

Model 2010

Three-Way Thermostatic Valve

2010	2" NPT
2010-1	1 1/2" NPT
2010J24	1 1/2" SAE O-Ring
A2010J32	2" SAE O-Ring
F2010	2" 125# FF Flange
SF2010	2" 150# RF Flange
SF2010X	2" 300# RF Flange



Fluid Power Energy (FPE) 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 FPE 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.

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. FPE 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.

Standard FPE thermostatic valve housings are made from aluminum and grey iron castings, however, ductile iron, bronze, steel and stainless steel housings are available.

Available Connections: NPT, SAE O-Ring, 125# FF Flange, 150# and 300# RF Flange.

Optional features: High over temperature element, plated element. Other options available upon request.

Features

Wide Range of Temperatures

Heavy Duty

Self-Contained

Replaceable Element

Non-Adjustable

Rugged Construction

Tamper-Proof

Operate in Any Position

Compact

Available for Refrigeration Service



FLUID POWER ENERGY, INC.

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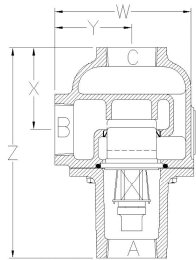
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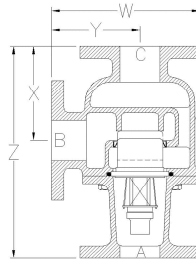
Model 2010

MODEL NUMBER	BODY MATERIAL (*)	NOMINAL PIPE SIZE	PRINCIPAL DIMENSIONS (UNITS in. & (mm))				MAX WIDTH IN THE OTHER PLANE	FLANGE DRILLING			NO. OF ELEMENTS	APPROX. SHIPPING WEIGHT	NOTES OR NUMBERED ENDNOTES
			"X"	"Y"	"W"	"Z"		NO. OF HOLES	DIA. OF HOLES	BOLT CIRCLE			
*2010-1	A, B, D S, SS	1 1/2" NPT	3 13/16 (96.84)	3 9/16 (90.49)	6 5/16 (160.34)	9 3/4 (247.65)	5 1/2 (139.70)	N/A	N/A	N/A	1	A & D=21#, B=24# S & SS=23#	
*2010	A, B, D S, SS	2" NPT	3 13/16 (96.84)	3 9/16 (90.49)	6 5/16 (160.34)	9 3/4 (247.65)	5 1/2 (139.70)	N/A	N/A	N/A	1	A & D=21#, B=24# S & SS=23#	
*2010J24	A, B, D S, SS	SAE 24 1 1/2"	3 13/16 (96.84)	3 9/16 (90.49)	6 5/16 (160.34)	9 3/4 (247.65)	5 1/2 (139.70)	N/A	N/A	N/A	1	A & D=21#, B=24# S & SS=23#	
*2010J32	A, B, D S, SS	SAE 32 2"	3 13/16 (96.84)	3 9/16 (90.49)	6 5/16 (160.34)	9 3/4 (247.65)	5 1/2 (139.70)	N/A	N/A	N/A	1	A & D=21#, B=24# S & SS=23#	
*F2010	A, B, D	2" 125# FF FLANGE	4 3/4 (120.65)	4 9/16 (115.89)	7 9/16 (192.09)	10 5/8 (269.88)	6 (152.40)	4	3/4 (19.05)	4 3/4 (120.65)	1	A=32#, B=40# D=32#	
	S, SS	2" 150# RF FLANGE	4 7/8 (123.83)	4 9/16 (115.89)	7 9/16 (192.09)	10 7/8 (276.23)	6 (152.40)	4	3/4 (19.05)	4 3/4 (120.65)	1	S & SS=34#	
*F2010X	S, SS	2" 300# RF FLANGE	5 (127.00)	4 11/16 (119.06)	7 15/16 (201.61)	11 1/8 (282.58)	6 1/2 (165.10)	8	3/4 (19.05)	5 (127.00)	1	S & SS=36#	

* (Replace * with body material type; A=Cast Iron, B=Bronze, D=Ductile, S=Steel, SS=Stainless Steel)

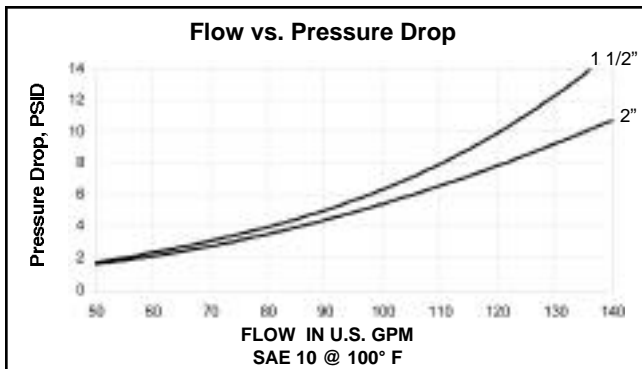


*2010-1, *2010, *2010J



*F2010, *F2010X

PRESSURE RATINGS	
MATERIAL	PSI
A, B	150
D	250
S, SS	500
SF, SSF	275
SFX, SSFX	720



Recommended Pressure Drop is 2 to 7 PSI

PART #	DESCRIPTION
*2010	VALVE BODY (*See table for material)
*2020	VALVE COVER (*See table for material)
1570**	O-RING (Standard material is Buna-N)
2071	LIP SEAL
2050-Temp	THERMOSTAT (Temp to follow dash)
1600	HEX BOLT
1601	LOCK WASHER

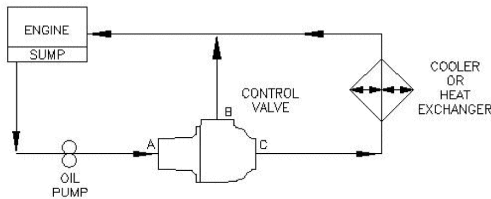
FPE Model 2000** Replacement Kit (Includes the following:)

1570**	BUNA O-RING (Standard material is Buna-N)
2071	LIP SEAL
2050-Temp	THERMOSTAT (Temp to follow dash)

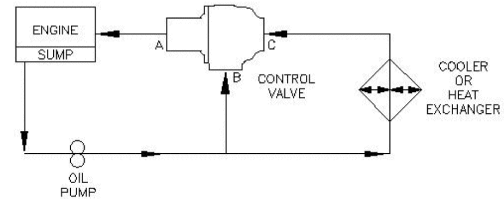
(For Viton® (V) or Neoprene (E) O-Ring material, replace ** with V or E)

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APPLICATION CHARTS



DIVERTING SYSTEM



MIXING SYSTEM

To Order

Specify Model Number, nominal temperature desired, and housing material. For Model coding information, visit our website or consult your factory representative.



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