

# 1300655

full race

Bmw S14 (23 4 EA) 195hp

I-4cyl 2.3L 16v DOHC (DTs/DTs)



### intake

### exhaust

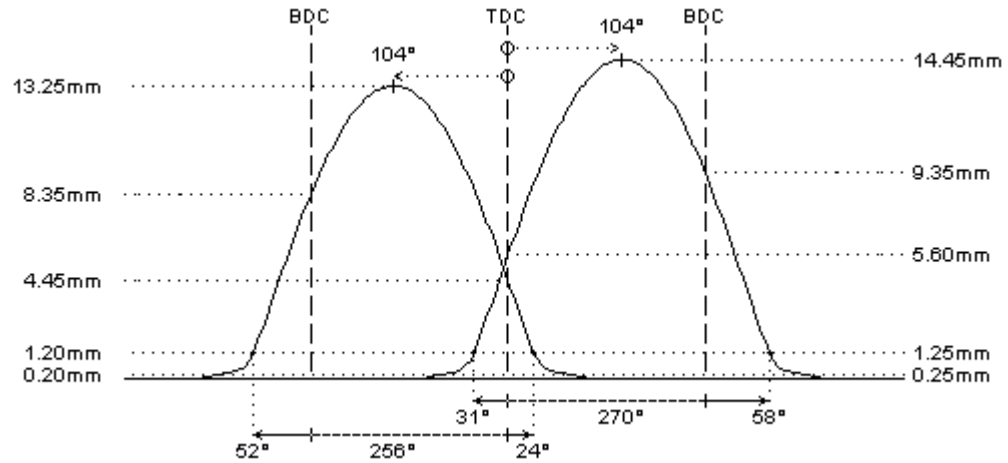
#### camshaft data:

lash ramp	: 0.25mm	0.25mm
duration @ 0.1mm	: 299°	289°
duration @ 1.0mm	: 269°	255°
valve lift	: 14.45mm	13.25mm
cam lift	:	
lobe angle	: 104°	104°
timing @ 1.0mm	: 31° / 58°	52° / 23°
valve lift @ TDC	: 5.60mm	4.45mm

#### parts setup:

cam wheels :	:	:
follower	: <b>CC010</b>	: <b>CC010</b>
valve lash	: <b>TS102</b>	: <b>TS102</b>
valve	: O.E.M.	: O.E.M.
valve locks	: O.E.M.	: O.E.M.
upper retainer	: <b>99322</b>	: <b>99322</b>
lower retainer	: <b>remove</b>	: <b>remove</b>
exterior spring	: <b>PAC-E95009</b>	: <b>PAC-E95009</b>
interior spring	: <b>PAC-I95009</b>	: <b>PAC-I95009</b>
fitted load / length	: 39kg @ 35.0mm	: 39kg @ 35.0mm
max. load / lift	: 118kg @ 14.5mm	: 118kg @ 14.5mm

#### REMARKS :



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- # These camshafts can be used in following engines (different valves are used, please contact Cat Cams in case of doubt):
  - S14 (23 4 EA), 2302cc, 195hp
  - S14 (23 4 S2), 2302cc, 215hp
  - S14 (25 4 S1), 2467cc, 238hp
- # 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
- # These profiles require race cam followers with shim between cam follower and valve (shim under follower). It is not possible to use these profiles on std cam followers with the shim between the follower and the cam (shim over follower).
- # if required, machine cylinder head and / or use solid shims to adjust spring load
- # ONLY for use in competition engines with independent engine management (throttle position sensor) or carburetors