

Port Flow Analyzer v3.5  
Test: FullautoBKEX  
Folder: Norton

Steiner Racing Developments  
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Performance Trends (C) 2006

This Report Printed:  
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Head #: Bore Adapter Diameter: 3.03 "  
Customer: Brian Kelly Int Port Adapter: Radiused Inlet  
Operator: Peter Steiner Exh Port Adapter: Short 'stub stack'

Report Comment: Fullauto Cylinder head, exhaust flowed with Short 'stub stack'

Test Comments:  
Norton Twin Cylinder Heads (Fullauto D shape exhaust)  
Intake Valve; Stainless valve, Size 1.575in  
Exhaust Valve; standard valve, Size 1.260in  
Intake Flowed With Radiused Inlet Guide, Exhaust with Short 'stub stack'  
Air Flow Potential Horsepower 75.3 @ .400in lift  
Intake runner volume 57.8cc, exhaust runner size 40.4 and Combustion chamber Volume 52.1cc.

Report of:	Test Time		Tested at	Corr to	# Vlv	Vlv Dia	Stem Dia	Port Area
All 1	10:22 pm	Int:	25"	28.0"	1	1.575"	.305"	1.04 sq in
Cylinders	04/01/2014	Exh:	25"	28.0"	1	1.26"	.305"	.91 sq in

Port	Lift	L/D	Corr CFM	VlvArea sq.in	CFM / sq.in	FlwArea sq.in	Flow Coef.	Valve Velocity	Port Velocity	% Exh/Int
Int #1	.000	.000	.0	.000	.00	.000	.000	.0	.0	
Int #1	.050	.032	27.0	.247	109.29	.186	.750	262.3	62.6	
Int #1	.100	.063	56.5	.495	114.19	.388	.783	274.0	130.8	
Int #1	.150	.095	86.7	.742	116.85	.595	.802	280.5	200.7	
Int #1	.200	.127	112.3	.990	113.44	.770	.778	272.3	259.8	
Int #1	.250	.159	132.2	1.237	106.83	.907	.733	256.4	305.9	
Int #1	.300	.190	142.0	1.484	95.66	.974	.656	229.6	328.7	
Int #1	.350	.222	146.4	1.732	84.53	1.004	.580	202.9	338.9	
Int #1	.400	.254	147.7	1.875	78.74	1.013	.540	189.0	341.8	
Exh #1	.000	.000	.0	.000	.00	.000	.000	.0	.0	
Exh #1	.050	.040	20.6	.198	104.11	.141	.714	249.9	54.2	76.2
Exh #1	.100	.079	43.0	.396	108.69	.295	.746	260.8	113.1	76.1
Exh #1	.150	.119	59.1	.594	99.46	.405	.682	238.7	155.3	68.1
Exh #1	.200	.159	69.3	.792	87.48	.475	.600	209.9	182.1	61.7
Exh #1	.250	.198	81.0	.990	81.85	.556	.562	196.4	213.0	61.3
Exh #1	.300	.238	92.2	1.174	78.54	.633	.539	188.5	242.4	64.9
Exh #1	.350	.278	101.5	1.174	86.47	.696	.593	207.5	266.9	69.3
Exh #1	.400	.317	110.0	1.174	93.73	.755	.643	225.0	289.3	74.5

Head File: Untitled  
Head Comments:

Head Number	Customer	Brian Kelly	
Intake	Exhaust		
Layout:	1 valve & 1 port	Layout:	1 valve & 1 port
Valve Diameter, in	1.575	Valve Diameter, in	1.26
Stem Diameter, in	.305	Stem Diameter, in	.305
Throat Diameter, in	1.325	Throat Diameter, in	1.205
Avg Seat Angle, deg	45	Avg Seat Angle, deg	45
Port Shape:	Round	Port Shape:	Round
Port Volume, ccs	57.8	Port Volume, ccs	40.4
Avg Port Diameter, in	1.149	Avg Port Diameter, in	1.078
Avg Port Height, in	1.62	Avg Port Height, in	1.33
Port Length, in	3.4	Port Length, in	2.7