	P										
		A									
Port Flow	Analyzer v3.			Perfo	ormance	World					
	BBC 90290A					e-world.com					
Folder: Ch							Page: 1				
Head #: PW BBC 90290A					Bore Adapter Diameter: 4.00"						
Customer:					Int Port Adapter: Radiused Inlet						
Operator:					Exh Port Adapter: Short "stub stack"						
Test Comr	ments:						•				
1	PW 90290	A BB Chevro	let aluminu	um head as cas	t. Note:						
Report of:						Tested at	Corr to	# Vlvs	Vlv Dia	Stem Dia	Port Area
Comparin				I	nt:	28"	28.0"	1	2.25"	.341"	0.00 sq ir
1 Cylinder	-			E	Exh:	28"	28.0"	1	1.88"	.341"	0.00 sq ir
Port	Lift	L/D	Avg	Cyl 1							·
			CFM	CFM							
Intake	0.100	0.044	81.8	81.8							
Intake	0.200	0.089	160.0	160.0		NOTE: ALL	FLOWBENC	HES ARE NO	OT CREATED	D EQUAL!	
Intake	0.300	0.133	231.5	231.5		Data from	one bench t	o the next	can be vast	ly different.	
Intake	0.400	0.178	289.2	289.2						t to "baselir	
Intake	0.500	0.222	325.8	325.8		-	ure accurac		•		
Intake	0.600	0.267	340.3	340.3			n this sheet	-	ence only.		
Intake	0.700	0.311	343.3	343.3							
Intake	0.800	0.356	348.1	348.1							
Exhaust	0.100	0.053	60.4	60.4							
Exhaust	0.200	0.106	121.7	121.7							
Exhaust	0.300	0.160	172.8	172.8							
Exhaust	0.400	0.213	204.0	204.0							
Exhaust	0.500	0.266	232.6	232.6							
Exhaust	0.600	0.319	255.6	255.6							
Exhaust	0.700	0.372	263.2	263.2							
Exhaust	0.800	0.426	267.2	267.2							
Head File:			-	-							
Head Com											
		A BB Chevro	let aluminu	um head as cas	t.						
Head Num					-	Customer					
Intake						Exhaust					
	Layout:			1 valve & 1 p	oort		Layout:			1 valve & 1	port
	Valve Diam	eter. in		2.25"			Valve Diam	eter. in		1.88"	I
Stem Diameter, in.341"Throat Diameter, inAvg Seat Angle, degPort Shape:Oval						Stem Diameter, in .341"					
						Throat Diar					
					Avg Seat Ar	-		45			
						Port Shape:			"D" .375" F	Raised	
			290cc			Port Volum			123cc		
	Avg Port Di			20000			Avg Port Di				
	Avg Port H						Avg Port He				
	Dort Length	-					Dort Longth				

Port Length, in

Port Length, in

Specifications 90290A	
Material	A356 Aluminum
Combustion Chamber CC	112cc
Intake Port Volume CC	290cc
Intake Port Dimension	2.01" x 1.75" Oval Port
Exhaust Port Volume CC	123cc
Exhaust Port Design	1.75" x 2.00" D Shape .375" Raised
Spark Plug Location	Stock
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
Valve Angle	24° Intake/15° Exhaust
Valve Seat Machining	Intake=4-Angle Exhaust=3-Angle
Oiling	Through Pushrod

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 Springs		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							

Valves Lapped & Checked

Valve Spring Installed Height & Pressure Checked Vacuum Tested

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.