



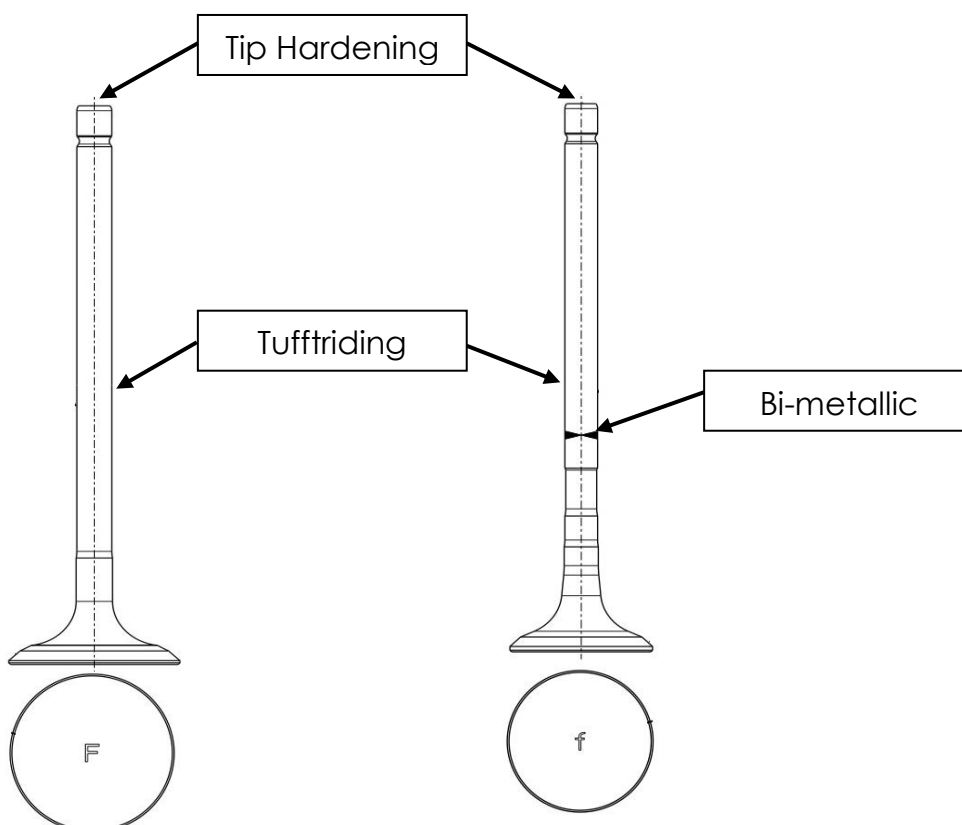
MD: TS: 09/JUL'26 INTRODUCTION CIRCULAR – HYUNDAI i10/ i20 KAPPA 1.2L -ENGINE VALVES

USHA is pleased to launch 'HYUNDAI i10/ i20 KAPPA 1.2L' engine valves in its aftermarket Car/ PV 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
HYUNDAI i10/ i20 KAPPA 1.2L	Inlet	3703	26.80 X 5.50 X 100.94	Martenistic	Tufftriding	Tip Hardening	F
	Exhaust	3704	23.80 X 5.50 X 101.14	Bi-metallic	Tufftriding	Tip Hardening	f



These valves have following features: -

Sl. No.	Particulars	Benefits to Customer
1)	Both inlet & exhaust valves are Tufftrided.	• Lesser wear, hence longer life
2)	Both inlet & exhaust valves are Tip Hardened	• Low tip wear
3)	Inlet valve is made of 'Mono' one piece martensitic (magnetic) material.	• 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 martenistic (magnetic) material which has high wear resistance.	• 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 '**HYUNDAI i10/ i20 KAPPA 1.2L**' valves unique, produced to give better performance & longer life.



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