

Sport Compact Piston Kits

The Multivalve piston technology leader

Wiseco has become world renowned for their work building race winning pistons for compact engines featuring small bores, multi-valves, and high RPM applications for many years. Wiseco utilizes experience learned from a diverse background of the most sophisticated engines in such venues as Formula 1, Indy Racing League (IRL), NHRA Pro Stock Bike, AMA Superbike, and AMA Motocross to design and manufacture the highest technology Sport Compact piston available.



- 1** Valve Pocket designs that allow maximum flow around valve, also allowing oversized valves and high lift cams to be utilized.
- 2** Piston Crown shapes designed to promote maximum Intake Charge efficiency thru scavenging mixture "Cross Flow" during intake and exhaust valve overlap. More fuel and air equals more horsepower!
- 3** Pistons designed to optimize squish or quench during compression combustion cycle event, resulting in resistance to detonation and pre-ignition. The end product is longer engine life and increased horsepower potential.
- 4** Complex Piston skirt profiles that reduce power robbing friction, yet promote stability in bore for optimum ring seal. Wiseco has added skirt coatings to the long list of standard features on our stocked Sport Compact pistons!
- 5** Precision machined ring grooves with proper orifice/accumulator volume using calculated groove root diameters and axial widths, featuring excellent surface finish and flatness providing maximum ring seal and minimizes blow-by and oil consumption.
- 6** World class forging facility that utilizes the latest technologies featuring complex forged shapes, advanced materials, and featured aligned grain flow technology.

Wiseco Custom Pistons

Wiseco has extensive experience engineering and manufacturing many types of pistons from a variety of auto manufacturers. We've produced pistons for just about any sport compact, international racing, and performance venue you can imagine, such as: *Drag Racing, Road Race, Rally, Autocross, Off Road, Land Speed, and more.*

Custom Features available such as:

- Gas ports vertical and horizontal
- Specialized ring sets
- Custom Forging for OE and large volume production (call for details)
- Full Round design forging with bottom reinforcing band for extreme HP applications
- Modern Slipper style forging available for the ultimate in strength and weight savings
- Dykes ring grooves
- Specialized Machining features

Custom Piston Ordering Tips:

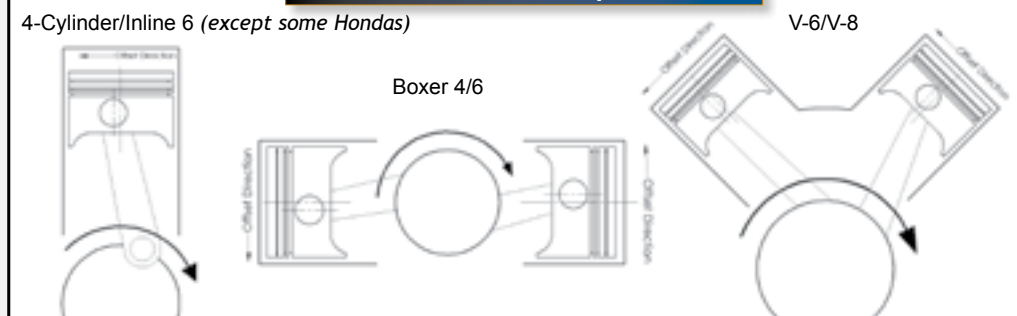
- 1) Custom piston order form available. Consult a Wiseco sales representative or log on to www.wiseco.com.
- 2) Supply as much information regarding specifications as possible. It is very important, for us to know quantity, motor type, induction, power levels, RPM and usage (i.e. street, drag race, road race, etc.).
- 3) Orders can be paid by credit card (Discover, American Express, Visa or MasterCard), or approved company check (unless other arrangements have been made in advance with our credit department).
- 4) Minimum order quantities apply. Ask Salesperson for details.
- 5) Remember, Wiseco personnel are always ready to help. Please call today!

Shelf Stock Piston Kits

Kit comes complete with:

- 1) Aerospace grade materials, forged for maximum strength.
- 2) Precision tolerance CNC machining for quality, repeatability and performance.
- 3) Crown thickness and ring lands designed for power adders such as force induction (turbo & blowers) and nitrous oxide. Note high compression pistons are generally designed for naturally aspirated application.
- 4) High Quality Piston Rings featuring alloy steel construction on top ring, cast iron taper faced 2nd, and 3PC oil assembly utilizing stainless expander and carbon steel rails.
- 5) Wrist Pins constructed of chrome moly steel material for the ultimate in strength.
- 6) Honed/Reamed pin bore holes for a precise tolerance fit between wrist pin and piston.
- 7) Wire Retainer Clip Lock, featuring chrome silicon material for the ultimate yield strength.
- 8) Piston deburred for performance and reliability.
- 9) Piston weights listed may vary.
- 10) All specs based on U.S. & European engine codes unless noted.

Pin Offset Descriptions



- Wiseco pistons are designed primarily for off-highway use. It is the responsibility of the customer to check Country and Federal emission regulations.
- Wiseco is not liable for typographical errors in this catalog.