

## T42-V42 Electro Thermal Valves

### General

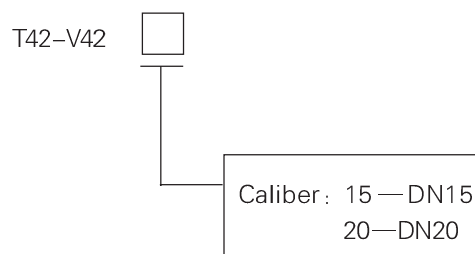
T42-V42 Electro Thermal Valves are a kind of new and advanced electro-thermal valve. It has revolutionary design and unique structure. It has super working life, it can be switched for more than 100,000 times. (European standard is 5,000 times). The unique structure of valve can assure that It will never have water leakage, it solves the problems from the traditional valve.

### Description

T42 series electrothermal valves consist of T42 series electrothermal actuator and V41 series valve body. It is widely used in floor heating control system, eg. controlling the manifolds. It builds in the PTC heating element and swelling spring which is made of memorial-alloy material. While the valve need to be closed, the PTC element will be heated by power outside (such as thermostat in room), and then the swelling spring will be heated by PTC and then it will expand to push the magnetic ring moving. The magnetic ring's movement will attract the magnetic part which is inside valve, and the magnetic part will make the valve open or close. Since the valve body is being sealed, and there is no traditional mechanical attrition, water will not leak from valve after long-time working.

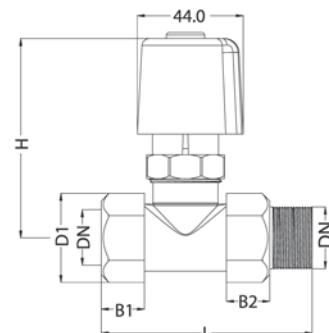


### Part No.



### Dimension

Type	DN	L	H	D1	B1	B2
T42-V42D15	15	78	82	30	13	12
T42-V42D20	20	92	83	32	13	12



### Technical Parameters of Actuator

Housing	Material	Fireproof ABS engineering plastic
	Color	White
Control Element		PTC heating element and swelling spring
Connector		M30×1.5
Working Ambient Temperature		< 40°C
First Fully Open Time		≤5min ( 25°C )
Full Stroke		≥4.5mm
Protection Class		IP20
Power Consumption		3 VA
Max. start-up Current		≤1A
Length of cable		80 cm (2-core)

### Technical Parameters of Valve

Material	Valve Body	Brass alloy ( UNIEN 12165 CW617N )
	Spring	Stainless Steel Wire ( 1Cr18Ni9 )
	Sealing-Ring	Silicone Rubber
Valve Body Rating-Pressure		1.6MPa
Stroke		≥ 4.5 ( mm )
Medium		Water, Water+Glycol
Leakage		0