

# Thermostatic Valves

## Model 1530

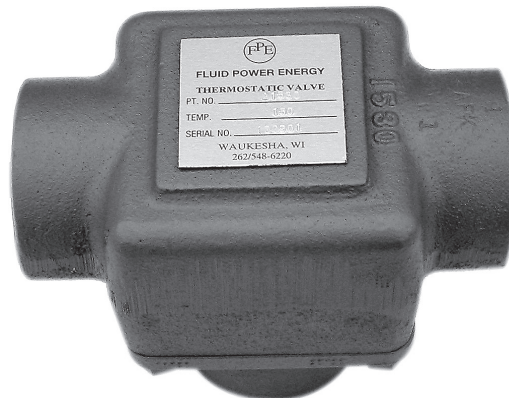
### Including:

#### Three-Way

1530	1 1/2" NPT
1530M	1 1/2" NPT with Manual Override
1530J16	1" SAE O-Ring
1530J20	1 1/4" SAE O-Ring
1530J24	1 1/2" SAE O-Ring
F1530	1 1/2" 125# FF Flange
SF1530	1 1/2" 150# RF Flange
SF1530X	1 1/2" 300# RF Flange

### Features and Benefits

- Wide range of temperatures
- Heavy duty
- Self-contained
- Replaceable element
- Non-adjustable
- Rugged construction
- Tamper-proof
- Operate in any position
- Compact



Manufactured by:



## Compact, reliable temperature control

Fluid Power Energy (FPE) thermostatic valves use 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 brass or nickel-plated 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, steel and stainless steel housings are available.

Available connections: NPT, SAE O-Ring, 125# FF Flange, 150# RF Flange, 300# RF Flange, Navy and Metric Flanges.

Optional Features: Manual Override, High Over Temp elements, Plated elements. Other options available upon request.

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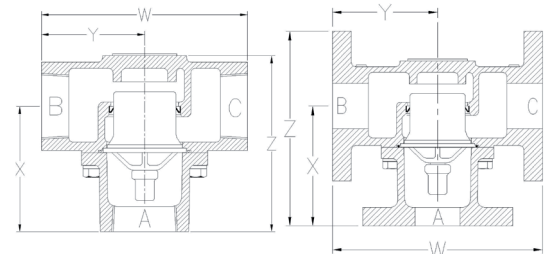
Model 1530

## Specification

Model Number	Body Material (*)	Nominal Pipe Size	Principal Dimensions Units - inches (mm)				Max. width in other plane	Flange Drilling			No. of elements	Approx. shipping weight	Notes for numbered end notes
			"X"	"Y"	"W"	"Z"		No. of holes	Dia. of holes	Bolt circle			
*1530	A, B, D, S, SS	1 1/2" NPT	3 3/4 (95.25)	3 1/16 (77.79)	6 1/8 (155.85)	5 1/4 (133.35)	3 3/4 (95.25)	N/A	N/A	N/A	1	A & D=9#, B=10#, S & SS=10#	
*1530J16	A, B, D, S, SS	SAE 16 1"	3 3/4 (95.25)	3 1/16 (77.79)	6 1/8 (155.85)	5 1/4 (133.35)	3 3/4 (95.25)	N/A	N/A	N/A	1	A & D=21#, B=24#, S & SS=23#	
*1530J20	A, B, D, S, SS	SAE 20 1 1/4"	3 3/4 (95.25)	3 1/16 (77.79)	6 1/8 (155.85)	5 1/4 (133.35)	3 3/4 (95.25)	N/A	N/A	N/A	1	A & D=21#, B=24#, S & SS=23#	
*1530J24	A, B, D, S, SS	SAE 24 1 1/2"	3 3/4 (95.25)	3 1/16 (77.79)	6 1/8 (155.85)	5 1/4 (133.35)	3 3/4 (95.25)	N/A	N/A	N/A	1	A & D=21#, B=24#, S & SS=23#	
*1530M	A, B, D, S, SS	1 1/2" NPT	3 3/4 (95.25)	3 1/16 (77.79)	6 1/8 (155.85)	N/A	3 3/4 (95.25)	N/A	N/A	N/A	1	A & D=21#, B=24#, S & SS=23#	Manual override
*F1530	A, B, D	1 1/2" 125# FF flange	4 (101.60)	3 1/2 (88.90)	7 (177.80)	6 1/2 (165.10)	5 (127.00)	4	5/8 (15.88)	3 7/8 (98.43)	1	A & D=16# B=18#	
	S, SS	1 1/2" 150# RF flange	4 (101.60)	3 1/2 (88.90)	7 (177.80)	6 1/2 (165.10)	5 (127.00)	4	5/8 (15.88)	3 7/8 (98.43)	1	S & SS=17#	
*F1530M	A, B, D	1 1/2" 125# FF flange	4 (101.60)	3 1/2 (88.90)	7 (177.80)	N/A	5 (127.00)	4	5/8 (15.88)	3 7/8 (98.43)	1	A & D=17# B=19#	Manual override
	S, SS	1 1/2" 150# RF flange	4 (101.60)	3 1/2 (88.90)	7 (177.80)	6 1/2 (165.10)	5 (127.00)	4	5/8 (15.88)	3 7/8 (98.43)	1	S & SS=18#	Manual override
*F1530X	S, SS	1 1/2" 300# RF flange	4 3/4 (120.65)	4 (101.60)	8 (203.20)	7 13/16 (198.44)	6 1/8 (155.58)	4	7/8 (22.23)	4 1/2 (114.30)	1	S & SS=28#	
*F1530XM	S, SS	1 1/2" 300# RF flange	4 3/4 (120.65)	4 (101.60)	8 (203.20)	7 13/16 (198.44)	6 1/8 (155.58)	4	7/8 (22.23)	4 1/2 (114.30)	1	S & SS=28#	Manual override

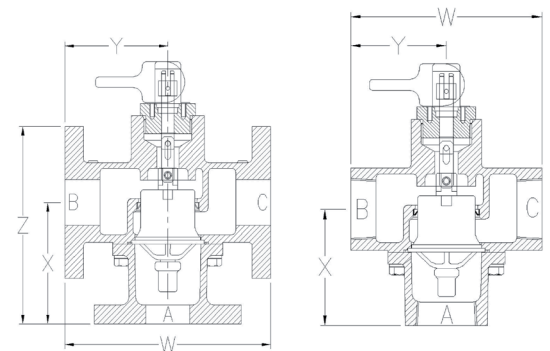
\* Replace \* with body material type: A= Cast Iron, AL= Aluminium,  
B = Bronze, D= Ductile Iron, S=Steel, SS= Stainless Steel.  
For port sizes not shown consult factory.

Pressure Ratings	
Material	PSI
A, B	150
D	250
S, SS	500
SF, SSF	275
SFX, SSFX	720



\*1530, \*1530J

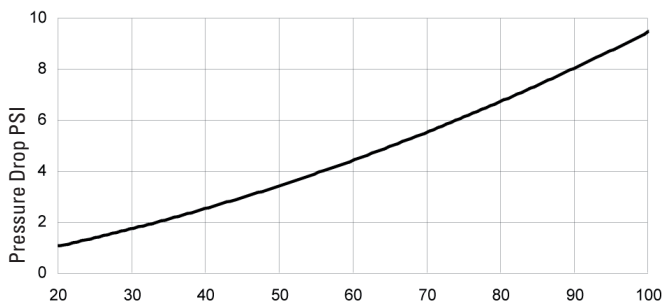
\*F1530, \*F1530X



\*1530M

\*F1530M, \*F1530XM

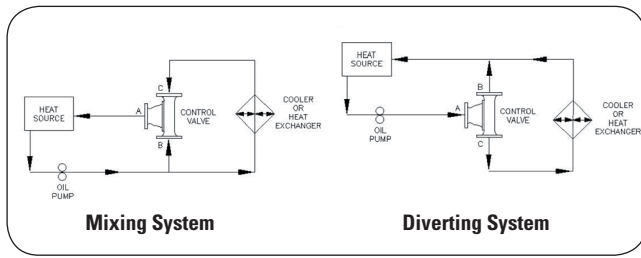
### Flow vs. Pressure Drop



Flow in US GPM - SAE 10 @100°F  
Recommended pressure drop is 2 to 7 psi

# Thermostatic Valves

Model 1530



## Spare Parts

Part Number	Description
*1530	Valve body (*See table for material)
*1540	Valve cover (*See table for material)
1572**	O-ring (Standard material is Buna N)
1571	Lip seal
1560-Temp	Thermostat (Temp to follow dash)
1600	Hex bolt
1601	Lock washer
1590	Nameplate
<b>FPE Model 1500*</b>	<b>Replacement kit (includes the following:)</b>
1572	O-ring (Standard material is Buna N)
1571	Lip seal
1560-Temp	Thermostat (Temp to follow dash)
(For Viton* (V) or Neoprene (E) O-ring material, replace ** with V or E) Viton® is a registered trademark of Dupont Dow Elastomers	

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