



## SPORTSTER®

- High Flow Valves
- Valves Guides
- Valves Seals
- Compression Release Valves
- Valves Spring kits
- Valves Spring Shims



## AV&V Black & Chrome Tulip Extreme Duty Valves (5/16 stem)

These superb valves feature the highest flow level on the market. They are one piece forged from a racing grade stainless steel alloy.

Each valve has a bearing quality hardened tip to prevent premature wear with high-lift cams.

AV&V's 5/16 stem valves also features a 45° angle below the lock groove to facilitate valve seal installation.

Each valve is heat treated with a special process and their stems centerless grinded to a micro finish for longer life.



High Flow Valves		AVI480			
Exhaust					
Head Dia.	Overall Length	Stem Dia.	Coating	Tip Length	Groove
1.480"	4.640"	.3106"	Black nitride	.200"	Single
Note					
<ul style="list-style-type: none"> <li>• 25° back angle tulip</li> <li>• Sportster® 883 to 1200 conversion</li> <li>• Seats must be machined deeper and their I.D. bored</li> <li>• 5/16" stem</li> </ul>					



High Flow Valves		AVI485			
Exhaust					
Head Dia.	Overall Length	Stem Dia.	Coating	Tip Length	Groove
1.485"	4.560"	.3106"	Black nitride	.200"	Single
Note					
<ul style="list-style-type: none"> <li>• 25° back angle tulip</li> <li>• Sportster® 1200 and Buell®</li> <li>• Also good as stock replacement</li> <li>• 5/16" stem</li> </ul>					



High Flow Valves		AVI580			
Exhaust					
Head Dia.	Overall Length	Stem Dia.	Coating	Tip Length	Groove
1.580"	4.575"	.3106"	chrome	.200"	Single
Note					
<ul style="list-style-type: none"> <li>• 25° back angle tulip</li> <li>• Sportster® 1200, Buell® (fits Thunderstorm)</li> <li>• 5/16" stem</li> </ul>					



High Flow Valves		AVI720B			
Intake					
Head Dia.	Overall Length	Stem Dia.	Coating	Tip Length	Groove
1.720"	4.480"	.3108"	Black nitride	.200"	Single
Note					
<ul style="list-style-type: none"> <li>• 23° back angle tulip</li> <li>• Sportster® 1200 and Buell®</li> <li>• Also good as stock replacement</li> <li>• 5/16" stem</li> </ul>					


**High Flow Valves**
**AV1770**
**Intake**

Head Dia.	Overall Length	Stem Dia.	Coating	Tip Length	Groove
1.770"	4.480"	.3108"	Black nitride	.200"	Single

**Note**

- 23° back angle tulip
- 1200 Sportster® & Buell®
- .050" oversize valve
- 5/16" stem


**High Flow Valves**
**AV1813**
**Intake**

Head Dia.	Overall Length	Stem Dia.	Coating	Tip Length	Groove
1.812"	4.485"	.3108"	Chrome	.200"	Single

**Note**

- 24° back angle tulip
- Sportster 1200® and Buell®
- 5/16" stem


**High Flow Valves**
**AV1851**
**Intake**

Head Dia.	Overall Length	Stem Dia.	Coating	Tip Length	Groove
1.851"	4.485"	.3108"	Chrome	.200"	Single

**Note**

- 24° back angle tulip
- Sportster® 1200 and Buell®
- Oversize valve
- 5/16" stem


**High Flow Valves**
**AV1720**
**Intake**

Head Dia.	Overall Length	Stem Dia.	Coating	Tip Length	Groove
1.720"	4.560"	.3108"	Black nitride	.200"	Single

**Note**

- 22° back angle tulip
- Sportster® 883 to 1200 conversion
- Seats must be machined deeper and their I.D. bored
- 5/16" stem

## AV&V Black & Chrome Tulip Extreme Duty Valves (7mm stem)

These superb valves feature the highest flow level on the market. They are one piece forged from a racing grade stainless steel alloy.

Each valve has a bearing quality hardened tip to prevent premature wear with high-lift cams.

Each valve is heat treated with a special process and their stems centerless grinded to a micro finish for longer life.

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### High Flow Valves

### AVI485-7TGB

#### Exhaust

Head Dia.	Overall Length	Stem Dia.	Coating	Tip Length	Groove
1.485"	4.680"	.2755"	Black nitride	.085"	Triple

#### Note

- 23° back angle tulip
- Sportster® 883 to 1200 conversion
- 7MM stem



### High Flow Valves

### AVI576-7TGB

#### Exhaust

Head Dia.	Overall Length	Stem Dia.	Coating	Tip Length	Groove
1.575"	4.620"	.2755"	Black nitride	.085"	Triple

#### Note

- 25° back angle tulip
- 1200 Sportster®, Buell XB9® et XB12®
- Also good as stock replacement
- 7MM stem



### High Flow Valves

### AVI725-7TGB

#### Intake

Head Dia.	Overall Length	Stem Dia.	Coating	Tip Length	Groove
1.725"	4.580"	.2757"	Black nitride	.085"	Triple

#### Note

- 23° back angle tulip
- Sportster® 883 to 1200 conversion (2004 and up)
- 7MM stem



### High Flow Valves

### AVI811-7TGB

#### Intake

Head Dia.	Overall Length	Stem Dia.	Coating	Tip Length	Groove
1.810"	4.480"	.2757"	Black nitride	.085"	Triple

#### Note

- 24° back angle tulip
- 1200 Sportster®, Buell XB9® and XB12®
- Also good as stock replacement
- 7MM stem





High Flow Valves		AVI85I-7TGB			
Intake					
Head Dia.	Overall Length	Stem Dia.	Coating	Tip Length	Groove
1.851"	4.520"	.2757"	Black nitride	.085"	Triple
Note					
<ul style="list-style-type: none"> <li>• 24° back angle tulip</li> <li>• 1200 Sportster®, Buell XB9® et XB12®</li> <li>• .040" Oversize valves</li> <li>• 7MM stem</li> </ul>					

## AV&V Extreme Duty Replacement Valves

These superb valves are one piece forged from a racing grade stainless steel alloy.

The stems are centerless grinded to a micro finish for longer life.

Our liquid nitriding process creates a valve that is smoother and stronger than traditional O.E.M. or replacement valves.



AVI355					
Exhaust					
Head Dia.	Overall Length	Stem Dia.	Coating	Tip Length	Groove
1.355"	4.635"	.3106"	Black nitride	.200"	Single
Note					
<ul style="list-style-type: none"> <li>• 23° back angle tulip</li> <li>• Sportster® 883</li> <li>• 5/16" stem</li> </ul>					



AVI485					
Exhaust					
Head Dia.	Overall Length	Stem Dia.	Coating	Tip Length	Groove
1.485"	4.560"	.3106"	Black nitride	.200"	Single
Note					
<ul style="list-style-type: none"> <li>• 25° back angle tulip</li> <li>• Sportster® 1200 and Buell®</li> <li>• 5/16" stem</li> </ul>					

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## AV&V Extreme Duty Replacement Valves

These superb valves are one piece forged from a racing grade stainless steel alloy.

Our liquid nitriding process creates a valve that is smoother and stronger than traditional O.E.M. or replacement valves.

The stems are centerless grinded to a micro finish for longer life.

**AV&V™** Extreme Duty 5/16" valves also feature a 45° angle below the lock groove to facilitate valve seal installation.



AVI590					
Intake					
Head Dia.	Overall Length	Stem Dia.	Coating	Tip Length	Groove
1.590"	4.550"	.3108"	Black nitride	.200"	Single
Note					
<ul style="list-style-type: none"> <li>• 23° back angle tulip</li> <li>• Sportster® 883</li> <li>• 5/16" stem</li> </ul>					



High Flow Valves	AVI720B				
Intake					
Head Dia.	Overall Length	Stem Dia.	Coating	Tip Length	Groove
1.720"	4.480"	.3108"	Black nitride	.200"	Single
Note					
<ul style="list-style-type: none"> <li>• 23 ° back angle tulip</li> <li>• 5/16" stem</li> <li>• Sportster® 1200 and Buell®</li> </ul>					



High Flow Valves	AVI576-7TGB				
Exhaust					
Head Dia.	Overall Length	Stem Dia.	Coating	Tip Length	Groove
1.575"	4.620"	.2755"	Black nitride	.085"	Triple
Note					
<ul style="list-style-type: none"> <li>• 25° back angle tulip</li> <li>• 1200 Sportster®, Buell XB9® and XB12®</li> <li>• 7MM stem</li> </ul>					



High Flow Valves	AVI811-7TGB				
Intake					
Head Dia.	Overall Length	Stem Dia.	Coating	Tip Length	Groove
1.810"	4.480"	.2757"	Black nitride	.085"	Triple
Note					
<ul style="list-style-type: none"> <li>• 24° back angle tulip</li> <li>• 1200 Sportster®, Buell XB9® and XB12®</li> <li>• 7MM stem</li> </ul>					

# AV&V Extreme Duty Manganese Bronze Valve Guides (5/16 valves)



- AV&V's Manganese bronze valve guides are CNC machined. Our alloy allows you to fit both intake and exhaust valves at tighter clearances for better heat dissipation, quieter running and longer engine life.
- Special Hi-temp. Viton O'rings are used to prevent oil infiltration between guide & head.
- Tapered & radiused nose for easier installation and better air flow.
- Unique Super Grip valve seal section : use either OEM style or viton seals.
- Unfinished I.D. ready to be easily finished with AV&V's Carbide reamers. (see reamers section)



O.D.	I.D.	Oversize	Overall Length	Intake	Exhaust
High Lift & High Flow application					
.5625"	.308"	Std	2.100"	<b>VG5600</b>	<b>VG5700</b>
.5635"	.308"	.001"	2.100"	<b>VG5601</b>	<b>VG5701</b>
.5645"	.308"	.002"	2.100"	<b>VG5602</b>	<b>VG5702</b>
.5655"	.308"	.003"	2.100"	<b>VG5603</b>	<b>VG5703</b>
.5665"	.308"	.004"	2.100"	<b>VG5604</b>	<b>VG5704</b>
.5675"	.308"	.005"	2.100"	<b>VG5605</b>	<b>VG5705</b>
.5685"	.308"	.006"	2.100"	<b>VG5606</b>	<b>VG5706</b>
.5725"	.308"	.010"	2.100"	<b>VG5610</b>	<b>VG5710</b>
.5875"	.308"	.025"	2.100"	<b>VG5625</b>	<b>VG5725</b>

- Use with .531" Viton valve seals (V312531).
- Shorter seal area for high lift application.
- Profiled for optimum airflow.



O.D.	I.D.	Oversize	Overall Length	Intake	Exhaust
High Lift & High Flow application					
.5625"	.308"	Std	2.100"	<b>VG5600S</b>	<b>VG5700S</b>
.5630"	.308"	.0005"	2.100"	<b>VG5600-5S</b>	<b>VG5700-5S</b>
.5635"	.308"	.001"	2.100"	<b>VG5601S</b>	<b>VG5701S</b>

- Same guides as above except for seal diameter.
- Use with .421" Viton valve seals (V312421), or O.E. style valve seals (K312420)



O.D.	I.D.	Oversize	Overall Length	Intake & Exhaust
Stock replacement				
.5625"	.308"	Std	2.250"	<b>VG5500</b>
.5635"	.308"	.001"	2.250"	<b>VG5501</b>
.5645"	.308"	.002"	2.250"	<b>VG5502</b>
.5655"	.308"	.003"	2.250"	<b>VG5503</b>
.5665"	.308"	.004"	2.250"	<b>VG5504</b>
.5875"	.308"	.025"	2.250"	<b>VG5525</b>

- Use with .531" O.E. style valve seals (K312530).
- Stock length
- Stock replacement

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## AV&V Extreme Duty Manganese Bronze Valve Guides (7MM valves)

- AV&V's Manganese bronze valve guides are CNC machined. Our alloy allows you to fit both intake and exhaust valves at tighter clearances for better heat dissipation, quieter running and longer engine life.
- Special Hi-temp. Viton O'rings are used to prevent oil infiltration between guide & head.
- Tapered & radiused nose for easier installation and better air flow.
- Unique Super Grip valve seal section : use either OEM style or viton seals.
- Unfinished I.D. ready to be easily finished with AV&V's Carbide reamers. (see reamers section)



O.D.	I.D.	Upsize	Overall Length	Intake	Exhaust
High Lift & High Flow application					
.5625"	.273"	Std	2.040"	<b>VG6600</b>	<b>VG6700</b>
.5635"	.273"	.001"	2.040"	<b>VG6601</b>	<b>VG6701</b>
.5645"	.273"	.002"	2.040"	<b>VG6602</b>	<b>VG6702</b>
.5655"	.273"	.003"	2.040"	<b>VG6603</b>	<b>VG6703</b>
.5665"	.273"	.004"	2.040"	<b>VG6604</b>	<b>VG6704</b>
.5675"	.273"	.005"	2.040"	<b>VG6605</b>	<b>VG6705</b>
.5685"	.273"	.006"	2.040"	<b>VG6606</b>	<b>VG6706</b>
.5725"	.273"	.010"	2.040"	<b>VG6610</b>	<b>VG6710</b>
.5875"	.273"	.025"	2.040"	<b>VG6625</b>	<b>VG6725</b>

- Use with O.E. style Viton valve seals (V7MMOE).
- Profiled for optimum airflow.

## AV&V Universal Valve Guides (5/16 and 7MM valves)



O.D.	I.D.	Overall Length	Intake & Exhaust
Universal Repair guides			
.740"	.273"	2.700"	<b>UVG7MM</b>
.740"	.308"	2.700"	<b>UVG308</b>

- Manganese bronze alloy
- Ready to be machined





Viton Seals	
Specifications	
Stem Dia.	Seal section O.D.
.312"	.421"
Note	
<ul style="list-style-type: none"> <li>High Temperature viton seal</li> </ul>	

**V3I242I**

- For 5/16" valve Twin Cam® / Evo® / Sportster®
- This seal offers more press fit on the guide allowing installation on both Bronze and Cast iron guides.
- We strongly recommend the use of our valve seal driver #VSD312 to install this seal.



Viton Seals	
Specifications	
Stem Dia.	Seal section O.D.
.312"	.531"
Note	
<ul style="list-style-type: none"> <li>High Temperature viton seal</li> </ul>	

**V3I253I**

- For 5/16" valve Twin Cam® / Evo® / Sportster®
- This seal offers more press fit on the guide allowing installation on both Bronze and Cast iron guides.
- We strongly recommend the use of our valve seal driver #VSD312 to install this seal.



Viton Seals	
Specifications	
Stem Dia.	Seal section O.D.
7MM	.562"
Note	
<ul style="list-style-type: none"> <li>High Temperature viton seal</li> </ul>	

**V7MM-100**

- For 7MM valve Twin Cam®, Sportster®
- Replace 7MM O.E. seal when using larger spring & lower collar.
- We strongly recommend the use of our valve seal driver #VSD7MM to install this seal.



Viton Seals	
Specifications	
Stem Dia.	Seal section O.D.
7MM	.562"
Note	
<ul style="list-style-type: none"> <li>High Temperature viton seal</li> </ul>	

**V7MMOE-100**

- For 7MM valve Twin Cam®, Sportster®
- Replacement for the 7MM O.E. seal.
- The viton and steel sections are bounded together to prevent oil infiltration.



O.E. Style Seals	
Specifications	
Stem Dia.	Seal section O.D.
.312"	.421"
Note	
<ul style="list-style-type: none"> <li>O.E. Style metal clad seal</li> </ul>	

**K3I242O**

- For 5/16" valve, TwinCam®, Evo® and Sportster®



O.E. Style Seals	
Specifications	
Stem Dia.	Seal section O.D.
.312"	.531"
Note	
<ul style="list-style-type: none"> <li>O.E. Style metal clad seal</li> </ul>	

**K3I253O**

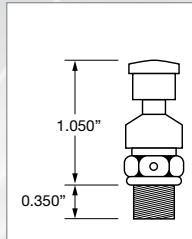
- For 5/16" valve, TwinCam, Evo and Sportster

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## AV&V Compression Release Valves

- AV&V compression release valves are easier to install due to their short thread section.(# JCR10A & JCR10B). You don't need to machine the heads as deep as if you were using O.E.M. style CR'S
- O.E.M. style also available (# JCR10D)

- Ideal for stock replacement
- Also their high-temperature resistant knobs are charcoal colored for a better match with texture black or silver heads.

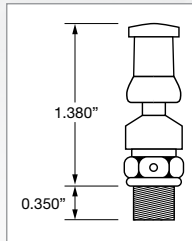


### JCR 10A

Protrusion	Thread section	Thread
1.050"	.350"	M10x1

#### Note

- Mostly Evo's®
- Short protrusion
- Short thread section

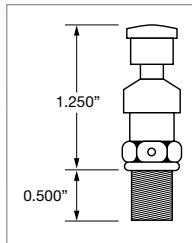


### JCR 10B

Protrusion	Thread section	Thread
1.380"	.350"	M10x1

#### Note

- All mostly Twin Cams®
- Short protrusion
- Short thread section



### JCR 10D

Protrusion	Thread section	Thread
1.250"	.500"	M10x1

#### Note

- O.E.M. Style
- Long protrusion
- Long thread section



**VSK600S**

- Manufactured from ultra clean high silicon/vanadium Kobe alloy wire.
- 1.375" Top retainers for better clearance inside rocker covers.
- Available with chromoly(S) or titanium(T) retainers.



SPRINGS - S600-4			
Max. Recommended Lift	Seat Pressure		Open Pressure (lbs@mm)
.600"	155lbs @ 1.885"		405 LBS @ 1.260"
Coil Bind Height	O.D.	I.D.	Type
1.080"	1.460"	0.79"	Double springs

RETAINER - R311CS-4		
Alloy	Traitement	Notes
4140 Chromoly steel	Black Oxyde	Angle 10°

LOWER COLLAR - LSC600-4			
Thickness	O.D.	I.D.	Alloy
.040"	1.418"	.562"	Heat treated steel

VALVE LOCKS - VL311A-8	
Tapper	Notes
Jumbo 10°	



**VSK600T**

- Manufactured from ultra clean high silicon/vanadium Kobe alloy wire.
- 1.375" Top retainers for better clearance inside rocker covers.
- Available with chromoly(S) or titanium(T) retainers.



SPRINGS - S600-4			
Max. Recommended Lift	Seat Pressure		Open Pressure (lbs@mm)
.600"	155lbs @ 1.885"		405 LBS @ 1.260"
Coil Bind Height	O.D.	I.D.	Type
1.080"	1.460"	0.79"	Double springs

RETAINER - R311CT-4		
Alloy	Traitement	Notes
Titanium	----	Angle 10°

LOWER COLLAR - LSC600-4			
Thickness	O.D.	I.D.	Alloy
.040"	1.418"	.562"	Heat treated steel

VALVE LOCKS - VL311A-8	
Tapper	Notes
Jumbo 10°	

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## AV&V High Performance Valve Spring kits (5/16 valves)

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**VSK650S**

- Manufactured from ultra clean high silicon/vanadium Kobe alloy wire.
- 1.375" Top retainers for better clearance inside rocker covers.



### SPRINGS - S650-4

Max. Recommended Lift	Seat Pressure		Open Pressure (lbs@mm)
.650"	185lbs @ 1.860"		460 LBS @ 1.160"
Coil Bind Height	O.D.	I.D.	Type
1.080"	1.460"	0.79"	Double springs

### RETAINER - R311CS-4

Alloy	Traitement	Notes
4140 Chromoly steel	Black Oxyde	Angle 10°

### LOWER COLLAR - LSC600-4

Thickness	O.D.	I.D.	Alloy
.040"	1.418"	.562"	Heat treated steel

### VALVE LOCKS - VL311A-8

Tapper	Notes
Jumbo 10°	



**VSK650T**

- Manufactured from ultra clean high silicon/vanadium Kobe alloy wire.
- 1.375" Top retainers for better clearance inside rocker covers.
- Titanium retainers.



### SPRINGS - S650-4

Max. Recommended Lift	Seat Pressure		Open Pressure (lbs@mm)
.650"	185lbs @ 1.860"		460 LBS @ 1.160"
Coil Bind Height	O.D.	I.D.	Type
1.080"	1.460"	0.79"	Double springs

### RETAINER - R311CT-4

Alloy	Traitement	Notes
Titanium		Angle 10°

### LOWER COLLAR - LSC600-4

Thickness	O.D.	I.D.	Alloy
.040"	1.418"	.562"	Heat treated steel

### VALVE LOCKS - VL311A-8

Tapper	Notes
Jumbo 10°	





**VSK675T**

- Manufactured from ultra clean high silicon/vanadium Kobe alloy wire.
- 1.375" Top retainers for better clearance inside rocker covers.



SPRINGS - S675-4			
Max. Recommended Lift	Seat Pressure		Open Pressure (lbs@mm)
.675"	185lbs @ 1.860"		460 LBS @ 1.160"
Coil Bind Height	O.D.	I.D.	Type
1.080"	1.460"	0.790"	Double springs

RETAINER - R311CT-4		
Alloy	Traitement	Notes
Titanium	---	Angle 10°

LOWER COLLAR - LSC600-4			
Thickness	O.D.	I.D.	Alloy
.040"	1.418"	.562"	Heat treated steel

VALVE LOCKS - VL311A-8	
Tapper	Notes
Jumbo 10°	



**VSK6000**

- Manufactured from ultra-clean high-silicon Kobe alloy wire, then nano-peened and polished, they are 100% load-sorted to exceed our customers' expectations.
- CNC machined Extreme Duty 9 deg. locks.
- Ultralite Chromoly forged retainers.

**NOTE**

6000 springs - Small end ID: .650", OD: 1.085" / Large end ID: 1.000", OD: 1.445"

6500 springs - Small end ID: .740", OD: 1.185" / Large end ID: 1.055", OD: 1.500"



SPRINGS - S6000-4		
Max. Recommended Lift	Seat Pressure	Open Pressure (lbs@mm)
.600"	165lbs @ 1.860"	384 LBS @ 1.250"
Coil Bind Height	Type	
1.200"	Beehive springs	

RETAINER - R6000-4		
Alloy	Traitement	Notes
4140 Chromoly steel	Black Oxyde	Angle 9°

LOWER COLLAR - LSC6000-4			
Thickness	O.D.	I.D.	Alloy
.050"	1.425"	.565"	Heat treated steel

VALVE LOCKS - VL311C-8	
Tapper	Notes
Angle 9°	

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## AV&V High Performance Valve Spring kits (5/16 valves)



**VSK6500**

- Manufactured from ultra-clean high-silicon Kobe alloy wire, then nano-peened and polished, they are 100% load-sorted to exceed our customers' expectations.
- CNC machined Extreme Duty 9 deg. locks.
- Ultralite Chromoly forged retainers.

**NOTE**

6000 springs - Small end ID: .650", OD: 1.085" / Large end ID: 1.000", OD: 1.445"

6500 springs - Small end ID: .740", OD: 1.185" / Large end ID: 1.055", OD: 1.500"



**SPRINGS - S6500-4**

Max. Recommended Lift	Seat Pressure	Open Pressure (lbs@mm)
.650"	178lbs @ 1.860"	385 LBS @ 1.200"
Coil Bind Height	Type	
1.150"	Beehive springs	

**RETAINER - R6500-4**

Alloy	Traitement	Notes
4140 Chromoly steel	Black Oxyde	Angle 9°

**LOWER COLLAR - LSC6500-4**

Thickness	O.D.	I.D.	Alloy
.040"	1.485"	.565"	Heat treated steel

**VALVE LOCKS - VL311C-8**

Tapper	Notes
9°	

# AV&V High Performance Beehive Valve Spring kits (7MM valves)

(Fit both Single Groove and Triple Groove valves)



**VSK60007SG**

- Manufactured from ultra-clean high-silicon Kobe alloy wire, then nano-peened and polished, they are 100% load-sorted to exceed our customers' expectations.
- CNC machined Extreme Duty 7 deg. locks.
- Ultralite Chromoly forged retainers.

**NOTE**

6000 springs - Small end ID: .650", OD: 1.085" / Large end ID: 1.000", OD: 1.445"

6500 springs - Small end ID: .740", OD: 1.185" / Large end ID: 1.055", OD: 1.500



SPRINGS - S6000-4		
Max. Recommended Lift	Seat Pressure	Open Pressure (lbs@mm)
.600"	165lbs @ 1.860"	384 LBS @ 1.250"
Coil Bind Height	Type	
1.200"	Beehive springs	

RETAINER - R60007SG-4		
Alloy	Traitement	Notes
4140 Chromely steel	Black Oxyde	Angle 7°

LOWER COLLAR - LSC6000-4			
Thickness	O.D.	I.D.	Alloy
.050"	1.425"	.565"	Heat treated steel

VALVE LOCKS - VL7MMSG	
Tapper	Notes
Angle 7°	For 7MM single or triple groove valves with Beehive springs



**VSK65007SG**

- Manufactured from ultra-clean high-silicon Kobe alloy wire, then nano-peened and polished, they are 100% load-sorted to exceed our customers' expectations.
- CNC machined Extreme Duty 9 deg. locks.
- Ultralite Chromoly forged retainers.

**NOTE**

6000 springs - Small end ID: .650", OD: 1.085" / Large end ID: 1.000", OD: 1.445"

6500 springs - Small end ID: .740", OD: 1.185" / Large end ID: 1.055", OD: 1.500



SPRINGS - S6500-4		
Max. Recommended Lift	Seat Pressure	Open Pressure (lbs@mm)
.650"	178lbs @ 1.860"	385 LBS @ 1.200"
Coil Bind Height	Type	
1.150"	Beehive springs	

RETAINER - R6500-4		
Alloy	Traitement	Notes
4140 Chromoly steel	Black Oxyde	Angle 9°

LOWER COLLAR - LSC6500-4			
Thickness	O.D.	I.D.	Alloy
.040"	1.485"	.565"	Heat treated steel

VALVE LOCKS - VL7MMSGC-8	
Tapper	Notes
Angle 9°	

SPORTSTER

## AV&V Valve Spring Shims

- This Valve Spring Shim allows the engine builder to adjust spring pressure by combining various thickness shims.
- Using the different thickness is of great help when trying to obtain consistent spring pressure across all valves.



Shim	VSS5015	
Thickness	I.D.	O.D.
.015"	.600"	1.480"
Note		
<ul style="list-style-type: none"> <li>• Perfect Evo®/Twin Cam® fit</li> <li>• Specily designed for Harley Davidson® heads</li> <li>• Heat Treated Steel</li> </ul>		



Shim	VSS5030	
Thickness	I.D.	O.D.
.030"	.600"	1.480"
Note		
<ul style="list-style-type: none"> <li>• Perfect Evo®/Twin Cam® fit</li> <li>• Heat Treated Steel</li> </ul>		



Shim	VSS6022	
Thickness	I.D.	O.D.
.022"	1.010"	1.441"
Note		
<ul style="list-style-type: none"> <li>• Use with Twin Cam® O.E. Style umbrella seals (2005 - up)</li> <li>• Heat Treated Steel</li> </ul>		