



## SHRIRAM PISTONS & RINGS LTD.

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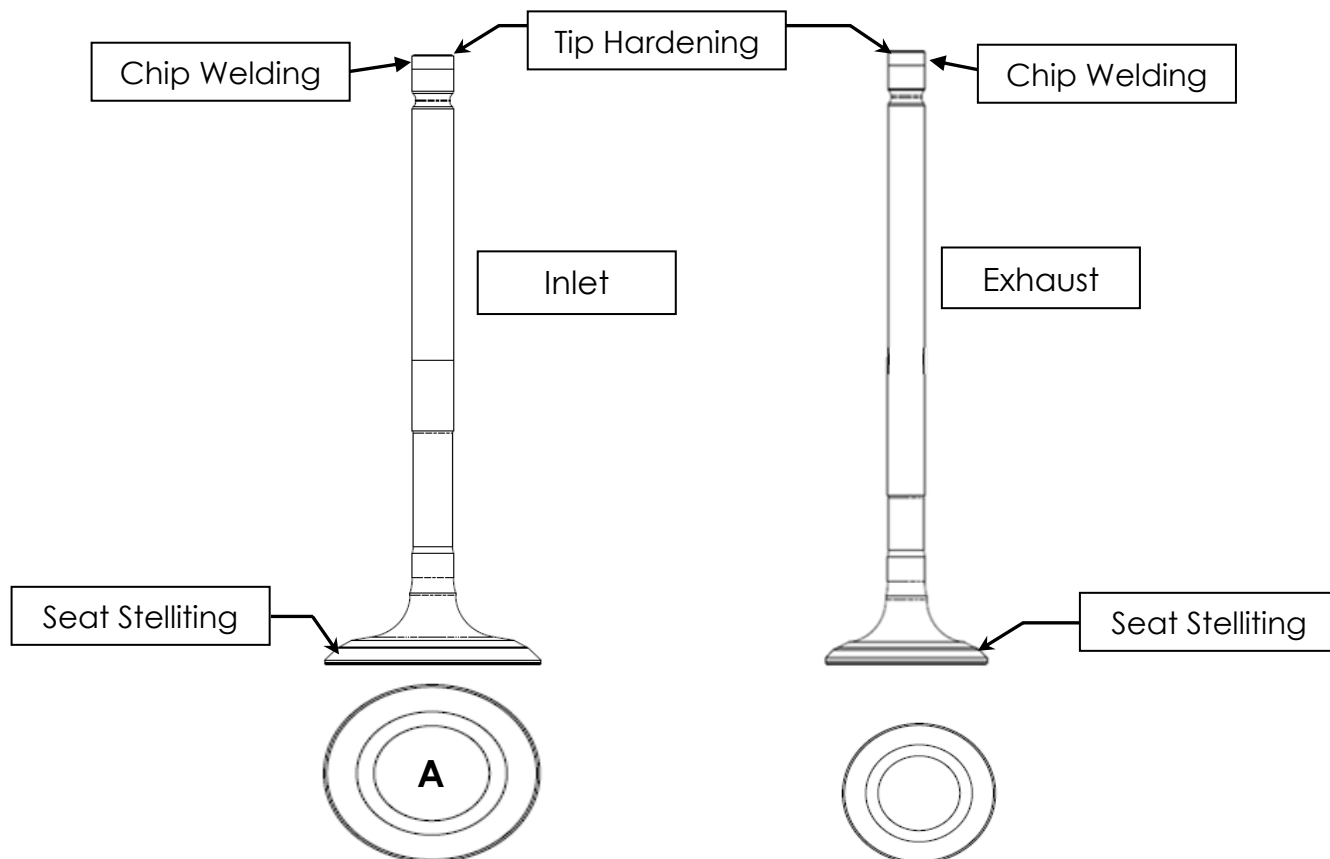
INTRODUCTION CIRCULAR – **BAJAJ MAXIMA CNG BS IV - ENGINE VALVES**

USHA is pleased to launch '**BAJAJ MAXIMA CNG BS IV**' engine valves in its aftermarket 3 wheeler product range.



The technical details of these engine valves are as under:

Model	Valve	USHA Code	D X d X L (mm)	Material	Surface Treatment	Special Process	Identification marks @ Head
BAJAJ MAXIMA CNG BS IV	Inlet	6161	29.00 X 5.50 X 85.82	Austenitic	Tufftriding	Chip Welding/ Tip Hardening/ Seat Stelliting	A
	Exhaust	6162	24.00 X 5.50 X 85.05	Austenitic	Tufftriding	Chip Welding/ Tip Hardening/ Seat Stelliting	-



These valves have following features: -

Sl. No.	Particulars	Benefits to Customer
1)	Both inlet & exhaust valves are Tufftrided.	<ul style="list-style-type: none"><li>• Lesser wear, hence longer life</li></ul>
2)	Both inlet & exhaust valves are Tip Hardened	<ul style="list-style-type: none"><li>• Longevity from tip wear</li></ul>
3)	Both inlet & exhaust valves are made of 'Mono' one piece Austenitic (Non-Magnetic) material.	<ul style="list-style-type: none"><li>• High temperature resistivity</li></ul>
4)	Both inlet & exhaust valves are Chip welded @ tip area with martensitic (magnetic) material.	<ul style="list-style-type: none"><li>• Longevity from tip shearing</li></ul>
5)	Both inlet & exhaust valves are Seat Stellite.	<ul style="list-style-type: none"><li>• Lesser wear @ seat, hence longer life</li></ul>

### **Tuff**

Tuff is the common name for Tufftriding process. In this process, the entire surface of the valve is given a special heat treatment which enhances its hardness and strength. This improves wear resistance of the valve even at higher engine temperatures.

### **Tip Hardening**

Tip of the valves are hardened using surface hardening process called Induction Hardening. The process involves heating tip of the valve to higher temperature & then quenching in a special oil/ water to achieve desired hardness.

### **Seat Stellite**

Stellite is a very hard material (Nickel Cobalt alloy) deposited through a process called Plasma Powder Welding (PPW). It is done on the valve 'Face seat' which increases wear resistance & also provides strength to withstand at elevated engine temperature.

These features make USHA **BAJAJ MAXIMA CNG BS IV** valves unique, produced to give better performance & longer life.



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