

SHORT GLOSSARY of Abbreviations

This is given here as an aid to following the text. A full Glossary is given in [Appendix 1 Key](#)
[Appendix 1 Line No.](#)

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|---|-----------|
| B = Bore mm ; S = Stroke mm ; V = Total Swept Volume cc (or L). | 18,19,57. |
| VIA = Included Angle between Valve stems if OHV (see below) Degrees . | 23 |
| R = Compression Ratio (volumetric). | 17 |
| PA = Total Piston Area sq. cm . | 55 |
| IVD = Inlet Valve Head Diameter mm . | 24 |
| IVA = Total Inlet Valve-Head Area sq. cm . | 58 |
| CRL = Connecting-Rod Length between centres mm . | 37 |
| | |
| OHV = Overhead Valves (PR = Push-Rod actuated). | |
| OHC = Overhead Camshaft (per bank if Vee or Flat configuration); S = Single; D = Double. | |
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| NA = Normally Aspirated. | |
| PC = Pressure Charged; MSC = Mechanically Supercharged; TC = TurboCharged. | |
| IVP = Inlet Charge Pressure at inlet valve ATA (Atmospheres Absolute) (1 ATA = 14.696 psi). | 44 |
| MDR = Manifold Density Ratio, relative to ambient density at Standard Temperature and Pressure (15 ⁰ C & 14.696 psi). | 45 |
| PP = Peak Power* HP (BHP wherever this is certain, dividing known CV or PS by 1.01387). | 49 |
| NP = Crank rotational speed @ PP RPM . | 50 |
| * May unknowingly be a Rated Power @ Rated RPM below NP. Where known shown as PR @ NR. | |
| TP = Peak Torque lb ft | 51 |
| NT = Crank rotational speed @ TP RPM . | 52 |
| | |
| BMPP = Brake Mean Effective Pressure (BMEP) at PP Bar (1 Bar = 10 ⁵ Newtons/sq. cm = 14.503 psi) | 74 |
| BMPPA = BMPP Adjusted to R = 12 by Air Standard Efficiency ratio and to Petrol if fuel is largely Alcohol by dividing by 1.12 for NA only (when MSC alcohol adjustment is within MDR calculation). Bar | 79 |
| BMTP = BMEP at NT Bar | 76 |
| BMTA = BMTP adjusted as for BMPP to BMPPA Bar . | 82 |
| MPSP = Mean Piston Speed @ NP metres/sec = (2 x S x NP)/60,000 (m/s x 196.85 = ft/min). | 73 |
| BNP = Bore Speed @ NP m/s = (B x NP)/60,000 | 96 |
| MVSP = Mean Valve Speed @ NP m/s = (IVL x NP)/(IOD x 83.333) IVL = Inlet Valve Maximum Lift mm IOD = Inlet Valve Open Duration off/on seat Crank Degrees . | 97 |
| MGVP = Mean Gas Velocity @ NP m/s = (PA/IVA) x MPSP | 94 |
| MPDP = Maximum Piston Deceleration @ NP g . | 99 |
| W = Weight (Basic Dry, excluding exhaust system; also excludes intercoolers for TC) (other definitions vary) kg . | 124 |