



Port Flow Analyzer v3.0 Performance World  
 Test: PW BBF 72170A [www.performance-world.com](http://www.performance-world.com)  
 Folder: Ford Page: 1

Head #: Bore Adapter Diameter: 4.185"  
 Customer: Int Port Adapter: Radiused Inlet  
 Operator: Exh Port Adapter: Short "stub stack"

Test Comments:  
 PW 72170A BB FE Ford aluminum head as cast.

Report of:		Tested at	Corr to	# Vlvs	Vlv Dia	Stem Dia	Port Area
Comparing	Int:	28"	28.0"	1	2.09"	.341"	0.00 sq in
1 Cylinders	Exh:	28"	28.0"	1	1.65"	.341"	0.00 sq in

Port	Lift	L/D	Avg CFM	Cyl 1 CFM	
Intake	0.100	0.050	82.1	82.1	
Intake	0.200	0.099	149.9	149.9	<b>NOTE: ALL FLOWBENCHES ARE NOT CREATED EQUAL!</b> <b>Data from one bench to the next can be vastly different.</b> <b>If you are modifying this head, it is important to "baseline" first to ensure accuracy.</b> <b>The data on this sheet is for reference only.</b>
Intake	0.300	0.149	183.3	183.3	
Intake	0.400	0.198	217.0	217.0	
Intake	0.500	0.248	241.4	241.4	
Intake	0.600	0.297	261.6	261.6	
Intake	0.650	0.322	272.6	272.6	
Exhaust	0.100	0.063	53.5	53.5	
Exhaust	0.200	0.125	97.1	97.1	
Exhaust	0.300	0.188	136.0	136.0	
Exhaust	0.400	0.250	173.0	173.0	
Exhaust	0.500	0.313	193.0	193.0	
Exhaust	0.600	0.375	202.8	202.8	
Exhaust	0.650	0.406	208.2	208.2	

Head File: 72170A  
 Head Comments:  
 PW 72170A BB Ford aluminum head as cast.

Head Number	Customer
Intake	Exhaust
Layout: 1 valve & 1 port	Layout: 1 valve & 1 port
Valve Diameter, in 2.09"	Valve Diameter, in 1.65"
Stem Diameter, in .375"	Stem Diameter, in .375"
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 162cc	Port Volume, ccs 127cc
Avg Port Diameter, in	Avg Port Diameter, in
Avg Port Height, in	Avg Port Height, in
Port Length, in	Port Length, in

**Specifications 72170A**

Material	A356 Aluminum
Combustion Chamber CC	69cc
Intake Port Volume CC	162cc
Intake Port Dimension	2.065" H x 1.36" W
Exhaust Port Volume CC	127cc
Exhaust Port Design	1.85" H x 1.27" W
Spark Plug Location	Angle
Intake Valve Diameter	2.09"
Exhaust Valve Diameter	1.65"
Valve Stem Diameter	3/8" (.375")
Valve Spring Pocket I.D.	1.725"
Valve Guide Material	Manganese Bronze
Valve Guide O.D.	0.562"
Rocker Stud Thread Size	Shaft Style
Valve Cover Mounting	OEM
Valve Angle	13 Degree
Valve Seat Machining	Intake=4-Angle Exhaust=2-Angle
Oiling	Through Pushrod

**Hydraulic Flat Tappet up to .560" lift**

<b>Installed Components</b>	<b>Size</b>	<b>Brand</b>
Intake Valves	2.09" x 5.45" x 3/8"	PEP #P2814HP-C or P2814JF
Exhaust Valves	1.65" x 5.45" x 3/8"	PEP #P2416HP-C or P2416JF
Valve Springs Installed		Howards Cams 98445-16
Valve Retainers	10-Degree	Manley 23635-1 (16pcs)
Valve Locks	3/8" 10-Degree	Comp Cams 609-16
Valve Seals	3/8" x .562"	PW 360490
Valve Spring Cups		Comp Cams 4776-16
Rocker Arm Studs	Not Required	
Pushrod Guide Plates	Not Required	
Spark Plugs	Champion RC12YC or Equivalent	

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