



## SHRIRAM PISTONS & RINGS

MD: TS: 25/JAN'23

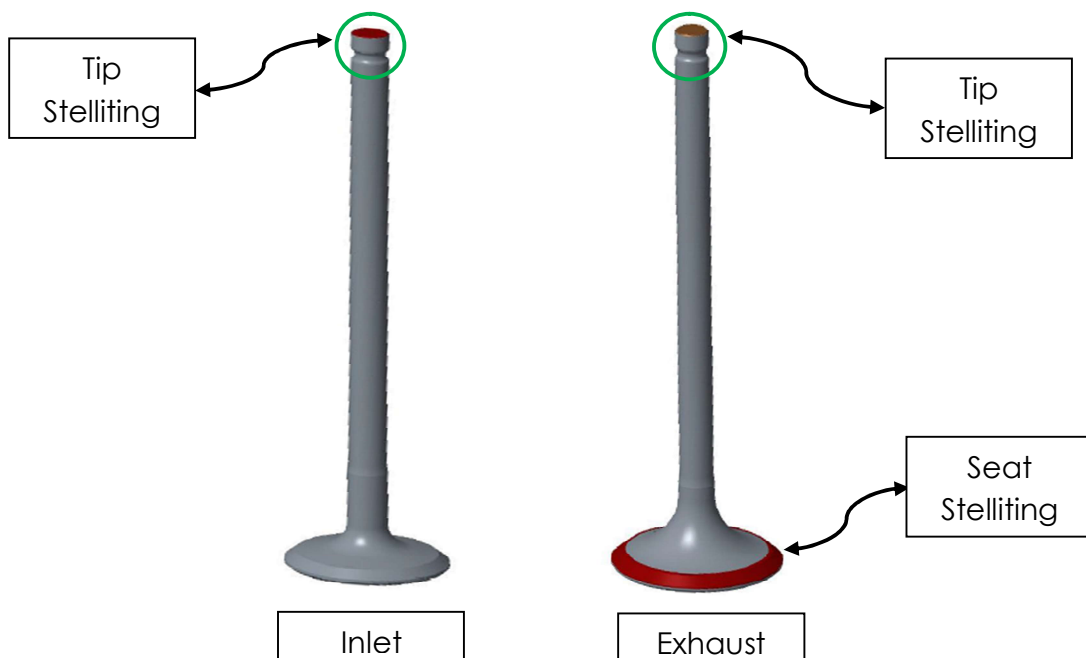
INTRODUCTION CIRCULAR – **TVS NTORQ/ VICTOR 3V – ENGINE VALVES**

USHA is pleased to launch **TVS NTORQ/ VICTOR 3V** engine valves in its Bi-wheeler product range in aftermarket.



**TVS NTORQ/ VICTOR 3V** engine valves have following specifications: -

Model	Valve	USHA Code	D X d X L	Surface Treatment	Special Process
TVS NTORQ/ VICTOR 3V	Inlet (2)	6429	19.50 X 4.50 X 87.95	Tuff	Tip Stellite
	Exhaust (1)	6430	22.50 X 4.50 X 87.05	Tuff	Tip & Seat Stellite



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>• Less wear &amp; longer life</li> </ul>
2)	Both valves are made of 'Mono' one piece martensitic (magnetic) material.	<ul style="list-style-type: none"> <li>• No tip wear</li> </ul>
3)	Exhaust valve has both tip and seat stellite & inlet valve has tip stellite.	<ul style="list-style-type: none"> <li>• Better wear resistance</li> </ul>
4)	Inlet valve has fully forged finish & exhaust valve under head (neck) is fully forged.	<ul style="list-style-type: none"> <li>• 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 temperatures.

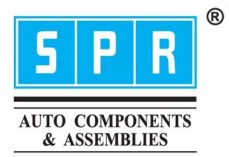
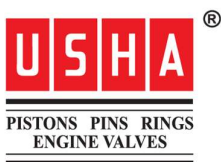
### **Stellite**

Stellite is a very hard material. Stellite is done on the valve '**FACE**' & '**TIP**' which increases the wear resistance and high temperature strength.

### **Die Finish**

Die finish valves have continuous grain flow lines at the head & under the head (neck) portion of valve which increases fatigue strength. Due to continuous grain lines, fully die finished valves have no weak areas. This gives extra strength & hence longer life.

These features make USHA **TVS NTORQ/ VICTOR 3V** valves unique, produced to give better performance & longer life.



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