

# 1034577

full race

Alfa Romeo AR 671.99 140hp, VVT intake

I-4cyl 1.7L 16v DOHC (DTH/DTH)



**intake**                      **exhaust**

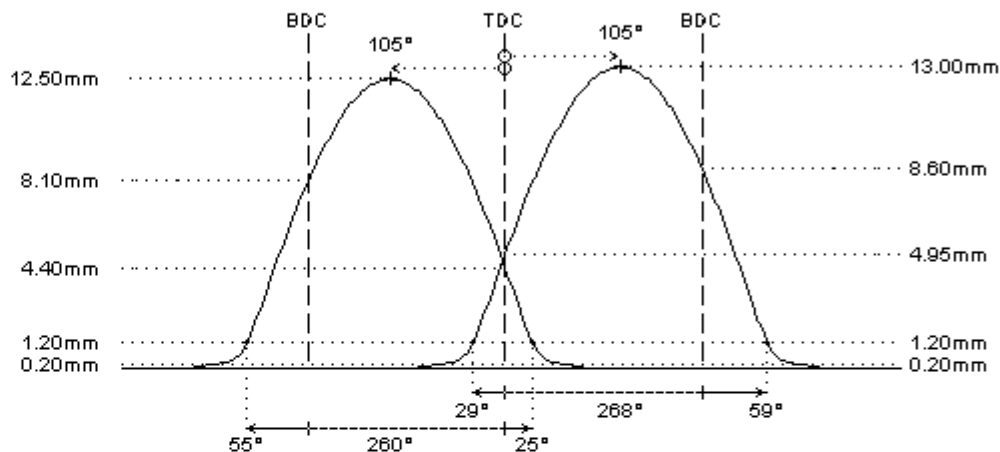
**camshaft data:**

lash ramp	: 0.20mm	0.20mm
duration @ 0.1mm	: 307°	298°
duration @ 1.0mm	: 268°	260°
valve lift	: 13.00mm	12.50mm
cam lift	:	
lobe angle	: 105°	105°
timing @ 1.0mm	: 29° / 59°	55° / 25°
valve lift @ TDC	: 4.95mm	4.40mm

**parts setup:**

cam wheels :	:  CTAR001	:  CTAR001
follower	:  CC002	:  CC002
valve lash	:  TS102	:  TS102
valve	: O.E.M.	: O.E.M.
valve locks	: O.E.M.	: O.E.M.
upper retainer	:  99371	:  99371
lower retainer	: O.E.M.	: O.E.M.
exterior spring	:  PAC-E92009	:  PAC-E92009
interior spring	:  PAC-I92009	:  PAC-I92009
fitted load / length	: 39kg @ 33.0mm	: 39kg @ 33.0mm
max. load / lift	: 100kg @ 12.5mm	: 100kg @ 12.5mm

**REMARKS :**



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- # camshafts for use WITHOUT standard VVT (vanos) system:  
manufactured from MONOBLOCK steel billet for increased strength and stiffness
- # - 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