



# NPR PISTON RINGS

The World Standard in  
**Performance & Technology**



Now that engines are required to be more compact, lighter, and more sophisticated in performance, the choice of piston ring materials has been widened to include steel in addition to the traditional cast iron. Moreover, in order to enhance their wear resistance and durability, they also undergo various surface treatments including nitriding and PVD treatment.

**NPR** utilizing these innovations, is leading the way in piston ring development.

## PISTON RING INNOVATIONS

- TOTAL RING HEIGHT IS LESS THAN 50% OF 1970 V8 RING
- TOTAL TENSION HAS ALSO BEEN REDUCED BY 50%
- TOTAL RING MASS HAS BEEN REDUCED BY 50%
- BASE RING MATERIAL HAS CHANGED FROM CAST IRON TO STEEL
- SURFACE TREATMENTS HAVE CHANGED FROM MOLY AND CHROME TO NITRIDING AND PVD
- 2ND RING SHAPE HAS CHANGED FROM TAPER FACE TO TAPER UNDER CUT

## NPR RINGS OFFER

- ✓ REDUCED OIL CONSUMPTION AND CLEANER BURNING ENGINES
- ✓ REDUCED RING AND CYLINDER WEAR INCREASING RING LIFE 50-100%
- ✓ INCREASED FUEL ECONOMY
- ✓ BETTER BORE CONFORMABILITY AND REDUCED BLOW BY

Piston ring specification history				
Year	75 - 95	96 - 05	06 - 12	04 - 10
Engine	US V8	US V8	US V8	6 cyl.
Top ring	 Ductile Cast iron with Moly	 Ductile Cast iron with Moly	 Steel + Nitrided	 Steel + Nitrided or PVD
2nd ring	 Gray cast iron	 Gray cast iron	 Gray cast iron	 Gray cast iron or steel
Oil ring	 Chrome	 Chrome	 Chrome	 Steel + Nitrided or PVD
Total width	8.72mm	6.0 mm	5.2 mm	4.4 mm



**NPR of America, Inc.**

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