



SHRIRAM PISTONS & RINGS LTD.

MD: TS: 68/MAR'25

INTRODUCTION CIRCULAR– **MARUTI GRAND VITARA/XL6/BREZZA 'NEW' 1.5L PETROL '3S VENT' - RING SET**

USHA is pleased to launch **MARUTI GRAND VITARA/ XL6/ BREZZA 'NEW' 1.5L PETROL '3S VENT'** ring set in its Car/ PV product range.

This piston set is also common to **TOYOTA URBAN CRUISER HYRYDER/ RUMION 1.5L PETROL** models.

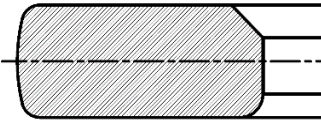

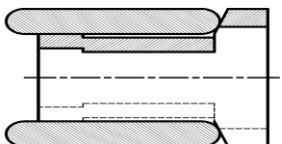


This ring set has following special features:

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	Steel Taper Outside Step (HPTOSRT)	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.
		Inside bevel on lower face	Ring has a bevel cut on lower inside face due to which ring twists in anti-clockwise direction during suction stroke which locks the groove to minimize blow-by & also restricts upward movement of oil towards combustion chamber.
		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- MARUTI GRAND VITARA/ XL6/ BREZZA 'NEW' 1.5L PETROL '3S VENT' - RING SET (ø 74.00 mm)						
USHA Code → C53						
Ring	Ring Configuration	Axial Thickness (mm)	Closed Gap		Surface Treatment	Cross Section
			(mm)	(Thou)		
Top	HPIBGN	1.00	0.15-0.25	06-10	Gas Nitriding	
2 nd	HPTOSRT	1.00	0.25-0.35	10-14	Parkerising	
Oil	RIKVENT	2.00	0.10-0.40	04-16	Gas Nitrided Rails	

USHA **MARUTI GRAND VITARA/ XL6/ BREZZA 'NEW' 1.5L PETROL '3S VENT'** 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
Shriram Pistons & Rings Ltd., 3rd Floor, Himalaya House, 23, Kasturba Gandhi Marg, New Delhi-110001
Tel: 011-46451100, 23315941, Email: tss@shrirampistons.com, Website: www.shrirampistons.com