



SHRIRAM PISTONS & RINGS LTD.

MD: TS: 66/MAR'25

INTRODUCTION CIRCULAR- **TATA ACE GOLD CNG 'HPVENT' - RING SET**

USHA is pleased to launch **TATA ACE GOLD CNG 'HPVENT'** ring set in its SCV product range.

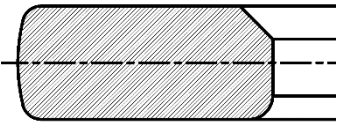

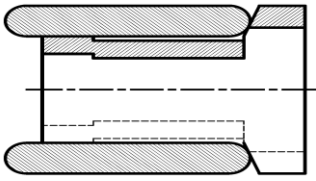


This ring set has following special features:

| ITEM | CONFIGURATION | FEATURES | BENEFITS TO CUSTOMER |
|----------------------|---|----------------------------------|---|
| TOP RING | Steel Inside Bevel (HPIBGN) | Steel Material | Top ring is made up of steel which possesses good elasticity, excellent resistance to twisting, breakage & wear, hence longer life. |
| | | Inside Bevelling | Ring has a bevel cut on upper inside edge due to which it facilitates ring to twist positively during its downward movement & provides better sealing. |
| | | Gas Nitriding (GN) | The ring is gas nitrided to provide better wear resistance to all surfaces, hence longer life. |
| 2 nd RING | Special Steel Taper Napier Chrome (SSNCR) | Special Steel Material (RIK-20A) | Intermediate ring is manufactured using special steel alloy which has properties similar to steel. This material has good elasticity and excellent resistance to twisting, breakage & wear etc. |
| | | Taper Napier geometry | Ring has a Taper face on its upper outer edge to provide line contact with liner resulting in higher wall pressure for better sealing. Also provided with a Napier cut on ring's lower outer edge facilitates the ring to accumulate excess oil & scraps it towards crankcase, hence low oil consumption. |
| | | Chrome Plating | Outer Taper face of the ring is Chrome plated to provide excellent wear & scuff resistance. |
| | | Parkerising | Side faces of the ring is parkerised to provide porous surface for oil retention resulting in better lubrication & lesser wear. |

| | | | |
|----------|---------|----------------------|--|
| 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. |
| | | Steel Spacer & Rails | Spacer ring is made of steel having better conformability for enhanced oil scrapping & longer life. |
| | | Gas Nitriding | The rails are gas nitrided for better wear resistance. |

Technical data of ring set is as under:

| TECHNICAL DATA- TATA ACE GOLD CNG 'HPVENT' - RING SET (ø 75.50 mm) | | | | | | |
|---|--------------------|----------------------|------------|--------|-----------------------------|---|
| USHA Code → C50 | | | | | | |
| Ring | Ring Configuration | Axial Thickness (mm) | Closed Gap | | Surface Treatment | Cross Section |
| | | | (mm) | (Thou) | | |
| Top | HPIBGN | 1.20 | 0.15-0.30 | 06-12 | Gas Nitriding |  |
| 2 nd | SSNCR | 1.20 | 0.35-0.50 | 14-20 | Parkerising/ Chrome Plating |  |
| Oil | RIKVENT | 2.00 | 0.20-0.70 | 08-28 | Gas Nitrided Rails |  |

USHA **TATA ACE GOLD CNG 'HPVENT'** ring set is specially designed to reduce oil consumption & blow-by for an excellent performance.



Technical Product News is an exclusive update of product & information from
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