

Installation Guide

Mounting

The RCC-1000 Series models are light-weight and suitable for in-line mounting without a bracket. The RCC-1100 Series models include a right-angle bracket for surface mounting. RCC-1000/1100 relays are not position sensitive.

Connection and Calibration

All Models

- All port connections use 1/4" OD polyethylene tubing.
- Use only clean, dry control air. No attempt should be made to use any other medium.

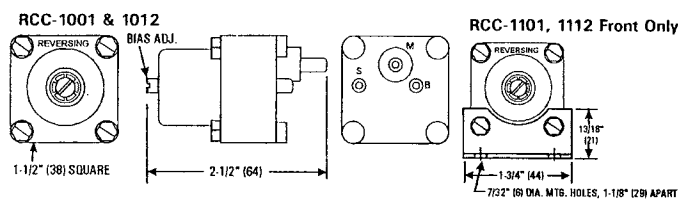
RCC-1001/1101/1012/1112 Reversing

Connection:

1. Connect Main air to Port M, 20 psi (30 psi maximum).
2. Connect Output to Port B.
3. Connect Input to Port S.

Calibration:

1. Connect an accurate gauge to Port B.
2. Apply main air pressure to Port M.
3. Apply the desired cross-over pressure input signal (9 psi for RCC-1001/1101 and 8 psi for RCC-1012/1112) to Port S.
4. Adjust until the desired cross-over pressure output signal is reached (9 psi for RCC-1001/1101 and 8 psi for RCC-1012/1112).
5. Check the pressures and readjust as necessary.



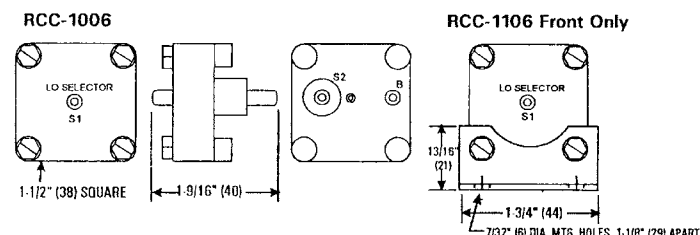
Main air is Port M, output is Port B, input is Port S.

RCC-1006/1106 Low Pressure Selecting

1. Connect Output (the lower of the two input pressures) to Port B.
2. Connect Input 1 to Port S1.
3. Connect Input 2 to Port S2.

NOTE: Be careful when applying "one-pipe" restricted signals to S2 since the relay's output is derived from the air applied to S2.

No calibration is required.



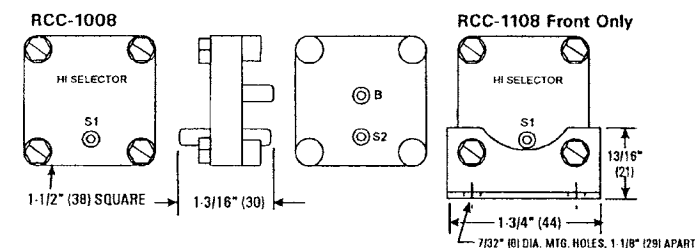
The output, Port B, is the lower of the two input pressures applied to Ports S1 and S2. Take CARE when applying "one-pipe" restricted signals to S2 since the relay's output is derived from the air applied to S2.

RCC-1008/1108 High Pressure Selecting

1. Connect Output (the higher of the two input pressures) to Port B.
2. Connect Input 1 to Port S1.
3. Connect Input 2 to Port S2.

NOTE: The signals applied to Ports S1 and S2 must come from relieving type devices. Do NOT supply from NO or NC ports of diverting relays or solenoid air valves.

No calibration is required.

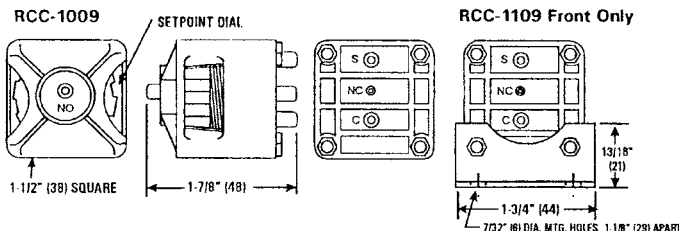


No adjustments need to be made. The design allows for positive switching between signals, and the non-transmitted signal is internally blocked. The signals applied to Ports S1 and S2 must come from "relieving" type devices. Do NOT supply from NO or NC ports of diverting relays or solenoid air valves.

RCC-1009/1109 Switching/Diverting

Each unit is factory set to switch between 18 and 23 psi. This allows the unit to match most two-pressure main air systems. This device is not “snap-acting” (it must receive a positive pressure change at its signal port to switch).

1. Apply air pressure to Port C.
2. Apply the lower switching signal to Port S.
3. With an accurate pressure gauge, check that the pressure at Port NO is equal to the pressure at Port C. If not, adjust the setpoint dial until the pressures are equal and no pressure is detected at Port NC.
4. Apply the higher switching pressure to Port S.
5. Check that the pressure at Port NC is equal to the pressure at Port C. If not, adjust the setpoint dial until the pressures are equal and no pressure is detected at Port NO.

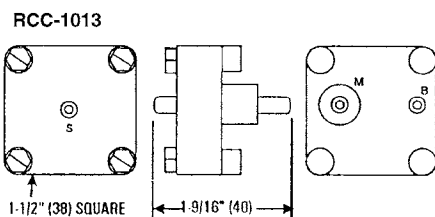


The setpoint dial can be rotated within the body to adjust the switching point. One turn yields approximately 6 psi change in the switching point. Each unit is factory-set to switch between 18 and 23 psi, which allows it to match most two-pressure main air systems. This device is not “snap-acting” (it must receive a positive pressure change at its signal port to switch).

RCC-1013 Repeating

1. Apply main air pressure to Port M.
2. Connect Output to Port B.
3. Connect Input to Port S.

No calibration is required.



Main air is Port M and output is Port B. The input signal to be repeated is connected to Port S.

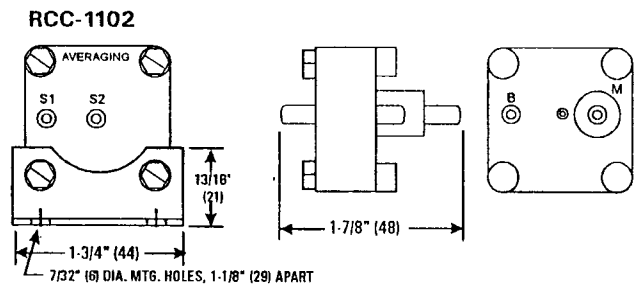
⚠ CAUTION

Pneumatic devices must be supplied with clean, dry control air. Any other medium (e.g., oil or moisture contamination) will cause the device to fail.

RCC-1102 Averaging

1. Connect Main air to Port M, 20 psi with 30 psi maximum.
2. Connect Output to Port B.
3. Connect the inputs for averaging to Port S1 and S2.

No calibration is required.



Main air is Port M and output is Port B. Inputs to be averaged are applied to S1 and S2.

Accessories

HMO-4511

Replacement mounting bracket

Maintenance

No routine maintenance is required. Each component is designed for dependable, long-term reliability, and performance. Careful installation will also ensure long-term reliability and performance.

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