



SHRIRAM PISTONS & RINGS

MD: TS: 13/OCT'23

INTRODUCTION CIRCULAR- **AMZ 1.2L PTRL - '3S IPVENT' RING SET**

USHA is pleased to launch **AMZ 1.2L PTRL '3S IPVENT'** ring set in its aftermarket Car product range.

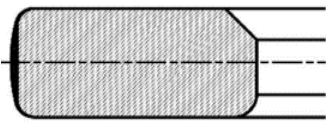
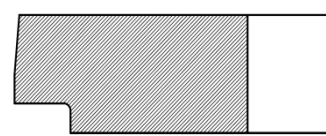
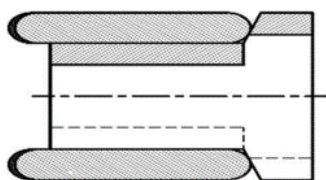


This ring set has following special features:

| ITEM | CONFIGURATION | FEATURES | BENEFITS TO CUSTOMER |
|----------------------|--|----------------|---|
| Top Ring | Steel Inside Bevel Ion Plated (HPIBIP) | Steel Material | Top ring is made up of steel which possesses good elasticity, excellent resistance to twisting, breakage & wear, hence longer life. |
| | | Inside Bevel | This ring has a bevel cut on its top inside face which facilitates ring to twist positively during downward movement & provides better sealing. |
| | | Ion Plating | Ion plating is done through a process called Physical Vapour Deposition (PVD) in which chrome ions get deposited on ring outer surface. Ion plating is a superior coating for improving wear & scuff resistance, resulting in longer life. |
| | | Parkerising | Side faces of the ring is parkerised to provide porous surface for oil retention resulting in better lubrication and lesser wear. It also prevents rusting & enhances shelf life. |
| 2 nd Ring | Steel Taper Outside Step (HPTOS) | Steel Material | Second ring is also made up of steel which possesses good elasticity, excellent resistance to twisting, breakage & wear, hence longer life. |
| | | Taper face | Ring has a Taper on OD to provide line contact with liner surface resulting in higher wall pressure for better sealing & scrapping. |
| | | Outside Step | Ring has a step cut on lower outside face due to which ring tilts positively and locks ring groove to restrict oil escaping towards combustion chamber during piston movement. It also facilitates better scrapping of oil during downward movement resulting in low oil consumption. |
| | | Parkerising | Ring is fully parkerised to provide porous surface for oil retention resulting in better lubrication and lesser wear. It also prevents rusting & enhances shelf life. |

| | | | |
|----------|---------|----------------------|--|
| Oil Ring | RIKVENT | 'RIKVENT' Design | 'RIKVENT' ring has a unique design consisting of three parts i.e. two rails & one spacer. The spacer acts as an expander and has protruded lips which not only push ring rails against cylinder walls but also tilt lower rail upwards and upper rail downwards making it nearly impossible for lubricating oil to go up towards combustion chamber, resulting in lower oil consumption. |
| | | Steel Spacer & Rails | Spacer ring is made of steel having better conformability for enhanced oil scrapping & longer life. |
| | | OD Ion Plated Rails | Both the rails are Ion plated on OD for better wear & scuff resistance. |

Technical data of **AMZ 1.2L PTRL '3S IPVENT'** ring set is as under:

| TECHNICAL DATA- AMZ 1.2L PTRL - '3S IPVENT' RING SET (ø 73.00 mm) | | | | | | |
|--|--------------------|----------------------|------------|--------|-------------------------------------|---|
| | | | | | | USHA Code → C36 |
| Ring | Ring Configuration | Axial Thickness (mm) | Closed Gap | | Surface Treatment | Cross Section |
| | | | (mm) | (Thou) | | |
| Top | HPIBIP | 1.00 | 0.15-0.25 | 06-10 | Ion Plating/ Parkerising |  |
| 2 nd | HPTOS | 1.00 | 0.30-0.42 | 12-16 | Parkerising |  |
| Oil | RIKVENT | 2.00 | 0.20-0.70 | 08-28 | OD Ion Plated Rails/ Parkerising |  |

USHA **AMZ 1.2L PTRL '3S IPVENT'** ring set is specially designed to reduce oil consumption & blow-by for optimum performance.



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