



SHRIRAM PISTONS & RINGS LTD.

MD: TS: 65/MAR'25 INTRODUCTION CIRCULAR- **TATA ALTROZ/ PUNCH/ TIAGO/ TIGOR 1.2L (P) 'IPVENT'-RING SET**

USHA is pleased to launch **TATA ALTROZ/ PUNCH/ TIAGO/ TIGOR 1.2L (P) 'IPVENT'** ring set in its aftermarket Car/ PV product range.

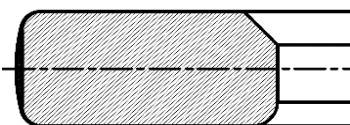

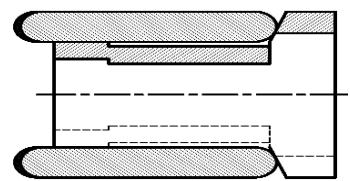


This ring set has following special features:

ITEM	CONFIGURATION	FEATURES	BENEFITS TO CUSTOMER
Top Ring	Steel Inside Bevelled Ion Plated (HPIBIP)	Steel Material	Top ring is made up of steel which possesses good elasticity, excellent resistance to twisting, breakage & wear, hence longer life.
		Inside Bevelling	This ring set has a bevel cut on top inside face which facilitates ring to twist positively during downward movement & provides better sealing.
		Ion Plating	Ion plating is a Japanese technology based on PVD (Physical Vapour Deposition) through which chrome and nitrogen ions get deposited on ring outer surface which enhances wear & scuff resistance.
		Parkerising	Side faces are parkerised to provide porous surface for oil retention resulting in better lubrication & lesser wear.

2 nd Ring	Steel Taper Napier (HPN)	Steel Material	Intermediate ring is made up of steel which possesses good elasticity, excellent resistance to twisting, breakage & wear, hence longer life.
		Taper face	Ring has a Taper geometry at its upper outer face which provides line contact with liner resulting in higher wall pressure, hence better sealing.
		Napier cut	A Napier cut is provided at ring's lower outer face facilitates the ring to accumulate excess oil & scraps it towards crankcase, hence low oil consumption.
		Parkerising	Ring is fully parkerised to provide porous surface for oil retention resulting in better lubrication & lesser wear.
Oil Ring	RIKVENT (IP)	'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, resulting in lower oil consumption.
		Steel material	Spacer & Rails are made up of steel material having better conformability & wear resistance, hence improved oil scraping & ring life.
		Ion Plating on Rails	Ion plating is a Japanese technology based on PVD (Physical Vapour Deposition) through which chrome and nitrogen ions get deposited on rails outer surface which enhances wear resistance.
		Parkerising	Side faces of the rails are parkerised to provide porous surface for oil retention resulting in better lubrication & lesser wear.

Technical data of **TATA ALTROZ/ PUNCH/ TIAGO/ TIGOR 1.2L (P) 'IPVENT'** ring set is as under:

TECHNICAL DATA- TATA ALTROZ/ PUNCH/ TIAGO/ TIGOR 1.2L (P) 'IPVENT' RING SET (ø 77.00 mm)						
USHA Code → C51						
Ring	Ring Configuration	Axial Thickness (mm)	Closed Gap		Surface Treatment	Cross Section
			(mm)	(Thou)		
Top	HPIBIP	1.00	0.15-0.25	06-10	Ion Plating/ Parkerising	
2 nd	HPN	1.00	0.35-0.50	14-20	Parkerising	
Oil	RIKVENT (IP)	2.00	0.20-0.50	08-20	Ion Plated Rails/ Parkerising	

USHA **TATA ALTROZ/ PUNCH/ TIAGO/ TIGOR 1.2L (P) 'IPVENT'** ring set is specially designed to reduce oil consumption & blow-by for an excellent performance.



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