

FlowCon T-JUST in Stainless Steel A-body

Thermostatic Valve for Domestic Water



SPECIFICATIONS

Insert:

Pressure rating: Temperature rating, media: Temperature rating, ambient: Material: - Cartridge: - Element: - Body: - Spring: - Internal components:

- O-rings: Max. Kv-value: Max. differential pressure: Temperature range:

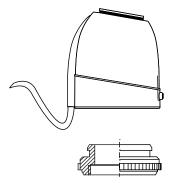
Valve:

Material: - Body: End connections: 1000 kPa / 145 psi 0°C to +85°C / +32°F to +185°F 0°C to +60°C / +32°F to +140°F

PPS, Polyphenylene sulfide Wax Forged brass ASTM CuZn40Pb2 Stainless steel AISI 302 PPS, Polyphenylene sulfide EPDM 1.10 m³/h 100 kPaD / 14.5 psid +35°C to +65°C / +95°F to +149°F

Cast stainless steel AISI 316 (CF-8M 10.5% Ni, 19.5% Cr and 2.5% Mo) A: Fixed female ISO

SPECIFICATIONS (continued)



Type EV.0.3.R, EV.0.4.R Valve adaptor, red

Electrical: TYPE EV.0.3.R¹, EV.0.4.R¹ Voltage:

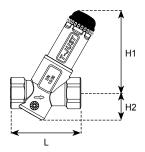
Control: Operating power: Dead time / hold time: Closing and opening time: Ambient temperature: Protection: Cable: EV.0.3.R - 230V AC EV.0.4.R - 24V AC ON/OFF, normally closed² 1.8 Watt 30 - 60 sec Approx. 3 min 0°C to +60°C IP54, class II 1 meter fixed cable

Note 1: FlowCon warranty is voided using other actuators than supplied or recommended by FlowCon International A/S. Note 2: To ensure that the valve is in an open position during commission of the system, the actuator will be delivered in a normal open position and remain in this position until it is electrically operated first time.

DIMENSIONS AND WEIGHTS (NOMINAL) (measured in mm unless noted)

FlowCon T-JUST with FlowCon A-body, Stainless Steel

Valve size	Insert size	L	H1	H2	H3 (with actuator - not shown)	Weight (kgs.)
20	20	80	97	31	130	0.62



MODEL NUMBER SELECTION

	T-JUST I R
Insert body size: 2 =A-body 20mm	
Insert connection standard:	
Insert valve body material: R=Stainless steel	

APPLICATIONS

The FlowCon T-JUST, to be used in either FlowCon A, AB, ABV1 bodies or the FF-unit, is designed for domestic hot water installations with circulation. The FlowCon T-JUST automatically controls the temperature of the water that circulates through the valve and therefore the thermal balance is ensured throughout the domestic hot water system.

The T-JUST will from factory be pre-set to +60°C. Temperature setting is easy – simply remove the black top cover and set the temperature by means of a FlowCon adjustment key. If for instance a water temperature of +55°C is needed, the T-JUST is set to the temperature of +55°C. If the temperature of the circulating water is below +55°C, T-JUST opens and more water will pass through. If the temperature is higher than +55°C, T-JUST closes. The black top cap must be screwed tightly on the T-JUST to activate the thermostatic control (and to avoid tampering).

The by-pass function can be carried out either manually by installing the red by-pass ring (used as indicator) or by means of an on/off actuator. The by-pass will force the T-JUST to fully open and set the temperature control out of action. This function is used to avoid bacterial problems such as Legionella and therefore it is recommended to flush the system regularly, flushing one branch at a time for a recommended period of time. For manual by-pass, adapt the red by-pass ring on the T-JUST and screw the black cap tight for the flushing period. When using automatic by-pass, the actuator can be either timer controlled or controlled by the BMS-system.

For the valve to work efficiently, a certain heat loss must be present, and since the pipes are normally insulated, insulation of the valve is not necessary. Without insulation of the valve, the valve will operate under optimal working conditions and temperature regulation will be more accurate. If insulation is required the valve will still function, but regulation will be less precise.

ACCESSORIES

- Blind cap: ACC0080 (cap without a cartridge for flushing out the system)
- Adjustment key: ACC0001
- Manuel by-pass ring: ACC0002 (ring for manual by-pass; 10 pcs. per package)
- Replacement cap, black: ACC0003.

GENERAL SPECIFICATIONS

1. THERMOSTATIC VALVES FOR DOMESTIC WATER - FLOWCON T-JUST

- 1.1. Contractor shall install thermostatic valves where indicated in drawings.
- 1.2. Temperature regulation unit shall be available as a plug-in device for an in-line valve housing and the adjustable element shall be out of contact with the circulating water.

2. VALVE ACTUATOR

- 2.1. Actuator shall provide a visual indication of the valve position.
- 2.2. The valve shall be closing when the actuator is not powered.
- 2.3. The valve shall withstand a shut off pressure of at least 400 kPa without allowing internal leakage.
- 2.4. The seat plug shall be manufactured of EPDM rubber.
- 2.5. The packing box for sealing the stem shall be removable with the system in operation, without allowing external leakage.

3. VALVE HOUSING

3.a. FlowCon A

- 3.a.1. Valve housing shall consist of cast stainless steel AISI 316 rated at no less than 2500 kPa static pressure and +120°C.
- 3.a.2. Valve housing shall be permanently marked to show direction of flow.
- 3.a.3. Housing shall be configured for temperature regulation unit accessibility.

4. TEMPERATURE REGULATION ASSEMBLY / THERMOSTATIC ELEMENT / T-JUST

- 4.1. Temperature regulation unit shall be manufactured of forged brass ASTM CuZn40Pb2 body, rated at not less than 1000 kPa static pressure and +85°C. Further, the temperature regulation unit shall be manufactured of polyphenylene sulfide cartridge with stainless steel 18-8 spring and wax element.
- 4.2. Temperature regulation unit shall be readily accessible for change-out or maintenance.
- 4.3. Temperature regulation unit shall be stepless adjustable to a temperature between +35°C and +65°C; and shall be capable of controlling the temperature within ±2°C of the rated temperature.
- 4.4. Temperature regulation unit shall be ready for either manual by-pass or actuated by-pass without exchanging the unit.

UPDATES

For latest updates please see www.flowcon.com

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