



Port Flow Analyzer v3.0 Performance World  
 Test: PW SBM 63171 [www.performance-world.com](http://www.performance-world.com)  
 Folder: SB Mopar Page: 1

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

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

Report of:	Tested at	Corr to	# Vlvs	Vlv Dia	Stem Dia	Port Area
Comparing	Int: 28"	28.0"	1	2.02"	.341"	.00 sq in
1 Cylinders	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: 63171  
 Head Comments:  
 PW 63171 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: Rectanglar
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 63171**

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/Hyd Roller (up to .600" lift) (Check Cam Manufacturer Recommendation)**

<b>Suggested 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	Beehive	PAC PAC-1219-16
Valve Retainers	7-Degree	Comp Cams 787-16
Valve Locks	7-Degree	PW 360410
Valve Seals	11/32" x .530"	PW 360480
Valve Spring Locators		Comp Cams 4705-16
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	