



MD: TS: 36/MAR'26 INTRODUCTION CIRCULAR – HONDA HORNET 160cc BS4/ BS6 -ENGINE VALVES

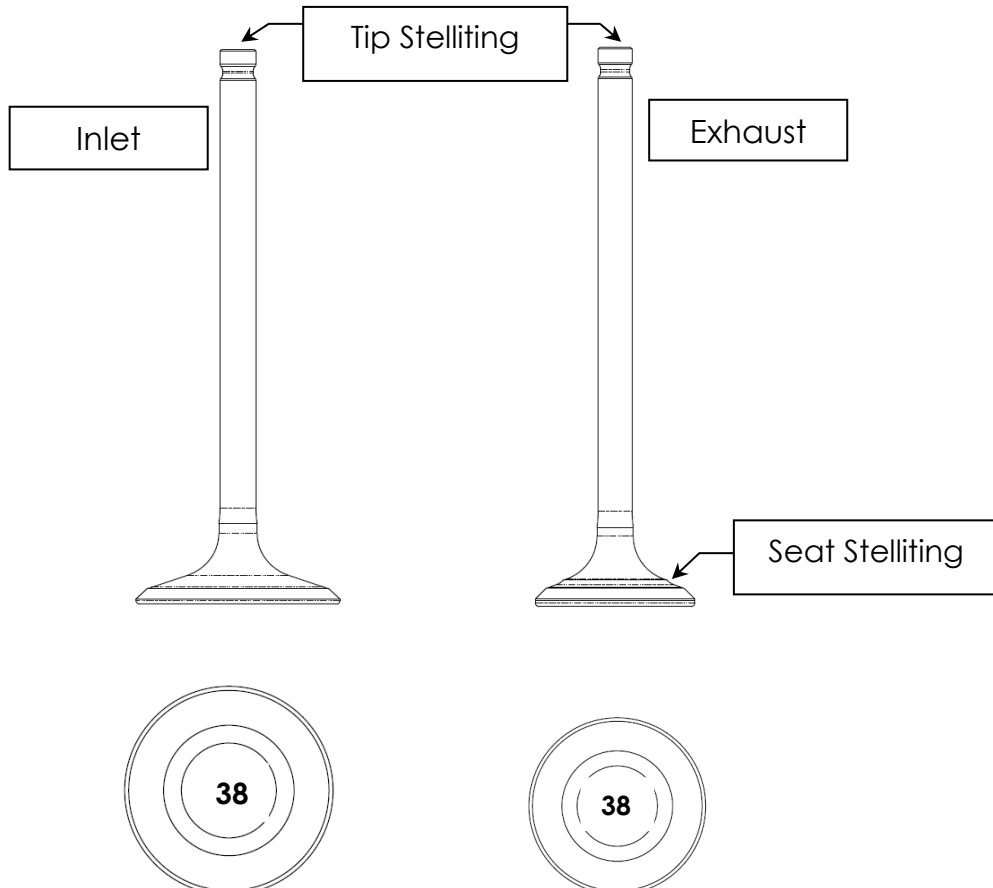
USHA is pleased to launch 'HONDA HORNET 160cc BS4/ BS6' engine valves in its aftermarket bi-wheeler product range.

These engine valves are common for 'HONDA UNICORN BS4/ BS6' 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 |
|-----------------------|---------|-----------|----------------------|-------------|-------------------|------------------------|-----------------------------|
| Hornet 160cc BS4/ BS6 | Inlet   | 7127      | 30.00 X 5.00 X 87.20 | Martensitic | Tufftriding       | Tip Stellinging        | 38                          |
|                       | Exhaust | 7128      | 26.00 X 5.00 X 86.40 | Austenitic  | Tufftriding       | Tip & Seat Stellinging | 38                          |



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>• Low wear, hence longer life</li> </ul>                  |
| 2)      | Both inlet & exhaust valves are Tip Stellite.                                   | <ul style="list-style-type: none"> <li>• High tip shear resistance, hence longer life</li> </ul> |
| 3)      | Exhaust valves are Seat Stellite.   | <ul style="list-style-type: none"> <li>• Lesser wear @ seat, hence longer life</li> </ul>        |
| 4)      | Inlet valves are made of 'Mono' one piece martensitic (magnetic) material.      | <ul style="list-style-type: none"> <li>• Low wear, hence longer life</li> </ul>                  |
| 5)      | Exhaust valves are made of 'Mono' one piece austenitic (non-magnetic) material. | <ul style="list-style-type: none"> <li>• High temperature strength, hence 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 engine temperatures.

### **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 'Tip' & 'Face seat' which increases wear resistance & also provides strength to withstand at elevated engine temperature.

These features make USHA '**HONDA HORNET 160cc BS4/ BS6**' valves unique, produced to give better performance & longer life.



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