USHA® PISTONS PINS RINGS ENGINE VALVES

Introducing

USHA® TATA ACE DICOR TURBO 'CPC DHCR' RING SET

TECHNICAL Product News

MD: TS: 07/2021 **JAN'2021** *An update from* **SHRIRAM PISTONS & RINGS LTD.**

USHA® is pleased to launch TATA ACE DICOR TURBO 'CPC DHCR' ring set in its SCV product range.

This ring set has following special features:

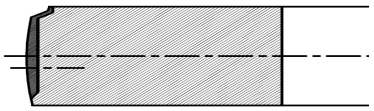
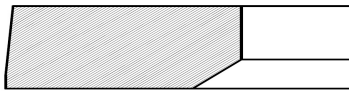
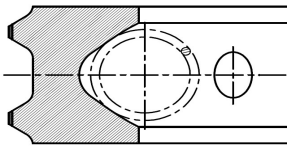
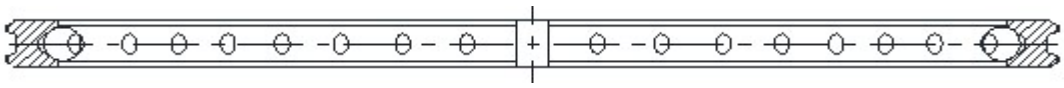
ITEM	CONFIGURATION	FEATURES	BENEFITS TO CUSTOMER
TOP RING	Special Steel CPC (CPCSS)	Special Steel Material (RIK-20A)	Top ring is manufactured using special steel alloy (RIK-20A) which has properties similar to steel. This material has good elasticity and excellent resistance to twisting, breakage & wear.
		Composite Plating of Chrome (CPC) Coating	CPC is a specialized process of first plating the ring OD with chrome, creating cracks & then filling up hard particles (Al_2O_3) in these cracks. This process is repeated many times building one layer above another. CPC rings have higher wear & scuff resistance under all working conditions.
		Parkerising	Side faces of ring are parkerised to provide porous surface for oil retention resulting in better lubrication, hence lesser wear.
2nd RING	Reverse Torsion Ring (RT)	Taper face	Ring has a Taper on OD to provide line contact with liner resulting in higher wall pressure and hence better sealing & scrapping.
		Bevel on lower inside face	Ring has a bevel cut on lower inside face due to which it twists in reverse direction during upward stroke which locks the groove to avoid blow-by & ensure lower oil consumption.
		Parkerising	Ring is fully parkerised to provide porous surface for oil retention resulting in better lubrication, hence lesser wear.
OIL RING	Spring Loaded Drilled Hole Chrome Plated Cast Iron Oil Ring (DHCR)	Highly Conformable	This ring is provided with a variable pitch coil spring making it conformable and adjustable to changing bore wear which ensures perfect sealing & excellent oil scrapping under all conditions.
		Chrome Plated & Profile Ground Ring Lands	Ring lands are uniform throughout its periphery for an effective sealing and efficient scrapping of oil due to sharper edges. Chrome plating provides excellent wear & scuff resistance.
		Multiple Oil Drainage Slots	Ensure all round & faster drainage of oil.

		Excellent Flatness	Side faces of DHCR oil ring remain flat and do not swell as in case of HTCR ring for a free movement in the groove.
		Parkerising	This ring is also parkerised to provide porous surface on side faces for oil retention and lesser wear.

Technical data of TATA ACE DICOR TURBO 'CPC DHCR' ring set is as under:-

TECHNICAL DATA- TATA ACE DICOR TURBO - 'CPC DHCR' RINGS (ø 78.00 mm)

USHA Code → C25

Ring	Ring Configuration	Axial Thickness (mm)	Closed Gap		Surface Treatment	Cross Section
			(mm)	(Thou)		
Top	Conv. Special Steel	2.00	0.25-0.40	10-16	CPC/ Parkerised	
2nd	Reverse Torsion	2.00	0.40-0.60	16-24	Parkerised	
Oil Ring	DHCR (Drilled Hole CI ring)	3.00	0.30-0.50	12-20	Chrome Plating on Lands/ Parkerised	
						

USHA TATA ACE DICOR TURBO 'CPC DHCR' ring set is specially designed to reduce oil consumption & blow-by for an excellent performance.