



Thermostat Types



Thermostat inserts (TX)



Enable the precise regulation of coolant circuits to approximately 20 m³/h in passenger cars, commercial vehicles, stationary engines, and agricultural and construction machinery.

Housing thermostats (TH)



Consist of a combination of cover and housing, i.e. the mixing chamber is already integrated. Housing thermostats can be fully connected with hoses or equipped with flange and hose connectors.

Sleeve valve thermostats (THD)



Regulate the cooling circuits in large engines with low volumes starting from approximately 20 m³/h, e.g. in commercial vehicles, ships, and trains. The sleeve valve principle provides axial relief.

Integral thermostats (TI)



All components such as the thermostat insert, cover, and gasket are integrated into this thermostat which can be flange-mounted directly onto the block.

Map-controlled thermostats (TM)



The most effective managers in the thermal system: an electrical heating resistor is integrated into the thermal expansion element. These thermostats can be electrically activated, and thus have a considerably faster effect on the engine temperature to keep the engine within the optimum range under various load and operating conditions.

Oil thermostats (TO)



Regulate the oil temperature in automatic transmissions. This shortens the warm-up phase considerably and subsequently keeps the transmission at an ideal operating temperature. This results in reduced wear, improved gearshift comfort, and fuel savings of approximately 1% in conventional driving cycles.

Temperature sensor (TSE)



Supply data to the electronic control unit about the current temperature level at various points in the engine.

Thermal switches (TSW)



Provide reliable protection against engine overheating while the vehicle is stationary: they open or close the electrical circuit at a defined coolant temperature. The thermal switches from MAHLE Aftermarket are designed for an operating voltage of up to 24 V.

Prefix	Part description
TX	Thermostat insert
TH	Housing thermostat
THD	Sleeve valve thermostat (HD)
TI	Integral thermostat
TM	Map-controlled thermostat
TO	Oil thermostat
TSE	Temperature sensor
TSW	Temperature switch