

## **TECHNICAL BULLETIN- Mahindra XYLO D2/D4 CPCDVM Ring Set**

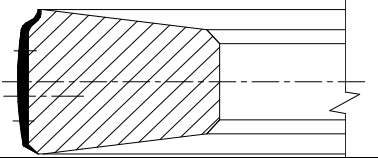
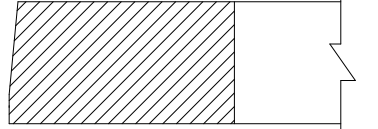
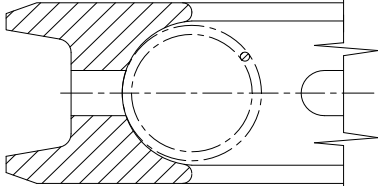
USHA is pleased to introduce Mahindra Xylo D2/D4 **CPCDVM** ring set in our MUV range.

This ring set has following special features:

<b>ITEM</b>	<b>CONFIGURATION</b>	<b>FEATURES</b>	<b>Benefits to Customer</b>
<b>TOP RING</b>	<b>Keystone Special Steel CPC Ring</b>	<b>Special Steel Material (RIK-20A)</b>	Top ring is made up of a special alloy(RIK-20A) which has properties similar to steel. This material has good elasticity and hence excellent resistance to twisting & breakage.
		<b>Keystone Geometry</b>	Special Keystone geometry keeps squeezing out excess oil from inside the groove & hence prevents carbon deposition.
		<b>CPC Coating</b>	CPC is a specialized process of first plating the ring OD with chrome, then creating cracks & then filling up hard particles(Al <sub>2</sub> O <sub>3</sub> )in these cracks. This process is repeated many times building one layer above another. CPC rings has higher wear & scuff resistance under all working conditions.
		<b>Parkerising</b>	Ring faces are parkerised to provide porous surface for oil retention resulting in better lubrication and hence lesser wear.
<b>2nd RING</b>	<b>Taper Compression Ring</b>	<b>Taper face</b>	Ring has a Taper on OD to provide line contact with liner resulting in higher wall pressure & better sealing.
		<b>Parkerising</b>	This Ring is also parkerised to provide porous surface for oil retention & hence better lubrication.
<b>OIL RING</b>	<b>Diesel Vent-M (DVM) Oil Ring</b>	<b>Stainless Steel material</b>	Ring is made from stainless steel for higher life.
		<b>Gas Nitrided (GN)</b>	The ring is gas nitrided to provide wear resistance to all surfaces, whereas in other oil control rings only lands are chrome plated.
		<b>Highly Conformable</b>	This ring (without spring) has practically no tension but it is the spring which provides tension making this ring highly conformable and adjust itself according to bore wear for oil scavenging.
		<b>Sharp Scraping Ring Lands</b>	The sharp scraping lands with high wall pressure ensure better scraping of oil resulting in lower oil consumption.
		<b>Multiple Oil Drainage Slots</b>	Ensure faster drainage of oil.
		<b>Excellent Flatness</b>	Side faces of DVM oil ring remain flat and do not swell as in case of cast iron oil ring for a free movement in the groove.
		<b>Light in weight</b>	Ring is lighter in weight than ordinary cast iron rings which reduces fluttering of ring. Less fluttering avoids pumping up of oil thereby reducing oil consumption.

**TECHNICAL DATA-MAHINDRA XYLO D2/D4 CPCDVM RINGS (ø88.90 mm)**

**USHA CODE → C17**

Ring	Ring Configuration	Axial Thickness (mm)	Closed Gap		Surface Treatment	Cross Section
			(mm)	(Thou)		
Top	Keystone Special Steel CPC	3.00	0.25-0.45	10-18	CPC	
Second	Taper Compression	2.50	0.70-0.95	28-38	Parkerised	
Oil Ring	DVM	2.50	0.20-0.45	8-18	Gas Nitriding	

USHA **CPCDVM** is best ring set which not only reduces oil consumption by 40% but has better life also as compared to any ordinary ring set.