



Port Flow Analyzer v3.0					Performance World				
Test: PW LS3 68276A-2					www.performance-world.com				
Folder: LS3					Page: 1				
Head #:					Bore Adapter Diameter: 4.00"				
Customer:					Int Port Adapter: Radiused Inlet				
Operator:					Exh Port Adapter: Short "stub stack"				
Test Comments:									
PW 68276A-2 Chevrolet LS3 aluminum head as cast									
Report of:		Tested at		Corr to	# Vlvs	Vlv Dia	Stem Dia	Port Area	
Comparing		Int:	28"	28.0"	1	2.165"	.313"	.00 sq in	
1 Cylinders		Exh:	28"	28.0"	1	1.59"	.313"	.00 sq in	
Port	Lift	L/D	Avg CFM	Cyl 1 CFM	NOTE: ALL FLOWBENCHES ARE NOT CREATED EQUAL! Data from one bench to the next can be vastly different. If you are modifying this head, it is important to "baseline" first to ensure accuracy. The data on this sheet is for reference only.				
Intake	0.100	0.046	74.1	74.1					
Intake	0.200	0.092	150.3	150.3					
Intake	0.300	0.139	213.8	213.8					
Intake	0.400	0.185	265.8	265.8					
Intake	0.500	0.231	296.6	296.6					
Intake	0.600	0.277	323.0	323.0					
Intake	0.700	0.323	332.1	332.1					
Intake	0.750	0.346	332.1	332.1					
Exhaust	0.100	0.063	57.4	57.4					
Exhaust	0.200	0.125	110.7	110.7					
Exhaust	0.300	0.188	152.9	152.9					
Exhaust	0.400	0.251	190.5	190.5					
Exhaust	0.500	0.313	210.0	210.0					
Exhaust	0.600	0.376	219.9	219.9					
Exhaust	0.700	0.439	228.1	228.1					
Exhaust	0.750	0.470	231.0	231.0					
Head File: 68276A-2									
Head Comments:									
PW 68276A-2 Chevrolet LS3 aluminum head as cast									
Head Number					Customer				
Intake					Exhaust				
Layout:		1 valve & 1 port			Layout:		1 valve & 1 port		
Valve Diameter, in		2.165"			Valve Diameter, in		1.59"		
Stem Diameter, in		8mm			Stem Diameter, in		8mm		
Throat Diameter, in					Throat Diameter, in				
Avg Seat Angle, deg		45			Avg Seat Angle, deg		45		
Port Shape:		Rectangle			Port Shape:		Round		
Port Volume, ccs		273cc			Port Volume, ccs		90cc		
Avg Port Diameter, in					Avg Port Diameter, in				
Avg Port Height, in					Avg Port Height, in				
Port Length, in					Port Length, in				

Specifications 68276A-2	
Material	A356 Aluminum
Combustion Chamber CC	69cc
Intake Port Volume CC	273cc
Intake Port Dimension	1.285" x 2.60" Rectangle
Exhaust Port Volume CC	90cc
Exhaust Port Dimension	1.47" x 1.64" D-Shape
Exhaust Port Location	OE Stock
Spark Plug Location	OE Stock
Intake Valve Size	2.165" x 4.89"
Exhaust Valve Size	1.59" x 4.91"
Valve Stem Diameter	8mm
Valve Angle	15 Degree
Valve Seat Machining	3-Angle
Valve Spring Pocket I.D.	1.30"
Valve Guide Material	Manganese Bronze
Valve Guide O.D. (top)	.502"
Valve Guide O.D. (base)	.560"
Deck Thickness	5/8"
Rocker Design	LS3 Rails Required
Valve Cover Mounting	OE Stock

Hydraulic Roller (up to .625" lift)		
Installed Components	Size	Brand
Intake Valves	2.165" x 4.89"	PW #360050
Exhaust Valves	1.59" x 4.91"	PW #360049
Valve Springs	PROLS 660 Dual	PW #69000A2KIT
Valve Retainers	PROLS 660 Dual	Included in Kit
Valve Seals/Locators	PROLS 660 Dual	Included in Kit
Valve Seals/Locators	PROLS 660 Dual	Included in Kit
Valve Locks		Comp 623-16
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!!