

Description

RCC-1001/1012/1101/1112 Reversing Relays (pilot capacity) are designed for reversing a proportional signal from a controlling device. Factory adjusted to decrease branch line pressure as the input pressure increases. Comes with a bias adjustment and two factory calibration points (8 and 9 psi).

RCC-1006/1106 Low Pressure Selector Relays are designed to control a final device based on the lower of two pneumatic input signals.

RCC-1008/1108 High Pressure Selector Relays are designed to select the greater of two pneumatic signals as the control signal for a final device. These signals must be supplied by “relieving” type devices such as thermostats and receiver-controllers.

RCC-1009/1109 Adjustable Diverting/Switching Relays are SPDT devices. They divert one signal to either of two branch circuits **or** select one of two inputs and transmit it to another control device. They can also be used to feed or exhaust a circuit.

RCC-1013 Signal Repeating Relay amplifies a pressure signal. It is most typically used for Trane VAV boxes with CSC-2000 series reset volume controllers.

RCC-1102 Averaging Relay is designed for applications that do not require large amounts of output air volume. Suitable for room or zone applications such as VAV terminals. Use where the output signal to the controlled device must be the average of two source signals.

Accessories

HMO-4511 Replacement mounting bracket

▲ 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.



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Models

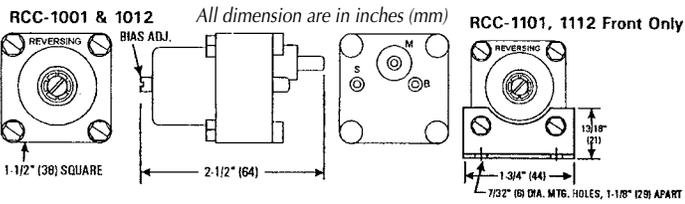
Without Mounting Bracket

RCC-1001	Reversing, 9 psi calibration
RCC-1006	Low pressure selector
RCC-1008	High pressure selector
RCC-1009	Diverting/switching, SPDT
RCC-1012	Reversing, 8 psi calibration
RCC-1013	Signal repeating

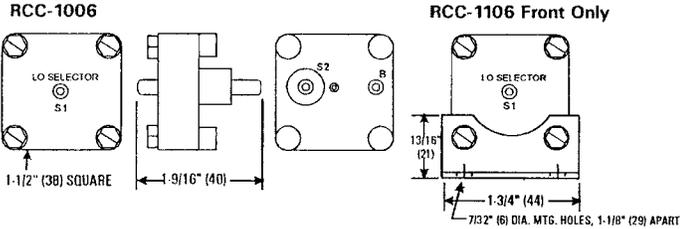
Includes Mounting Bracket

RCC-1101	Reversing, 9 psi calibration
RCC-1102	Averaging
RCC-1106	Low pressure selector
RCC-1108	High pressure selector
RCC-1109	Diverting/switching, SPDT
RCC-1112	Reversing, 8 psi calibration

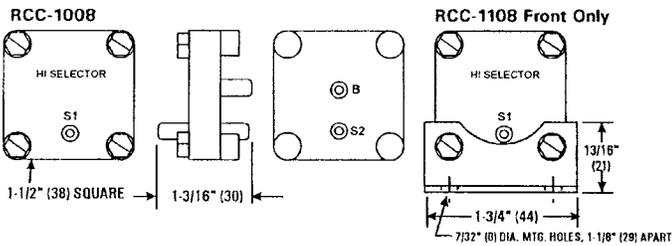
Details



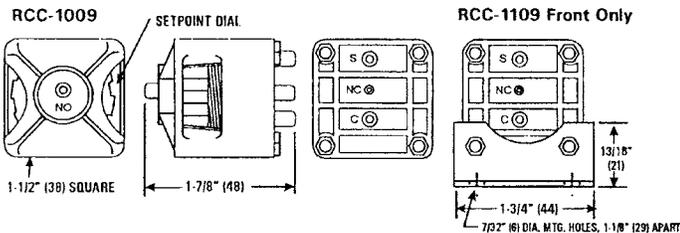
Main air is Port M, output is Port B, input is Port S.



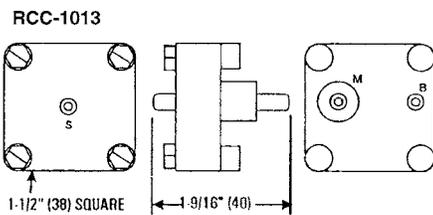
The output, Port B, is the lower of the two input pressures applied to Ports S1 and S2. Take CARE when applying "one-pipe" restricted signals to S2 since the relay's output is derived from the air applied to S2.



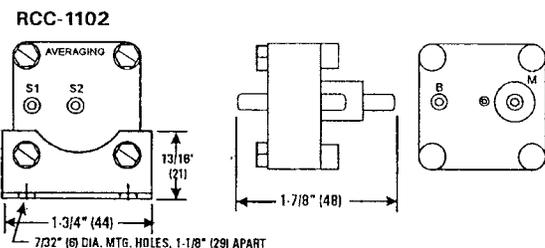
No adjustments need to be made. The design allows for positive switching between signals, and the non-transmitted signal is internally blocked. The signals applied to Ports S1 and S2 must come from "relieving" type devices. DO NOT supply from NO or NC ports of diverting relays or solenoid air valves.



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).



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



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

Specifications

Supply Pressure

0–20 psi (138 kPa) operating
30 psi (207 kPa) maximum

Air Capacity

RCC-1001/1012/1101/1112	17.3 scim (4.7 mL/s) @ 20 psi (138 kPa)
RCC-1006/1106	21.6 scim (5.9 mL/s) @ 20 psi (138 kPa)
RCC-1009/1109	432 scim (117.9 mL/s) @ 20 psi (138 kPa)
RCC-1008/1108	260 scim (70.6 mL/s) @ 5 psi (34.5 kPa) pressure drop

Air Consumption

RCC-1001/1012/ 1101/1112	17.3 scim (4.7 mL/s)
RCC-1006/1106	0–21.6 scim (5.9 mL/s) on Port S2
RCC-1008/1108/1009/1109	None
RCC-1013	14.4 scim (3.9 mL/s)
RCC-1102	17.3 scim (4.7 mL/s) on Main, 0 on Signal

Bias Adjustment

RCC-1001/1012/1101/1112 +/-15 psi (103 kPa)

Switching and Setpoint (RCC-1009/1109 Only)

Factory Setpoint	18–23 psi (124–159 kPa)
Setpoint Range	3–23 psi (21–159 kPa)
Switching Differential	5 psi (34 kPa)
Action	C and NO connected below setpoint, C and NC connected above setpoint

Supply Connection 3/16" (5 mm) for 1/4" (6 mm) O.D. polyethylene tubing

Weight

2.5 oz. (71 grams) maximum

Material

RCC-1009/1109 are glass-filled nylon, all other models are beige flame-retardant plastic

Temperature Limits

Operating	40 to 120° F (4 to 49° C)
Shipping	–40 to 140° F (–40 to 60° C)

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