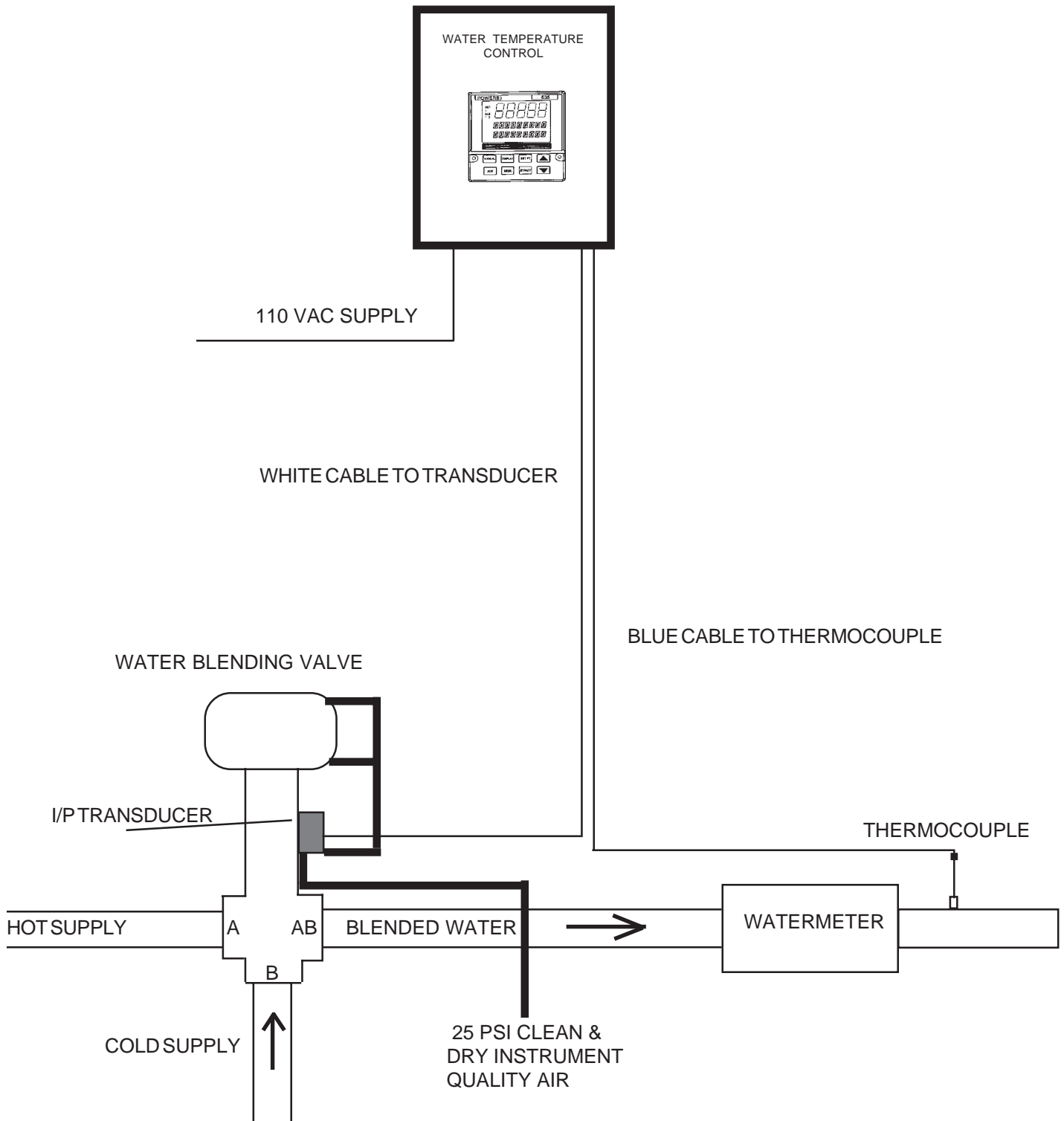




CONCRETE CONTROLS CORPORATION
1311 N. CONGRESS DRIVE
CHANDLER ARIZONA 85226
1-800-345-6654 FAX 1-480-821-1138

ELECTRONIC WATER TEMPERATURE CONTROL SYSTEM INSTALLATION

WATER TEMPERATURE CONTROLLER





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INSTALLATION INSTRUCTIONS WATER TEMPERATURE CONTROL

A. Choose a location for the instrument which is within reach and view of the batch operator.

B. Install the water blending valve as close as possible to the water measuring (metering) device. Cold water in the B (bottom port). Hot water to the "A" or upper port and output to the "AB" or common port.

C. The I/P (air) transducer mounted on the blending valve must be supplied with 25psi EXTREMELY CLEAN & DRY "INSTRUMENT" air.

D. Drill & tap or use reducers in a "TEE" to install the pipe to compression fitting 5 feet downstream of the blending valve or after an elbow 3 feet from the valve. For best results the water should flow down the length of the probe and not across the probe. (See figure #1)

E. Install the thermocouple in the center of the pipe. Note: the thermocouple only reads the temperature on the tip. (see figure 1)

F. Route the 2 (two) cables from the control to the various devices:

Blue thermocouple wire to the thermocouple in the water line.

(NOTE: THIS CABLE MUST BE ROUTED AWAY FROM ALL POWER WIRES. IF IT MUST BE RUN NEAR POWER WIRES, RUN AT 90 DEGREES TO THE POWER WIRE.)

WHITE 2 wire control cable to the valve air transducer.

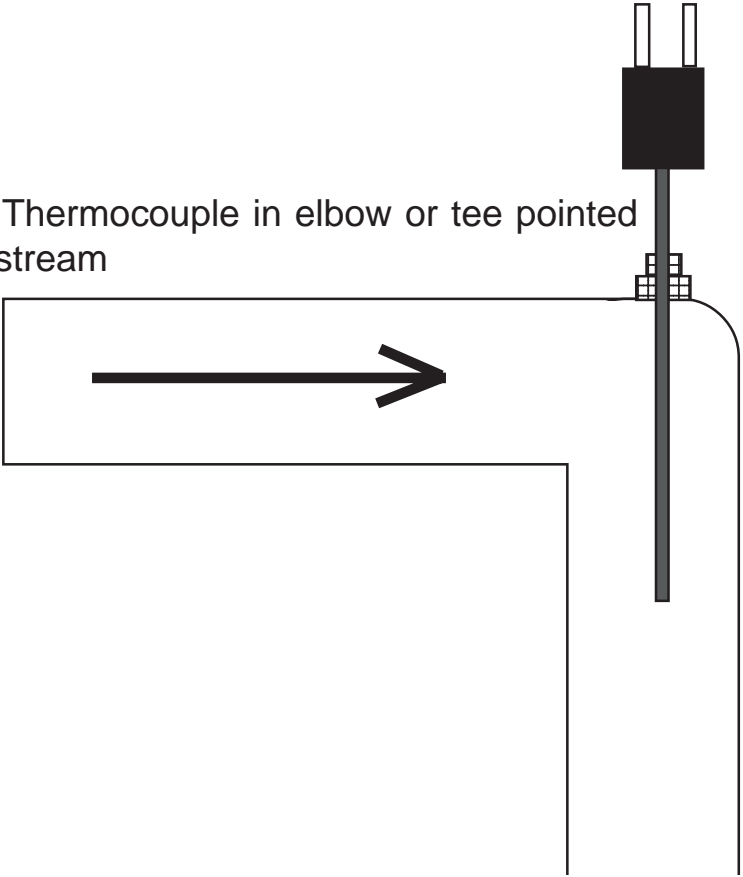
G. Terminate the cables as follows:

Thermocouple cable should be supplied with connectors. Simply connect. If the connectors are missing or not connected. Red wire in thermocouples is the - (neg) wire.

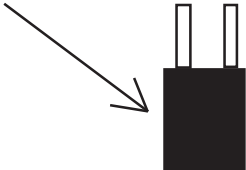
WHITE control cable- the black wire is + (pos) and has to be connected to the black + (pos) of the transducer. Now connect the - (neg) white wire of the white cable to the - (neg) white wire of the transducer. NOTE: THIS CONNECTION MUST BE FOLLOWED!

POWER UP CONTROL. USE ARROWS TO REQUEST WATER TEMPERATURE. FURTHER INSTRUCTIONS ARE AVAILABLE IN THE INSTRUMENT MANUALS.

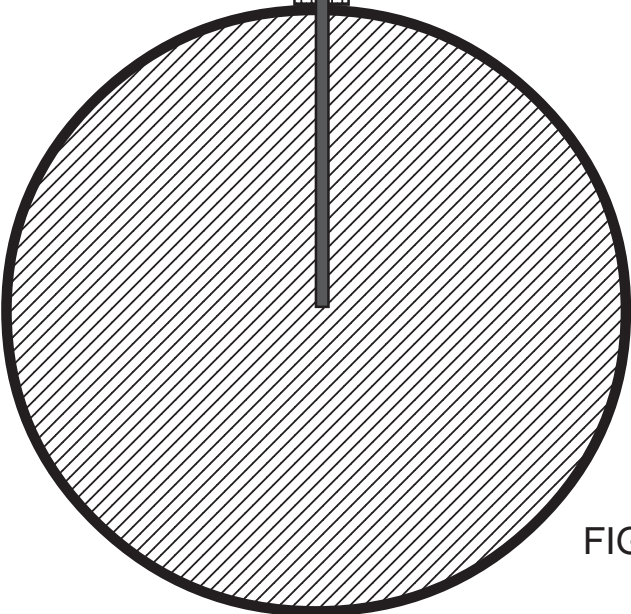
Install Thermocouple in elbow or tee pointed
down stream



THERMOCOUPLE



COMPRESSION FITTING



PIPE CROSS-SECTION

FIGURE 1