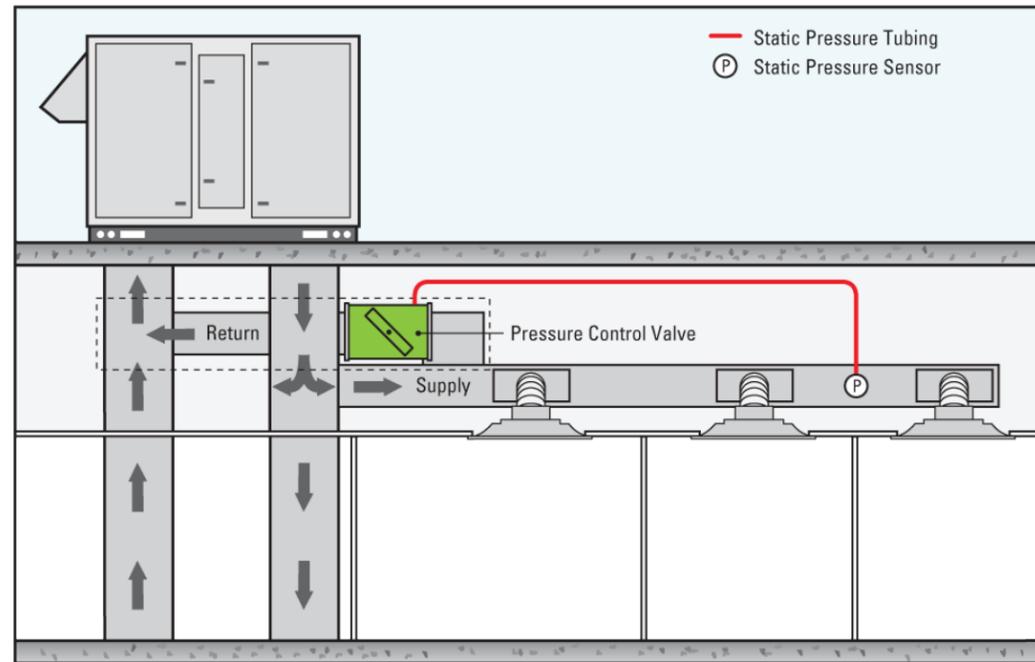# PCV STARTUP GUIDE

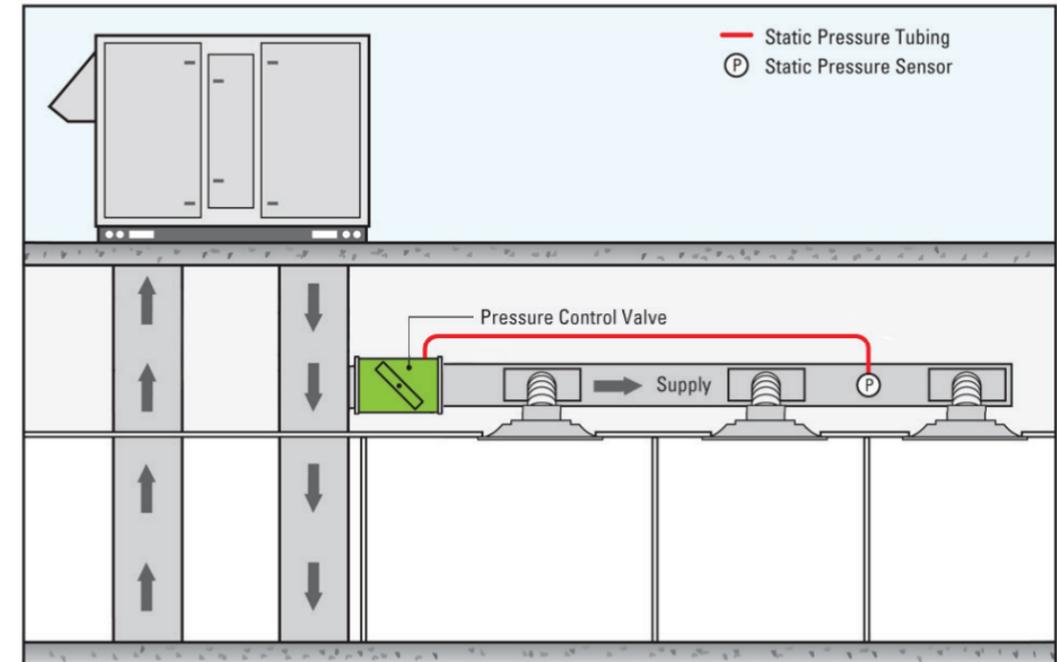The Price Control Valve (PCV) from Price Industries Ltd. consists of the following components:

- RDV Terminal Unit
- PIC controller programmed for pressure control (Part #250000-313)
- Static Pressure Probe (Part #250000-060)

The PCV should be installed on the supply duct running off of the rooftop unit. For bypass applications, the PCV will go in between the supply and return duct (return may be open and return directly to the ceiling plenum). For downstream throttling applications, the PCV should be installed directly in the supply duct, before the first VAV box or VAV diffuser in the branch being served.
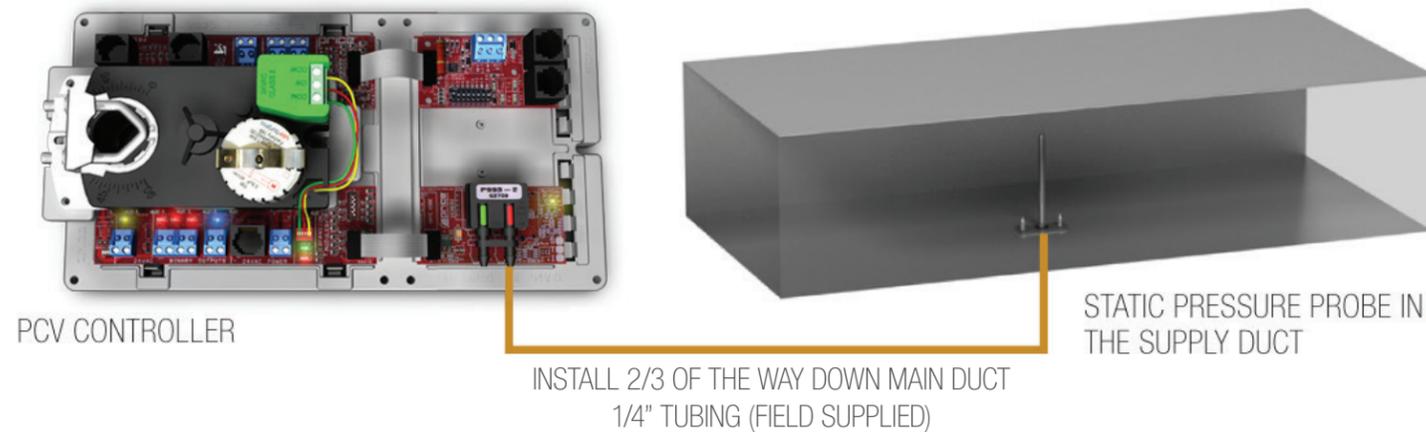
BYPASS APPLICATION (SEQUENCE 1550)

TROTTLING APPLICATION (SEQUENCE 1551)

The static pressure probe must be installed 2/3 of the way down the main supply duct run. Do not mount this directly after the main fan, as the transducer would read a very high static, rather than the average duct pressure. The probe then needs to be connected to the HI port side of the transducer on the PIC board with field provided 1/4" pneumatic tubing. Leave the LO side port of the transducer open to atmosphere.

STATIC PRESSURE PROBE MOUNT EXAMPLE

PCV CONTROLLER

INSTALL 2/3 OF THE WAY DOWN MAIN DUCT
1/4" TUBING (FIELD SUPPLIED)

STATIC PRESSURE PROBE IN THE SUPPLY DUCT

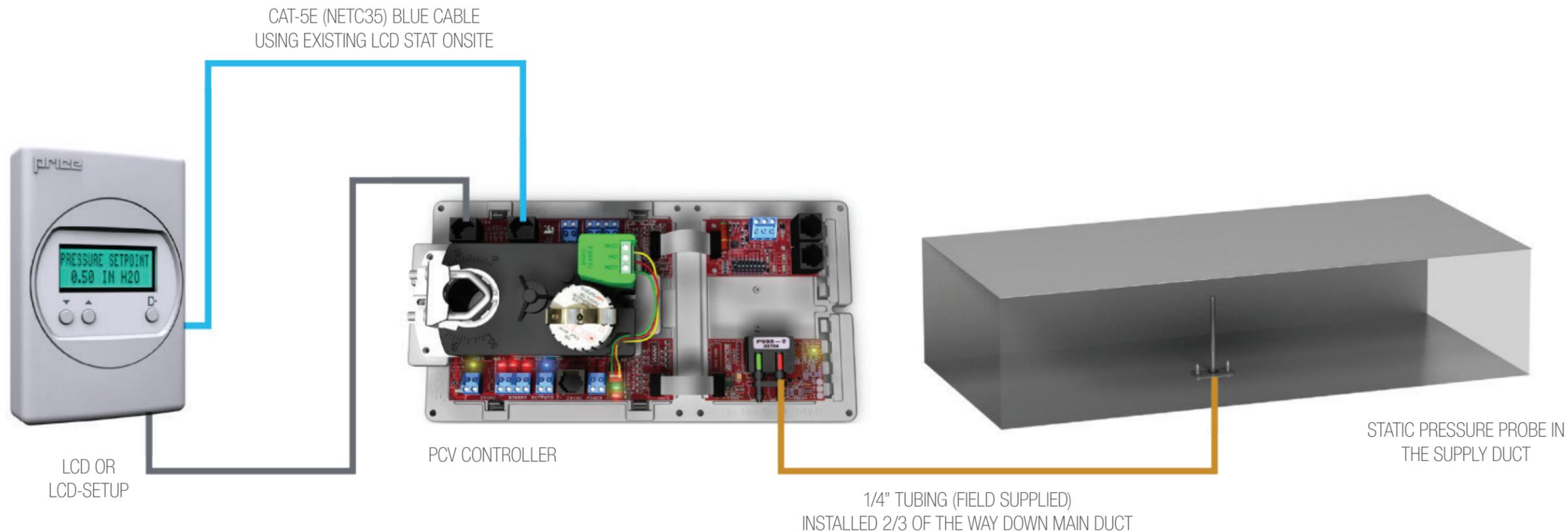**STATIC PRESSURE PROBE CONNECTION EXAMPLE**

Static Pressure Probe connected to **HI Side** of transducer. LO side left open to atmosphere.

PCV STARTUP GUIDE

The Balancer will require an LCD-SETUP Tool to set the static pressure setpoint on the PCV controller, and to change any parameters if needed. To connect the LCD-SETUP Tool, the balancer must connect to the PIC controller on the bypass terminal in the ceiling, using the Service Port.

LCD CONNECTION EXAMPLE

NOTE: The PCV does not come with an LCD thermostat, so the LCD SET-UP Tool is required. If an LCD-SETUP Tool was not ordered for the job, an existing LCD stat from a zone controller can be used as well; you just require a CAT-5E (NETC35) cable to connect the thermostat to the controller.

CAT-5E (NETC35) BLUE CABLE
USING EXISTING LCD STAT ONSITE

PRESSURE SETPOINT
0.50 IN H20

LCD OR
LCD-SETUP

PCV CONTROLLER

1/4" TUBING (FIELD SUPPLIED)
INSTALLED 2/3 OF THE WAY DOWN MAIN DUCT

STATIC PRESSURE PROBE IN
THE SUPPLY DUCT

ADJUST PRESSURE SETPOINT

5 SECONDS THEN

SERVICE MENU:
APPLICATION

SERVICE MENU:
P/C SETUP   THEN

1. Hold down the **Menu** button on the LCD Thermostat for **5 seconds** until prompted for a passcode; use ▲ and ▼ to enter the passcode; **DOWN, UP, UP, DOWN**.

2. The screen will now display "Service Menu: Application."

3. Scroll down to the P/C Setup (Pressure Controller Setup) sub-menu.

4. Press the **Menu** button to enter this menu.

ADJUST PRESSURE SETPOINT CONTINUED

VENT PRESSURE
0.150 IN H20   THEN

PRESSURE SETPOINT
0.150 IN H20   THEN

5. Screen will now show "Vent Pressure." This is the current vent pressure. Press **DOWN** with the arrow key.

6. The screen will display the current "Pressure Setpoint". Press the **Menu** button on the LCD Thermostat and the setpoint will begin flashing; this means you can now scroll **UP** or **DOWN** with the arrow keys to select a new pressure setpoint.