



## SHRIRAM PISTONS & RINGS LTD.

MD: TS:35/DEC'24

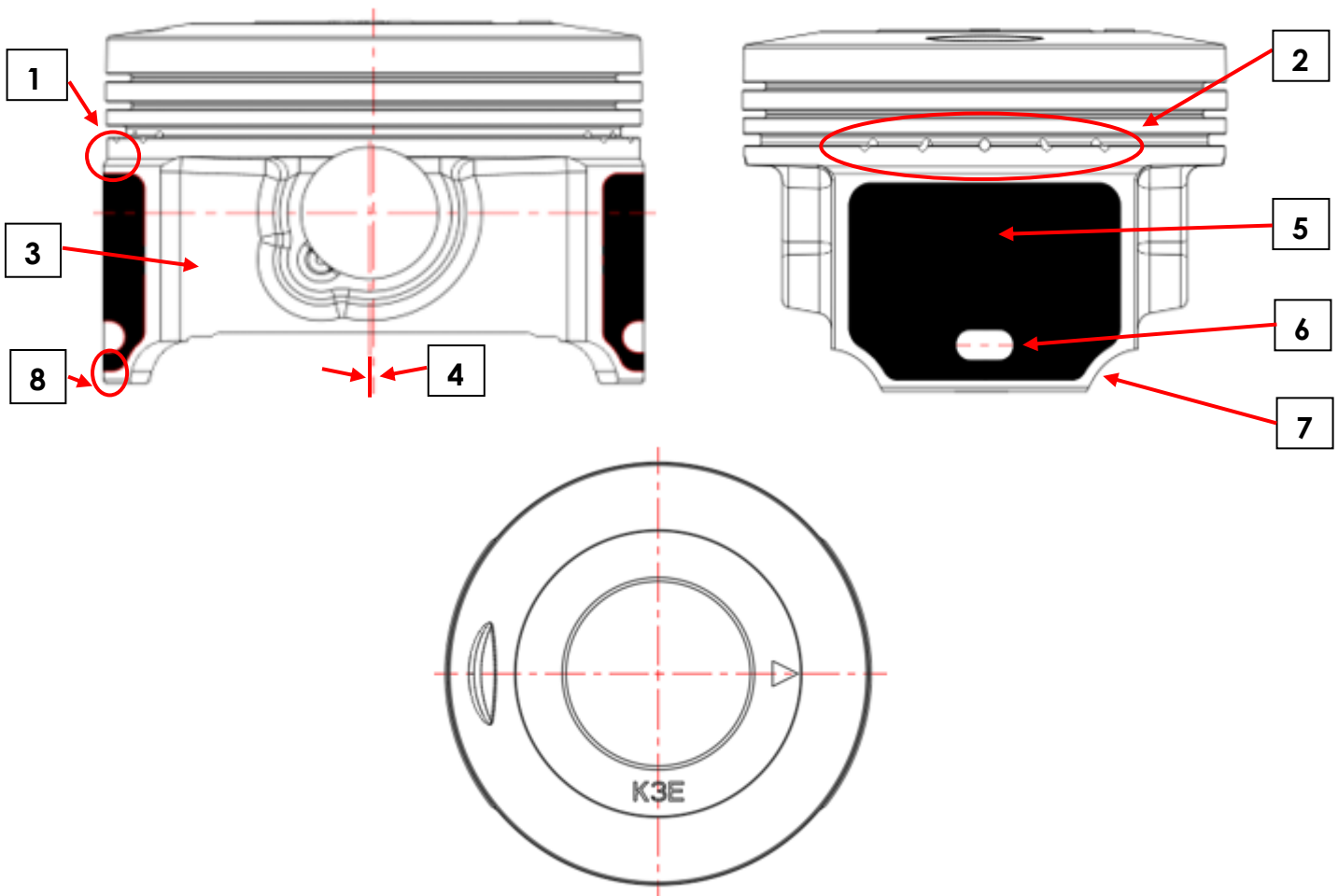
INTRODUCTION CIRCULAR – **BAJAJ PULSAR 220cc BS VI - PISTON ASSEMBLY**

USHA is pleased to launch '**BAJAJ PULSAR 220cc BS VI**' piston assembly in its aftermarket bi-wheeler product range.



This piston assembly has following special features: -

### PISTON:-



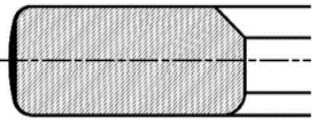

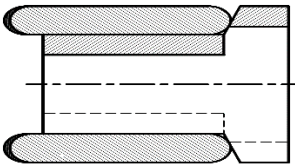
Unique features of USHA **'BAJAJ PULSAR 220cc BS VI'** piston are as follows: -

SL. NO.	SPECIAL FEATURE	BENEFITS TO CUSTOMER
1)	<b>'J' CUT:</b> A unique 'J' shaped cut is provided just below the oil ring groove area.	<ul style="list-style-type: none"> <li>Provides all time lubrication to piston skirt</li> <li>No piston seizure in extreme limits of normal working conditions</li> </ul>
2)	<b>HOLES IN OIL RING GROOVE AREA:</b> 05 nos. of holes are provided in the oil ring groove on either side of piston skirt, half in groove & half in skirt.	<ul style="list-style-type: none"> <li>Faster drainage of excess oil</li> <li>Reduces oil consumption</li> </ul>
3)	<b>AS CAST RELIEF IN PIN BORE AREA:</b> As cast relief in pin bore area helps in faster drainage of oil towards sump & also avoids chances of seizure on minor axis.	<ul style="list-style-type: none"> <li>Low oil consumption</li> <li>Longer life</li> </ul>
4)	<b>PISTON - PIN BORE OFFSET:</b> Piston is provided with piston pin bore offset to avoid piston slap. Piston pin bore offset means that the centre line of piston is slightly offset from the centre line of pin bore. Due to this offset, piston tilts at TDC & BDC smoothly & prevents slapping with cylinder surface.	<ul style="list-style-type: none"> <li>Reduced engine noise</li> </ul>
5)	<b>'D-10 COATING' ON PISTON SKIRT:</b>	<ul style="list-style-type: none"> <li>Helps in initial lubrication &amp; seizure free operation</li> <li>Better wear resistance</li> <li>Reduces engine noise</li> </ul>
6)	<b>MEASURING POINTS ON PISTON SKIRT:</b>	<ul style="list-style-type: none"> <li>Provided for easy diameter verification</li> </ul>
7)	<b>SLIPPER DESIGN:</b> Slipper design helps in reducing piston weight.	<ul style="list-style-type: none"> <li>Improves fuel efficiency</li> <li>Low noise during engine working</li> </ul>
8)	<b>SCRAPPING CHAMFER:</b> A smooth chamfer is provided at the bottom end of the piston skirt.	<ul style="list-style-type: none"> <li>Helps in regulating oil supply, reduces skirt wear &amp; hence longer life</li> </ul>

TECHNICAL DATA – <b>'BAJAJ PULSAR 220cc BS VI'</b> PISTON	
USHA Code → <b>NCS105</b>	
Nominal Bore Diameter	67.00
Piston Diameter	66.975
Recommended Piston-Liner Clearance	0.025
Compression Height	24.45
Total Height	46.45
Gudgeon Pin Length X OD	49.00 X 17.00
All dimensions in 'mm'	

## **PISTON RINGS:-**

USHA '**BAJAJ PULSAR 220cc BS VI**' piston is supplied with a unique '**3S3C VENT**' ring set for low oil & fuel consumption. The technical details of '**3S3C VENT**' ring set are as under:

<b>TECHNICAL DATA – '<b>BAJAJ PULSAR 220cc BS VI</b>' – '<b>3S3C VENT</b>' RINGS</b>						
Ring	Ring Configuration	Axial Thickness (mm)	Closed Gap		Surface Treatment	Cross Section
			(mm)	(Thou)		
Top	Steel Inside Bevel (HPIBCR)	1.00	0.15-0.30	06-12	Chrome Plating/ Parkerising	
Second	Steel Taper (HPCRT)	1.00	0.30-0.50	12-20	Chrome Plating/ Parkerising	
Oil	RIKVENT	1.50	0.20-0.70 (Rails)	08-28	Chrome Plated Rails/ Parkerising	

Above features make USHA '**BAJAJ PULSAR 220cc BS VI**' piston assembly unique, produced to give better performance & longer life.



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