



SHRIRAM PISTONS & RINGS LTD.

MD: TS: 18/AUG'24

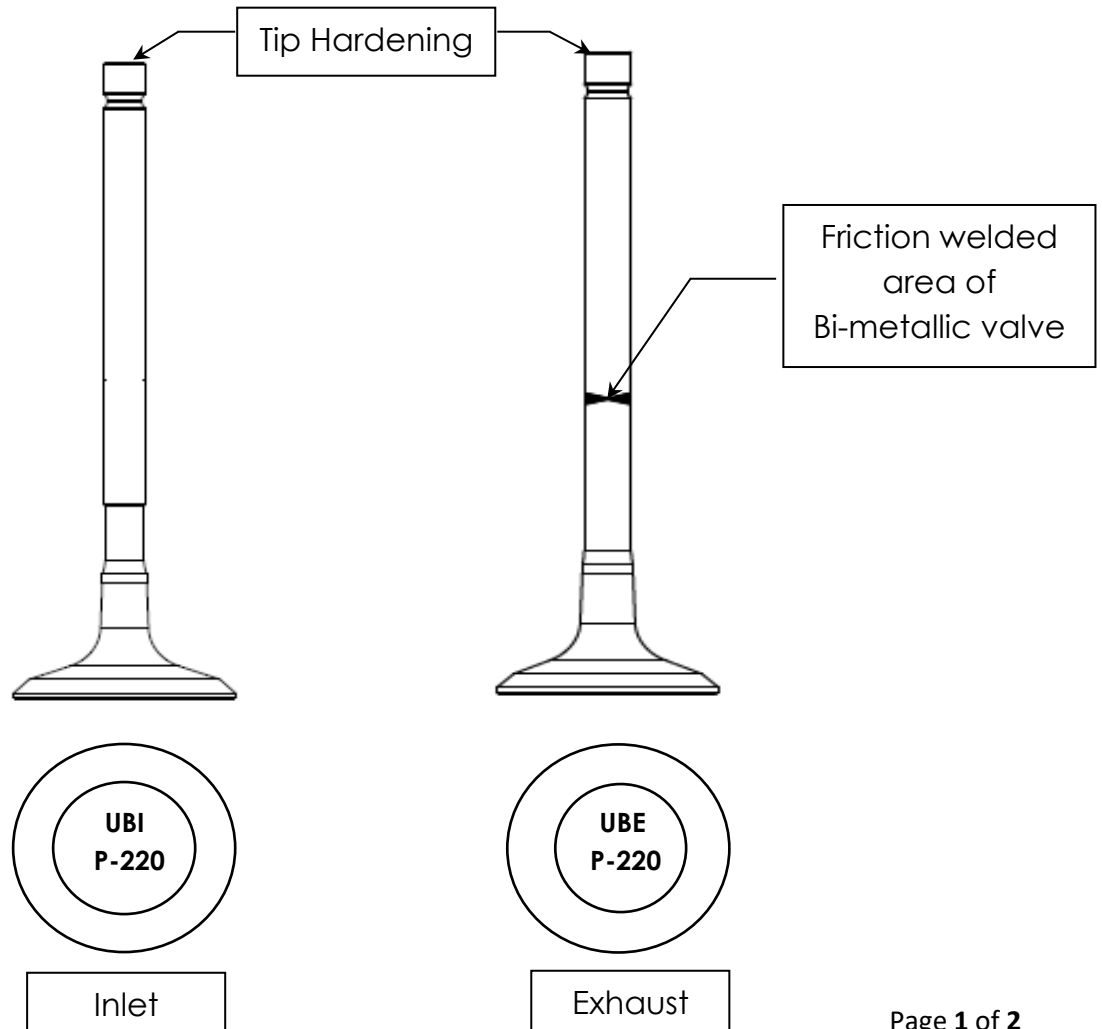
INTRODUCTION CIRCULAR – **BAJAJ PULSAR 220cc DTSi – ENGINE VALVES**

USHA is pleased to launch **BAJAJ PULSAR 220cc DTSi** engine valves in its bi-wheeler aftermarket product range.

This engine valves are also common to **BAJAJ AVENGER 220cc DTSi** model as well.

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 PULSAR 220cc DTSi	Inlet	6187	31.00 X 4.495 X 88.20	Martensitic	Tufftriding	Tip Hardening	UBI P-220
	Exhaust	6188	27.00 X 4.46 X 87.10	Bi-metallic	Tufftriding	Tip Hardening	UBE P-220



These valves have following features: -

Sl. No.	Particulars	Benefits to Customer
1)	Both inlet & exhaust valves are Tufftrided.	<ul style="list-style-type: none">• Low wear, hence longer life
2)	Both inlet & exhaust valves are Tip Hardened	<ul style="list-style-type: none">• Low tip wear
3)	Inlet valve is made up of one piece Martensitic (magnetic) material.	<ul style="list-style-type: none">• No tip shear
4)	Exhaust valve is 'Bi-metallic' having head portion made from Austenitic (non-magnetic) material known to have high temperature strength. The stem is made of Martensitic (magnetic) material for high wear resistance.	<ul style="list-style-type: none">• Longer life

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.

These features make USHA **BAJAJ PULSAR 220cc DTSi** valves unique, produced to give better performance & longer life.



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