



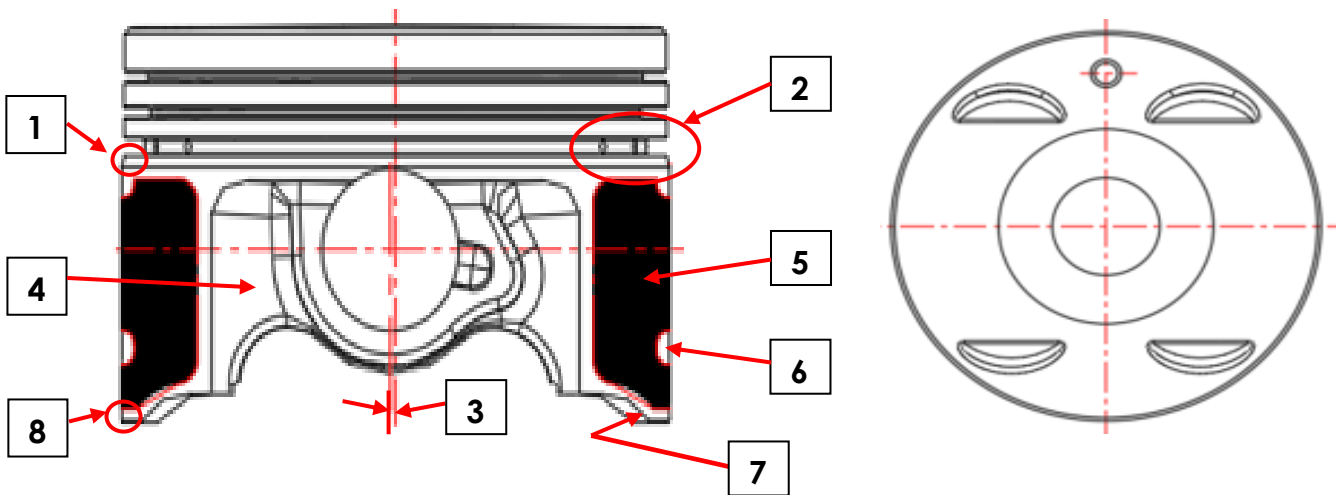
MD: TS: 38/MAR'26 INTRODUCTION CIRCULAR – BAJAJ DISCOVER 150cc 4V - PISTON ASSEMBLY

USHA is pleased to launch 'BAJAJ DISCOVER 150cc 4V' piston assembly in its aftermarket bi-wheeler product range.



This piston assembly has following special features: -

PISTON:-



Unique features of USHA 'BAJAJ DISCOVER 150cc 4V' piston are as follows: -

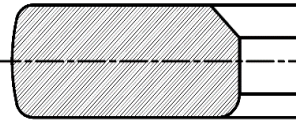
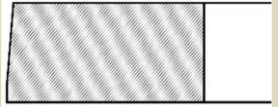
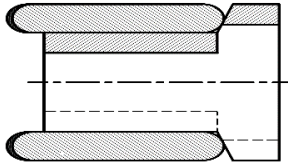
SL. NO.	SPECIAL FEATURE	BENEFITS TO CUSTOMER
1)	CHAMFER AT BOTTOM OF OIL RING GROOVE: An all-round chamfer is provided just below the oil ring groove area.	<ul style="list-style-type: none"> Provides all time lubrication to piston skirt No piston seizure in extreme limits of normal working conditions

2)	HOLES IN OIL RING GROOVE AREA: 05 nos. of holes are provided in the oil ring groove on either side of piston skirt.	<ul style="list-style-type: none"> Faster drainage of excess oil Reduces oil consumption
3)	PISTON - PIN BORE OFFSET: 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"> Reduced engine noise
4)	AS CAST RELIEF IN PIN BORE AREA: 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"> Low oil consumption Longer life
5)	'Nano-friKS COATING' ON PISTON SKIRT:	<ul style="list-style-type: none"> Helps in initial lubrication & seizure free operation Better wear resistance Reduces engine noise
6)	MEASURING POINTS ON PISTON SKIRT:	<ul style="list-style-type: none"> Provided for easy diameter verification
7)	SLIPPER DESIGN: Slipper design helps in reducing piston weight.	<ul style="list-style-type: none"> Improves fuel efficiency Low noise during engine working
8)	SCRAPING CHAMFER: A smooth chamfer is provided at the bottom end of the piston skirt.	<ul style="list-style-type: none"> Helps in regulating oil supply, reduces skirt wear & hence longer life

TECHNICAL DATA – 'BAJAJ DISCOVER 150cc 4V' PISTON	
USHA Code → NCS112	
Nominal Bore Diameter	56.00
Piston Diameter	55.96
Recommended Piston-Liner Clearance	0.040
Compression Height	19.00
Total Height	34.00
Gudgeon Pin Length X OD	41.60 X 14.00
All dimensions in 'mm'	

PISTON RINGS:-

USHA '**BAJAJ DISCOVER 150cc 4V**' piston is supplied with a unique '**HPVENT**' ring set for low oil & fuel consumption. The technical details of '**HPVENT**' ring set are as under:

TECHNICAL DATA – ' BAJAJ DISCOVER 150cc 4V ' – ' HPVENT ' RINGS						
Ring	Ring Configuration	Axial Thickness (mm)	Closed Gap		Surface Treatment	Cross Section
			(mm)	(Thou)		
Top	Steel Inside Bevel (HPIBGN)	0.80	0.10-0.25	04-10	Gas Nitriding	
Second	Special Steel Taper (TSS)	0.80	0.30-0.45	12-18	Parkerising	
Oil	RIKVENT	1.50	0.20-0.70 (Rails)	08-28	Chrome Plated Rails/ Parkerising	

Above features make USHA '**BAJAJ DISCOVER 150cc 4V**' piston assembly unique, produced to give better performance & longer life.



Technical Product News is an exclusive update of product & information from Shriram Pistons & Rings Ltd., 3rd Floor, Himalaya House, 23, Kasturba Gandhi Marg, New Delhi-110001
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