

# 7671313

full race

Volkswagen PL 129hp (catalist)

I-4cyl 1.8L 16v DOHC (DTH/DTH)



**intake**                      **exhaust**

**camshaft data:**

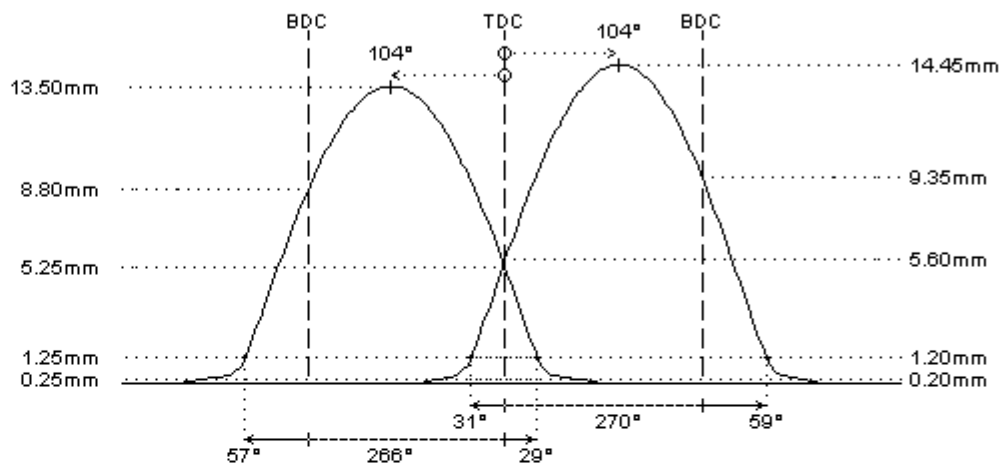
|                  |             |           |
|------------------|-------------|-----------|
| lash ramp        | : 0.20mm    | 0.25mm    |
| duration @ 0.1mm | : 308°      | 305°      |
| duration @ 1.0mm | : 270°      | 266°      |
| valve lift       | : 14.45mm   | 13.50mm   |
| cam lift         | :           |           |
| lobe angle       | : 104°      | 104°      |
| timing @ 1.0mm   | : 31° / 59° | 57° / 29° |
| valve lift @ TDC | : 5.60mm    | 5.25mm    |

**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       | : <b>X not available</b> | : <b>X not available</b> |
| exterior spring      | : PAC-E15009             | : PAC-E15009             |
| interior spring      | : PAC-I15009             | : PAC-I15009             |
| <br>                 |                          |                          |
| fitted load / length | : 37kg @ 34.5mm          | : 37kg @ 34.5mm          |
| max. load / lift     | : 114kg @ 14.0mm         | : 114kg @ 14.0mm         |

**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)



**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 carburettors