



SHRIRAM PISTONS & RINGS

MD: TS: 08/OCT'22

INTRODUCTION CIRCULAR – **MAHINDRA BOLERO PICKUP/ LCCR BS-VI-'IPDVM' RING SET**

USHA is pleased to launch **Mahindra Bolero Pickup/ LCCR BS-VI 'IPDVM'** ring set in its LCV product range.

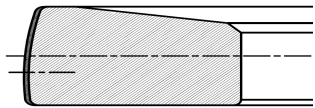
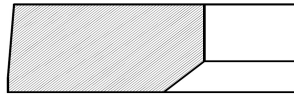
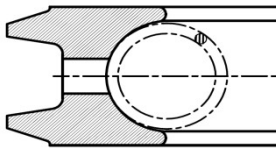


This ring set has following special features:

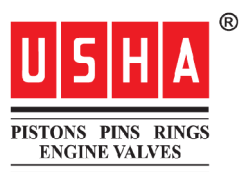
ITEM	CONFIGURATION	FEATURES	BENEFITS TO CUSTOMER
Top Ring	Half Keystone Steel Ion Plated {HPK _H (PVD)}	Steel Material	Top ring is made using steel material which possesses good elasticity, excellent resistance to twisting, breakage & wear, hence longer life.
		Half Keystone Geometry	Upper side of top ring is having keystone geometry which helps in squeezing out excess oil from inside the groove preventing carbon deposition & sludge formation. Bottom side is kept flat which enables better seating of ring on groove flank resulting in lesser blow-by.
		Ion Plating	Ion plating is a Japanese technology based on PVD (Physical Vapour Deposition) through which chromium ions are deposited on ring outer surface in an inert atmosphere. Ion plating is a superior coating for improving wear & scuff resistance to enhance ring life.
		Parkerising	Side faces of the ring are parkerised to provide porous surface for oil retention resulting in better lubrication & lesser wear.
2 nd Ring	Reverse Torsion {RT}	Taper face	Ring has a Taper on OD to provide line contact with liner resulting in higher wall pressure, hence better sealing.
		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 avoid blow-by & upward movement of oil.
		Parkerising	Ring is fully parkerised to provide porous surface for oil retention resulting in better lubrication & lesser wear.

Oil Ring	Diesel Vent 'M' shape {DVM}	Steel Material	Ring is made of steel material for longer life.
		Gas Nitrided (GN)	The ring 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 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 **Mahindra Bolero Pickup/ LCCR BS-VI 'IPDVM'** ring set is as under:

TECHNICAL DATA- MAHINDRA BOLERO PICKUP/ LCCR BS-VI- 'IPDVM' RING SET (Ø 88.90 mm)						
						USHA Code →L37
Ring	Ring Configuration	Axial Thickness (mm)	Closed Gap		Surface Treatment	Cross Section
			(mm)	(Thou)		
Top	HPK _H (PVD)	2.00	0.25-0.35	10-14	Ion Plating/ Parkerising	
2 nd	RT	2.00	0.40-0.60	16-24	Parkerising	
Oil	DVM	2.00	0.20-0.45	08-18	Gas Nitriding	

USHA **Mahindra Bolero Pickup/ LCCR BS-VI 'IPDVM'** 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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