



THERMOSTAT HANDBOOK



USER GUIDE (THERMOSTAT HANDBOOK)

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QUALITY DOCUMENTS	BACK COVER

USER GUIDE

1. THE FIRST THING TO BE DONE

- 1.1 Three-position (closed, opened and half-opened) is especially designed for furnaces and ovens.
- 1.2 The minimum calibration of the valve is adjusted according to natural gas or LPG by By-Pass bolt.
- 1.3 The boxes mustn't be superposed more than 4 boxes during storing.
- 1.4 Although all products %100 controlled, they must have entry control. The valves can be distinguished according to colours on the valves.
- 1.5 Which group and injector dimension valves have, must be written on boxes.
- 1.6 The valves must be manufactured to resist very long cycle time.



Figure 1

However, the factors, which are mentioned below affect negatively valve lifetime.

- 1.6.1 The wrong connection of pipe system to the valve,
- 1.6.2 The deformation of the valve during the connection due to the pressing of clamp bolts,
- 1.6.3 To apply impact to the valve,
- 1.6.4 The assembly of the plastic button by pressing hardly,
- 1.6.5 The extreme heat exposure of the valve due to wrong designed oven or burner (max. 120°C),
- 1.6.6 The purification of the valve from extreme dust and dirt in assembly place. This subject is important about working with very small and precision dimensions,
- 1.6.7 The exposure of sudden shock heat,
- 1.6.8 To use different nut rather than the thread on it,
- 1.6.9 To place a heavy object on the valve,
- 1.6.10 After removing the sealing gasket, not to mount on its old position,
- 1.6.11 To open inside the valve cap by removing,
- 1.6.12 To put a sharp object into the holes,
- 1.6.13 To hold with a pliers or other pressing tool
- 1.6.14 To check with detergent water or foam
- 1.6.15 To directly contact with water

2. CONFIGURATION

Thermostat must be installed to manifold tube with an appropriate diameter by using correct equipments and proposed torque values. The exit is connected to burner fuel line by using correct equipments and proposed torque values. In furnace partition, heat sensor must be installed near the heat which is similar to the heat in the middle of the furnace. In every furnace models, position of the sensor is related to optimum furnace partition dimensions and isolation which is determined by empirical way.

3. THE SIGNIFICANT THINGS IN ASSEMBLY

- Make an optic control before the assembly of the valve to the pipe. Check the sealing gasket whether it is on the valve or not.
- Close the clamp bolt holes after the placement of the pipe to the valve.
- Press the acceptable bolt with specified torque values.
- If you press it with more strength, deformation or fracture can occur on the valve.
- The parallelism of the valves, which are assembled on the main gas distribution pipe mustn't be corrected with difficulty.
- Don't pass the specified torque value while pressing the gas pipe nut.
- Make an appropriate connection of the thermocouple to the valve.
- Be careful with the compulsion of the valve during the assembly of the button to the valve stem
- Check the leakage after the complete assembly of the valve to the main gas distribution and burner distribution pipe.
- The rules mentioned above must be obeyed. Otherwise, damages can occur on the valve.

4. TECHNICAL FEATURES OF THE VALVE

Usage Area	in furnaces
Used Gases	LPG ve natural gas
Material	MS58 (brass)
Control Type	%100 at flow rate and leakage control
TSE Standard	TS EN 126
Test Pressure	must be 150 mbar
Sistem Pressure	it mustn't pass over 65 mbar
Heat Resistance	0°C / + 130°C
Working Lifetime	30,000
Working Angle	in line with 0°-231°
Magnet Type, Holding and Leaving Currents	Faston Connection :110mA /20mA, Co-axial Connection :110mA /20mA Bolt Connection :110mA /20mA Bolt Connection : 180mA /60mA
Opening-Closing Arrangements	<i>Thermostat Works by pushing the stem and spinning counter clockwise. The minimum heat value is obtained by spinning the stem 52°.(the reverse is possible, too. Max heat at 52°).In more spinning condition, maximum heat is obtained at 231°. Possible heat values are between 100°C and 300°C differentially with 150°.</i>
Ignition	Pressed ignition model can be made with supporter and switch which are installed on the valve.
PRODUCT CODES:	
T1:	BIDIRECTIONAL THERMOSTAT VALVE
T2:	UNIDIRECTIONAL THERMOSTAT VALVE
T3:	UNIDIRECTIONAL SAFETY THERMOSTAT VALVE
T4:	BIDIRECTIONAL SAFETY THERMOSTAT VALVE

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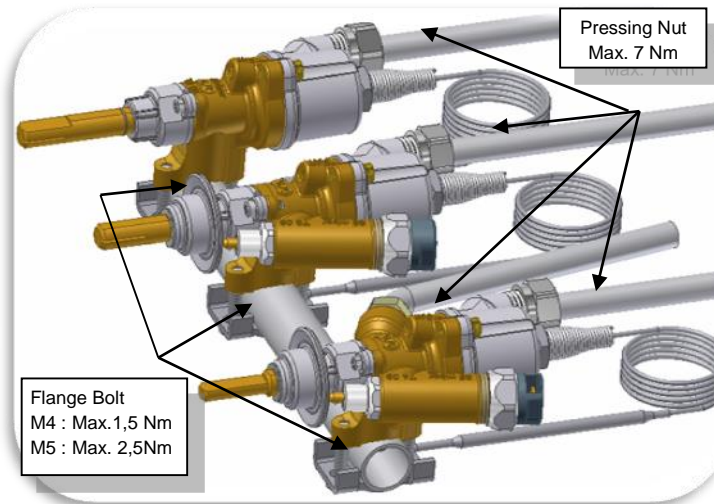
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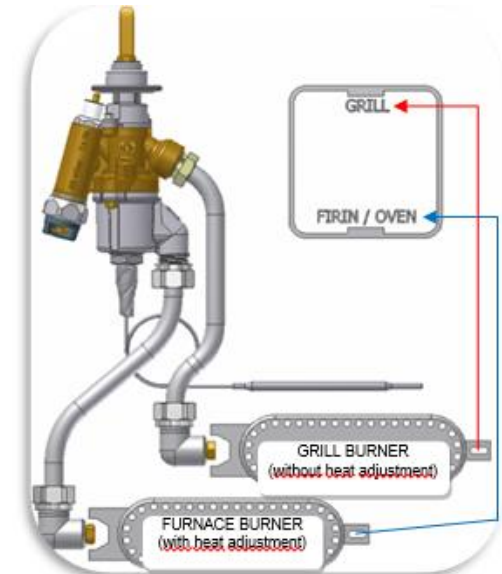
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