



SHRIRAM PISTONS & RINGS

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INTRODUCTION CIRCULAR – **MARUTI K10 VVT CNG – ENGINE VALVES**

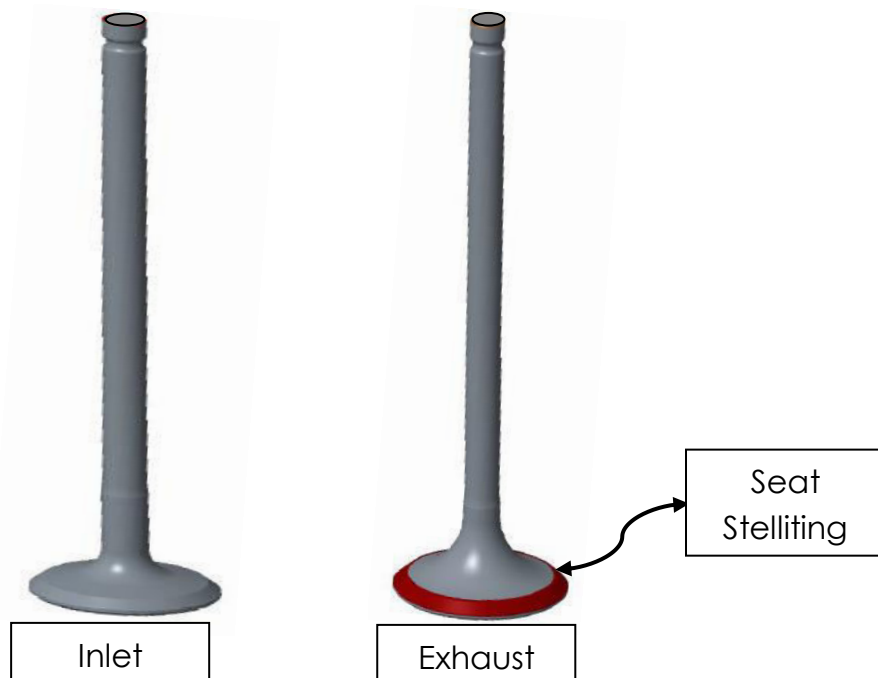
USHA is pleased to launch **MARUTI K10 VVT CNG** engine valves in its Car product range in aftermarket.

MARUTI K10 VVT CNG engine valves are suitable for vehicles fitted with **VVT CNG** engines i.e. **Celerio, Alto K10, WagonR (3 cyl) & Ertiga** etc.



MARUTI K10 VVT CNG engine valves are supplied in **single cylinder packaging** in lieu of its multi-cylinder application & have **02 Inlet & 02 Exhaust valves/ cylinder**, having following specifications:-

Model	Valve (Per cyl)	USHA Code	D X d X L (mm)	Material	Surface Treatment	Special Process	Identification marks @Head
MARUTI K10 VVT CNG	Inlet (2)	3179	27.50 X 4.98 X 87.45	Martensitic	Tufftriding	----	AM
	Exhaust (2)	3196	22.90 X 5.00 X 87.00	Austenitic	Tufftriding	Seat Stellingting	GM



These valves have following features: -

Sl. No.	Particulars	Benefits to Customer
1)	Both inlet & exhaust valves are Tufftrided	Lesser wear & longer life.
2)	Inlet valve is made of martensitic (magnetic) material	Lesser tip & seat wear.
3)	Exhaust valve is made of Austenitic (non-magnetic) material	Optimum wear & heat resistance.
4)	Exhaust valve has Seat Stellite	Better wear/heat resistance.
5)	Both valves are fully forged	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 elevated engine temperature.

Stellite

Stellite is a very hard material and is deposited through a process called PPW. It is done on the valve '**Face seat**' which increases the wear resistance and provide strength to withstand high temperature.

Die Finish/ Fully Forged

Die finish/ Fully forged engine valves have continuous grain structure which increases fatigue strength. Due to continuous grain structure, fully die finished valves have no weak areas which facilitates extra strength, hence longer life.

These features make USHA **MARUTI K10 VVT CNG** valves unique, produced to give better performance & longer life.



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