

Including:

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



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



Compact, reliable temperature control

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.

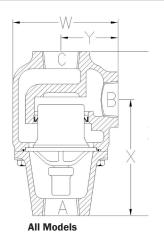
In a mixing application, hot fluid enters the "B" port and colder fluid enters the "C" port. The flows mix and the thermostat adjusts to reach the desired temperature, exiting the "A" port.

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

Optional 1010 features: High over temperature element, plated element. Other options available upon request.

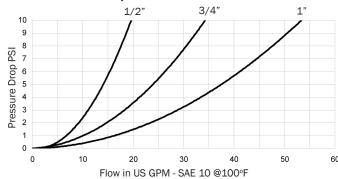
Specification

| Model Number | Body Material (*) | Nominal Pipe Size | Principal Dimensions Units - inches (mm) | | | | Max. width in | Flange Drilling | | | No. of elements | Approx. shipping weight |
|-----------------|-------------------------|----------------------|--|-------------------|------------------|---------------------|------------------|-----------------|---------------|----------------|-----------------|--|
| | | | "X" | "Y" | "W" | "Z" | other plane | No. of holes | Dia. of holes | Bolt circle | | |
| *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# |
| *1010JB | 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# |



| Pressure F | Pressure Ratings | | | | | |
|------------|------------------|--|--|--|--|--|
| Material | PSI | | | | | |
| A, AL, B | 150 | | | | | |
| D | 250 | | | | | |
| S, SS | 500 | | | | | |

Flow vs. Pressure Drop



 \star Replace \star 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.

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

Engine Control Sump Valve В Cooler or heat exchanger Oil Pump **Mixing System** Engine Sump Cooler Control В Valve or heat Oil Pump **Diverting System**

Spare Parts

| Part Number | 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 Neoprene (E) O-ring material, replace ** with V or E) Viton® is a registered trademark of Dupont Dow Elastomers | | | | | | |

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