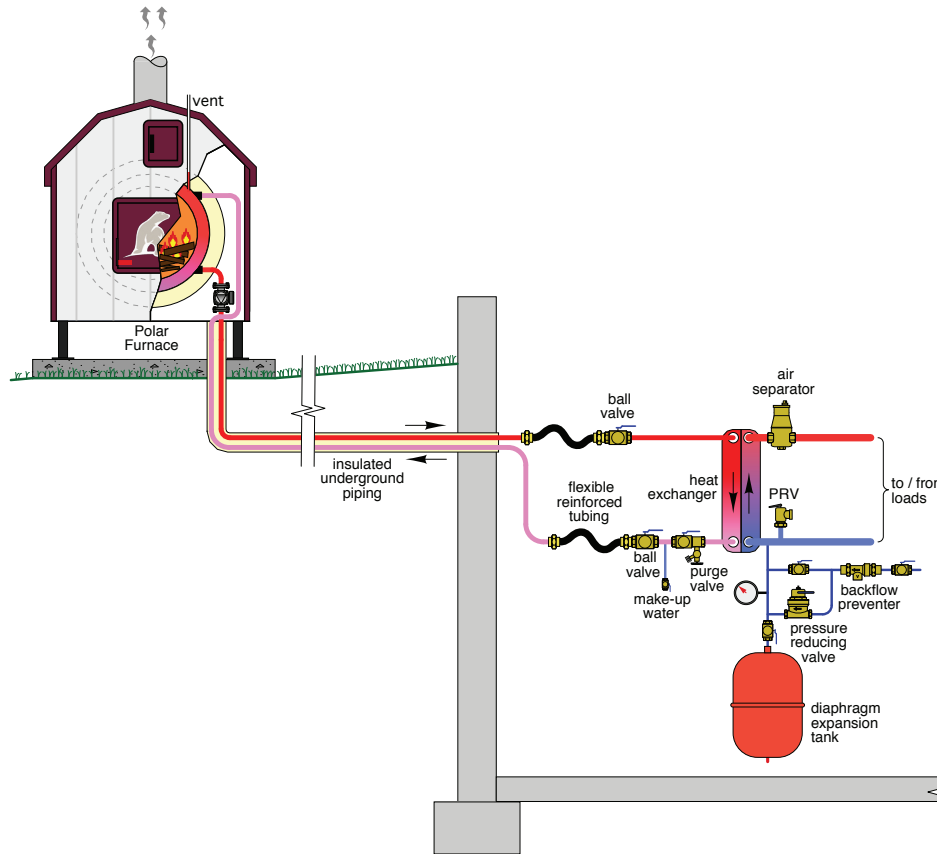


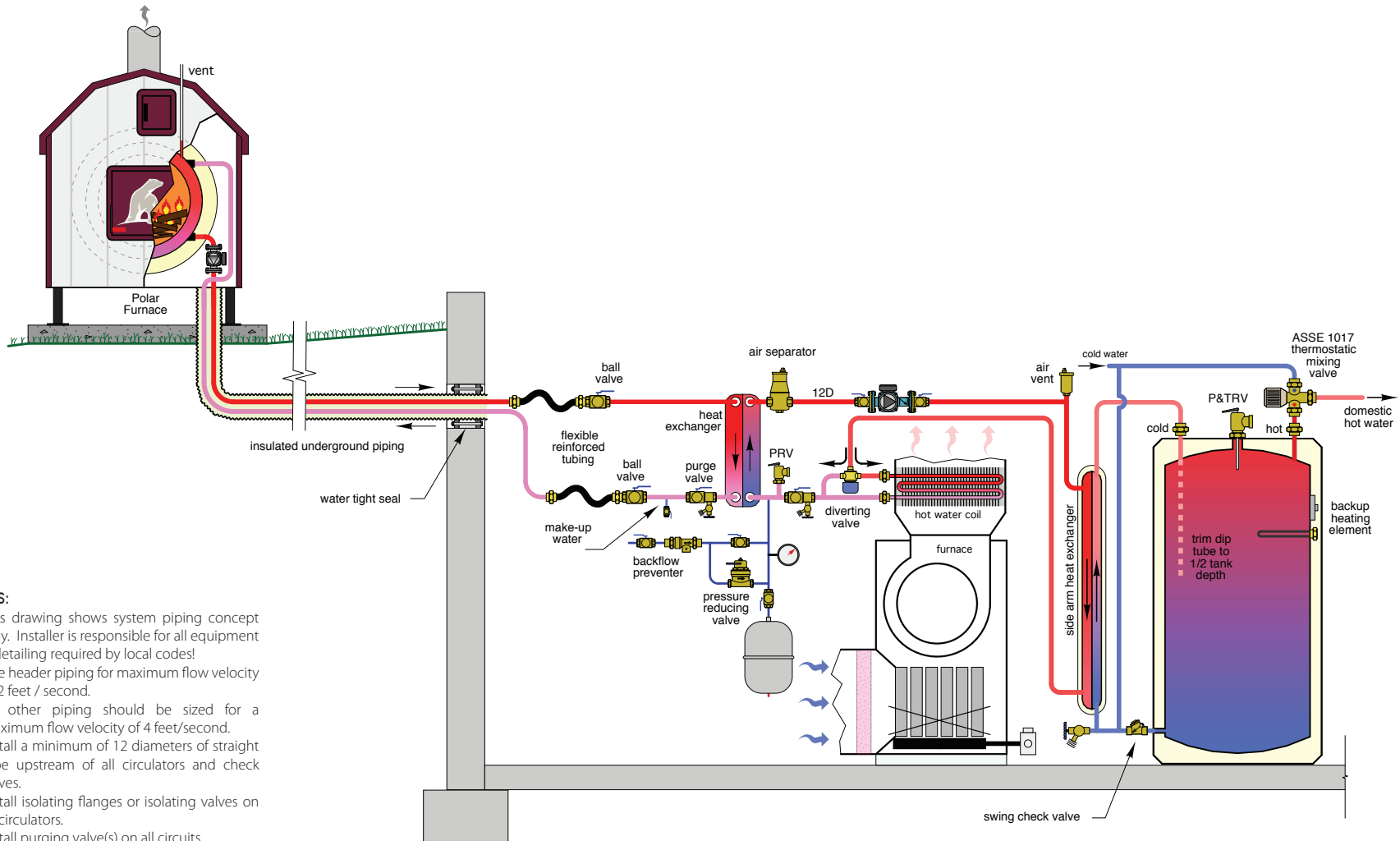
CLOSED SYSTEM HEAT EXCHANGER DETAILING



NOTES:

1. This drawing shows system piping concept only. Installer is responsible for all equipment & detailing required by local codes!
2. Size header piping for maximum flow velocity of 2 feet / second.
3. All other piping should be sized for a maximum flow velocity of 4 feet/second.
4. Install a minimum of 12 diameters of straight pipe upstream of all circulators and check valves.
5. Install isolating flanges or isolating valves on all circulators.
6. Install purging valve(s) on all circuits.
7. Install pressure relief valve on all closed loop circuits.
8. Install anti-scalding thermostatic mixing valve on domestic hot water supply on all applications using side harm heat exchanger.

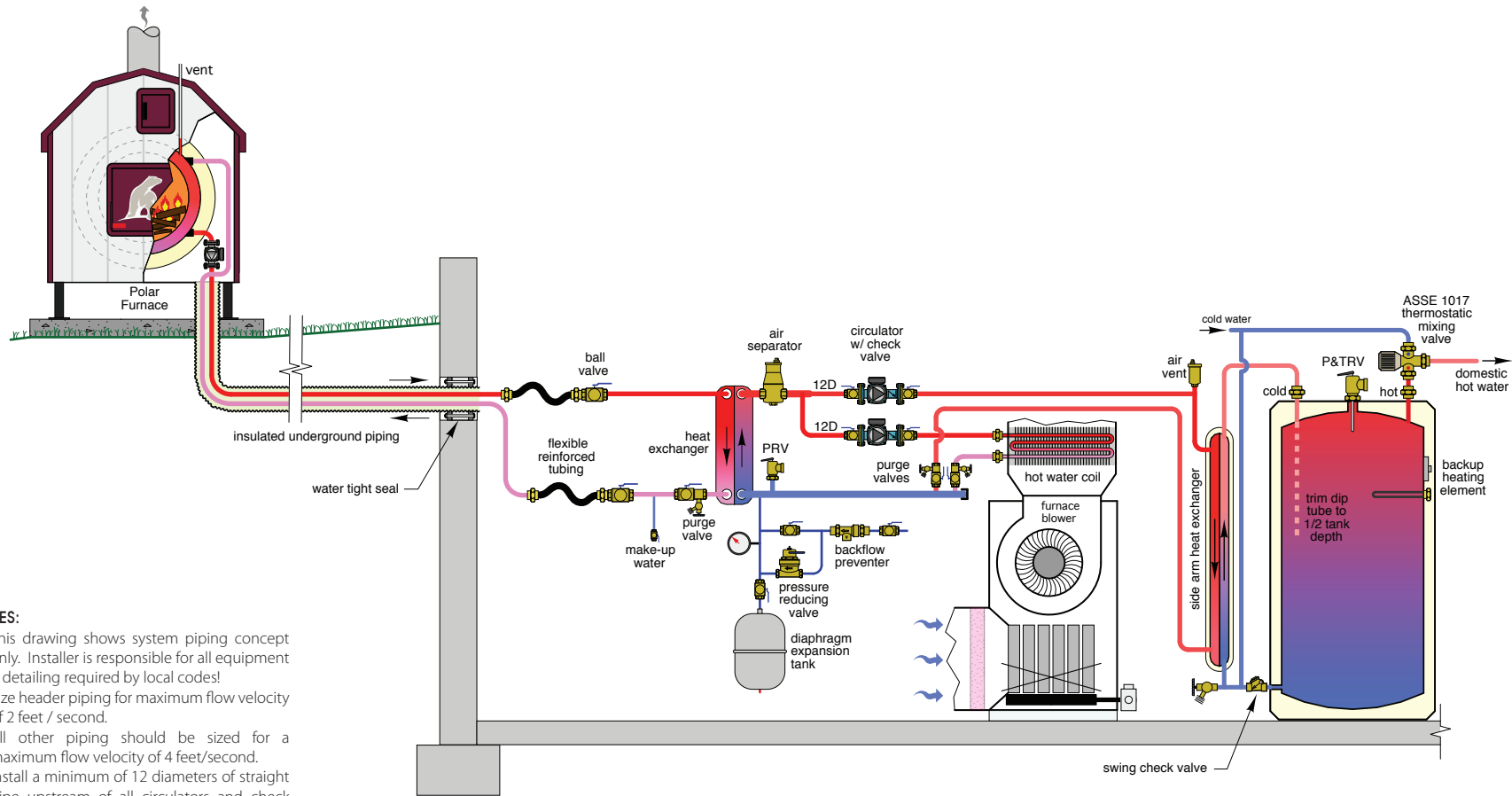
CLOSED SYSTEM CENTRAL AIR & DOMESTIC HOT WATER - DIVERTER VALVE



NOTES:

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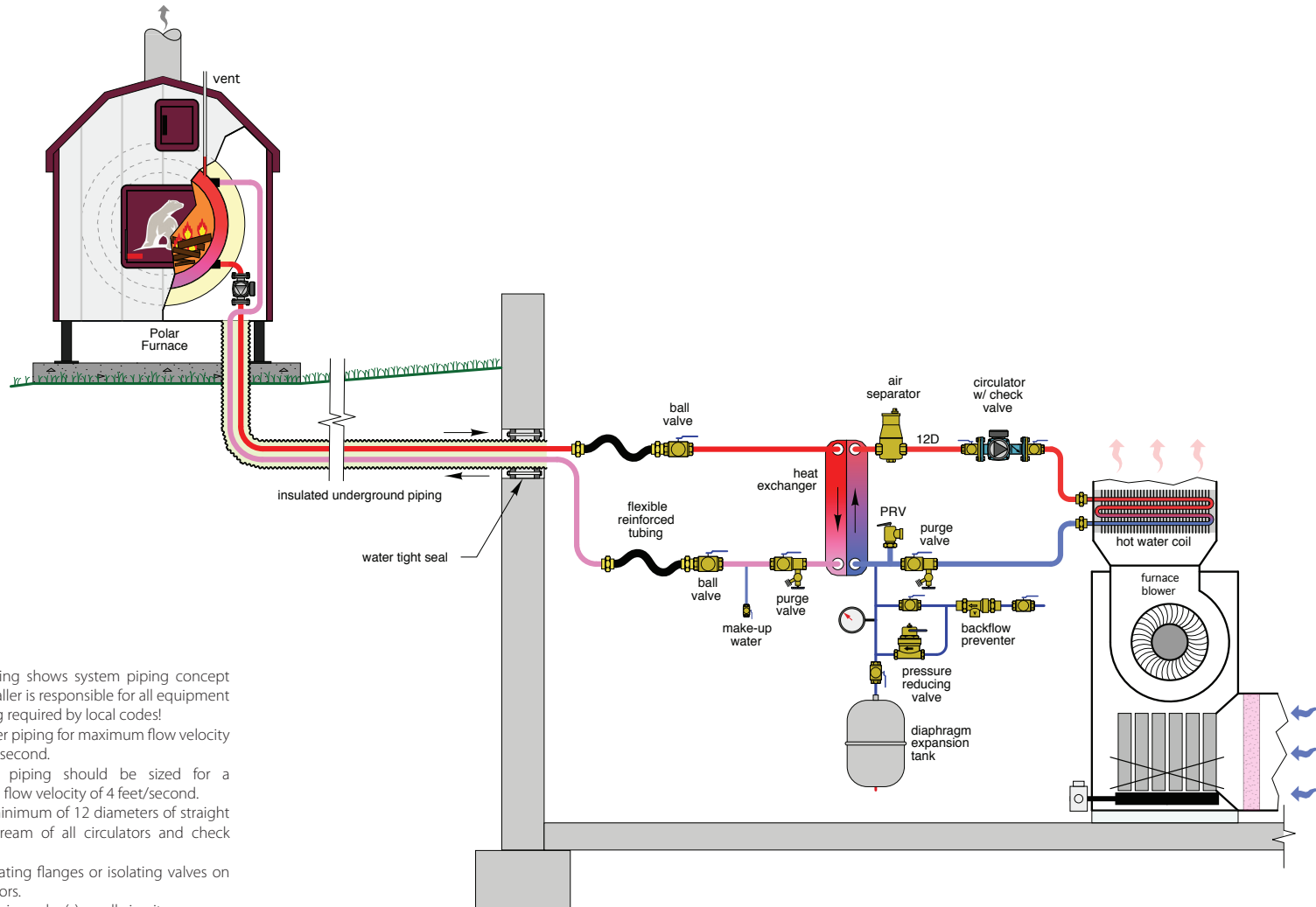
CLOSED SYSTEM CENTRAL AIR & DOMESTIC HOT WATER - DUAL PUMPS



NOTES:

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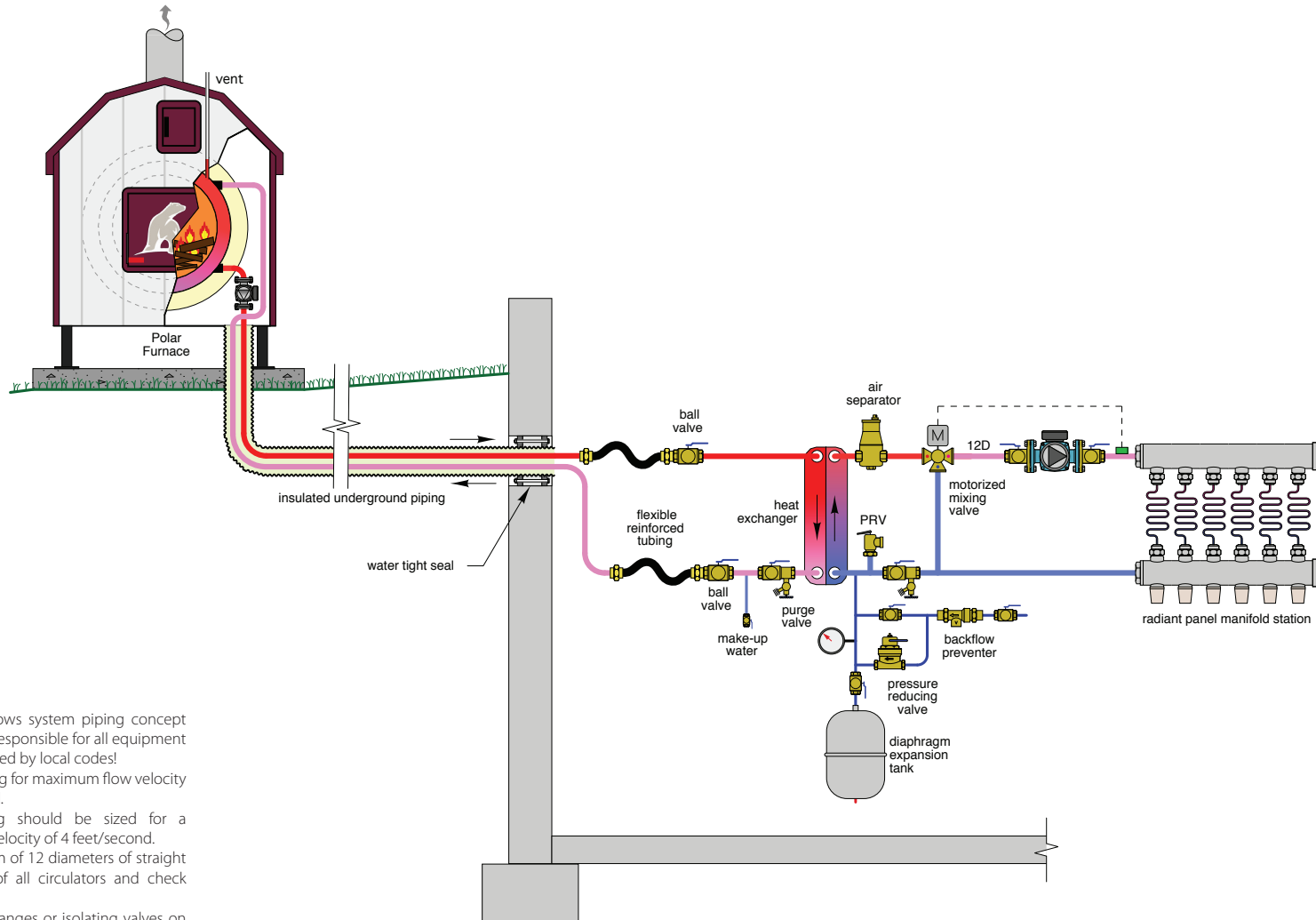
CLOSED SYSTEM CENTRAL AIR



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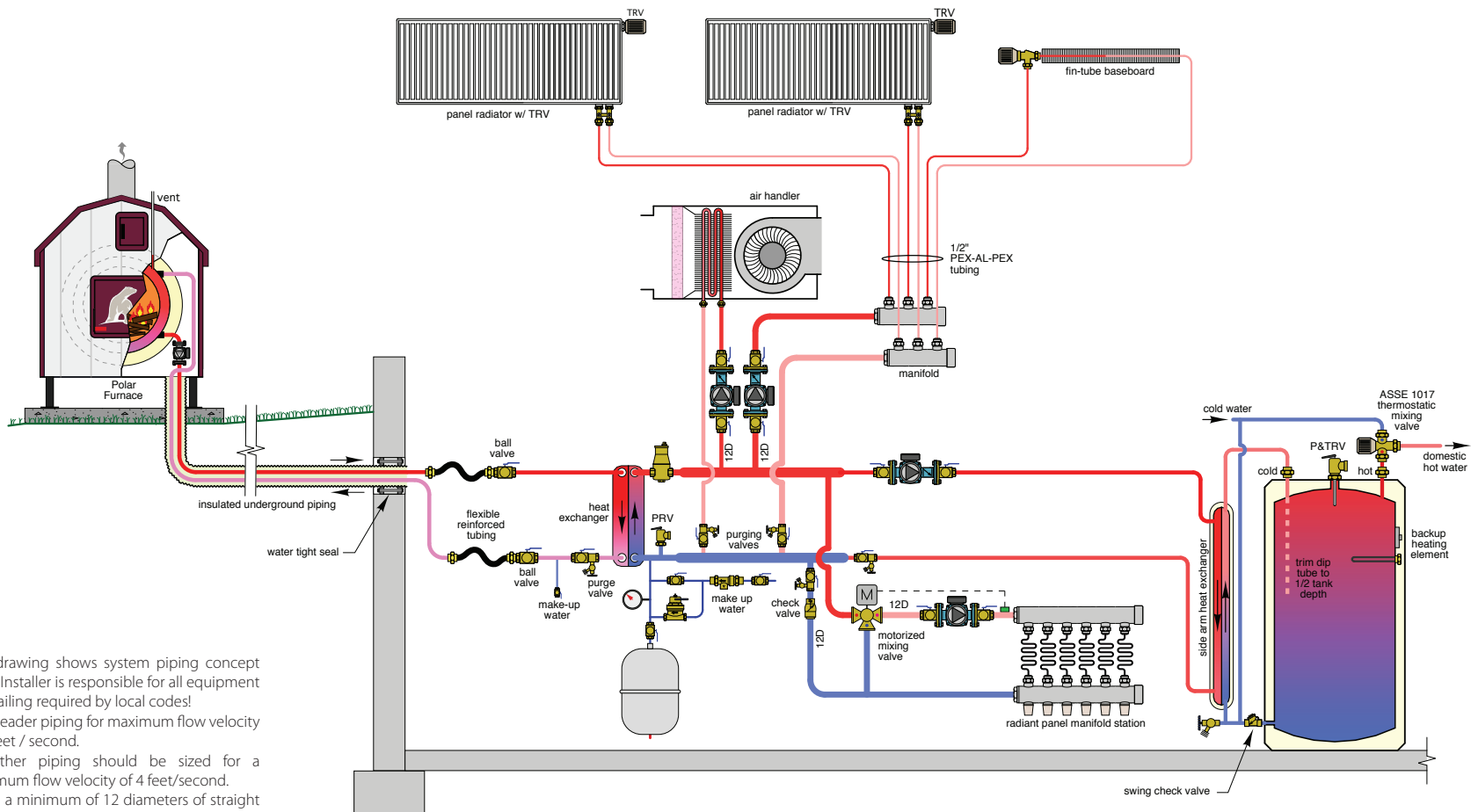
CLOSED SYSTEM FLOOR HEAT



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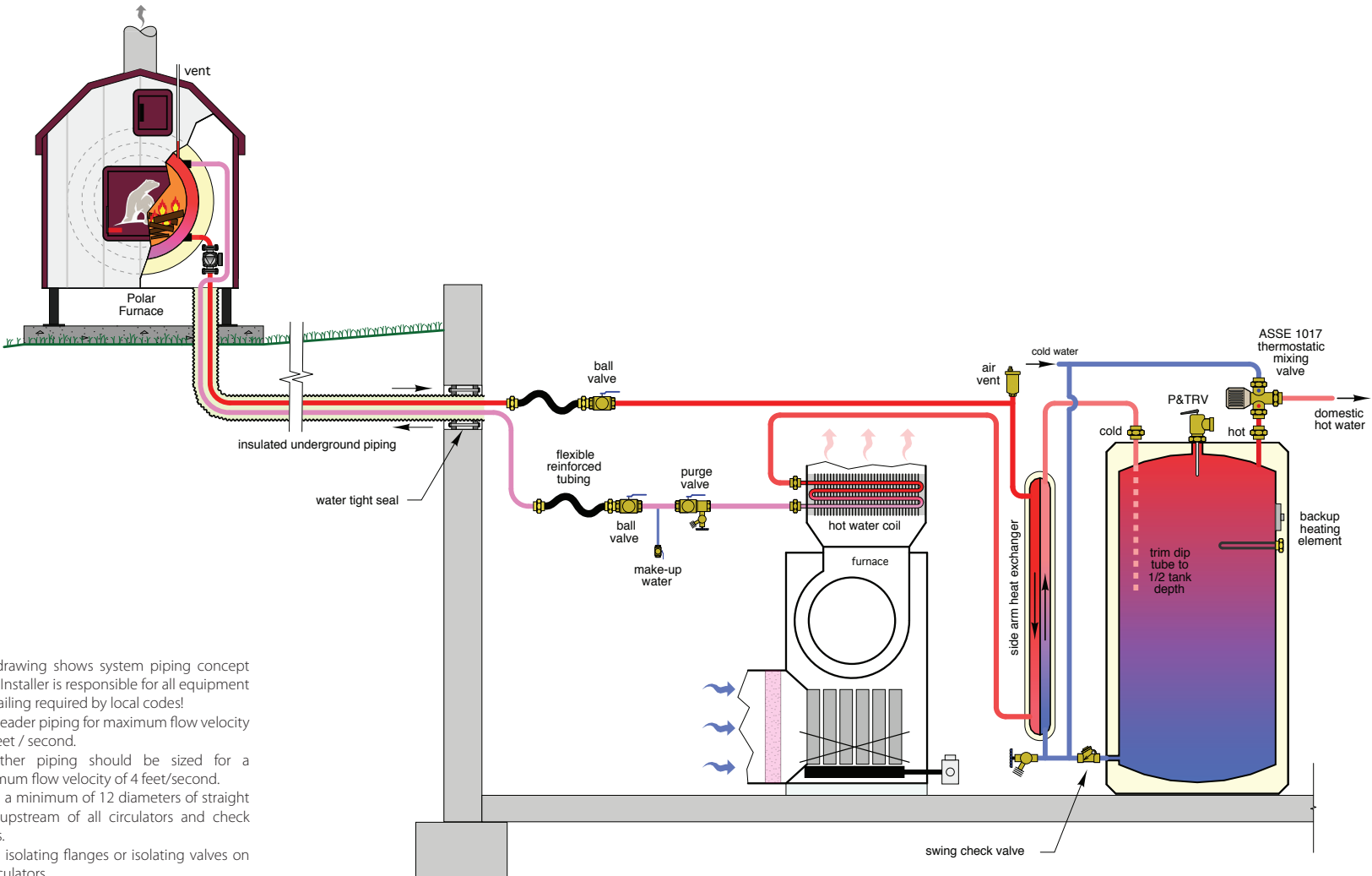
CLOSED SYSTEM MULTIPLE TYPES OF HEAT EMITTERS



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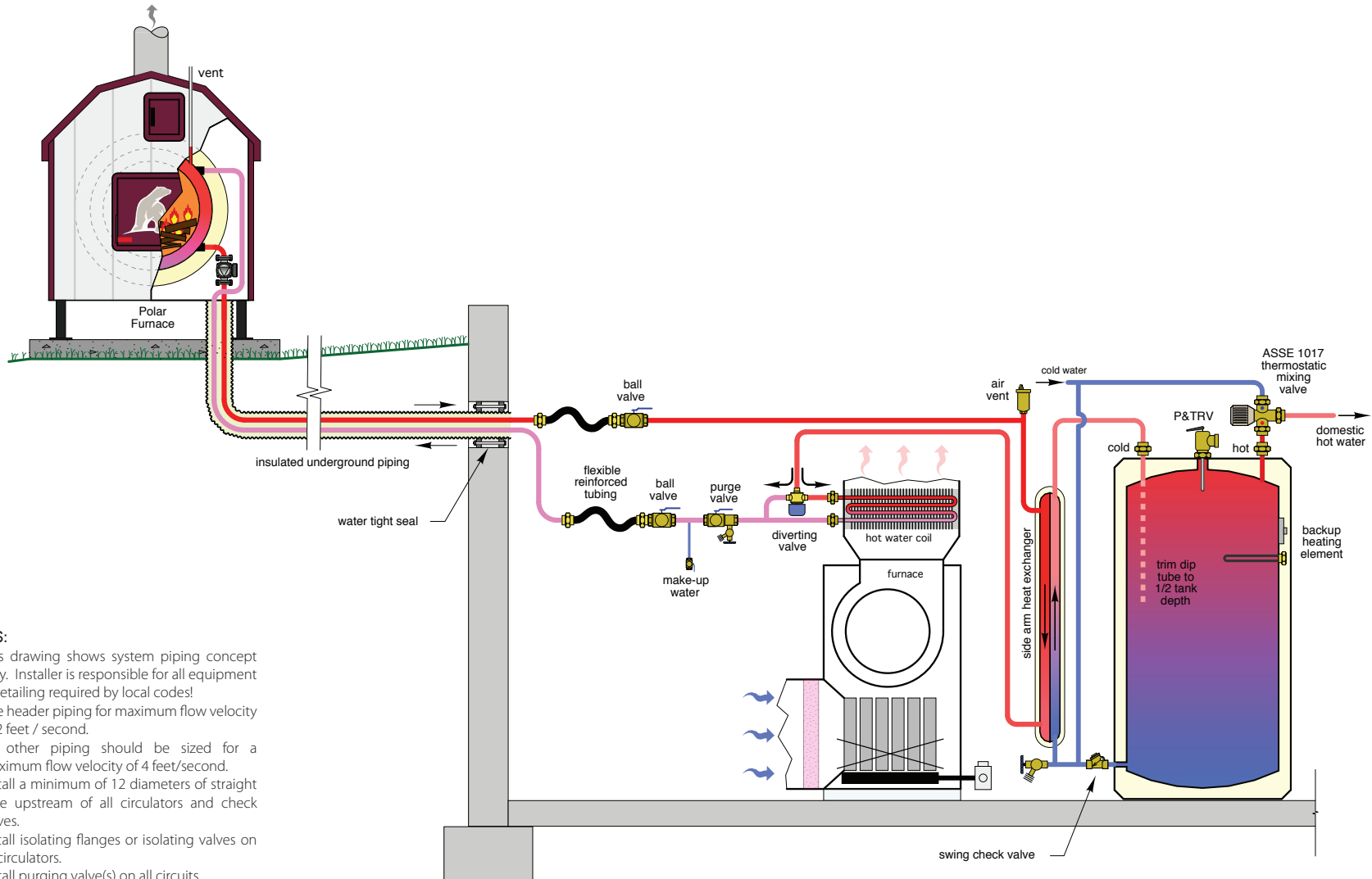
OPEN SYSTEM CENTRAL AIR & DHW - SINGLE PUMP



- NOTES:**
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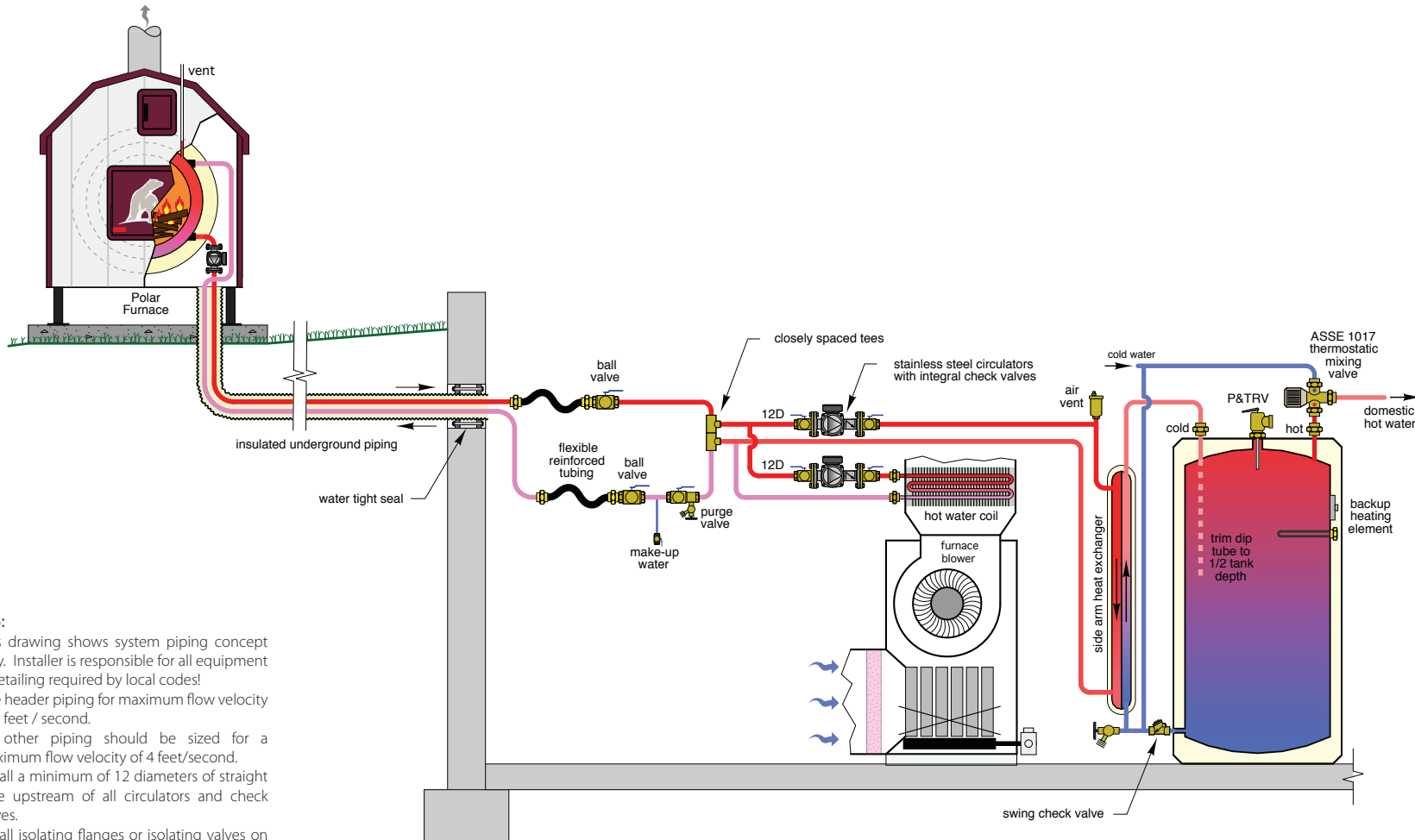
OPEN SYSTEM CENTRAL AIR & DOMESTIC HOT WATER - DIVERTER VALVE



NOTES:

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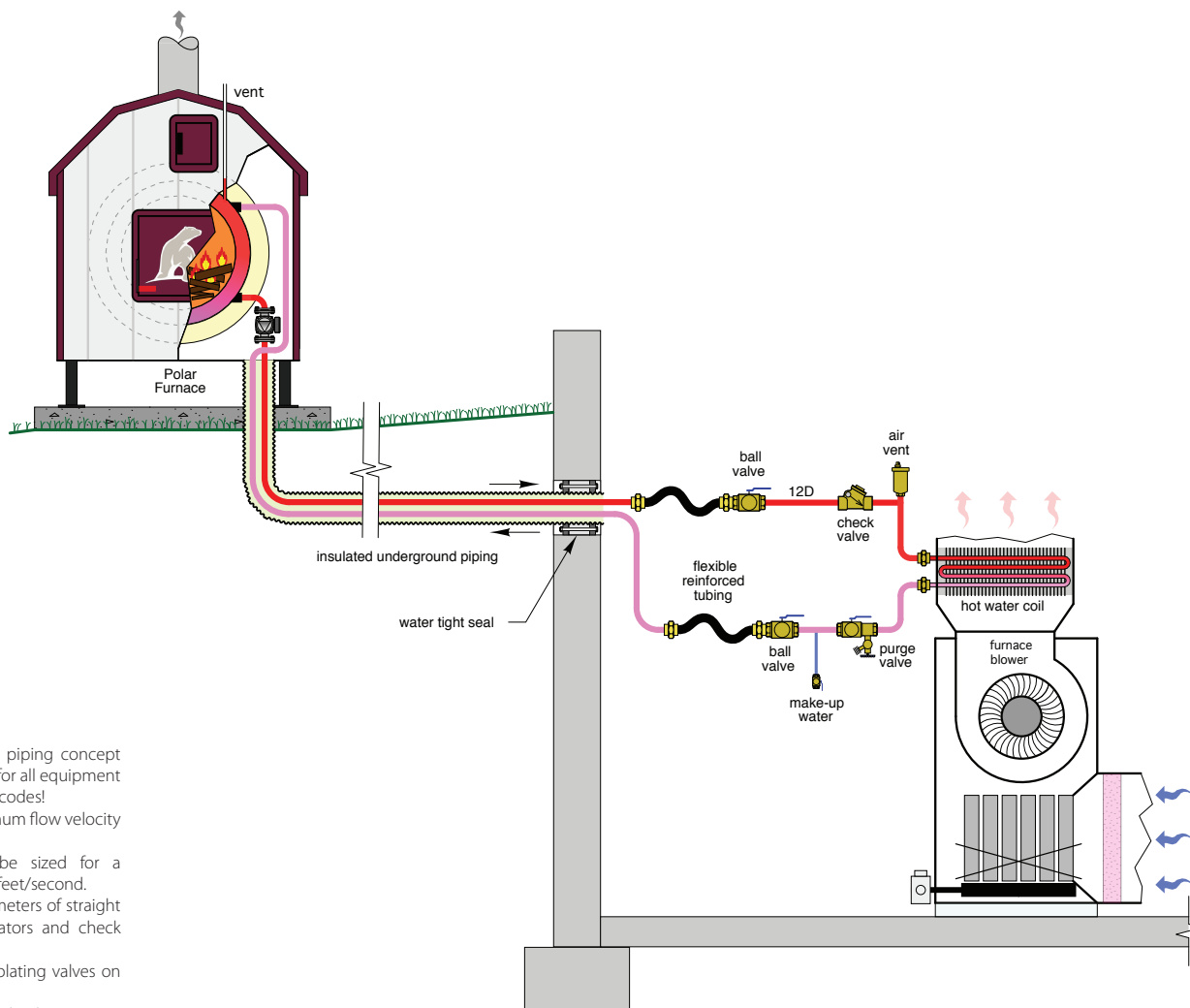
OPEN SYSTEM CENTRAL AIR & DOMESTIC HOT WATER - DUAL PUMPS



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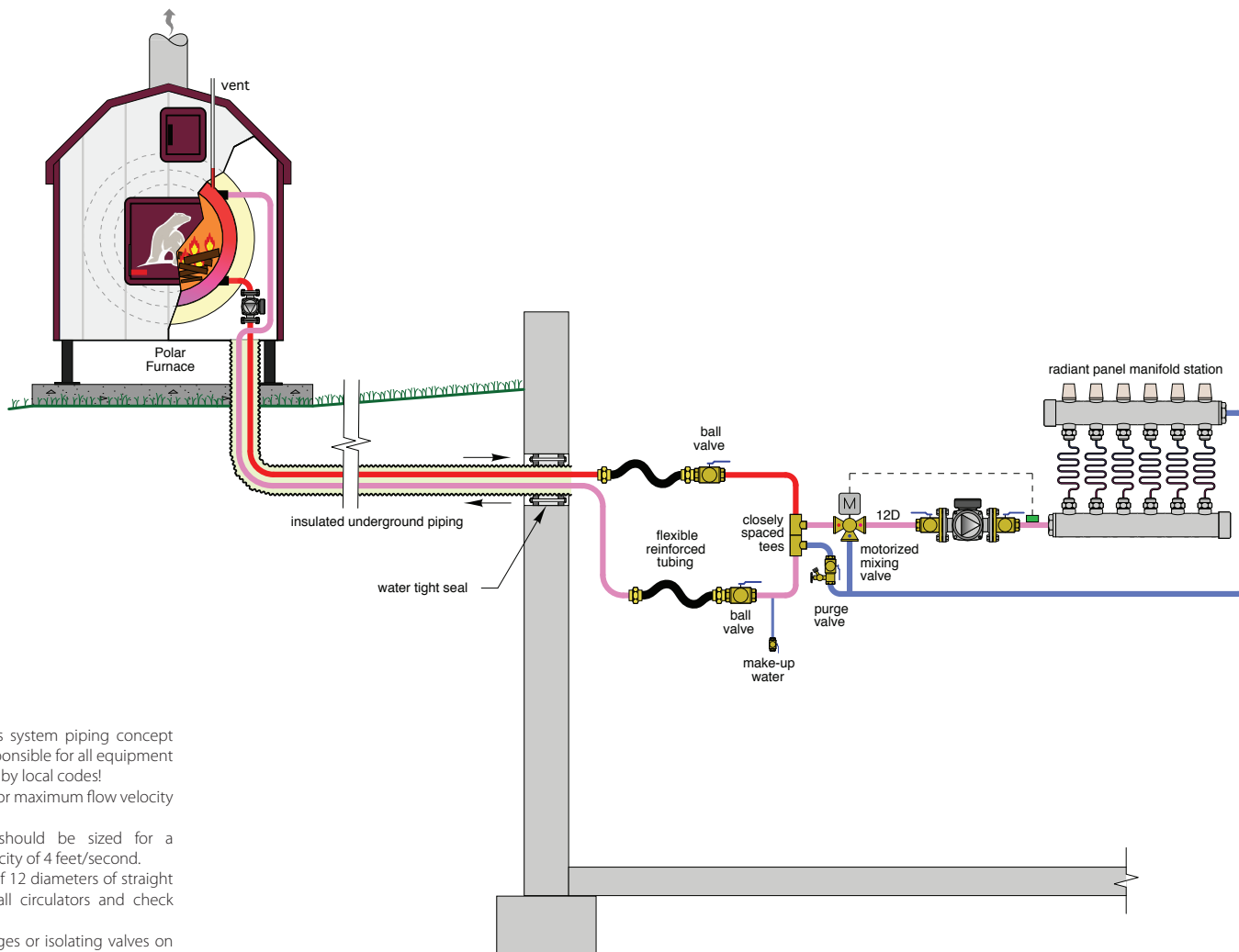
OPEN SYSTEM CENTRAL AIR



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OPEN SYSTEM FLOOR HEAT



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SYMBOL LEGEND FOR PIPING COMPONENTS

