



Port Flow Analyzer v3.0		Performance World	
Test: PW BBM 84210A		www.performance-world.com	
Folder: Mopar		Page: 1	
Head #:		Bore Adapter Diameter: 4.38"	
Customer:		Int Port Adapter: Radiused Inlet	
Operator:		Exh Port Adapter: Short "stub stack"	
Test Comments: PW 84210A BB Mopar aluminum heads			
Report of:	Tested at	Corr to	# Vlv
Comparing	Int: 28"	28.0"	1
1 Cylinders	Exh: 28"	28.0"	1
			Vlv Dia
			2.14"
			Stem Dia
			.341"
			Port Area
			.00 sq in
Port	Lift	L/D	Avg CFM
			Cyl 1 CFM
Intake	0.100	0.047	68.4
Intake	0.200	0.093	143.0
Intake	0.300	0.140	204.8
Intake	0.400	0.187	246.4
Intake	0.500	0.234	267.5
Intake	0.600	0.280	277.0
Intake	0.700	0.327	277.0
Exhaust	0.100	0.055	54.2
Exhaust	0.200	0.110	105.6
Exhaust	0.300	0.166	144.0
Exhaust	0.400	0.221	163.9
Exhaust	0.500	0.276	175.6
Exhaust	0.600	0.331	181.9
Exhaust	0.700	0.387	185.0
<p>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.</p>			
Head File: 84210A			
Head Comments: PW 84210A BB Mopar aluminum heads			
Head Number		Customer	
Intake		Exhaust	
Layout:	1 valve & 1 port	Layout:	1 valve & 1 port
Valve Diameter, in	2.14"	Valve Diameter, in	1.81"
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:	Square
Port Volume, ccs	220cc	Port Volume, ccs	74cc
Avg Port Diameter, in		Avg Port Diameter, in	
Avg Port Height, in		Avg Port Height, in	
Port Length, in		Port Length, in	

Specifications 84210A

Material	A356 Aluminum
Combustion Chamber CC	82cc
Intake Port Volume CC	220cc
Intake Port Dimension	2.30" x 1.18"
Exhaust Port Volume CC	74cc
Exhaust Port Dimension	1.715" x 1.25"
Exhaust Port Location	OE Stock
Spark Plug Location	Angled (Check Header Tube Clearance)
Intake Valve Diameter	2.14"
Exhaust Valve Diameter	1.81"
Valve Stem Diameter	11/32" (.343")
Valve Angle	15 Degree
Valve Seat Machining	3-Angle
Valve Spring Pocket I.D.	1.705"
Valve Guide Material	Manganese Bronze
Valve Guide O.D.	0.530"
Deck Thickness	5/8"
Rocker Shaft Design	OE Stock
Valve Cover Mounting	OE Stock

Hyd Flat Tappet (up to .550" lift) (Check Cam Manufacturer Recommendation)

Installed Components	Size	Brand
Intake Valves	2.14" x 4.873" x 11/32"	PW 360022
Exhaust Valves	1.81" x 4.908" x 11/32"	PW 360018
Valve Spring Spec		Comp Cams 924-16
Valve Retainers	10-Degree	Comp Cams 741-16
Valve Locks	10-Degree 11/32" +.050"	Comp Cams 614-16
Valve Seals	11/32" x .530"	PW 360480
Valve Spring Cups		PW 360117
Spark Plugs	Champion RC12YC or Equivalent	

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