



SHRIRAM PISTONS & RINGS


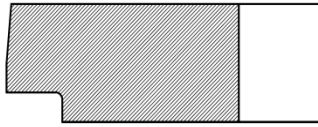
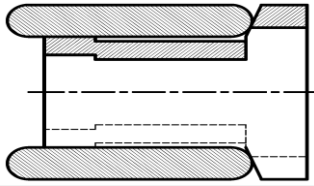
MD: TS: 01/JUN'22 INTRODUCTION CIRCULAR – **MARUTI ALTO 800cc NEW (YE-3) – RING SET**

USHA is pleased to launch **Maruti Alto 800cc New (YE-3)** ring set in its Car product range.

This ring set has following special features:

ITEM	CONFIGURATION	FEATURES	BENEFITS TO CUSTOMER
TOP RING	Steel ID Bevel Gas Nitrided (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	Taper Outside Step (TOS)	Taper face	Ring has a Taper on OD to provide line contact with liner surface resulting in higher wall pressure for better sealing & scrapping.
		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 and 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 towards 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 **Maruti Alto 800cc New (YE-3)** ring set is as under:

TECHNICAL DATA- MARUTI ALTO 800cc NEW (YE-3) 'HPVENT' - RING SET (Ø 68.50 mm)						
						USHA Code → C18
Ring	Ring Configuration	Axial Thickness (mm)	Closed Gap		Surface Treatment	Cross Section
			(mm)	(Thou)		
Top	HPIBGN	1.00	0.12-0.26	5-11	Gas Nitriding	
2 nd	TOS	1.20	0.30-0.50	12-20	Parkerising	
Oil	RIKVENT	2.00	0.20-0.50	8-20	Gas Nitrided Rails	

USHA **Maruti Alto 800cc New (YE-3) 'HPVENT'** ring set is specially designed to reduce oil consumption & blow-by for an excellent performance.



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 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