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|-------------------------|--|------------------------|
| Port Flow Analyzer v3.0 | Performance World | This Report Printed: |
| Test: PW SBM 63171A-2 | www.performance-world.com | 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-2 SB Mopar aluminum head

| | | | | | | | |
|-------------|-----------|-----------|---------|--------|---------|----------|-----------|
| 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-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 | 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-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" (+.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)

| Installed Components | Size | Brand |
|------------------------------|-------------------------------|-----------------------|
| 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 | |

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