Port Flow Analyzer v3.5 B
Eng: SE CNC Head Front
Calculated Test Results

Ward Performance

Performance Trends (C) 2009

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Test Comments:
HD SE CNC Ported Head
Tested out of the box from HD

Original Version
Stock Size Stainless
Valves

Tested with Intake Stack.
With 6" Exhaust Stub Pipe.

Report of:	Test Time		Tested at	Corr to	# Vlvs	Vlv Dia	Stem Dia	Port Area
All 1	8:44 am	Int:	28"	28.0"	2	1.575"	.236"	2.65 sq in
Cylinders	01/17/2018	Exh:	28"	28.0"	2	1.26"	.236"	1.69 sq in

Port	Lift	L/D	Corr CFM	Unstbl +/-%	Swirl	Swirl +/-%	Tumble	Tumble +/-%
Int #1	.100	.063	99.6	1.61	0	.00	0	.00
Int #1	.200	.127	199.8	.77	0	.00	0	.00
Int #1	.300	.190	283.0	1.67	0	.00	0	.00
Int #1	.400	.254	327.3	.41	0	.00	0	.00
Int #1	.500	.317	338.1	1.08	0	.00	0	.00
Int #1	.600	.381	335.5	1.18	0	.00	0	.00
Exh #1	.100	.079	88.4	.48	0	.00	0	.00
Exh #1	.200	.159	176.9	1.78	0	.00	0	.00
Exh #1	.300	.238	216.9	.29	0	.00	0	.00
Exh #1	.400	.317	224.3	1.60	0	.00	0	.00
Exh #1	.500	.397	226.3	.76	0	.00	0	.00
Exh #1	.600	.476	227.8	1.37	0	.00	0	.00

Head File: Untitled
Head Comments:

Head Number		Customer	Ward
Intake		Exhaust	
Layout:	2 valves join to 1 port	Layout:	2 valves join to 1 port
Valve Diameter, in	1.575	Valve Diameter, in	1.26
Stem Diameter, in	.236	Stem Diameter, in	.236
Throat Diameter, in	1.413	Throat Diameter, in	1.004
Avg Seat Angle, deg	45	Avg Seat Angle, deg	45
Port Shape:	Round	Port Shape:	Round
Port Volume, ccs	217	Port Volume, ccs	83
Avg Port Diameter, in	1.836	Avg Port Diameter, in	1.466
Avg Port Height, in	1.986	Avg Port Height, in	1.6
Port Length, in	5	Port Length, in	3