

## Three-Way or Two-Way (Water Saver) Thermostatic Valve

Size: 3/4" & 1/2"



### Description

These Thermostatic Valves utilize the principle of expanding wax, which in the semi-liquid state undergoes large expansion rates within a relatively narrow temperature range. The self-contained element activates a stainless steel sleeve, which directs flow. All Thermostatic Valves are factory set at predetermined temperatures: no further adjustments are necessary. A wide range of temperatures are available for water and oil temperature control applications.

### Application

When used in a diverting application, on start-up the total fluid flow is routed back to the main system in the three-way valve or blocked by a sleeve in the two-way version. As fluid temperature rises to the control range, some fluid is diverted to the cooling system in the three-way valve or to drain in the two-way version. As fluid temperature continues to increase, more flow is diverted. When the thermostat is in a fully stroked condition, all fluid flow is directed to the cooling system in the three-way valve or to drain in the two-way version. These Thermostatic Valves may also be used in a mixing application.

In a mixing application, hot fluid enters the "B" port and colder fluid enters the "C" port. The flows mix and the thermostat adjusts to reach the desired temperature, exiting the "A" port.

### Specifications

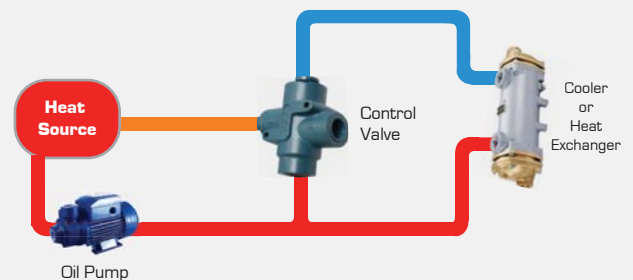
The Thermostatic Valve Housings are made from cast aluminum or cast bronze, with other materials available. Optional SE075 features: Plated elements and Viton or Neoprene seals. Other options available upon request..

### Features and Benefits

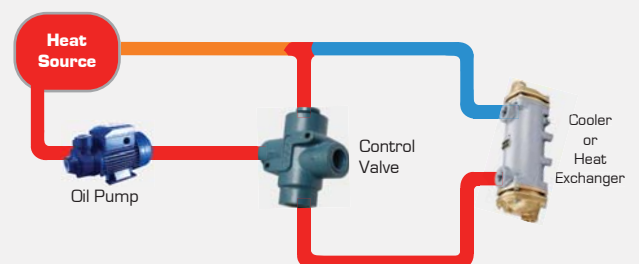
- Wide Range of Temperatures
- Mountable Housing
- Heavy Duty
- Self-Contained
- Replaceable Element Without Breaking Connections
- Non-Adjustable
- Rugged Construction
- Tamper-Proof
- Operate in any position
- Compact

### Application Charts

#### Mixing System



#### Diverting System

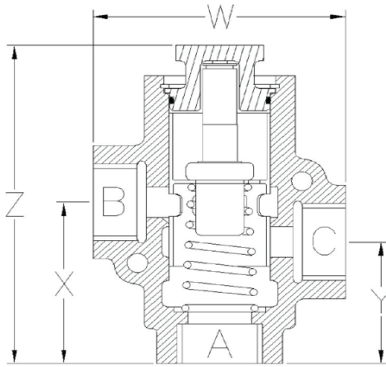


#### Typical "Water Saver" System

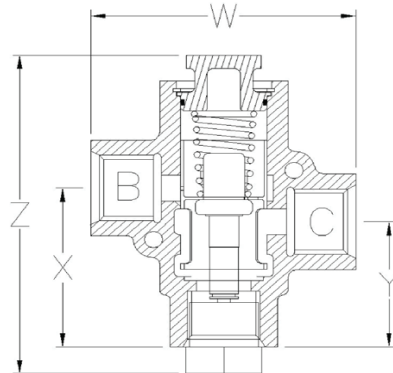


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Three Way Valve



Two Way Valve



### Pressure Ratings

Material	Bar
Aluminum / Bronze	10.5 Bar

### Dimensions and Specifications Dimensions in mm.

Model Number	Pipe Size	Dimensions				Weight Kg (Aluminum)	Weight Kg (Bronze)	Notes
		X	Y	W	Z			
SE*075	3/4" NPT	60	46	83	116	0,7	2,1	3-way Valve
SE*075D1	3/4" NPT Low Flow	60	46	83	116	0,7	2,1	3-way Valve
SE*075J12	SAE 12 3/4"	60	46	102	125	0,7	2,1	3-way Valve
SE*075J12D1	3/4" SAE 12 Low Flow	60	46	102	125	0,7	2,1	3-way Valve
SE*0752	1/2" NPT	60	46	83	116	0,7	2,1	3-way Valve
SE*0752D1	1/2" NPT Low Flow	60	46	102	125	0,7	2,1	3-way Valve
SE*075JW	3/4" NPT	60	46	83	136	0,7	2,1	2-way Valve
SE*075JWJ12	SAE 12 3/4"	60	46	102	136	0,7	2,1	2-way Valve
SE*0752JW	1/2" NPT	60	46	83	136	0,7	2,1	2-way Valve

**Standard Material is Cast Iron** - For deviating material, replace \* with body material type, AL = Aluminum, S = Steel, SS = Stainless Steel, B = Bronze

### Temperature Settings (°C)

<b>Setpoint</b>	7	13	18	24	32	35	38	41	43	46	49	54	57	60	66	68	71	74	77	79	82	85	88	91	96	99	104	110	116	121	127
<b>Open</b>	0	8	13	20	27	30	34	35	38	40	43	51	54	57	63	66	68	71	74	77	79	82	85	87	91	93	98	104	108	116	121
<b>Fully Open</b>	10	20	24	30	35	40	42	45	47	50	54	60	63	66	72	74	78	79	82	85	88	91	93	98	102	102	107	115	122	127	132

#### Replacement Parts

*SE075-1	VALVE BODY (*See table for material)
075-3	CAP
075-4	SPRING
075**-6	O-RING (Standard material is Buna-N)
075-7	SNAP RING
075-9	SLEEVE (Specify weep hole or low flow)
076-Temp	THERMOSTAT (Temp to follow dash)
075-10	PLUG (2-way valve only)

#### Model 0700\* Replacement Kit (Includes the following):

075-4	SPRING
075**-6	O-RING (Standard material is Buna-N)
076-Temp	THERMOSTAT (Temp to follow dash)

(For Viton (V) or Neoprene (E) O-Ring material, replace \*\* with V or E)

#### Flow vs. Pressure Drop

