

# 7671312

full race

Volkswagen 9A 136hp

I-4cyl 2.0L 16v DOHC (DTH/DTH)



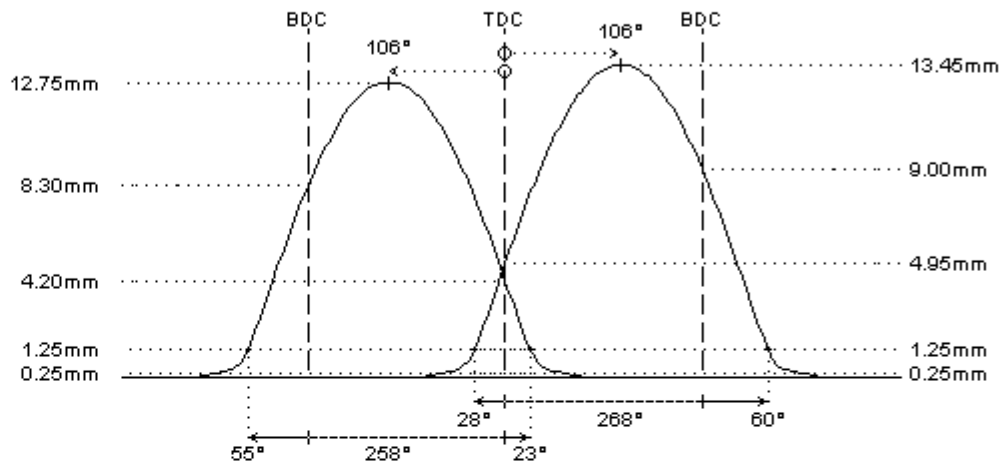
**intake**                      **exhaust**

**camshaft data:**

|                  |             |           |
|------------------|-------------|-----------|
| lash ramp        | : 0.25mm    | 0.25mm    |
| duration @ 0.1mm | : 303°      | 293°      |
| duration @ 1.0mm | : 268°      | 258°      |
| valve lift       | : 13.45mm   | 12.75mm   |
| cam lift         | :           |           |
| lobe angle       | : 106°      | 106°      |
| timing @ 1.0mm   | : 28° / 60° | 55° / 23° |
| valve lift @ TDC | : 4.95mm    | 4.20mm    |

**parts setup:**

|                      |                  |                  |
|----------------------|------------------|------------------|
| cam wheels :         | :  TVW033        | :  CTVW006       |
| follower             | :  CC005         | :  CC005         |
| valve lash           | :  TS102         | :  TS102         |
| valve                | : O.E.M.         | : O.E.M.         |
| valve locks          | : O.E.M.         | : O.E.M.         |
| upper retainer       | : 99370          | : 99370          |
| lower retainer       | :  not available | :  not available |
| exterior spring      | :  PAC-E15009    | :  PAC-E15009    |
| interior spring      | :  PAC-I15009    | :  PAC-I15009    |
| fitted load / length | : 37kg @ 34.5mm  | : 37kg @ 34.5mm  |
| max. load / lift     | : 114kg @ 14.0mm | : 114kg @ 14.0mm |



**REMARKS :**

- # - cast iron camshafts
- # - valve clearance is to be adjusted using mechanical lash caps  
- please make sure that the lash cap does not touch the valve locks !
- # FOR COMPETITION APPLICATIONS ONLY. Following details must be verified:
  - the camshafts must turn smooth in the cylinderhead, provide free travel by machining where needed
  - distance between valve seal and retainer at full lift must be 0.6mm at least
  - minimum valve spring travel of 1.0mm at full lift must be provided
  - distance between valve and piston 1.0mm (pref. 1.5mm). check 5-15° before TDC on exhaust, and after TDC on intake
- # ONLY for use in competition engines with independent engine management (throttle position sensor) or carburetors

**REMARKS :**

- # check distance between valve seal and retainer to be at least 0.6mm at full lift
- # ONLY for 7mm valves with single groove (RK-7H valve keepers)