

Dart (RACE SERIES) 18° Oval 330cc CNC BBC Aluminum Cylinder Head

Part# 16876040 - 16877146 **Material: 355-T61** alum alloy

Comb Chambers: 98cc

Intake Valve Dia: 2.250" 330 cc **Intake Port volume:**

2.440"h x 1.800"w **Intake Port Dim: Int Port Location:** Raised .400"

Intake Gasket: Dart # 65123500 - .060" thick / #65123600 - .120" thick

Exh Valve Dia.: 1.840" **Exh Port volume:** 152cc

Exhaust Port Dim: 1.720"h x 1.975"w

Exh Port Location: Raised .400'' STD bolt pattern

Exhaust Gasket: Mr. Gasket 5914

Exhaust Bolts: 1" longer than stock (4) ea.

Flow, Intake: 413 cfm @ .800" lift Flow, Exhaust: 301 cfm @ .800" lift

Head Bolts/studs: Bolts - ARP# 135-3603 Studs – ARP# 235-4103

Manifold: Dart Special (Port for Oval Port) 6.25" tall Milling: Min. 86cc / .080'' (.005'' = 1cc) Flat mill only.

18° BBC aftermarket pistons. **Pistons:**

Push Rod length: Should always measure

Stock length Int. = 8.275" / Exh = 9.250"

Rocker Arms: Special - Jesel Shaft rockers w/1 pc intake stand

Retainers: Titanium 10°

.750" reach, gasketed Autolite AR3932 Spark Plug: 1.625" - .035 cup / 1.550" - ID locator **Spring Cups:**

1.740" OD for 1.625" cup (.030" deeper max) **Spring Pockets**

Our Assembly: 1.625T = 330# @ 2.100" / .900" max **Springs:**

Int - 18°, Exh - 9° **Valve Angles:** 4° cant

Int - 5.575" (+.350) **Valve Length:** Exh - 5.435" (stock)

.3415" - 11/32" **Valve Stem Dia:**

Valve Train: **Shaft Rockers only – Special Jesel**

Cut for .500" PC seals (.002" press) **Valve Guides:** 1/2" OD Mag - bronze

Valve Guide length: Int - 2.100" Exh - 2.250"

Valve Guide clearance: .0014" - .0021" (with our .3415 dia. valve stem)

Valve Guide Spacing: Exh moved .045" away from Int

Ductile Iron, .006" press (TIR .004) **Valve Seats:**

Valve Seat dim. Int. - 2.450" x 2.000" x .375" Exh - 2.000" x 1.600" x .375"

Int = $32^{\circ} - 45^{\circ} - 60^{\circ} - 70^{\circ} - 80^{\circ}$ $Exh = 37^{\circ} - 45^{\circ} - radius$ **Valve Seat angles:**

Stud Girdle: Can not use

Head Bolts = 70 ft/lbDart's inner head study 3/8-7/16 = 50 ft/lb Torque: w/oil

Manifold = 35 ft/lb

Block Use: Mark IV, Gen V, and Gen VI with proper head gasket

Weight: **37 lbs**

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