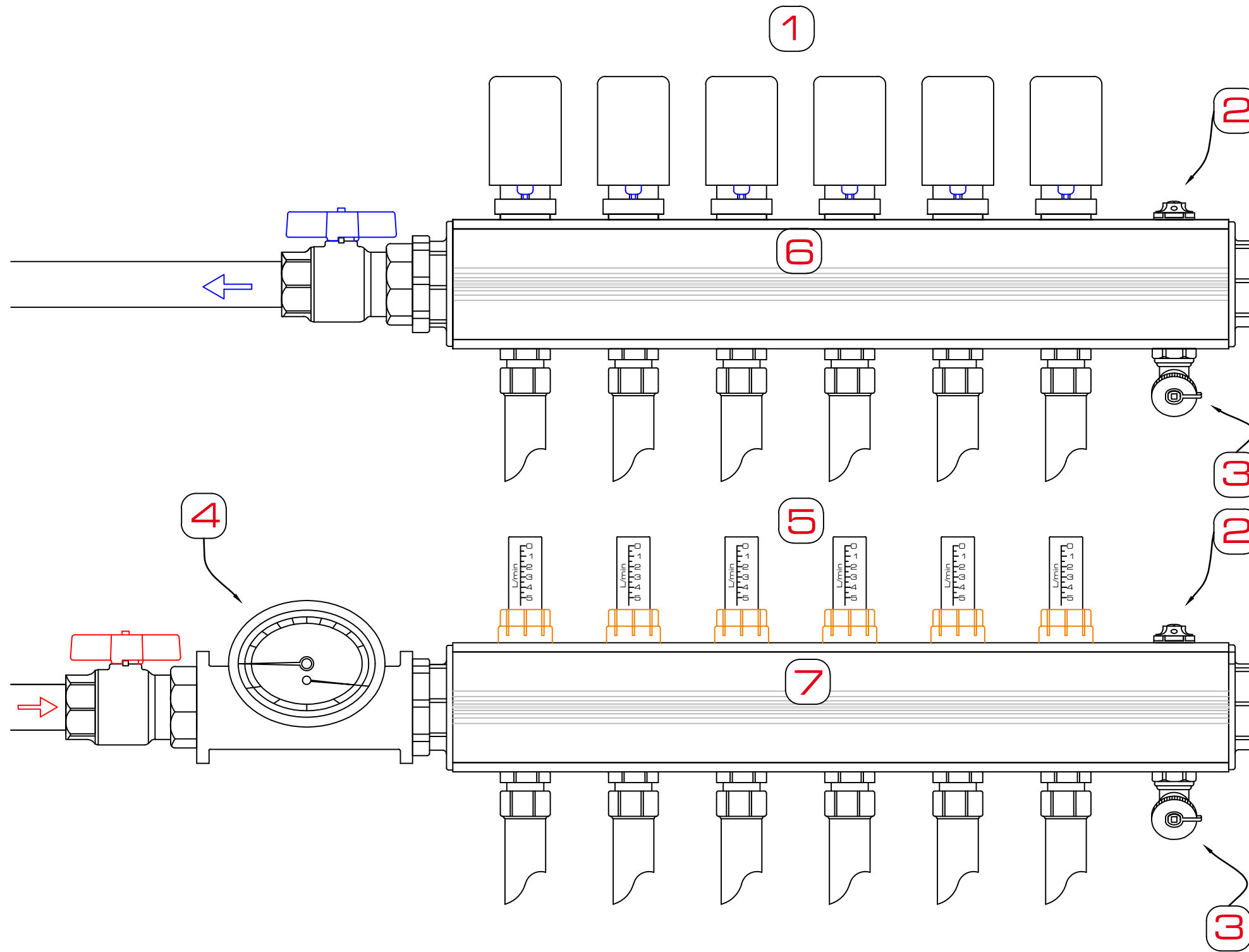


HEAT PUMP SYSTEM -  
MANIFOLD DETAIL



**1 Thermo Actuators:** Operated indirectly by the individual room thermostats via the wiring centre, the actuators allow flow through each individual pipe circuit in relation to a heat demand. If more than one circuit of pipe is required to fill a room, then the room thermostat for that area will indirectly control more than one actuator.

**2 Air Eliminators:** Situated at the highest point of the manifold blocks, the air eliminators disperse any trapped air in the system. Manifolds are pre-fitted with either manual or auto air eliminators. Once all air has been eradicated from the system, the air eliminators must be closed off, otherwise they may let by water which will invalidate system guarantee.

**3 Fill/Drain Valves:** Utilised for filling and pressure testing a system, as well as for maintenance if necessary. For further information on filling and pressure testing please refer to the filling and pressure testing page.

**4 UFH Mix Temperature Gauge:** Accurately displays the mixed flow temperature of the water entering the floor heating circuits. Highly important to ensure the correct temperature is entering the floor (typically 35-45°C for a heat pump)

**5 Flow Meters incorporating Balancing Valves:** Accurately displays and controls the flow rates of each individual circuit. Flow rates should be set as indicated on the CAD pipe layout supplied. This is done by removing the red collar and turning the clear tube clockwise to restrict flow and vice-versa.

**6 Return Manifold Block:** Connects to the return side of the heating system.

**7 Flow Manifold Block:** Connects to the flow side of the heating system.