

**MD: TS: 29/NOV'25****INTRODUCTION CIRCULAR – HYUNDAI EON (P) 'HPVENT'-RING SET**

USHA is pleased to launch **HYUNDAI EON PETROL 'HPVENT'** ring set in its Car/ PV product range.

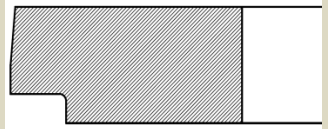
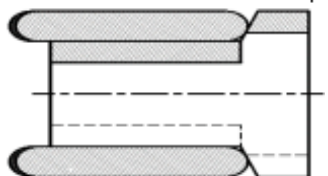


This ring set has following special features:

| 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 <sup>nd</sup> RING | Taper Outside Step (TOS)    | Taper face         | Ring has a Taper face on OD to provide line contact with liner resulting in higher wall pressure, hence better sealing.                                                                                                                                                                                                                              |
|                      |                             | 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 upward movement. 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 & 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.                                                       |
|  |  | Chrome Plating       | The rails are chrome plated for better wear resistance.                                                                                                   |
|  |  | Parkerising          | Side faces of the rails are parkerised to provide porous surface for oil retention & lesser wear. It also helps in preventing rust & enhances shelf life. |

Technical data of ring set is as under:

| TECHNICAL DATA- <b>HYUNDAI EON PETROL 'HPVENT'</b> - RING SET (ø 67.00 mm) |                    |                      |                   |        |                                     |                                                                                       |
|----------------------------------------------------------------------------|--------------------|----------------------|-------------------|--------|-------------------------------------|---------------------------------------------------------------------------------------|
|                                                                            |                    |                      |                   |        |                                     | USHA Code → <b>C49</b>                                                                |
| 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 <sup>nd</sup>                                                            | TOS                | 1.20                 | 0.25-0.40         | 10-16  | Parkerising                         |  |
| Oil                                                                        | RIKVENT            | 2.00                 | 0.20-0.70 (Rails) | 08-28  | Chrome Plated Rails/<br>Parkerising |  |

USHA **HYUNDAI EON PETROL 'HPVENT'** ring set is specially designed to reduce oil consumption & blow-by for an excellent performance.



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