



60-73 FORD & MERCURY MUSCLE PARTS IDENTIFIER CLEVELAND CYLINDERHEAD SPECIFICATIONS

OPEN VERSUS CLOSED (QUENCH) CHAMBERS

The quench chamber area remains cool enough that when the spark plug ignites the mixture it causes a flame front to move across the chamber towards the quench area. This might cause the flame to be extinguished near the end of its travel. The result is unburned fuel. Open chambers were developed because they burn fuel more effectively. In an open chamber head, there's no quench area and valves are less shrouded; thereby, encouraging better breathing. If you elect to use open chamber heads, you will sacrifice the low RPM torque advantage associated with the quench chamber, not to mention some valuable compression points. Most racers and engine builders prefer the quench chamber heads.

351-2U (70-74)

Chamber type: Open, 76.9-79.9 CC
 Valve diameter: (Intake) 2.050", (Exhaust) 1.659"
 Port size (W X H): (Intake) 1.40" X 2.02", (Exhaust) 1.38" X 1.84"
 Valve train: Hydraulic non-adjustable, multi groove valve stem locks.

302 BOSS (1969) Casting# C9ZE-6090-A or C9ZE-6090-C

Chamber type: Closed (Quench), 61.2-64.3 CC
 Valve diameter: (Intake) 2.23", (Exhaust) 1.71"
 Port size (W X H): (Intake) 1.75" X 2.50", (Exhaust) 1.74" X 2.00"
 Valve train: Mechanical adjustable, single valve stem groove locks, screw in studs, guideplates

302 BOSS (1970) Casting # DOZE-6090-A or DOZE-6090-B

Chamber type: Closed (Quench), 57.0-67.0 CC
 Valve diameter: (Intake) 2.19", (Exhaust) 1.71"
 Port size (W X H): (Intake) 1.75" X 2.50", (Exhaust) 1.74" X 2.00"
 Valve train: Mechanical adjustable, single valve stem groove locks, screw in studs, guideplates

351 BOSS (1971) Casting number D1ZE-6090-B

Chamber type: Closed (Quench), 64.6-67.6 CC
 Valve Diameter: (Intake) 2.19", (Exhaust) 1.71"
 Port size (W X H): (Intake) 1.75" X 2.50", (Exhaust) 1.74" X 2.00"
 Valve train: Mechanical adjustable, single valve stem groove locks, screw in studs, guideplates

351 HO (1972) Casting number D2ZE-6090-A

Chamber type: Open, 73.9-76.9 CC
 Valve diameter: (Intake) 2.19", (Exhaust) 1.71"
 Port size (W X H): (Intake) 1.75" X 2.50" , (Exhaust) 1.74" X 2.00"
 Valve train: Mechanical adjustable, single groove valve stem locks, screw in studs, guideplates

351-4U (70-71) Casting number DOAE-G, DOAE-M, DOAE-N, DOAE-R or D1AE-GA

Chamber type: Closed (Quench), 61.3-64.3 CC
 Valve diameter: (Intake) 2.19", (Exhaust) 1.71"
 Port size (W X H): (Intake) 1.75" X 2.50", (Exhaust) 1.74" X 2.00"
 Valve train: Hydraulic non-adjustable, multi groove valve stem locks.

351 CJ (71-73) Casting number D1ZE-DA (71-72) or D3ZE-AA* (73)

Chamber type: Open, 73.9-76.9 CC
 Valve diameter: For casting D1ZE-6090-DA (Intake) 2.19", (Exhaust) 1.71"
 Valve diameter: For casting D3ZE-6090-AA (Intake) 2.05", (Exhaust) 1.65"
 Port size (W X H): (Intake) 1.715" X 2.50", (Exhaust) 1.74" X 2.00"
 Valve train: Hydraulic non-adjustable, multi groove valve stem locks.

* Casting number D3ZE-6090-AA (1973 351 CJ) is prone to cracking around the valve seats