

6 " Hickenbottom Dimensions	
Measurement Description	Measurement
Distance orifice is below bell	.8'
Distance from flowline to bell	3.9'
Riser height reduction by removing the bottom half	1.5'
Distance from bell to top of the top row of holes	2.4'
Intake hole size	1"
Intake number of holes per row	10
Intake number of rows of holes	10
Intake total number of exposed holes	100
Holes/40 holes per foot (published value)	2.5'
Actual "holes per foot" (based on 2.4' height)	42

8 " Hickenbottom Dimensions	
Measurement Description	Measurement
Distance orifice is below bell	.7'
Distance from flowline to bell	4.3'
Riser height reduction by removing the bottom half	1.6'
Distance from bell to top of the top row of holes	2.7'
Intake hole size	1"
Intake number of holes per row	12
Intake number of rows of holes	12
Intake total number of exposed holes	144
Holes/56 holes per foot (published value)	2.6'
Actual "holes per foot" (based on 2.7' height)	53

10 " Hickenbottom Dimensions	
Measurement Description	Measurement
Distance orifice is below bell	.4'
Distance from flowline to bell	4.3'
Riser height reduction by removing the bottom half	1.5'
Distance from bell to top of the top row of holes	2.64'
Intake hole size	1"
Intake number of holes per row	18
Intake number of rows of holes	12
Intake total number of exposed holes	216
Holes/72 holes per foot (published value)	3.0'
Actual "holes per foot" (based on 2.6' height)	82

12 " Hickenbottom Intake Dimensions	
Measurement Description	Measurement
Distance orifice is below bell	.4'
Distance from flowline to bell	4.9'
Riser height reduction by removing the bottom half	1.5'
Distance from bell to top of the top row of holes	3.0'
Intake hole size	1.25"
Intake number of holes per row	12
Intake number of rows of holes	16.5
Intake total number of exposed holes	198
Holes/72 holes per foot (published value)	2.75'
Actual "holes per foot" (based on 3.0' height)	66

The bottom row is only 1/2 exposed above the riser bell.