



UNIDIRECTIONAL AND BIDIRECTIONAL FURNACE VALVE AND COUNTERTOP VALVE HANDBOOK



USER GUIDE (FURNACE VALVE AND COUNTERTOP VALVE HANDBOOK)

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QUALITY DOCUMENTS	BACK COVER

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. 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 the application isn't done during the assembly process, fracture can occur on the bolt in the forthcoming days.)
- 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 gas leakage after the complete assembly of the valve to the main gas distribution and burner distribution pipe.

3. TECHNICAL FEATURES OF THE VALVE

Usage Area	in furnaces and countertop ovens
Used gases	LPG and natural gas
Material	MS58 (brass)
Control Type	%100 at flow rate and leakage control
TSE Standard	TS EN 1106
Test Pressure	should be 150 mbar
System Pressure	it mustn't pass 65 mbar
Heat Resistance	0°C / + 130°C
Working Lifetime	40,000 (12 rpm.)
Inertial leakage flow rate	20cc

External leakage flow rate 20cc

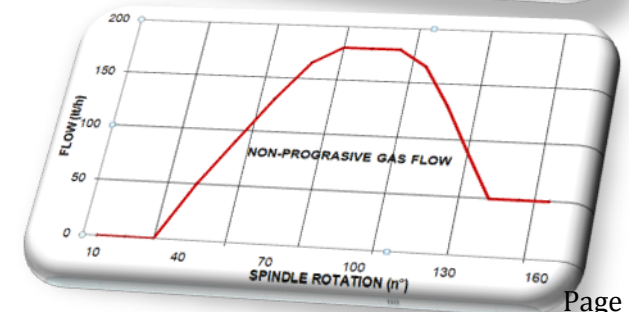
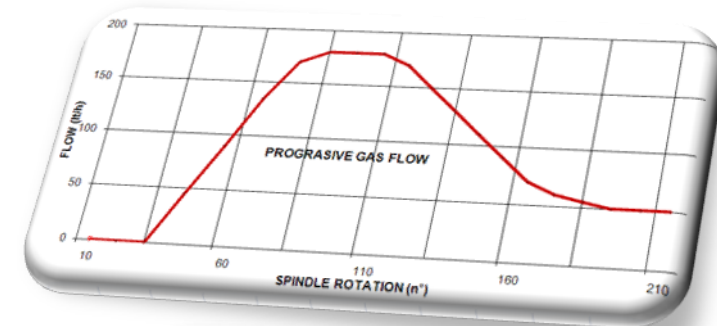
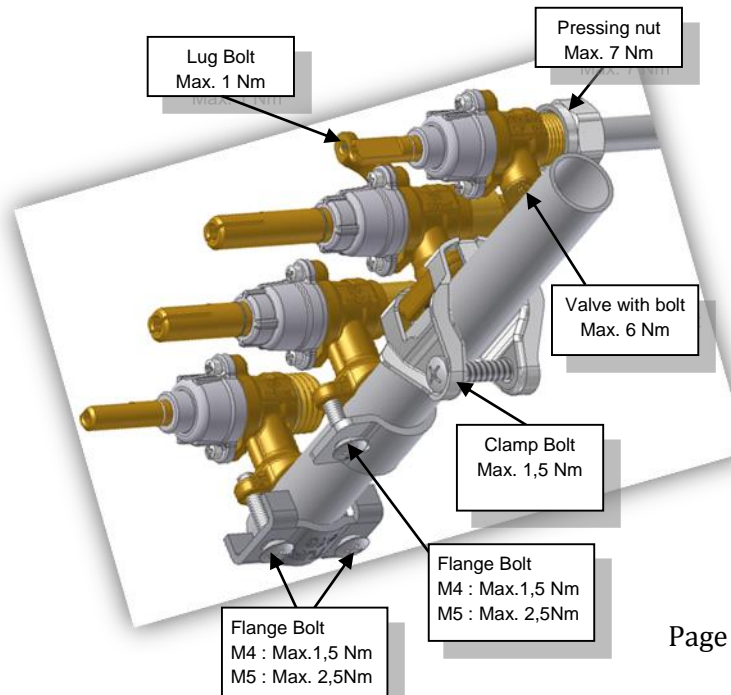
Working Angle in line with client 0°-160° (NON-PROGRASIVE) or 0°-210°(PROGRASIVE)

Opening-Closing Arrangements Armatures open counter clockwise. The position of complete transition is 0°-90 °, half transition is 90°-160° (90°-210°).

Ignition Spinned and pressed microswitches can be adapted on the valve. Stoper and safety ring is preferred for pressed microswitches.

PRODUCT CODES:

FM:	FURNACE VALVE
KF:	SMALL FURNACE VALVE
MC:	BIDIRECTIONAL FURNACE VALVE
MA:	COUNTERTOP OVEN VALVE



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