

Port Flow Analyzer v3.0				erformance							
Test: PW B	BBC 90315A			www.pe	<u>erformanc</u>	<u>ce-world.com</u>					
Folder: Che	evrolet									Page: 1	
Head #:						Bore Adapter Diameter: 4.00"					
Customer:					Int Port Adapter: Radiused Inlet						
Operator:					Exh Port Ad	apter: Shor	t "stub stac	:k"			
Test Comn	nents:										
	PW 90315A	A BB Chevro	let aluminun	n head as	cast. Note	:					
Report of:						Tested at	Corr to	# Vlvs	Vlv Dia	Stem Dia	Port Area
Comparing	5				Int:	28"	28.0"	1	2.25"	.341"	0.00 sq in
1 Cylinders	S				Exh:	28"	28.0"	1	1.88"	.341"	0.00 sq in
Port	Lift	L/D	Avg	Cyl 1							
			CFM	CFM							
Intake	0.100	0.044	76.9	76.9							
Intake	0.200	0.089	153.4	153.4		NOTE: ALL I	FLOWBENC	HES ARE NO	OT CREATE	) EQUAL!	
Intake	0.300	0.133	266.6	266.6		Data from o	one bench t	o the next	can be vast	ly different.	
Intake	0.400	0.178	286.0	286.0		If you are m	nodifying th	nis head, it	is importan	t to "baselir	ıe"
Intake	0.500	0.222	327.7	327.7		first to ensu	are accurac	у.			
Intake	0.600	0.267	349.2	349.2		The data or	ı this sheet	is for refer	ence only.		
Intake	0.700	0.311	356.4	356.4							
Intake	0.800	0.356	363.8	363.8							
Exhaust	0.100	0.053	70.4	70.4							
Exhaust	0.200	0.106	121.0	121.0							
Exhaust	0.300	0.159	154.2	154.2							
Exhaust	0.400	0.212	188.1	188.1							
Exhaust	0.500	0.265	217.9	217.9							
Exhaust	0.600	0.318	244.8	244.8							
Exhaust	0.700	0.371	259.7	259.7							
1											

Head File: 90315A Head Comments:

0.800

Exhaust

PW 90315A BB Chevrolet aluminum head as cast.

262.1

262.1

0.424

Head Number			Customer			
Intake		E)	xhaust			
	Layout:	1 valve & 1 port	Layout:	1 valve & 1 port		
	Valve Diameter, in	2.25"	Valve Diameter, in	1.88"		
	Stem Diameter, in	.341"	Stem Diameter, in	.341"		
	Throat Diameter, in		Throat Diameter, in			
	Avg Seat Angle, deg	45	Avg Seat Angle, deg	45		
	Port Shape:	Rectangular	Port Shape:	"D" .375" Raised		
	Port Volume, ccs	320cc	Port Volume, ccs	125cc		
	Avg Port Diameter, in		Avg Port Diameter, in			
	Avg Port Height, in		Avg Port Height, in			
	Port Length, in		Port Length, in			

Specifications 90315A Material A356 Aluminum Combustion Chamber CC 120cc Intake Port Volume CC 320cc Intake Port Dimension 2.45" x 1.75" Rectangle Port Exhaust Port Volume CC 125cc Exhaust Port Design 1.75" x 2.00" D Shape .375" Raised Spark Plug Location Straight Intake Valve Size 2.25" (+.250" Length) Exhaust Valve Size 1.88" (Std. Length) Valve Stem Diameter 11/32" (.341") Valve Spring Pocket I.D. 1.735" Valve Spring Installed Height 1.95"-1.97" Valve Guide Material Manganese Bronze Valve Guide O.D. 0.530" (.570" at base) Rocker Stud Thread Size 7/16"x20 (.820"-1.30" u.h.l.) Valve Cover Mounting Perimeter 24° Intake/15° Exhaust Valve Angle

Hydraulic Roller (up to .600" lift) (Check Cam Manufacturer Recommendation)						
Installed Components	Size	Brand				
Intake Valves	2.25" x 5.49" x 11/32"	PW 360025				
Exhaust Valves	1.88" x 5.42" x 11/32"	PW 360019				
Valve Spring		Howards 98632-16				
Valve Retainers	10-Degree	Comp Cams 741-16				
Valve Locks	10-Degree 11/32" (050")	Comp Cams 630-16				
Valve Seals	11/32" x .530"	PW 360480				
Valve Spring Locators		Comp Cams 4776-16				
Rocker Arm Studs	7/16"-14 x 7/16"-20	PW 360372				
Pushrod Guide Plates	3/8" Raised	Manley 42164-8				
Spark Plugs	Autolite 3924 or equivalent					

Intake=4-Angle Exhaust=3-Angle

Through Pushrod

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

Valve Seat Machining

Oiling

NOTE: Assembled cylinder heads are supplied without the pushrod guideplates and rocker studs installed as they require adjusting for proper rocker alignment and pushrod clearance. Use thread sealant where required.