

Engine Valves

Shailesh International is well experienced in the production of engine valves and supplies complete range of designated products for customers throughout the globe. The extensive design and material expertise of Shailesh International guarantees customer-specific, integral, functional, and cost-optimized solutions which withstand the toughest operating conditions.

Shailesh International produces intake and exhaust valves in forged and hot extrusion versions with a broad range of materials for engines of all sizes. Made by metal gathering upset forging process. Bimetallic Valves are Friction welded. Various process like Chrome flash on stem, Stellite on seat and tip area, Nitriding/Tuftriding, are also offered.



We can offer production of engine valves according to OE definitions, dimensions, and specifications, alongside to customized requirements, upgraded specifications to suite customer market needs.

Engine Valve Production Range

	Min	Max
Head Diameter	18 mm	450 mm
Stem Diameter	5 mm	80 mm
Length	50 mm	1300 mm

Materials

Intake & Exhaust Valves are offered from a wide range of materials such as:

- Low Carbon Steel
- Stainless Steels
- Martensitic Valve Steel
- Austenitic Valve Steel
- Nickel Alloy
- Stellite Alloy
- Nimonic / Inconel / Monal Superalloys

Configuration

Various configurations like monometal, bi-metal - friction welded, projection welded; head finish - machine finish, forge finish; seat - hard faced, induction hardened; tip end - flame hardened, induction hardened; stellite faced are also offered to enhance engine valve performance and durability.

Special Coatings and Treatments

To improve engine valves heat, wear and corrosion resistance properties, Shailesh International offers various coating and treatments:

- Hard Chrome Plating
- Tufftride Process
- Manganese phosphate coating
- Chromium Nitride (CrN) coating
- Titanium Nitride (TiN) Coating
- Zirconium Nitride (ZrN) Coating
- Mirror Polish

Engine Valves for Marine Engines

Shailesh International has extensive experience in the production of marine engine valves. We have been supplying Intake & Exhaust Valve for various marine diesel engines such as Allen, B&W, Daihatsu, MAN, Cummins, Hanshin, Yanmar, Niigata, Akasaka, Makita, Deutz, ITO, Mitsubishi, MAK, Pielstick and other famous brand names.

We can also provide custom design and manufacturing services for developing custom engine valves. We are committed to partnering with our customers to offer rapid development, prototyping and pilot production of engine valves tailored to each customer's specific needs. For special valves requirement and to present us with your custom made valve request, please contact us.