



Port Flow Analyzer v3.0 Performance World  
 Test: PW LS3 63240A [www.performance-world.com](http://www.performance-world.com)  
 Folder: PW LS3 Style Page: 1

Head #: Bore Adapter Diameter: 4.00"  
 Customer: Int Port Adapter: Radiused Inlet  
 Operator: Exh Port Adapter: Short "stub stack"

Test Comments:  
 PW 63240A Chevrolet LS3 Style aluminum head as cast

Report of:	Tested at	Corr to	# Vlvs	Vlv Dia	Stem Dia	Port Area
Comparing	Int: 28"	28.0"	1	2.08"	8mm	.00 sq in
1 Cylinders	Exh: 28"	28.0"	1	1.60"	8mm	.00 sq in

Port	Lift	L/D	Avg CFM	Cyl 1 CFM
Intake	0.100	0.048	69.7	69.7
Intake	0.200	0.096	134.0	134.0
Intake	0.300	0.144	197.8	197.8
Intake	0.400	0.192	257.9	257.9
Intake	0.500	0.240	295.9	295.9
Intake	0.600	0.288	318.7	318.7
Intake	0.650	0.337	322.1	322.1
Exhaust	0.100	0.063	55.2	55.2
Exhaust	0.200	0.125	100.9	100.9
Exhaust	0.300	0.188	136.6	136.6
Exhaust	0.400	0.250	167.5	167.5
Exhaust	0.500	0.313	200.3	200.3
Exhaust	0.600	0.375	218.6	218.6
Exhaust	0.650	0.438	229.0	229.0

**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.**

Head File: 63240A  
 Head Comments:  
 PW 63240A Chevrolet LS3 Style aluminum head as cast

Head Number	Customer
Intake	Exhaust
Layout: 1 valve & 1 port	Layout: 1 valve & 1 port
Valve Diameter, in 2.08"	Valve Diameter, in 1.60"
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: Rectangular	Port Shape: Round
Port Volume, ccs 248cc	Port Volume, ccs 102cc
Avg Port Diameter, in	Avg Port Diameter, in
Avg Port Height, in	Avg Port Height, in
Port Length, in	Port Length, in

**Specifications 63240A**

Material	A356 Aluminum
Combustion Chamber CC	69cc
Intake Port Volume CC	248cc
Intake Port Dimension	1.25"x2.60" Rectangular
Exhaust Port Volume CC	102cc
Exhaust Port Dimension	1.70"x1.79" Round
Exhaust Port Location	OE Stock
Spark Plug Location	OE Stock
Intake Valve Size	2.08" 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.	1.55"
Valve Guide Material	Manganese Bronze
Valve Guide O.D. (top)	.502"
Valve Guide O.D. (base)	.560"
Deck Thickness	3/4"
Rocker Design**	2.115" PEDESTAL SPACING - LS3 STYLE
Valve Cover Mounting	OE Stock (Raised Rail)

**Hydraulic Roller (up to .625" lift)**

<b>Installed Components</b>	<b>Size</b>	<b>Brand</b>
Intake Valves	2.08" x 5.45"	PW 360043
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	

**Valves Lapped & Checked****Valve Spring Installed Height & Pressure Checked****Vacuum Tested**

**\*\* NOTE!! ROCKER BOLTS MUST BE TIGHTENED WHEN LIFTER ON BASE CIRCLE ONLY!!  
OR MAY RESULT IN STRIPPED THREADS!!  
\*\* THREAD SEALER MUST BE USED ON ROCKER BOLTS THAT INTERSECT INTAKE PORTS!**