



Port Flow Analyzer v3.0 Performance World
 Test: PW SBM 63171A-2 www.performance-world.com
 Folder: SB Mopar Page: 1

Head #: Bore Adapter Diameter: 4.07"
 Customer: Int Port Adapter: Radiused Inlet
 Operator: Exh Port Adapter: Short "stub stack"

Test Comments:
 PW 63171A-2 SB Mopar aluminum head

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	Cyl 3 CFM
Intake	0.100	0.0495	63.1	62.5	63.7
Intake	0.200	0.0990	125.0	123.9	126.0
Intake	0.300	0.1490	182.6	181.2	184.0
Intake	0.400	0.1980	224.2	222.1	226.2
Intake	0.500	0.2480	250.2	248.2	252.5
Intake	0.600	0.2970	249.1	248.0	250.1
Intake	0.700	0.3470	248.0	246.3	249.4
Exhaust	0.100	0.0495	52.7	52.3	53.0
Exhaust	0.200	0.0990	101.4	100.9	101.7
Exhaust	0.300	0.1490	134.4	133.7	135.1
Exhaust	0.400	0.1980	160.0	157.9	161.3
Exhaust	0.500	0.2480	167.8	164.9	170.9
Exhaust	0.600	0.2970	170.8	167.9	174.8
Exhaust	0.700	0.3470	172.1	168.5	175.5

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-2
 Head Comments:
 PW 63171A-2 SB Mopar aluminum head

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 1.835"	Throat Diameter, in 1.35"
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 63171A-2

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" x 5.01"
Exhaust Valve Size	1.60" x 5.02"
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)

Installed Components	Size	Brand
Intake Valves	2.02" x 5.01" x 11/32"	PW #360030
Exhaust Valves	1.60" x 5.02" x 11/32"	PW #360026
Valve Springs Installed	Beehive	PAC #PAC-1219-16 (or equal)
Valve Retainers	7-Degree	Comp Cams #787-16 (or equal)
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	

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