


Instruction Manual

THERMOSTATIC MIXING VALVE

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|  | MODEL:DN20M THERMOSTATIC MIXING VALVE WITH CHECK VALVE |
| Ideal working pressure | 0.1-0.5Mpa |
| Cold water inlet temp. | 4-29 °C |
| Hot water inlet temp. | 50-99 °C |
| Mixed water outlet temp. | 35-55 °C customized |
| Flow rate(1 kg pressure drop) | 26.67 L/min |
| Temp accuracy | ±2°C |
| Body material | Nickel plated Brass |
| Thread | G 3/4" Male thread |
| Standard | QB2806-2006 |
| Net weight | 0.494 KGS |
| Gross weight | 0.554 KGS |

1. Technical Data

DN20M G3/4"

- a. Working pressure:0.03-1Mpa
- b. Ideal working pressure:0.1-0.5Mpa
- c. Maximum working temperature:≤99 C
- d. Flow rate(1 bar pressure drop): 26.67L/Min

| Pressure \ Model | 0.05Mpa | 0.075Mpa | 0.1Mpa | 0.125Mpa | 0.15Mpa |
|------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| DN15 | 0.5 m ³ /h | 0.6 m ³ /h | 0.7 m ³ /h | 0.8 m ³ /h | 0.9 m ³ /h |
| DN20 | 1.0 m ³ /h | 1.3 m ³ /h | 1.6 m ³ /h | 1.8 m ³ /h | 2.0 m ³ /h |
| DN25 | 1.8 m ³ /h | 2.0 m ³ /h | 2.3 m ³ /h | 2.5 m ³ /h | 2.7 m ³ /h |
| DN32 | 2.8 m ³ /h | 3.0 m ³ /h | 3.3 m ³ /h | 3.5 m ³ /h | 3.7 m ³ /h |
| DN40 | | | 8 m ³ /h | | |
| DN50 | | | 13 m ³ /h | | |

Flow rate for pressure:

Knob Temperature :

| Position | Min | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Max |
|-----------------|-----|----|----|----|----|----|----|----|-----|
| Temperature(°C) | - | 30 | 34 | 39 | 43 | 47 | 51 | 55 | - |

2. Materials of Construction

- Valve body : Brass with Ni-plated
- Shutter : PPO
- Spring : Stainless steel
- Connection : Inlets-Male thread, Outlet-Male thread

3. Features:

- Fail-safe on Hot or Cold Supply Failure
- Delivers Stable Mixed Water Temperature
- Extended Mix Temperature Range : 35-55 C
- Idea for Domestic Water Application

4. Usage of TMVs

For wash hand basins, bidets, baths and showers in hospitals, schools, sport and leisure facilities, prisons and other public buildings.

5. Installation Precaution:

- All installations should be carried out by a Licensed Professional.
- Install in accordance with markings on valve body. i.e. hot water inlet-marked H, cold water inlet-marked C
- After temperature setting, if inlets temperature or pressure fluctuates, outlet temperature variation is within +/-2 C.

- d. The external check valves at inlets prevent cross-flow of hot&cold water when inlets pressure is not the same.
- e. If the ratio between two inlets is too large, one flow-limiting valve should be fixed at the side of higher pressure.
- f. Prior to installation, provisions should be made to flush the piping of any debris or other foreign materials to ensure proper system operation

