

Port Length, in

Port Flow Analyzer v3.0 Perfor					rformanc	e World					
Test: PW LS3 69255 www.performance-woo											
Folder: LS	53									Page: 1	
Head #:						Bore Adapt	er Diamete	r: 4.00"			
Customer	r:					Int Port Ada	Int Port Adapter: Radiused Inlet				
Operator	:					Exh Port Ad	Exh Port Adapter: Short "stub stack"				
Test Com	ments:										
	PW 69255	Chevrolet L	53 aluminu	m head as	cast. Intal	ke valve with 30	deg backcı	ıt			
Report of	i:					Tested at	Corr to	# Vlvs	Vlv Dia	Stem Dia	Port Area
Comparin	۱g				Int:	28"	28.0"	1	2.165"	.313"	.00 sq in
1 Cylinde	rs				Exh:	28"	28.0"	1	1.60"	.313"	.00 sq in
Port	Lift	L/D	Avg	Cyl 1							
			CFM	CFM							
Intake	0.100	0.046	80.3	80.3							
Intake	0.200	0.092	159.8	159.8		NOTE: ALL I	FLOWBENC	HES ARE N	OT CREATED	EQUAL!	
Intake	0.300	0.139	222.6	222.6		Data from o	one bench t	to the next	can be vastl	y different.	
Intake	0.400	0.185	275.8	275.8		If you are n	nodifying th	nis head, it	is important	to "baseline"	
Intake	0.500	0.231	302.1	302.1		first to ensu	ure accurac	у.			
Intake	0.600	0.277	331.6	331.6		The data or	n this sheet	is for refer	ence only.		
Intake	0.700	0.323	345.8	345.8							
Exhaust	0.100	0.063	55.5	55.5							
Exhaust	0.200	0.125	108.7	108.7							
Exhaust	0.300	0.188	153.5	153.5							
Exhaust	0.400	0.251	201.6	201.6							
Exhaust	0.500	0.313	237.7	237.7							
Exhaust	0.600	0.376	252.8	252.8							
Exhaust	0.700	0.439	261.7	261.7							
Head File	: 69255										
Head Con	nments:										
	PW 69255	Chevrolet L	53 aluminu	m head as	cast. Intal	ke valve with 30	)deg backcu	ıt			
Head Nur	nber					Customer					
Intake						Exhaust					
	Layout:		1 valve & 1 port			Layout: 1 valve				1 valve & 1 port	
	Valve Diam	ieter, in		2.165"			Valve Diam	eter, in		1.60"	
	Stem Diameter, in			8mm			Stem Diam	eter, in		8mm	
	Throat Diar	meter, in					Throat Diar	neter, in			
	Avg Seat Angle, deg			45			Avg Seat Ar	ngle, deg		45	
	Port Shape	:		Rectangle			Port Shape	:		Round	
	Port Volum	ie, ccs		262cc			Port Volum	ie, ccs		104cc	
	Avg Port Di	ameter, in					Avg Port Di	ameter, in			
	Avg Port He	eight, in					Avg Port He	eight, in			
1	<b>.</b>										

Port Length, in

Specifications 69255	
Material	A356 Aluminum
Combustion Chamber CC	70cc
Intake Port Volume CC	262cc
Intake Port Dimension	1.31" x 2.62" Rectangle
Exhaust Port Volume CC	104cc
Exhaust Port Dimension	1.70" x 1.815" D-Shape
Exhaust Port Location	OE Stock
Spark Plug Location	OE Stock
Intake Valve Size	2.165" x 5.45"
Exhaust Valve Size	1.60" x 5.45"
Valve Stem Diameter	8mm
Valve Angle	11 Degree
Valve Seat Machining	3-Angle
Valve Spring Pocket I.D.	1.64"
Valve Guide Material	Manganese Bronze
Valve Guide O.D. (top)	.502"
Valve Guide O.D. (base)	.560"
Deck Thickness	3/4"
Rocker Design	Special Billet Rails Included
Valve Cover Mounting	OE Stock (Raised Rail)

Hydraulic Roller (up to .625" lift)							
Suggested Components	Size	Brand					
Intake Valves	2.165" x 5.45"	PW 360044 w/30deg backcut					
Exhaust Valves	1.60" x 5.45"	PW 360048					
Valve Springs	Beehive	PAC PAC-1219					
Valve Retainers	Steel	PAC PAC-R311					
Valve Locks		PAC PAC-L8113					
Valve Seals	8mm Viton	PW 360488					
Valve Spring Locators		PAC PAC-S111					
Spark Plugs	Champion RC12YC or Equivalent						

\*\* NOTE!! THREAD SEALANT MUST BE USED ON ROCKER BOLTS AS THREADS INTERSECT INTAKE PORTS!

\*\* NOTE!! ROCKER BOLTS MUST BE TIGHTENED WHEN LIFTER ON BASE CIRCLE ONLY!!

OR MAY RESULT IN STRIPPED THREADS!!



All PWHEADS "bare" cylinder heads are sold ready for assembly.

What this means is the heads are ready for the assembly process, but still MUST be checked per the following list below. This includes a visual inspection. Check all cylinders and measurements as you normally would for any engine assembly.

## It is the responsibility of the assembly technician/installer to:

1) Check valves for proper seating. Lap them and check surfaces.

2) Check guide to valve stem clearance. Clearance as required.

3) Check valve guide O.D. and ensure you have the correct seals.

4) Check valve springs for coil bind height and ensure they are correct for your camshaft.

5) Check for correct installed height on valve springs. Do this with inserts installed. Shim as necessary.

6) Check for retainer to top of guide clearance. Do this with inserts installed.

7) Use a non-hardening sealer on the rocker arm studs for applications where the threads run into a port such as the Small Block Chevrolet intake.

8) After setting the guideplates in place, torque the rocker studs down to 45 lb-ft in three stages.

9) Install sensors or pipe plugs in any open external water jacket holes if applicable.

10) Don't forget to check for proper pushrod length after heads are installed.

Any questions, please contact your engine builder or e-mail tech@performance-world.com