radius Rod Length	
Sway Bar Active Diameter	
Sway Bar Material	

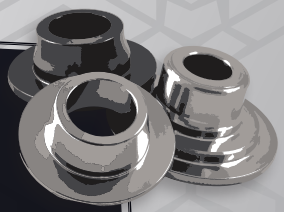
*Needed to determine forces experienced due to link arm lengths and suspension travel

	For Jog in Link Arm (2 Bends)	
1	Length Before Bend	
2	Length After Bend	
3	Jog Width	
4	Link Arm Effective Length	

	For Single Bend In Link Arm	
5	Length Before Bend	
6	Link Arm Effective Length	
7	Angle of Bend	
8	Offset Distance	

Manufacturers of:

VALVE TRAIN COMPONENTS



- Titanium Retainers
- Pacaloy® Steel Retainers
- Titanium & Steel Locks
- Spring Cups & Locators
- Custom Applications

VALVE SPRINGS

- Drag Race
- Circle Track
- Marine
- Endurance
- Street & Strip
- RPM Beehives
- Custom Applications & Vintage

SHOCKS

- Complete line-up for all markets
- Full Suspension system approach
- Made In the USA
- Un-Paralleled performance

SUSPENSION SPRINGS

- Off-Road
- Drag Race
- Circle Track
- Coil Over Shock Springs
- Road Magnet Series - Lowering

TOOLS & ENGINEERING

- Assembly Tools
- Fully Accredited Metallurgic Lab
- SpinTron® Engine Testing
- Rapid Prototype Capability
- Retail Kits & Specialized Packaging

SWAY BARS

- Steel
- Titanium
- Link Arms
  - Aluminum
  - Steel
  - Fabricated
- Custom Designs

Online Store

Visit us online to browse our wide selection, check part availability and to view our current prices.

Please view all of PAC Racing components for all of your high performance needs from suspension springs to valve springs and more.

PAC Racing Springs are proudly made in the U.S.A.

#PACRacingSprings

PETERSON SPRING
MANUFACTURERS OF ENGINEERED METAL PRODUCTS

PAC®
RacingSprings.com

PAC Racing Springs
21200 Telegraph Road
Southfield, MI 48033
Toll Free: 866-799-9417
Email: tech@racingsprings.com
Fax: 248-350-3206