

| Item                                                                                                                     | Specification                 |
|--------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| Diameter - intake                                                                                                        | 0.472in (12mm)                |
| Diameter - exhaust                                                                                                       | 0.472in (12mm)                |
| Clearance-to-bore                                                                                                        | 0.0004-0.0020in (.01-.051mm)  |
| Hydraulic leakdown rate - intake                                                                                         | 0.45-3 seconds <sup>(1)</sup> |
| Hydraulic leakdown rate - exhaust                                                                                        | 0.45-3 seconds <sup>(1)</sup> |
| Collapsed lash adjuster gap                                                                                              | 0.0177-0.0035in (.45-.09mm)   |
| (1) Time required for the plunger to leak down 1.6 mm of travel with 222 N force and leakdown fluid in the lash adjuster |                               |

## SPECIFICATIONS > SPECIFICATIONS > CAMSHAFT

| Item                         | Specification                     |
|------------------------------|-----------------------------------|
| Lobe lift - intake           | 0.2347in (5.9615mm)               |
| Lobe lift - exhaust          | 0.2161in (5.48824mm)              |
| Journal diameter             | 1.1268in (28.62mm)                |
| Journal bore inside diameter | 1.1292-1.1282in (28.682-28.657mm) |
| Journal-to-bearing clearance | 0.0010-0.0030in (.025-.075mm)     |
| Runout                       | 0.0016in (.04mm)                  |
| End play                     | 0.0014-0.0067in (.035-.17mm)      |

## SPECIFICATIONS > SPECIFICATIONS > CYLINDER BLOCK

| Item                               | Specification                                           |
|------------------------------------|---------------------------------------------------------|
| Cylinder bore diameter             | 3.6299-3.6307in (92.2-92.22mm)                          |
| Cylinder bore maximum taper        | 0.0005in (.013mm)                                       |
| Cylinder bore maximum out-of-round | 0.0004in (.01mm)                                        |
| Main bearing bore inside diameter  | 2.850-2.851in (72.4-72.424mm)                           |
| Head gasket surface flatness       | 0.0254 mm (0.001 in) across any 38.1 mm (1.5 in) square |

## SPECIFICATIONS > SPECIFICATIONS > CRANKSHAFT