

Three-Way Thermostatic Valve (Refrigeration)

Size: 1 1/2" up to 2"



Features and Benefits

- Designed for Refrigeration Service
- Neopropene O-Ring Seal On Cover
- Wide Range of Temperatures
- Self-Contained
- Replaceable Element Without Breaking Connections
- Non-Adjustable
- Rugged Construction
- Tamper-Proof
- Compact Operate in any position

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 nickel-plated element assembly activates a 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. As fluid temperature rises to the control range, some fluid is diverted to the cooling system. 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. 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.

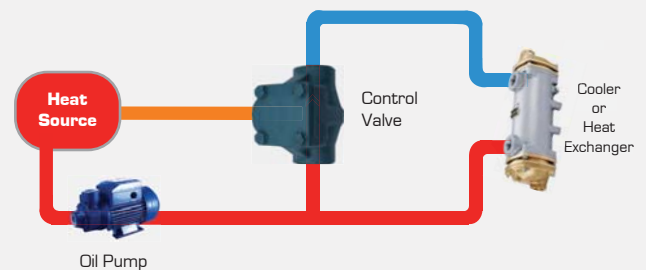
Specifications

Type SE1420/SE1520 Thermostatic Valve Housings are made from (WCB) steel.

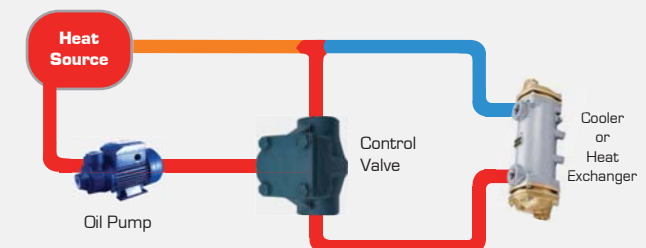
Optional features available upon request.

Application Charts 2014 & 2014-1

Mixing System



Diverting System

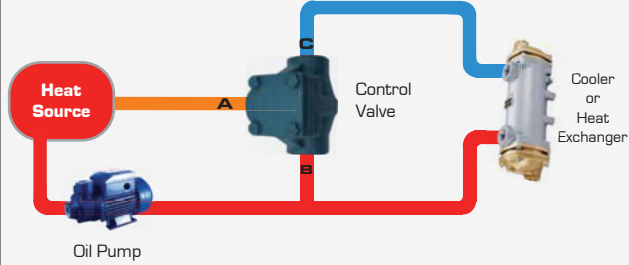


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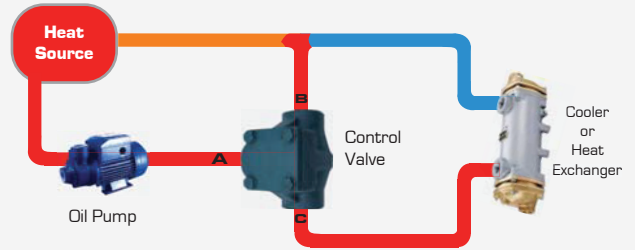
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Application Charts SE1520 & SE1520-1

Diverting System



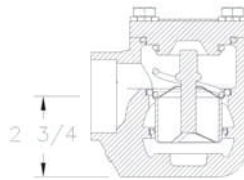
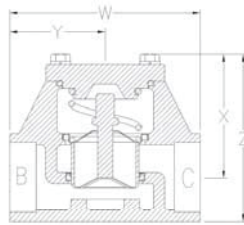
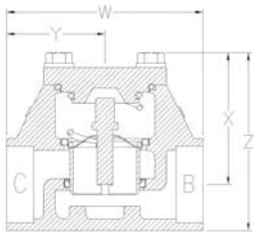
Mixing System



SE1420-1, SE1420

SE1520-1, SE1520

Profile View



Dimensions and Specifications Dimensions in mm.

Model Number	Pipe Size	Dimensions				Weight Kg (Steel)
		X	Y	W	Z	
SE*1420-1 SE*1520-1	1 1/2" Socket Weld	125	97	164	148	9,1
SE*1420 SE*1520	2" Socket Weld	125	97	164	148	9,1
SE*1420-X16 SE*1520-X16	2" Butt Weld	125	97	164	148	9,5

Pressure Ratings

Material	Bar
Steel	34.5 Bar

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

Temperature Settings (°C)

Setpoint	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
Open	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
Fully Open	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

