



Port Flow Analyzer v3.0	Performance World	This Report Printed:
Test: PW SBM 63171A	<a href="http://www.performance-world.com">www.performance-world.com</a>	11:30:00 AM 07/08/2015
Folder: SB Mopar	Performance Trends © 1999	Page: 1

Head #:	Bore Adapter Diameter: 4.25"
Customer:	Int Port Adapter: Radiused Inlet
Operator:	Exh Port Adapter: Short "stub stack"

Test Comments:  
PW 63171A SB Mopar aluminum head CNC Pocket Ported

Report of:	Test Time	Tested at	Corr to	# Vlvs	Vlv Dia	Stem Dia	Port Area
Comparing	11:16 AM	Int: 28"	28.0"	1	2.02"	.341"	.00 sq in
1 Cylinders	05-23-14	Exh: 28"	28.0"	1	1.60"	.341"	.00 sq in

Port	Lift	L/D	Avg CFM	Cyl 1 CFM
Intake	0.100	0.050	68.2	68.2
Intake	0.200	0.099	123.1	123.1
Intake	0.300	0.149	174.2	174.2
Intake	0.400	0.198	219.3	219.3
Intake	0.500	0.248	247.7	247.7
Intake	0.600	0.297	263.1	263.1
Intake	0.700	0.347	263.7	263.7
Exhaust	0.100	0.063	57.7	57.7
Exhaust	0.200	0.125	105.8	105.8
Exhaust	0.300	0.188	143.6	143.6
Exhaust	0.400	0.250	168.9	168.9
Exhaust	0.500	0.313	182.6	182.6
Exhaust	0.600	0.375	191.0	191.0
Exhaust	0.700	0.438	196.1	196.1

**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.**

Head File: 63171A  
 Head Comments:  
 PW 63171A SB Mopar aluminum head CNC pocket ported

Head Number	Customer
Intake	Exhaust
Layout: 1 valve & 1 port	Layout: 1 valve & 1 port
Valve Diameter, in: 2.02"	Valve Diameter, in: 1.60"
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: Rectangular
Port Volume, ccs: 179cc	Port Volume, ccs: 79cc
Avg Port Diameter, in	Avg Port Diameter, in
Avg Port Height, in	Avg Port Height, in
Port Length, in: 4.5	Port Length, in: 4.75

**Specifications 63171A**

Material	A356 Aluminum
Combustion Chamber CC	63cc
Intake Port Volume CC	179cc
Intake Port Dimension	2.28" x 1.16"
Exhaust Port Volume CC	79cc
Exhaust Port Dimension	1.75" x 1.25"
Exhaust Port Location	OE Stock
Spark Plug Location	Angled
Intake Valve Size	2.02" (+.100")
Exhaust Valve Size	1.60" (+.100")
Valve Stem Diameter	11/32" (.343")
Valve Angle	18 Degree
Valve Seat Machining	3-Angle
Valve Spring Pocket I.D.	1.50"
Valve Guide Material	Manganese Bronze
Valve Guide O.D. (top)	0.530"
Valve Guide O.D. (base)	0.560"
Deck Thickness	5/8"
Rocker Shaft Design	OE Stock
Valve Cover Mounting	OE Stock

**Hyd Flat Tappet (up to .525" lift) (Check Cam Manufacturer Recommendation)**

<b>Installed Components</b>	<b>Size</b>	<b>Brand</b>
Intake Valves	2.02" x 5.01" x 11/32"	PW 360030
Exhaust Valves	1.60" x 5.01" x 11/32"	PW 360026
Valve Springs Installed	109# @ 1.83" - 290# @ 1.23"	PAC PAC-1921
Valve Retainers	10-Degree	Manley 23635-16
Valve Locks	10-Degree 11/32"	Comp Cams 611-16
Valve Seals	11/32" x .530"	PW 360480
Valve Spring Locators		Comp Cams 4694-16
Rocker Arm Studs	Not Required	
Pushrod Guide Plates	Not Required	
Recommended Head Bolts/Studs		ARP 144-3601/144-4005
Spark Plugs	Champion RC12YC or Equivalent	

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