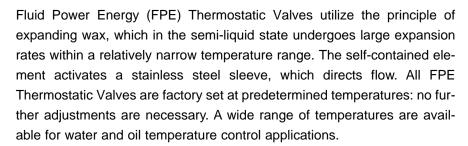
# **Model 1010**

# Three-Way Thermostatic Valve

1010 1" NPT 1110 3/4" NPT 1210 1/2" NPT 1010J8 1/2" SAE O-Ring 1010J12 3/4" SAE O-Ring 1010J16 1" SAE O-Ring



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.

Optional 1010 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

Available for Refrigeration Service



#### FLUID POWER ENERGY, INC.

W229 N591 Foster Court • Waukesha, WI 53186

262 • 548 • 6220 Fax 262 • 548 • 6239

www.fpevalves.com



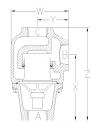




#### **Model 1010**

MODEL NUMBER	BODY MATERIAL (*)	NOMINAL PIPE SIZE	PRINCIPAL DIMENSIONS (UNITS in. & (mm) )			MAX WIDTH	FLANGE DRILLING			APPROX.	NOTES OR		
			"X"	"Y"	"W"	"Z"	IN THE OTHER PLANE	NO. OF HOLES	DIA. OF HOLES	BOLT CIRCLE	NO. OF ELEMENTS	SHIPPING WEIGHT	NUMBERED ENDNOTES
*1010	A, AL, B, D, S, SS	1" NPT	4 1/4 (107.95)	2 (50.80)	3 5/8 (92.08)	6 (152.40)	3 3/8 (85.73)	N/A	N/A	N/A	1	A=6.5#, AL=3# B=8.5#, D=6.5# S & SS=7#	
*1110	A, AL, B, D, S, SS	3/4" NPT	4 1/4 (107.95)	2 (50.80)	3 5/8 (92.08)	6 (152.40)	3 3/8 (85.73)	N/A	N/A	N/A	1	A=6.5#, AL=3# B=8.5#, D=6.5# S & SS=7#	
*1210	A, AL, B, D, S, SS	1/2" NPT	4 1/4 (107.95)	2 (50.80)	3 5/8 (92.08)	6 (152.40)	3 3/8 (85.73)	N/A	N/A	N/A	1	A=6.5#, AL=3# B=8.5#, D=6.5# S & SS=7#	
*1010J8	A, AL, B, D, S, SS	SAE 8 1/2"	4 13/32 (111.92)	2 3/16 (55.56)	3 7/8 (98.43)	6 11/32 (161.13)	3 3/8 (85.73)	N/A	N/A	N/A	1	A=6.5#, AL=3# B=8.5#, D=6.5# S & SS=7#	
*1010J12	A, AL, B, D, S, SS	SAE 12 3/4"	4 13/32 (111.92)	2 3/16 (55.56)	3 7/8 (98.43)	6 11/32 (161.13)	3 3/8 (85.73)	N/A	N/A	N/A	1	A=6.5#, AL=3# B=8.5#, D=6.5# S & SS=7#	
*1010J16	A, AL, B, D, S, SS	SAE 16 1"	4 13/32 (111.92)	2 3/16 (55.56)	3 7/8 (98.43)	6 11/32 (161.13)	3 3/8 (85.73)	N/A	N/A	N/A	1	A=6.5#, AL=3# B=8.5#, D=6.5# S & SS=7#	

<sup>\* (</sup>Replace \* with body material type; A=Cast Iron, AL=Aluminum, B=Bronze, D=Ductile Iron, S=Steel, SS=Stainless Steel)



PRESSURE	RATINGS		
MATERIAL	PSI		
A, AL, B	150		
D	250		
S, SS	500		

All models

Flow vs. Pressure Drop						
10 9 8 8 7 7 6 6 6 5 9 4 4 3 3 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1/2"	3	4"	1"	
0	10		30 N U.S. GPI 0 @ 100° F		50	60

Recommended Pressure Drop is 2 to 7 PSI

For port sizes not shown consult factory

PART #	DESCRIPTION
*1010	VALVE BODY (*See table for material)
*1020	VALVE COVER (*See table for material)
1080	GASKET (Older than 1979)
1572**	O-RING (Standard material is Buna-N)
1071	LIP SEAL
1060-Temp	THERMOSTAT (Temp to follow dash)
1600	HEX BOLT
1601	LOCK WASHER
1590	NAMEPLATE

#### FPE Model 1000\* Replacement Kit (Includes the following:)

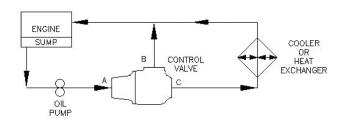
1572**	O-RING (Standard material is Buna-N)
1071	LIP SEAL
1060-Temp	THERMOSTAT (Temp to follow dash)
(For Viton® (V) or Neonre	and (E) O-Ring material replace ** with \/ or E)

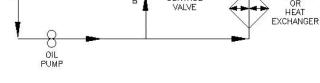
Viton® is a registered trademark of Dupont Dow Elastomers

**ENGINE** 

SUMP

#### **APPLICATION CHARTS**





CONTROL

**DIVERTING SYSTEM** 

MIXING SYSTEM



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## To Order

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

COOLER

OR HEAT