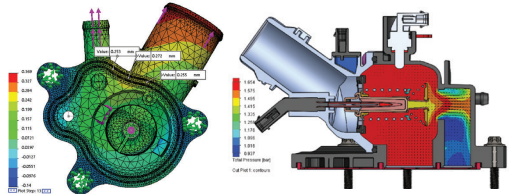


Engineering know-how and expertise

- ▶ Comprehensive in-house CAD design and testing.
- ▶ In-house capabilities for thermostat testing, problem analysis, and CFD.
- ▶ Black box design and build-to-print services for OEM requirements.



Validation lab

- ▶ Durability performance (Temp. cycling).
- ▶ SCC (Stress Corrosion Crack) Testing.
- ▶ Pressure drop and flow rate.
- ▶ Performance tests: STO, Stroke, Hysteresis.
- ▶ Valve leakage test.
- ▶ Outlet housing sealing test.
- ▶ Test results are documented and computerised for quality achievement.



Global manufacturing experience for more than 65 years



OEM
SUPPLIER

The world's leading automobile OEMs and Tier-1 suppliers depend on MotoRad to provide them with advanced, design-ready thermal management solutions that meet the highest emissions and quality standards.

Global fill rate average of 97.81% and category management expertise will ensure optimal product availability.



MotoRad



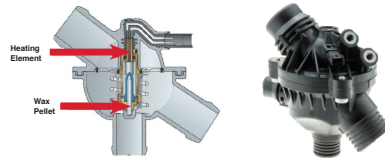
Types of MotoRad thermostats

"Naked" Thermostats



- ▶ Traditional technology
- ▶ With/without bypass

MAP Thermostats



- ▶ Reduction of fuel consumption
- ▶ Reduction of pollutant emissions
- ▶ Faster response

BEV Thermostatic Valves



- ▶ MEB platform
- ▶ Different temperature range

Thermostat with Housing



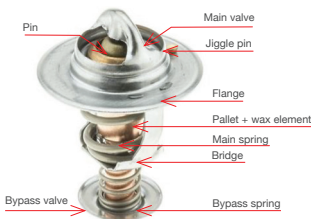
- ▶ Several of inlets
- ▶ Plastic/Aluminum
- ▶ May includes sensors

Coolant Flange



- ▶ Plastic/Aluminum/Cast Iron
- ▶ Multi ports to coolant hoses, sensors other connection in the cooling system
- ▶ Provision to mounting temp. sensor

Parts nomenclature



xxxx - yy K
 Part number Temp.(°C) Gasket/kit

- 248-85 **J** Jiggle pin
- 709-**83/105K** 2 Thermostats inside
- 821-88 **INS** Insert
- 686-87 **INSK** Insert kit (Gasket included)
- 248-91 **JK** Jiggle pin+ gasket
- TA2999 **S** Thermostat assembly + Sensor
- TA** 4000 Thermostat assembly
- 896-105 **KC** Connector cable included
- CH** 1005 Coolant flange



- T** 16 Radiator cap / coolant tank cap
- ST** 16 Safety lever
- MGC** 824 Fuel cap
- MO** 120 Oil filler neck cap

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