



SHRIRAM PISTONS & RINGS LTD.

MD: TS: 20/SEP'24

INTRODUCTION CIRCULAR – M&M BOLERO POWER+/ TUV300 'CPC DVM' - RING SET

USHA is pleased to launch **MAHINDRA BOLERO POWER+/ TUV300 DIESEL 'CPC DVM'** ring set in its aftermarket PV product range.

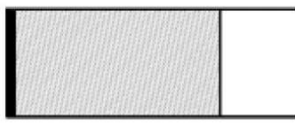
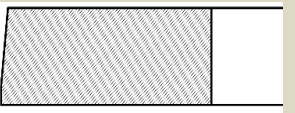
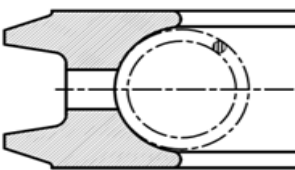


This ring set has following special features:

| ITEM | CONFIGURATION | FEATURES | BENEFITS TO CUSTOMER |
|----------------------|---|----------------------------------|--|
| Top Ring | Special Steel Composite Plating of Chrome (SSCPC) | Special Steel Material (RIK-20A) | Top ring is manufactured using special steel alloy which has properties similar to steel. This material has good elasticity and excellent resistance to twisting, breakage & wear etc. |
| | | CPC Coating | CPC is a specialized process of first plating the ring OD with chrome, then 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 are parkerised to provide porous surface for oil retention resulting in better lubrication, hence lesser wear. |
| 2 nd Ring | Taper Compression (T) | Taper face | Ring has a Taper on OD to provide line contact with liner resulting in higher wall pressure, hence better sealing. |
| | | 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 up of steel for longer life. |
| | | Gas Nitriding (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 the bore wear for better oil scraping. |
| | | Sharp Scraping Ring Lands | The sharp ring lands with high wall pressure ensures better scraping 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 a free movement in groove. |
| | | Light in Weight | Ring is lighter in weight than ordinary oil ring which reduces fluttering of ring in groove thereby avoids pumping up of oil, hence low oil consumption. |

Technical data of **M&M BOLERO POWER+/ TUV300 DIESEL 'CPC DVM'** ring set is as under:

| TECHNICAL DATA- M&M BOLERO POWER+/ TUV300 DIESEL 'CPC DVM' RING SET (ø 83.00 mm) | | | | | | |
|---|--------------------|----------------------|------------|--------|--|---|
| | | | | | | USHA Code → C43 |
| Ring | Ring Configuration | Axial Thickness (mm) | Closed Gap | | Surface Treatment | Cross Section |
| | | | (mm) | (Thou) | | |
| Top | SSCPC | 1.50 | 0.20-0.40 | 08-16 | Composite Plating of Chrome/ Parkerising |  |
| 2 nd | T | 1.50 | 0.35-0.55 | 14-22 | Parkerising |  |
| Oil | DVM | 2.00 | 0.20-0.45 | 08-18 | Gas Nitriding |  |

USHA **M&M BOLERO POWER+/ TUV300 DIESEL 'CPC DVM'** ring set is specially designed to reduce oil consumption & blow-by for an excellent performance.



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