



## 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 Flo	w Valves	ves AVI585						
Exhaust								
Head Dia.	Overall Length	Stem Dia.	Coating	Tip Length	Groove			
1.585"	4.505"	.3106"	Black nitride	.200"	Single			
	Note							

- 25° back angle tulip
- .020" oversize (TC)
- 5/16" stem





High Flow Valves			AVI	SIOD				
Exhaust								
Head Dia.	Overall Length	Stem Dia.	Coating	Tip Length	Groove			
1.610"	4.510"	.3106"	Black nitride	.200"	Single			
	Note							

- 25° back angle tulip
- Dished valve
- 5/16" stem





High Flo	w Valves	AVI6IOS						
Exhaust								
Head Dia.	Overall Length	Stem Dia.	Coating	Tip Length	Groove			
1.610"	4.565"	.3106"	Black nitride	.200"	Single			
	Note							

- 25° back angle tulip
- For use with S&S heads
- 5/16" stem





High Flow Valves			AVI	650			
Exhaust							
Head Dia.	Overall Length	Stem Dia.	Coating	Tip Length	Groove		
1.650"	4.515"	.3106"	Black nitride	.200"	Single		
	Note						

- 25° back angle tulip
- Oversize valve for Jims 120" and S/E 110" Heads
- 5/16" stem







High Flow Valves			AVI7	<b>'</b> 00C			
Exhaust							
Head Dia.	Overall Length	Stem Dia.	Coating	Tip Length	Groove		
1.700"	4.445"	.3106"	Chrome	.200"	Single		
	Note						

- 25° back angle tulip For Merch Heads
- 5/16" stem





High Flow Valves			AVI7	OOA	
Exhaust					
Head Dia.	Overall Length	Stem Dia.	Coating	Tip Length	Groove
1.700"	4.510"	.3106"	Black nitride	.200"	Single
		N	Inta		

- 25° back angle tulip
- .235" Tip can be grinded to shorten valve 5/16" stem





High Flow Valves			AVI7	OOU			
Exhaust							
Head Dia.	Overall Length	Stem Dia.	Coating	Tip Length	Groove		
1.700"	4.655"	.3106"	Black nitride	.200"	Single		
	Note						

- 25° back angle tulip
- For Ultima Heads
- 5/16" stem





High Flow Valves			AVI:	900	
Intake					
Head Dia.	Overall Length	Stem Dia.	Coating	Tip Length	Groove
1.900"	4.440"	.3108"	Black nitride	.200"	Single
		ı	Vote		

- 25° back angle tulip
- .055" oversize valve
- For use in stock heads
- 5/16" stem

## 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 Flo	w Valves	AVI9005						
Intake								
Head Dia.	Overall Length	Stem Dia.	Stem Dia. Coating Tip Length Gro					
1.900"	4.415"	.3108"	Black nitride	.200"	Single			
	Note							

- 25° back angle tulip
- .025" shorter and .055" oversize valve
- For use in stock heads
- 5/16" stem





High Flow Valves			AVI:	940	
Intake					
Head Dia.	Overall Length	Stem Dia.	Coating	Tip Length	Groove
1.940"	4.440"	.3108"	Black nitride	.200"	Single
		N	Jote		

- 25° back angle tulip
- Oversize valve larger
- If used in stock heads larger seats must be installed
- 5/16" stem





High Flo	High Flow Valves AVI			990				
Intake								
Head Dia.	Overall Length	Stem Dia.	Coating	Tip Length	Groove			
1.990"	4.440"	.3108"	Black nitride	.200"	Single			
	Note							

- 25° back angle tulip
- Oversize valve
- If used in stock heads larger seats must be installed
- 5/16" stem





High Flow Valves			AV20	A050	
Intake					
Head Dia.	Overall Length	Stem Dia.	Coating	Tip Length	Groove
2.020"	4.440"	.3108"	Black nitride	.200"	Single
		N	loto		

- 25° back angle tulip
- Also good for Merch Heads
- Larger seats could be required
- 5/16" stem



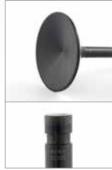




High Flo	w Valves	0202VA					
Intake							
Head Dia.	Overall Length	Stem Dia.	Coating	Tip Length	Groove		
2.020"	4.490"	.3108"	Chrome	.200"	Single		
		N	lote				

- 25° back angle tulip .050" longer then AV2020A
- Larger seats could be required
- 5/16" stem





High Flo	High Flow Valves			205				
Intake								
Head Dia.	Overall Length	Stem Dia.	Coating	Tip Length	Groove			
2.020"	4.510"	.3108"	Black nitride	.200"	Single			
	Note							

- 25° back angle tulip
- For use with S&S Heads
- 5/16" stem





High Flow Valves			AV20	60LC			
Intake							
Head Dia.	Overall Length	Stem Dia.	Coating	Tip Length	Groove		
2.060"	4.510′	.3108"	Chrome	.200"	Single		
	Note						

- 24° back angle tulip Used with S&S Heads
- Oversize valve
- 5/16" stem





High Flow Valves			AV	2100			
Intake							
Head Dia.	Overall Length	Stem Dia.	Coating	Tip Length	Groove		
2.100"	4.475"	.3108"	Black nitride	.200"	Single		
	Note						

- 24° back angle tulip For Jims 120" and S/E 110" Heads
- Oversize valve
- 5/16" stem

## 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 AV			PIOOBC (no	tip, no gro	ove)			
Intake								
Head Dia.	Overall Length	Stem Dia.	Coating	Tip Length	Groove			
2.100"	5.700"	.3108"	Chrome					
	Note							

- 24° back angle tulip
- 5/16" stem heads
- Blank valve (no tip, no groove)
- Bi-metal (can be hardened)





High Flow Valves			AVZ	1005	
Intake					
Head Dia.	Overall Length	Stem Dia.	Coating	Tip Length	Groove
2.100"	4.570"	.3108"	Chrome	.200"	Single

## Note

- 24° back angle tulip
- S&S 124" and 131"
- Oversize valve
- 5/16" stem





High Flo	w Valves	NOOISVA					
Intake							
Head Dia.	Overall Length	Stem Dia.	Coating	Tip Length	Groove		
2.100"	4.590"	.3108"	Black nitride	.200"	Single		
Note							

- 23° back angle tulip
- For Ultima Heads
- 5/16" stem





High Flow Valves			AVa	2150	
Intake					
Head Dia.	Overall Length	Stem Dia.	Coating	Tip Length	Groove
2.150"	4.480"	.3108"	Chrome	.200"	Single

- 24° back angle tulip
- Oversize valve for Jims 120" and 131" heads
- 5/16" stem







High Flo	w Valves	AVI	700BC (no	tip, no gro	ove)		
Exhaust							
Head Dia.	Overall Length	Stem Dia.	Coating	Tip Length	Groove		
1.700"	5.700"	.3106"	Chrome				
	Note						

- 25° back angle tulip 5/16" stem blank valve
- Bi-metal (can be hardened)





High Flo	w Valves	AVZ	200BC (no	tip, no gro	OVE)
Intake					
Head Dia.	Overall Length	Stem Dia.	Coating	Tip Length	Groove
2.200"	5.700"	.3108"	Chrome		
		N	loto		

- 25° back angle tulip 5/16" stem blank valve
- Bi-metal (can be hardened)

## 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.





High Flo	w Valves		AVI6IC	)-7TGB		
Exhaust						
Head Dia.	Overall Length	Stem Dia.	Coating	Tip Length	Groove	
1.610"	4.545"	.2755"	Black nitride	.085"	Triple	
NI-4-						

## Note

- 25° back angle tulip
- .040" oversize valve
- For use in stock heads
- 7MM stem





High Flow Valves			AVI6IC	)-7TGC				
Exhaust								
Head Dia.	Overall Length	Stem Dia.	Coating	Tip Length	Groove			
1.610"	4.545"	.2755"	Chrome	.085"	Triple			
	Note							

- 25° back angle tulip
- .040" oversize valve
- For use in stock heads
- 7MM stem





High Flow Valves		AVI850	D-7TGB			
Intake						
Head Dia.	Overall Length	Stem Dia.	Coating	Tip Length	Groove	
1.850"	4.455"	.2757"	Black nitride	.085"	Triple	
N						

- 24° back angle tulip
- .040" oversize valve
- For use in stock heads
- 7MM stem





High Flow Valves		Flow Valves AVI850-7TGC			
Intake					
Head Dia.	Overall Length	Stem Dia.	Coating	Tip Length	Groove
1.850"	4.455"	.2757"	Chrome	.085"	Triple
			loto		

- 24° back angle tulip
- .040" oversize valve
- For use in stock heads
- 7MM stem







High Flow Valves			AVI900	D-7TGB	
Intake					
Head Dia.	Overall Length	Stem Dia.	Coating	Tip Length	Groove
1.900"	4.445"	.2757"	Black nitride	.085"	Triple

- 24° back angle tulip
- .090" oversize valve
- For use in stock heads
- 7MM stem





High Flow Valves			AVI90	O-7TGC				
Intake								
Head Dia.	Overall Length	Stem Dia.	Coating	Tip Length	Groove			
1.900"	4.445"	.2757"	Chrome	.085"	Triple			
	Note							

- 24° back angle tulip
- .090" oversize valve
- For use in stock heads
- 7MM stem





High Flow Valves			AVI980	D-7TGB		
Intake						
Head Dia.	Overall Length	Stem Dia.	Coating	Tip Length	Groove	
1.980"	4.455"	.2757"	Black nitride	.085"	Triple	
Note						

- 25° back angle tulip
- .170" oversize valve If used in stock heads larger seats must be installed
- 7MM stem

## AV&V Extreme Duty Replacement Valves 5/16

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 valves also feature a 45° angle below the lock groove to facilitate valve seal installation.





HDII									
Intake									
Head Dia.	Overall Length	Stem Dia.	Coating	Tip Length	Groove				
1.845"	4.440"	.3108"	Black nitride	.200"	Single				
	Note								

- 25° back angle tulip Also good for stock replacement
- 5/16" stem Twin Cam®





HDI2							
Exhaust							
Head Dia.	Overall Length	Stem Dia.	Coating	Tip Length	Groove		
1.570"							

- 25° back angle tulip
- Twin cam® stock replacement
- 5/16" stem

## AV&V Extreme Duty Replacement Valves 7MM



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.





AVI575-7TGB									
Exhaust									
Head Dia.	Overall Length	Stem Dia.	Coating	Tip Length	Groove				
1.575"	4.560"	.2755"	Black nitride	.085"	Triple				
	Note								

- 25° back angle tulip
- Twin cam® stock replacement
- 7MM stem





AVI575-7TGC							
Exhaust							
Head Dia.	Overall Length	Stem Dia.	Coating	Tip Length	Groove		
1.575"	4.560"	.2755"	Chrome	.085"	Triple		

## Note

- 25° back angle tulip
- Twin cam® stock replacement





AVI8IO-7TGB								
Intake								
Head Dia.	Overall Length	Stem Dia.	Coating	Tip Length	Groove			
1.810"	4.455"	.2757"	Black nitride	.085"	Triple			
Note								

- 25° back angle tulip
- Twin cam® stock replacement
- 7MM stem





AVI8IO-7TGC							
Intake							
Head Dia.	Overall Length	Stem Dia.	Coating	Tip Length	Groove		
1.810"	4.455"	.2757"	Chrome	.085"	Triple		

- 25° back angle tulip
- Twin cam® stock replacement
- 7MM stem

## 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
	ŀ	ligh Lift & High	n Flow applicat	ion	
.5625"	.308"	Std	2.100"	VG5600	VG5700
.5635"	.308"	.001"	2.100"	VG5601	VG5701
.5645"	.308"	.002"	2.100"	VG5602	VG5702
.5655"	.308"	.003"	2.100"	VG5603	VG5703
.5665"	.308"	.004"	2.100"	VG5604	VG5704
.5675"	.308"	.005"	2.100"	VG5605	VG5705
.5685"	.308"	.006"	2.100"	VG5606	VG5706
.5725"	.308"	.010"	2.100"	VG5610	VG5710
.5875"	.308"	.025"	2.100"	VG5625	VG5725

- 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
	F	ligh Lift & High	n Flow applicat	tion	
.5625"	.308"	Std	2.100"	VG5600S	VG5700S
.5630"	.308"	.0005"	2.100"	VG5600-5S	VG5700-5S
.5635"	.308"	.001"	2.100"	VG5601S	VG5701S

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



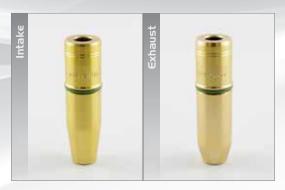
O.D.	I.D.	Oversize	Overall Length	Intake & Exhaust
		Stock re	placement	
.5625"	.308"	Std	2.250"	VG5500
.5635"	.308"	.001"	2.250"	VG5501
.5645"	.308"	.002"	2.250"	VG5502
.5655"	.308"	.003"	2.250"	VG5503
.5665"	.308"	.004"	2.250"	VG5504
.5875"	.308"	.025"	2.250"	VG5525

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

## 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.	Oversize	Overall Length	Intake	Exhaust
	ŀ	ligh Lift & High	n Flow applicat	tion	
.5625"	.273"	Std	2.040"	VG6600	VG6700
.5635"	.273"	.001"	2.040"	VG6601	VG6701
.5645"	.273"	.002"	2.040"	VG6602	VG6702
.5655"	.273"	.003"	2.040"	VG6603	VG6703
.5665"	.273"	.004"	2.040"	VG6604	VG6704
.5675"	.273"	.005"	2.040"	VG6605	VG6705
.5685"	.273"	.006"	2.040"	VG6606	VG6706
.5725"	.273"	.010"	2.040"	VG6610	VG6710
.5875"	.273"	.025"	2.040"	VG6625	VG6725

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

## **AV&V Universal Valve Guides**





O.D.	I.D.	Overall Length	Intake & Exhaust
		Universal F	Repair Guides
.740"	.273"	2.700"	UVG7MM
.740"	.308"	2.700"	UVG308
.735"	.375"	2.700"	UVG378

- Maganese bronze alloy
- Ready to be machined

## **AV&V Valve Seals**



# Viton Seals Specifications Stem Dia. Seal section O.D. .312" .421"

## Note

• High Temperature viton seal

## **V312421**

- 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.



# Stem Dia. Seal section O.D. 312" .531" Note

High Temperature viton seal

## **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

• High Temperature viton seal

## V7MM-I00

- 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

High Temperature viton seal

## V7MM0E-I00

- 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.

K312420



0.E Style Seals		
Specifi	cations	
Stem Dia.	Seal section O.D.	
.312"	.421"	
Note		

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



## O.E Style Seals Specifications Stem Dia. Seal section O.D. .312" .531"

O.E. Style metal clad seal

O.E. Style metal clad seal

Note

## K3I2530

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

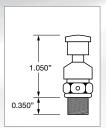
## **AV&V Compression Release Valves**



- 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.

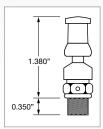




JCR 10A		
Protrusion	Thread section	Thread
1.050"	.350"	M10x1

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

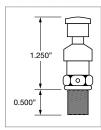




JCR 10B		
Protrusion	Thread section	Thread
1.380"	.350"	M10x1
Note		

- 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

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



## **VSK6005**

- 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.	Туре
1.080"	1.460"	0.790"	Double springs



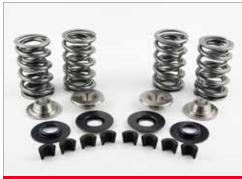
RETAINER - R311CS-4		
Alloy	Traitement	Notes
4140 Chromoly steel	Black Oxyde	Angle 10°



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 Pi	ressure	Open Pressure (lbs@mm)
.600"	155 lbs @	2 1.885"	405 lbs @ 1.260"
Coil Bind Height	O.D.	I.D.	Туре
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°		





## **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 P	ressure	Open Pressure (lbs@mm)
.650"	185 lbs (	@ 1.860"	460 lbs @ 1.160"
Coil Bind Height	O.D.	I.D.	Туре
1.080"	1.460"	0.790"	Double springs



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



LOV	VER COLLA	R - LSC600-	4
Thickness	O.D.	I.D.	Alloy
.040"	1.418"	.562"	Heat treated steel



VALVE LOCKS - VL311A-8		
Tapper	Notes	
Jumbo 10°		



- 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 Pi	ressure	Open Pressure (lbs@mm)
.650"	185 lbs @	2 1.860"	460 lbs @ 1.160"
Coil Bind Height	O.D.	I.D.	Туре
1.080"	1.460"	0.790"	Double springs



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



LOV	VER COLLA	R - LSC600-	4
Thickness	O.D.	I.D.	Alloy
.040"	1.418"	.562"	Heat treated steel



VALVE LOCKS - VL311A-8		
Tapper	Notes	
Jumbo 10°		

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





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



SPRINGS - S675-4					
Max. Recommended Lift	Seat Pressure Open Pressure (lbs@mm)				
.675"	185 lbs @ 1.860"		460 lbs @ 1.160"		
Coil Bind Height	O.D. I.D.		Туре		
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

S6000 springs - Small end ID: .650", OD: 1.085" / Large end ID: 1.000", OD: 1.445"

S6500 springs - Small end ID: .740", OD: 1.185" / Large end ID: 1.055", OD: 1.500



SPRINGS - 56000-4				
Max. Recommended Lift	Seat Pressure	Open Pressure (lbs@mm)		
.600"	165 lbs @ 1.860"	384 lbs @ 1.250"		
Coil Bind Height	Туре			
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°		



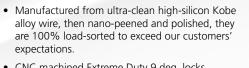




SPRINGS - 56500-4				
Max. Recommended Lift	Seat Pressure	Open Pressure (lbs@mm)		
.650"	178lbs @ 1.860"	385 lbs @ 1.200"		
Coil Bind Height	Туре			
1.150"	Beehive springs			



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



**VSK6500** 



• Ultralite Chromoly forged retainers.

N	0	Т	F

S6000 springs - Small end ID: .650", OD: 1.085" / Large end ID: 1.000", OD: 1.445"

S6500 springs - Small end ID: .740", OD: 1.185" / Large end ID: 1.055", OD: 1.500



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



VALVE LOCKS - VL311C-8		
Tapper	Notes	
Angle 9°		

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

(Fit both Single Groove and Triple Groove valves)



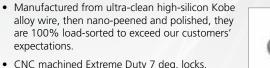
VSK60007SG



<b>SPRINGS -</b> \$6000-4			
Max. Recommended Lift	Seat Pressure	Open Pressure (lbs@mm)	
.600"	165lbs @ 1.860"	384 lbs @ 1.250"	
Coil Bind Height	Туре		
1.200"	Beehive	springs	



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





• Ultralite Chromoly forged retainers.

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



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	

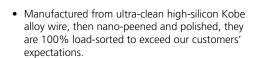




SPRINGS - S6500-4			
Max. Recommended Lift	Seat Pressure	Open Pressure (lbs@mm)	
.650"	178lbs @ 1.860"	385 lbs @ 1.200"	
Coil Bind Height	Туре		
1.150"	Beehive springs		



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



VSK65007SG

• CNC machined Extreme Duty 9 deg. locks.

• Ultralite Chromoly forged retainers.

## NOTE

S6000 springs - Small end ID: .650", OD: 1.085" / Large end ID: 1.000", OD: 1.445"

S6500 springs - Small end ID: .740", OD: 1.185" / Large end ID: 1.055", OD: 1.500"



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°	For 7MM single or triple groove valves with Beehive springs

AV&V<sup>™</sup> Manufacturer of High Performance Valvetrain Components

## **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	VSS50I5	
Thickness	I.D.	O.D.
.015"	.600"	1.480"

## Note

- Perfect Evo®/Twin Cam® fit
- Specily designed for Harley Davidson® heads
- Heat Treated Steel



Shim	VSS5030	
Thickness	I.D.	O.D.
.030"	.600"	1.480"

## Note

- Perfect Evo®/Twin Cam® fit
- Heat Treated Steel



Shim	V556022	
Thickness	I.D.	O.D.
.022"	1.010"	1.441"
	·	

- Use with Twin Cam® O.E. Style umbrella seals (2005 up)
- Heat Treated Steel

# Curiosity is the mother of creativity.

**AV&V™** is and always has been a pioneer when it comes to technological innovations for the Harley-Davidson® cylinder head components.

Systematic and advanced development are part of our mission to offer you the ultimate valve train components.

With more than 66 valve models, 17 valve guide models and 14 valve spring kits, **AV&V**<sup>TM</sup> offers you the most complete line of high-performance valve train components in the industry.



High Performance Valvetrain Components Manufacturer



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