



SHRIRAM PISTONS & RINGS

MD: TS: 11/SEP'23 INTRODUCTION CIRCULAR – HYUNDAI i20/ VERNA/ i10 GRAND/ XCENT (D)-'SUPER DVM'-RING SET

USHA is pleased to launch **Hyundai i20/ Verna 1.4L (U14) / i10 Grand/ Xcent 1.1L (U11) Diesel 'Super DVM'** ring set in its Car product range in aftermarket.

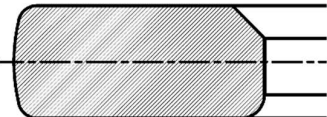

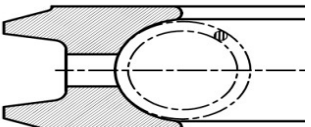


This ring set has following special features:

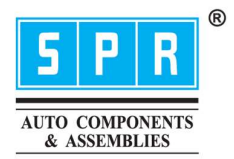
ITEM	CONFIGURATION	FEATURES	BENEFITS TO CUSTOMER
Top Ring	Steel Inside Bevel {HPIBGN}	Steel Material	Top ring is made up of steel, which possesses good elasticity, excellent resistance to twisting, breakage & wear, hence longer life.
		Inside Bevel	This ring has a bevel cut on its top inside face, which facilitates ring to twist positively during downward movement & provides better sealing.
		Gas Nitriding	The ring is gas nitrided to provide wear resistance to all surfaces for a longer life.
2 nd Ring	Special Steel Taper Inside Step Chrome {CRTISSS}	Special Steel Material (RIK-20A)	Second 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 face	Ring has a Taper on OD to provide line contact with liner surface resulting in higher wall pressure for better sealing & scrapping.
		Inside Step	Ring has a step cut on upper inside face due to which ring tilts positively and locks ring groove to avoid oil escaping towards combustion chamber. It also facilitates better oil scrapping during its downward movement, hence low oil consumption.
		Chrome Plating	Chrome plating is done on its OD which provides excellent wear & scuff resistance.
		Parkerising	Side faces of the ring is parkerised to provide porous surface on side faces for oil retention & lesser wear. It also prevents rusting & enhances shelf life.

Oil Ring	Diesel Vent 'M' shape {DVM}	Steel Material	Ring is made of steel material for longer life.
		Gas Nitriding (GN)	It is gas nitrided to provide wear resistance to all surfaces, hence longer life.
		Highly Conformable	DVM ring has built-in tension and spring beneath makes it highly conformable to bore wear pattern for better oil scrapping.
		Sharp Scrapping Ring Lands	The sharp ring lands with high wall pressure ensure better scrapping of oil resulting in lower oil consumption.
		Multiple Oil Drainage Slots	Ensure faster drainage of oil.
		Excellent Flatness	Side faces of DVM oil ring remain flat and do not swell as in case of ordinary oil ring for free movement in groove.
		Light in Weight	Ring is lighter in weight than ordinary oil ring which reduces fluttering in ring groove. Less fluttering avoids pumping up of oil thereby reducing oil consumption.

Technical data of **Hyundai i20/ Verna 1.4L (U14) / i10 Grand/ Xcent 1.1L (U11) Diesel 'Super DVM'** ring set is as under:

TECHNICAL DATA- HYUNDAI i20/ VERNA/ i10 GRAND/ XCENT (D) – 'SUPER DVM' RING SET (ϕ 75.00 mm)						
						USHA Code \rightarrow C39
Ring	Ring Configuration	Axial Thickness (mm)	Closed Gap		Surface Treatment	Cross Section
			(mm)	(Thou)		
Top	HPIBGN	1.75	0.20-0.35	08-14	Gas Nitriding	
2 nd	CRTISSS	1.75	0.30-0.45	12-18	Chrome Plating/ Parkerising	
Oil	DVM	3.00	0.20-0.40	08-16	Gas Nitriding	

USHA **Hyundai i20/ Verna 1.4L (U14) / i10 Grand/ Xcent 1.1L (U11) Diesel 'Super DVM'** 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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