

Port Flow Analyzer v3.0			_	rformance							
Test: PW SB0	65210R			www.pe	<u>erformanc</u>	e-world.com					
Folder: Chev	rolet									Page: 1	
Head #:						Bore Adapte	er Diamete	r: 4.00"			
Customer:						Int Port Ada	pter: Radiu	ised Inlet			
Operator:						Exh Port Ad	apter: Shor	t "stub stac	:k"		
Test Comme	nts:										
Р	W 65210R	SB Chevrol	et 210 Full C	CNC. Note:							
Report of:						Tested at	Corr to	# Vlvs	Vlv Dia	Stem Dia	Port Area
Comparing					Int:	28"	28.0"	1	2.08"	8mm	0.00 sq in
1 Cylinders					Exh:	28"	28.0"	1	1.60"	8mm	0.00 sq in
Port	Lift	L/D	Avg	Cyl 1							
			CFM	CFM							
Intake	0.100	0.048	64.4	64.4							
Intake	0.200	0.096	133.1	133.1		NOTE: ALL F	FLOWBENC	HES ARE NO	OT CREATE	EQUAL!	
Intake	0.300	0.144	194.2	194.2		Data from o	ne bench t	to the next	can be vast	ly different.	
Intake	0.400	0.192	241.1	241.1		If you are m	nodifying th	nis head, it	is importan	t to "baselir	ie"
Intake	0.500	0.240	272.3	272.3		first to ensu	ire accurac	у.			
Intake	0.600	0.288	289.2	289.2		The data on	this sheet	is for refer	ence only.		
Intake	0.700	0.337	296.6	296.6							
Exhaust	0.100	0.063	57.4	57.4							
Exhaust	0.200	0.125	133.8	133.8							
Exhaust	0.300	0.188	185.8	185.8							
Exhaust	0.400	0.250	220.8	220.8							
Exhaust	0.500	0.313	234.5	234.5							
Exhaust	0.600	0.375	236.9	236.9							
Exhaust	0.700	0.438	237.5	237.5							
Head File: 65	210R										

Head File: 65210R Head Comments:

PW 65210R SB Chevrolet 210 Full CNC

Head No	ımber	C	Customer	
Intake		E	xhaust	
	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:	D
	Port Volume, ccs	209сс	Port Volume, ccs	73cc
	Avg Port Diameter, in		Avg Port Diameter, in	
	Avg Port Height, in		Avg Port Height, in	
	Port Length, in		Port Length, in	

Specifications 65210R		
Material	A356 Aluminum	
Combustion Chamber CC	68cc	
Intake Port Volume CC	209cc	
Intake Port Dimension	2.21" x 1.30"	
Exhaust Port Volume CC	73cc	
Exhaust Port Dimension	1.42"H x 1.53"W .250" Raised	
Spark Plug Location	Angle	
Intake Valve Diameter	2.08"	
Exhaust Valve Diameter	1.60"	
Valve Stem Diameter	8mm (.313")	
Valve Spring Pocket I.D.	1.56"	
Valve Guide Material	Manganese Bronze	
Valve Guide O.D.	0.502" (.560" at base)	
Rocker Stud Thread Size	7/16"x14	
Valve Cover Mounting	Perimeter	
Valve Angle	23 Degree	
Valve Seat Machining	Intake=4-Angle Exhaust=3-Angle	
Oiling	Through Pushrod	

Suggested Components	Size	Brand
Intake Valves	2.08" x 5.00" x 8mm	PW 360042
Exhaust Valves	1.60" x 5.03" x 8mm	PW 360047
Valve Seals	8mm x .502" Viton	PW 360488
Head Gaskets		Fel-Pro 1003
Intake Gasket		Fel-Pro 1206
Exhaust Gasket		Fel-Pro 1405
Head Bolts		ARP 134-3601/134-3701
Head Studs		ARP 134-4001/234-4301
Pushrod Guide Plates	5/16" Flat Adjustable	Comp Cams 4835-8
Spark Plugs		Autolite 3923 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 sales@performance-world.com