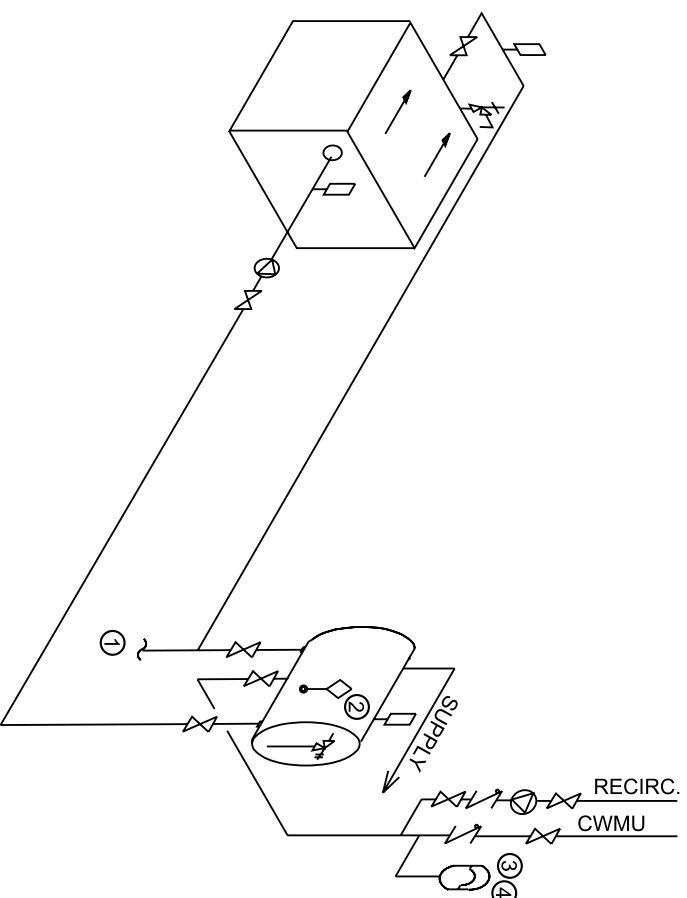


ONE HEATER, ONE PASS WITH HORIZONTAL TANK



Heater Connection Pipe Sizing and Heat Exchanger Configuration		
Heater Model	Pipe Size (NPS)	Configuration
2800-5000	4	Single Pass

NOTES:

1. Optional CWMU & Recirc. line location
2. When using intermittent pump and EMV² locate remote aquastat well in lower 1/3 of tank with heat sensing compound.
3. Back flow preventer may be required, check local codes.
4. Thermal expansion tank may be required, check local codes.
5. This drawing depicts a one-pass heat exchanger.

6. CAUTION: PUMP SIZING MUST BE BASED UPON WATER HARDNESS AT JOB SITE.

⚠WARNING

This drawing shows suggested piping configuration and valving.
Check with local codes and ordinances for additional requirements

KEY

Water Category Grain Hardness Per Gallon

S = Soft	1 Through 7.5
N = Normal	7.6 Through 17
H = Hard	Over 18

P.P.M. 17.1 = Grains Hardness Per Gallon



PUMP



VALVE



GLOBE
VALVE

CHECK
VALVE

PRESSURE REDUCING VALVE



3-WAY VALVE

TEMPERATURE
SENSOR

THERMOMETER



EXPANSION TANK

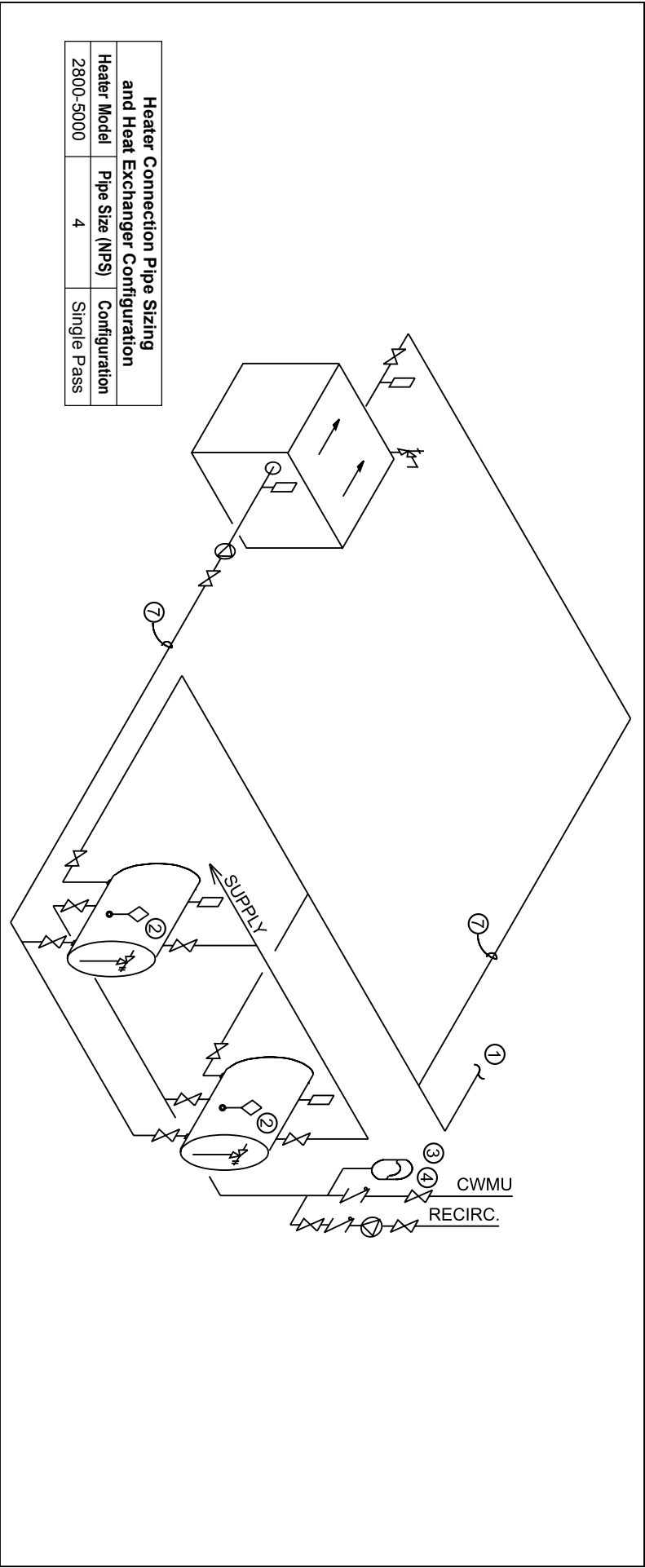


PRV



TPRV

ONE HEATER, SINGLE PASS WITH HORIZONTAL TANKS



- NOTES:**
1. Optional CWMU & Recirc. line location
 2. When using intermittent pump and EM² locate remote aquastat well in lower 1/3 of tank with heat sensing compound.
 3. Back flow preventer may be required, check local codes.
 4. Thermal expansion tank may be required, check local codes.
 5. This drawing depicts a one-pass heat exchanger.

6. **CAUTION: PUMP SIZING MUST BE BASED UPON WATER HARDNESS AT JOB SITE.**

⚠WARNING

This drawing shows suggested piping configuration and valving. Check with local codes and ordinances for additional requirements.

KEY	
Water Category Grain Hardness Per Gallon	
S = Soft	1 Through 7.5
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H = Hard	Over 18
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PUMP	VALVE	GLOBE VALVE	CHECK VALVE	PRESSURE REDUCING VALVE	3-WAY VALVE	TEMPERATURE SENSOR	THERMOMETER	EXPANSION TANK	PRV	TPRV