



SHRIRAM PISTONS & RINGS LTD.

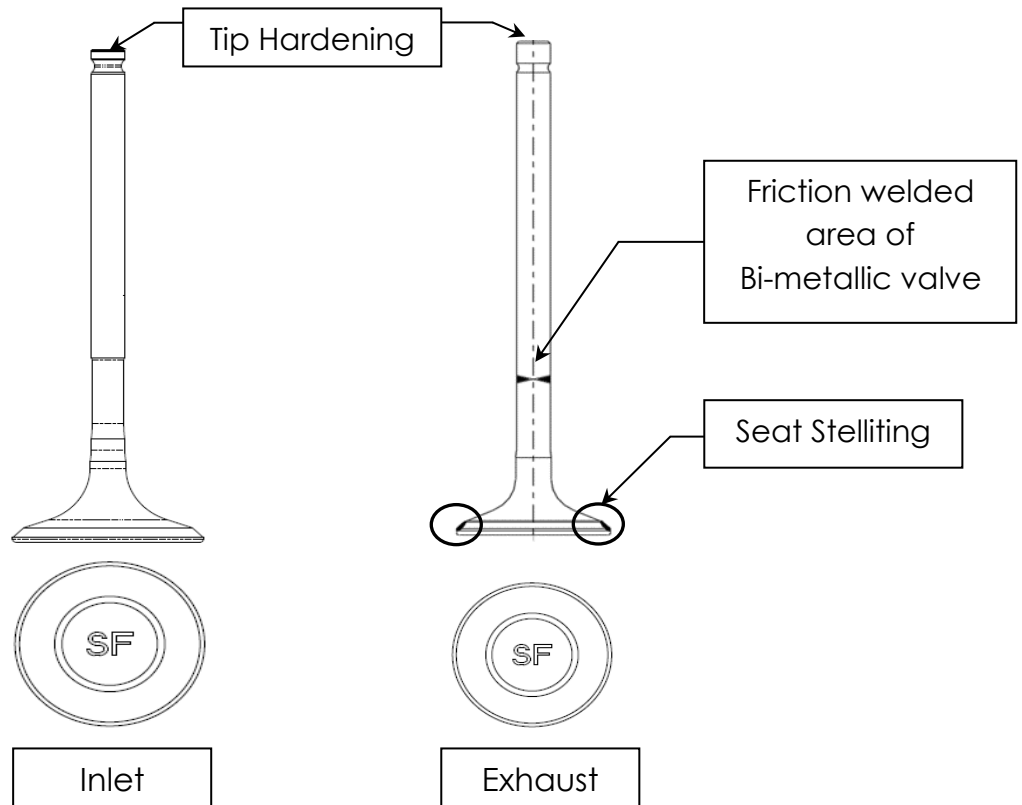
MD: TS: 27/NOV'24 INTRODUCTION CIRCULAR – HERO PASSION PRO/ XTEC BS VI – ENGINE VALVES

USHA is pleased to launch HERO PASSION PRO/ XTEC BS VI engine valves in its aftermarket bi-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
HERO PASSION PRO/ XTEC BS VI	Inlet	6015	25.50 X 4.50 X 74.66	Martensitic	Tufftriding	Tip Hardening	SF
	Exhaust	6016	21.00 X 4.50 X 73.62	Bi-metallic	Tufftriding	Tip Hardening/ Seat Stelling	SF



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 of 'Mono' one piece martensitic (magnetic) material.	<ul style="list-style-type: none"> • High tip shear resistance
4)	Exhaust valve is 'Bi-metallic' having head portion made from austenitic (non- magnetic) material known to have high temperature strength and stem is made of martensitic (magnetic) material which has high wear resistance.	<ul style="list-style-type: none"> • Longer life
5)	Exhaust valve is Seat Stellite to have high strength at elevated engine temperature.	<ul style="list-style-type: none"> • High wear resistance, hence 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.

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 elevated engine temperature.

These features make USHA **HERO PASSION PRO/ XTEC BS VI** valves unique, produced to give better performance & longer life.



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