



## SHRIRAM PISTONS & RINGS LTD.

MD: TS: 05/MAY'24 INTRODUCTION CIRCULAR – HYUNDAI i10/ i20 KAPPA 1.2L (P) 'HPVENT'- RING SET

USHA is pleased to launch **Hyundai i10/ i20 1.2L Kappa Petrol 'HPVENT'** ring set in its aftermarket Car product range.


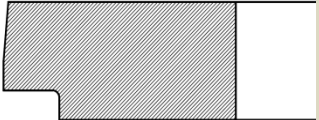
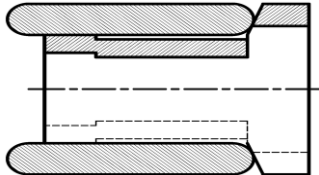


This ring set has following special features:

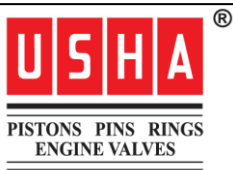
ITEM	CONFIGURATION	FEATURES	BENEFITS TO CUSTOMER
TOP RING	Steel Chrome (HPCR)	Steel Material	Top ring is made up of steel which possesses good elasticity, excellent resistance to twisting, breakage & wear, hence longer life.
		Chrome Plating	Outer periphery of the ring is chrome plated which provides excellent wear & scuff resistance.
		Parkerising	Side faces of top ring are parkerised to provide porous surface for oil retention resulting in better lubrication, hence lesser wear.
2 <sup>nd</sup> RING	Taper Outside Stepped (TOS)	Taper face	Ring has a Taper 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 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.
		Gas Nitriding	The rails are gas nitrided for better wear resistance.

Technical data of ring set is as under:

TECHNICAL DATA- HYUNDAI i10/ i20 KAPPA 1.2L (P) 'HPVENT' - RING SET (ø 71.00 mm)						
						USHA Code → <b>C41</b>
Ring	Ring Configuration	Axial Thickness(mm)	Closed Gap		Surface Treatment	Cross Section
			(mm)	(Thou)		
Top	HPCR	1.00	0.15-0.30	06-12	Chrome Plating/ Parkerising	
2 <sup>nd</sup>	TOS	1.20	0.30-0.45	12-18	Parkerising	
Oil	RIKVENT	2.00	0.20-0.70	08-28	Gas Nitrided Rails	

USHA **Hyundai i10/ i20 1.2L Kappa Petrol 'HPVENT'** ring set is specially designed to reduce oil consumption & blow-by for an excellent performance.



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