

Technical and Operational Instructions For VAL 012 Thermal Heating Valve



Fig.1 Electro Thermal Actuator



Fig.2 Valve Body

Actuator Parameters

Housing	Material	Fireproof ABS engineering plastic
	Color	White
Control Element		Electro-thermal wax sensor
Connector		M30×1.5
Working Ambient Temperature		<40°C
First Fully Open Time		<6min (25°C)
Working Force		≥80N
Full Stroke		≥4.5mm
Protection Class		IP40
Power Consumption		1.1VA
Max.Impact Current		0.7A
Lead Wire		1m Length (2-core)
Net Weight		94g

Dimensions (mm)



Fig.4

“MAX 2” means the max upward moving height when component inside the electro-thermal actuator is overloaded (2mm).

Separate Gasket Dimensions

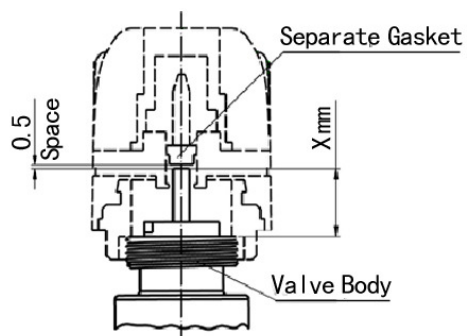
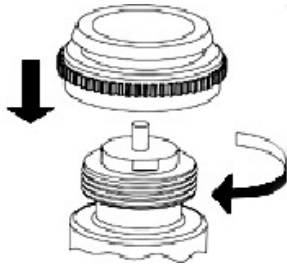
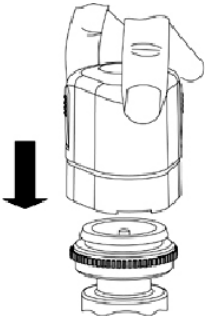
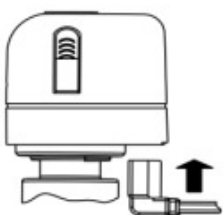
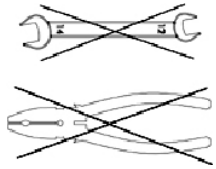


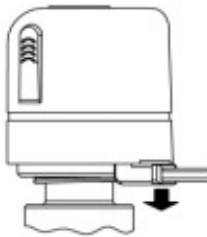
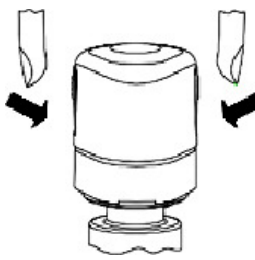
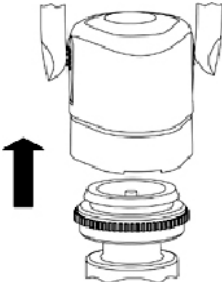
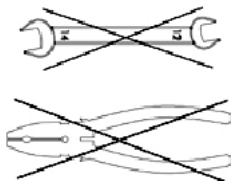
Fig.5

“Xmm” means the height from the top of the valve stem to the top of the connector. Standard height is 16mm, and different height can be made according to customers’ requirements.

Installation

 <p>Fig. 6 Install Connector</p>	 <p>Fig. 7 Install Actuator</p>	 <p>Fig.8 Insert Power Plug</p>	 <p>Fig. 9 No need tools</p>
<p>※ Rotate the connector to the valve tightly.</p>	<p>※ Put the actuator on the connector, and press it downwards until the internal lock is locked</p>		

Disassembly

 <p>Fig. 10 Disassembly position</p>	 <p>Fig.11 Disassembly Directions</p>	 <p>Fig.12 Disassembly Direction</p>	 <p>Fig. 13 The tool should not be required</p>
<p>※ Pressing the two beside detachable buttons of the actuator with fingers and pull it out upwards</p>			

VAL012 Heating Valve

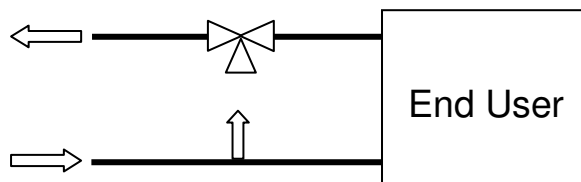
Technical Parameters for Valve

Material	Valve Body	Forging Brass HPb59-1
	Valve Stem	Stainless Steel (1Cr18Ni9)
	Spring	Stainless Steel Wire (1Cr18Ni9)
	Inner Cover	PBT
	Piston	FRPA-66
	O-Sealing-Ring	Nitrile Rubber
Valve Body Rating-Pressure		1.6MPa
Stroke		2.5, 4.5 (mm)
Max. Flow Speed		3m/s
Medium		Water, Water+Glycol
Temperature		5—95℃
Leakage		0 (When direct way and angle way, valve is closed)

Installation

Before installing the valve, make sure the pipe is clean and ensure the piston inside the valve can open and close freely.

Pay attention to the flow direction when installaing.
Actuator should be mounted above the valve body,



Specification and Technical Data

Caliber (mm)	Structure	Kv Value (Direct Way) m ³ /h	Kv Value (Angle Way) m ³ /h	Pressure (MPa)	Connecting Size
D15	2-way	0.25	—	0.25	G1/2 (DN15)
		0.4			
		0.6			
		1.0			
		1.6			