

Port Flow A	Analyzer v3.0	)		Pe	erformance	e World					
Test: PW S	BC 70200			www.po	<u>erformanc</u>	<u>ce-world.com</u>					
Folder: Che	evrolet									Page: 1	
Head #:						Bore Adapto	er Diamete	r: 4.00"			
Customer:						Int Port Ada	apter: Radiu	sed Inlet			
Operator:						Exh Port Ad	apter: Shor	t "stub stac	.k"		
Test Comm	nents:										
	PW 70200 S	SB Chevrole	t aluminum	head as ca	ıst. Note:						
Report of:						Tested at	Corr to	# Vlvs	Vlv Dia	Stem Dia	Port Area
Comparing	; •				Int:	28"	28.0"	1	2.02"	.341"	0.00 sq in
1 Cylinders	;				Exh:	28"	28.0"	1	1.60"	.341"	0.00 sq in
Port	Lift	L/D	Avg	Cyl 1						,	
			CFM	CFM							
Intake	0.100	0.050	63.4	63.4							
Intake	0.200	0.099	122.8	122.8		NOTE: ALL I	FLOWBENC	HES ARE NO	OT CREATE	EQUAL!	
Intake	0.300	0.149	178.0	178.0		Data from o	one bench t	o the next	can be vast	ly different.	i
Intake	0.400	0.198	226.4	226.4		If you are m	nodifying th	nis head, it i	is importan	t to "baselir	ne"
Intake	0.500	0.248	259.8	259.8		first to ensu	ure accurac	у.			
Intake	0.600	0.297	260.9	260.9		The data or	ո this sheet	is for refer	ence only.		
Intake	0.700	0.347	261.2	261.2							
Exhaust	0.100	0.063	50.3	50.3							
Exhaust	0.200	0.125	100.6	100.6							
Exhaust	0.300	0.188	140.2	140.2							
Exhaust	0.400	0.250	155.8	155.8							
Exhaust	0.500	0.313	161.0	161.0							
Exhaust	0.600	0.375	163.4	163.4							

Head File: 70200 Head Comments:

0.700

Exhaust

PW 70200 SB Chevrolet aluminum head as cast.

164.6

164.6

0.438

Head Number			Customer			
Intake			Exhaust			
Layout:		1 valve & 1 port	Layout:	1 valve & 1 port		
Valve Dia	meter, in	2.02"	Valve Diameter, in	1.60"		
Stem Dia	meter, in	.341"	Stem Diameter, in	.341"		
Throat D	ameter, in		Throat Diameter, in			
Avg Seat	Angle, deg	45	Avg Seat Angle, deg	45		
Port Shar	e:	Rectangular	Port Shape:	D		
Port Volu	me, ccs	206cc	Port Volume, ccs	70cc		
Avg Port	Diameter, in		Avg Port Diameter, in			
Avg Port	Height, in		Avg Port Height, in			
Port Leng	th, in		Port Length, in			

Specifications 70200	
Material	A356 Aluminum
Combustion Chamber CC	72cc
Intake Port Volume CC	206cc
Intake Port Dimension	2.22"x1.31"
Exhaust Port Volume CC	70cc
Exhaust Port Design	D Shape
Spark Plug Location	Straight
Intake Valve Diameter	2.02"
Exhaust Valve Diameter	1.60"
Valve Stem Diameter	11/32" (.343")
Valve Spring Pocket I.D.	1.49"
Valve Guide Material	Manganese Bronze
Valve Guide O.D.	0.530" (.570" at base)
Rocker Stud Thread Size	7/16"x14
Valve Cover Mounting	Perimeter & Centerbolt
Valve Angle	23 Degree
Valve Seat Machining	Intake=4-Angle Exhaust=3-Angle
Oiling	Through Pushrod

Hyd Flat Tappet (up to .525" lift) (Check Cam Manufacturer Recommendation)					
Suggested Components	Size	Brand			
Intake Valves	2.02" x 4.91" x 11/32"	PW 360020			
Exhaust Valves	1.60" x 4.91" x 11/32"	PW 360016			
Valve Spring Spec	1.26" Single w/damper	PEP 053-574-700 (16pcs)			
Valve Retainers	7-Degree 11/32"	Manley 23651-1 (16pcs)			
Valve Locks	7-Degree 11/32"	PW 360410			
Valve Seals	11/32" x .530"	PW 360480			
Valve Spring Cups		PW 360112			
Rocker Arm Studs	7/16"-14 x 3/8"-24	PW 360338			
Pushrod Guide Plates	5/16" Flat	PW 360200			
Spark Plugs	Autolite 3924 or Equivalent				



## Cylinder Head Checklist

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