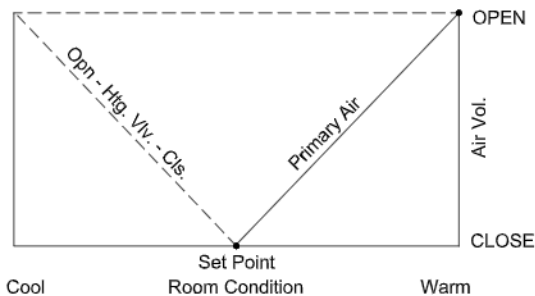


NOTE:
IF MOTOR SPRING RANGE IS TO BE OTHER THAN 5-10 PSI, PLEASE SPECIFY.
OPTIONAL SPRING RANGES MAY BE REQUIRED TO ACCOMMODATE THE THERMOSTAT RANGE AND TO SEQUENCE WITH ANY OTHER CONTROLLED DEVICES IN THE SYSTEM.

LEGEND

- FACTORY PNEUMATIC TUBING
- FIELD PNEUMATIC TUBING

CONTROL GRAPH



Sequence of Operation -- Pressure dependent, variable volume, normally closed, direct acting cooling application.

An increase in space temperature increases the thermostat output pressure. As the thermostat output increases from 5-10 psi or more, the VAV box damper is driven to the open position.

A decrease in space temperature decreases the thermostat output pressure. As the thermostat output decreases from to 10-5 psi or less, the VAV box damper is driven to the closed position.

Normally Closed Damper:

On failure of the main air supply the damper will fail to the closed position.

PROJECT:



ENGINEER:

BTG/BC

CUSTOMER:

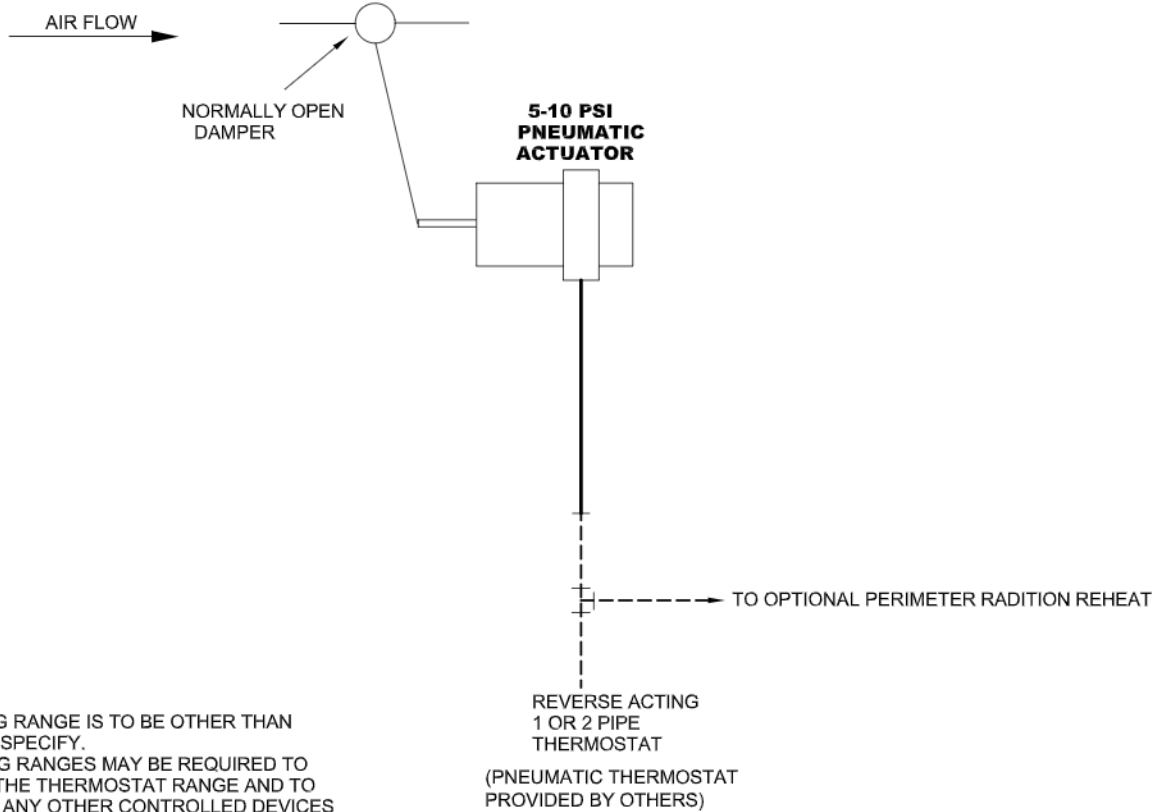
231683

SUBMITTAL DATE:

SPEC. SYMBOL:

2011/11/07

SPV6 / RPV6 / LPV6
5-10 PSI Actuator
Cooling, Reheat Optional
Variable Volume
Pressure dependent
D.A. T'Stat, N.C. Damper



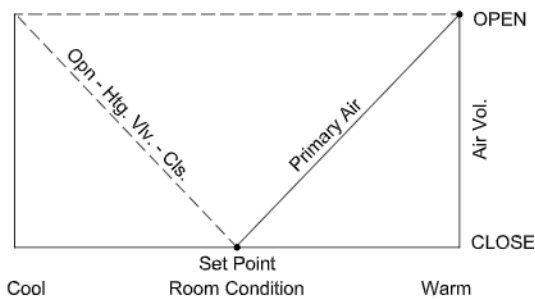
NOTE:

IF MOTOR SPRING RANGE IS TO BE OTHER THAN 5-10 PSI, PLEASE SPECIFY.
OPTIONAL SPRING RANGES MAY BE REQUIRED TO ACCOMMODATE THE THERMOSTAT RANGE AND TO SEQUENCE WITH ANY OTHER CONTROLLED DEVICES IN THE SYSTEM.

LEGEND

- FACTORY PNEUMATIC TUBING
- - - - - FIELD PNEUMATIC TUBING

CONTROL GRAPH



Sequence of Operation -- Pressure dependent, variable volume, normally open, reverse acting cooling application.

An increase in space temperature decreases the thermostat output pressure. As the thermostat output decreases from 10-5 psi or less, the VAV box damper is driven to the open position.

A decrease in space temperature increases the thermostat output pressure. As the thermostat output increases from to 5-10 psi or more, the VAV box damper is driven to the closed position.

Normally Open Damper:

On failure of the main air supply the damper will fail to the open position.

PROJECT:



ENGINEER:

BTG/BC

CUSTOMER:

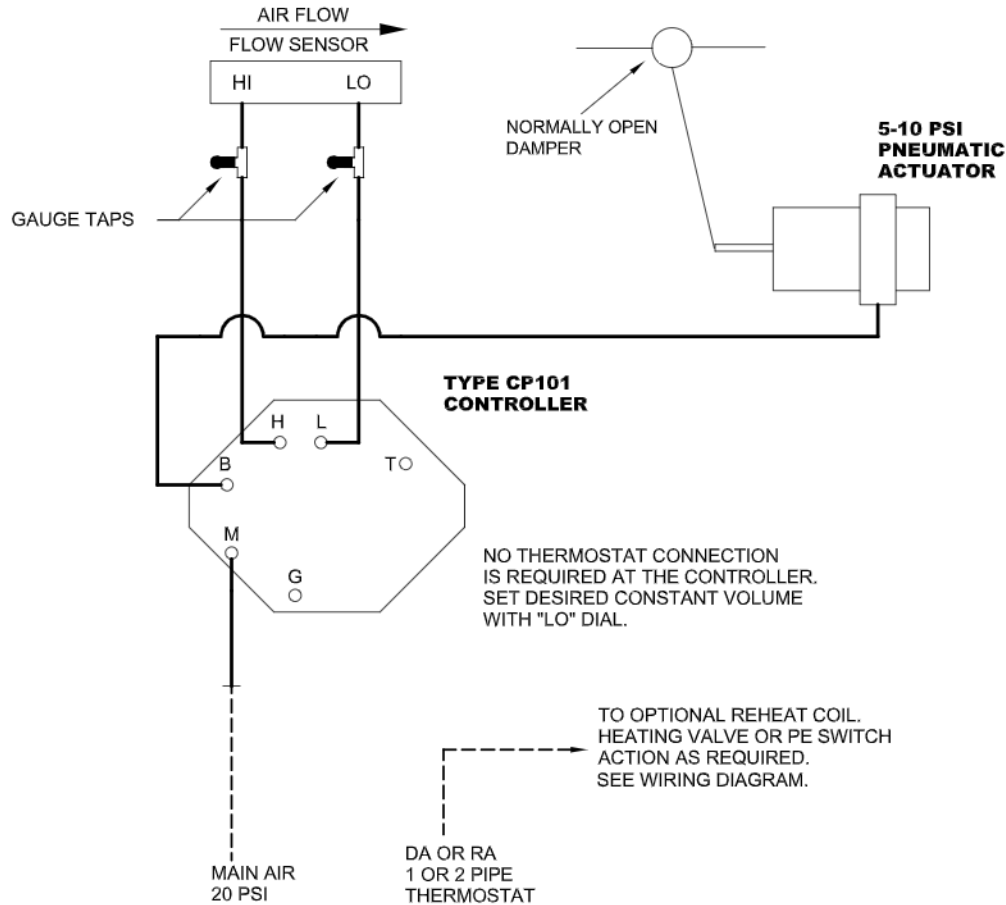
231684

SUBMITTAL DATE:

SPEC. SYMBOL:

2011/11/07

SPV6 / RPV6 / LPV6
5-10 PSI Actuator
Cooling, Reheat Optional
Variable Volume
Pressure dependent
R.A. T'Stat, N.O. Damper



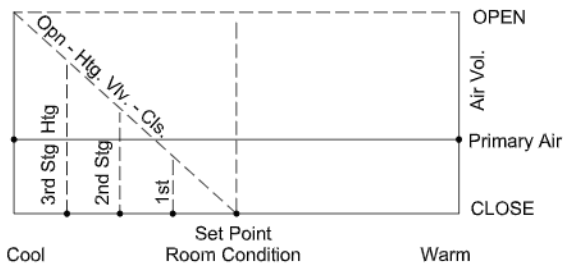
NOTE:

1) TOTAL AIR CONSUMPTION 0.017 SCFM.

LEGEND

- FACTORY PNEUMATIC TUBING
- FIELD PNEUMATIC TUBING

CONTROL GRAPH



Sequence of Operation -- Pressure independent, constant volume, normally open, direct acting cooling with optional reheat.

The controller will maintain the preselected flow setting. It will modulate the damper based on changes in the duct pressure to maintain a constant air flow.

The thermostat may control optional reheat coils.

Normally Open Damper:

On failure of the main air supply the damper will fail to the open position.

PROJECT:



ENGINEER:

BJH/BC

CUSTOMER:

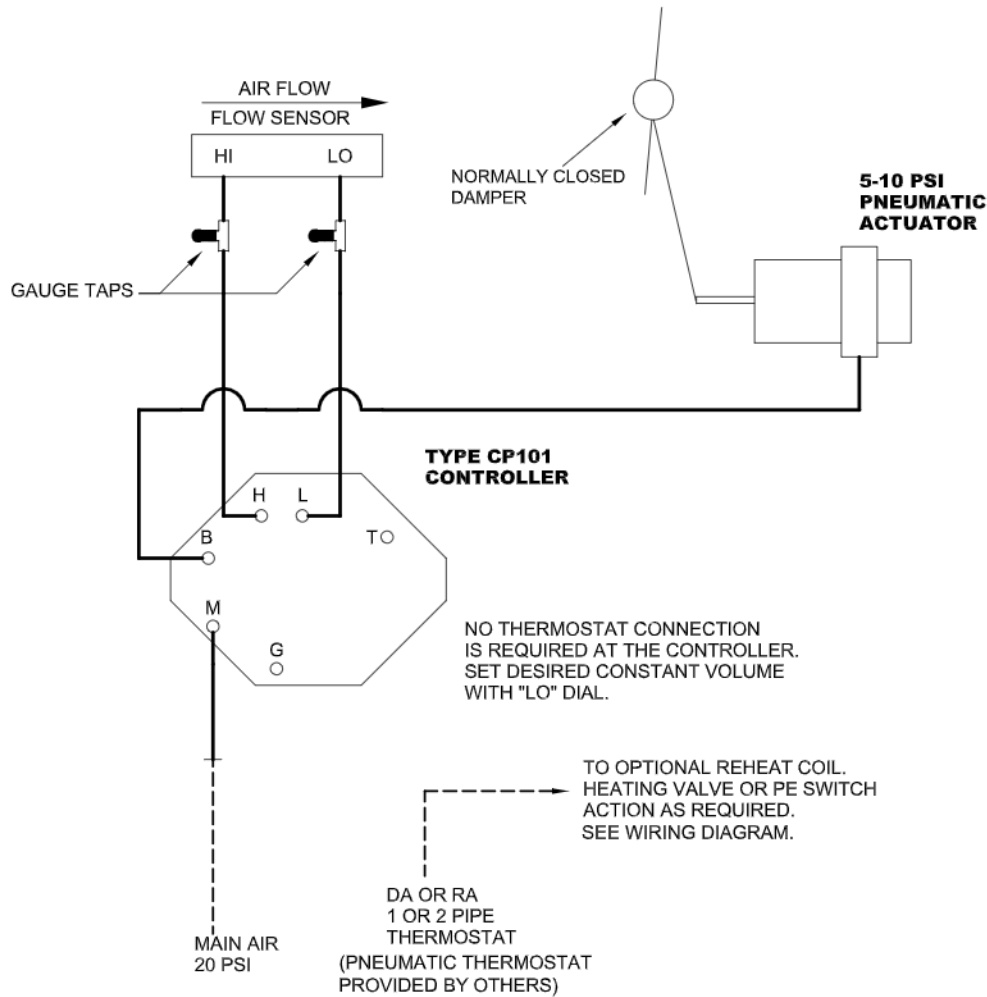
231687

SUBMITTAL DATE:

SPEC. SYMBOL:

2011/11/07

SPV8 / RPV8 / LPV8
Kreuter CP101
Clg., Reheat Optional
Constant Volume
Pressure Independent
D.A. Controller, N.O. Damper



NOTE:

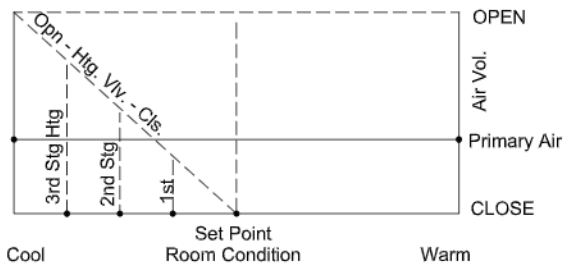
1) TOTAL AIR CONSUMPTION 0.017 SCFM.

LEGEND

———— FACTORY PNEUMATIC TUBING

----- FIELD PNEUMATIC TUBING

CONTROL GRAPH



Sequence of Operation -- Pressure independent, constant volume, normally closed, direct acting cooling with optional reheat.

The controller will maintain the preselected flow setting. It will modulate the damper based on changes in the duct pressure to maintain a constant air flow.

The thermostat may control optional reheat coils.

Normally Closed Damper:

On failure of the main air supply the damper will fail to the closed position.

PROJECT:



ENGINEER:

BTG/BC

CUSTOMER:

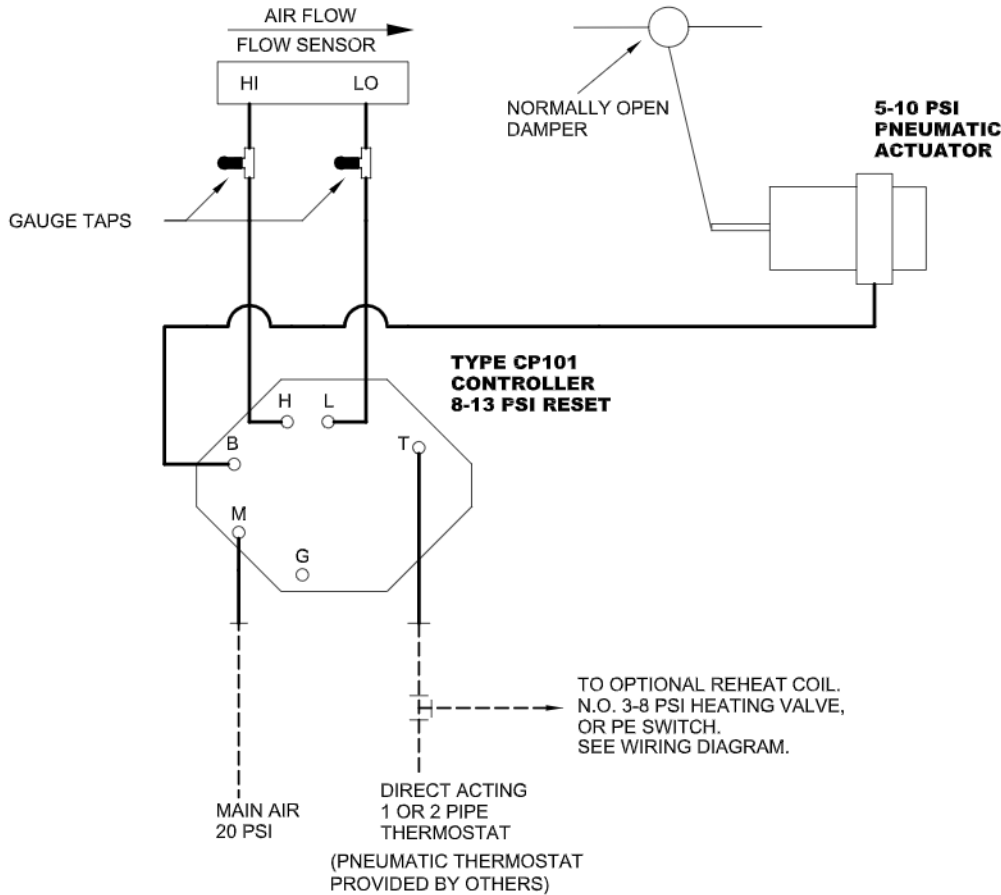
231688

SUBMITTAL DATE:

SPEC. SYMBOL:

2011/11/07

SPV8 / RPV8 / LPV8
Kreuter CP101
Clg., HW Reheat Optional
Constant Volume
Pressure Independent
D.A. Controller, N.C. Damper



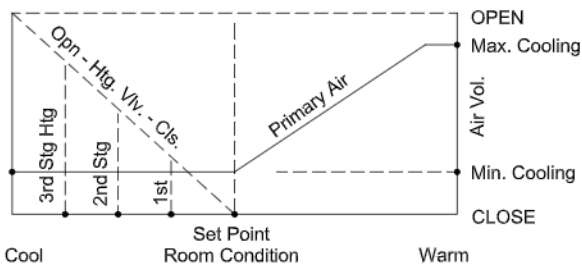
NOTE:

1) TOTAL AIR CONSUMPTION 0.017 SCFM.

LEGEND

- FACTORY PNEUMATIC TUBING
- - - - - FIELD PNEUMATIC TUBING

CONTROL GRAPH



Sequence of Operation -- Pressure independent, variable volume, normally open, direct acting cooling application, with optional reheat.

An increase in space temperature increases the thermostat output pressure. When the thermostat output increases to 13 psi or more, the VAV box damper is maintained at the preselected maximum flow setting. A decrease in space temperature decreases the thermostat output pressure. When the thermostat output decreases to 8 psi or less, the VAV damper modulates between minimum & maximum flow. At thermostat output pressures between 8 & 13 psi the VAV damper modulates between minimum & maximum flow. At thermostat output pressures below 8 psi the minimum flow setting is maintained, and the thermostat may control optional reheat coils. Airflow is held constant at any given thermostat output pressure regardless of changes in inlet duct static pressure.

Normally Open Damper:

On failure of the main air supply the damper will fail to the open position.

PROJECT:



ENGINEER:

BTH/BC

CUSTOMER:

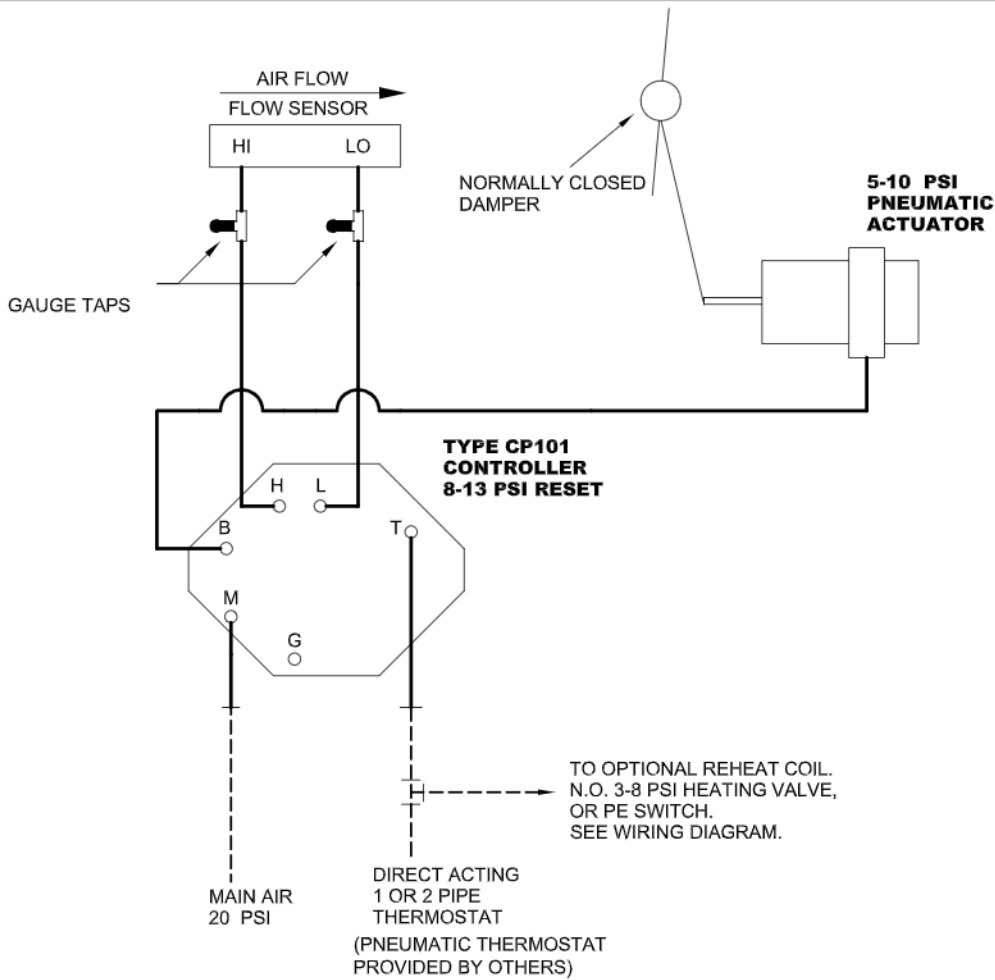
231691

SUBMITTAL DATE:

SPEC. SYMBOL:

2011/11/07

SPV8 / RPV8 / LPV8
Kreuter CP101
Clg., Reheat Optional
Variable Volume
Pressure Independent
D.A. T'Stat, N.O. Damper



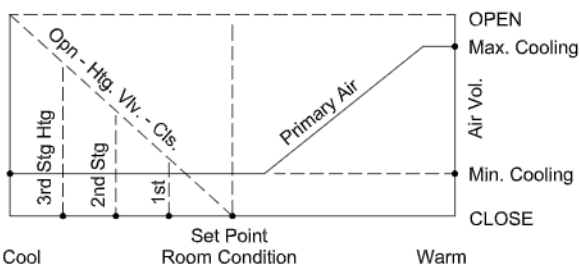
NOTE:

1) TOTAL AIR CONSUMPTION 0.017 SCFM.

LEGEND

- FACTORY PNEUMATIC TUBING
- - - - - FIELD PNEUMATIC TUBING

CONTROL GRAPH



Sequence of Operation -- Pressure independent, variable volume, normally closed, direct acting cooling application, with optional reheat.

An increase in space temperature increases the thermostat output pressure. When the thermostat output increases to 13 psi or more, the VAV box damper is maintained at the preselected maximum flow setting. A decrease in space temperature decreases the thermostat output pressure. When the thermostat output decreases to 8 psi or less, the VAV box damper is maintained at the preselected minimum flow setting. At thermostat output pressures between 8 & 13 psi the VAV damper modulates between minimum & maximum flow. At thermostat output pressures below 8 psi the minimum flow setting is maintained, and the thermostat may control optional reheat coils. Airflow is held constant at any given thermostat output pressure regardless of changes in inlet duct static pressure.

Normally Closed Damper:

On failure of the main air supply the damper will fail to the closed position.

PROJECT:



ENGINEER:

BTG/BC

CUSTOMER:

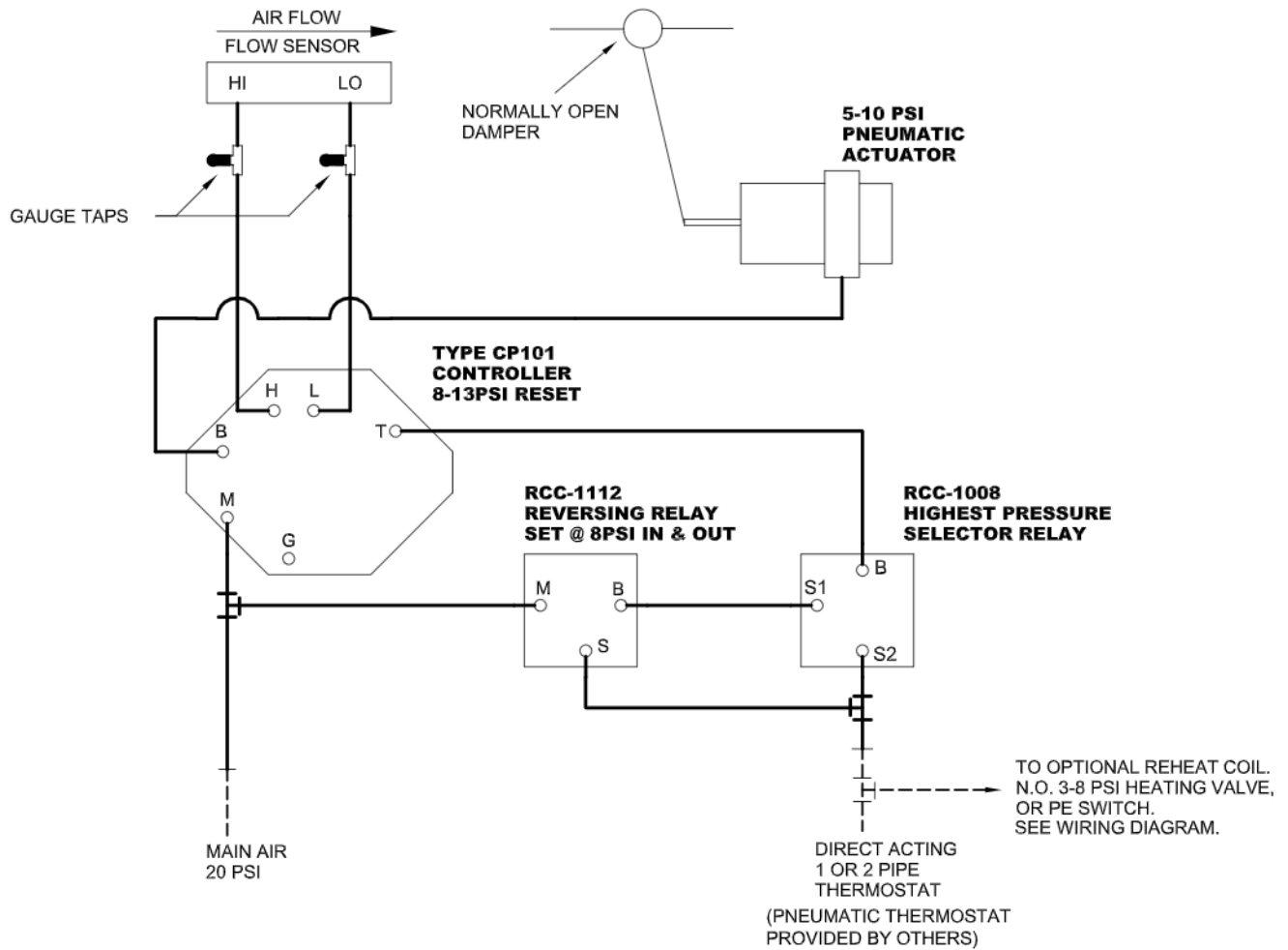
231692

SUBMITTAL DATE:

SPEC. SYMBOL:

2011/11/07

SPV8 / RPV8 / LPV8
Kreuter CP101
Clg., Reheat Optional
Variable Volume
Pressure Independent
D.A. T'Stat, N.C. Damper



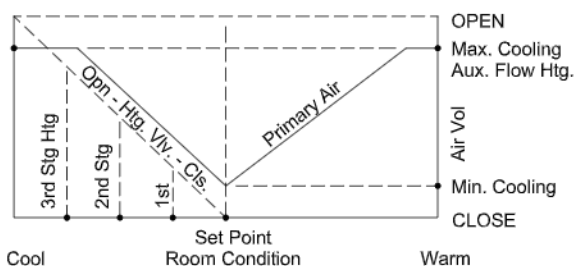
NOTE:

1) TOTAL AIR CONSUMPTION 0.027 SCFM.

LEGEND

- FACTORY PNEUMATIC TUBING
- - - - - FIELD PNEUMATIC TUBING

CONTROL GRAPH



Sequence of Operation -- Pressure independent, variable volume, normally open, direct acting cooling with auxiliary flow on heating.

An increase in space temperature increases the thermostat output pressure. When the thermostat output increases to 13 psi or more, the VAV box damper is maintained at the pre-selected maximum flow setting. A decrease in space temperature decreases the thermostat output pressure. When the thermostat output decreases to 8 psi, the VAV box damper is maintained at the pre-selected minimum flow setting. As thermostat output pressure continues to decrease between 8 & 3 psi the VAV damper modulates to the auxiliary flow setting. At thermostat output pressures below 8 psi the thermostat may also control optional reheat coils. Airflow is held constant at any given thermostat output pressure regardless of changes in inlet duct static pressure.

Normally Open Damper:

On failure of the main air supply the damper will fail to the open position.

PROJECT:



ENGINEER:

BTG/BC

CUSTOMER:

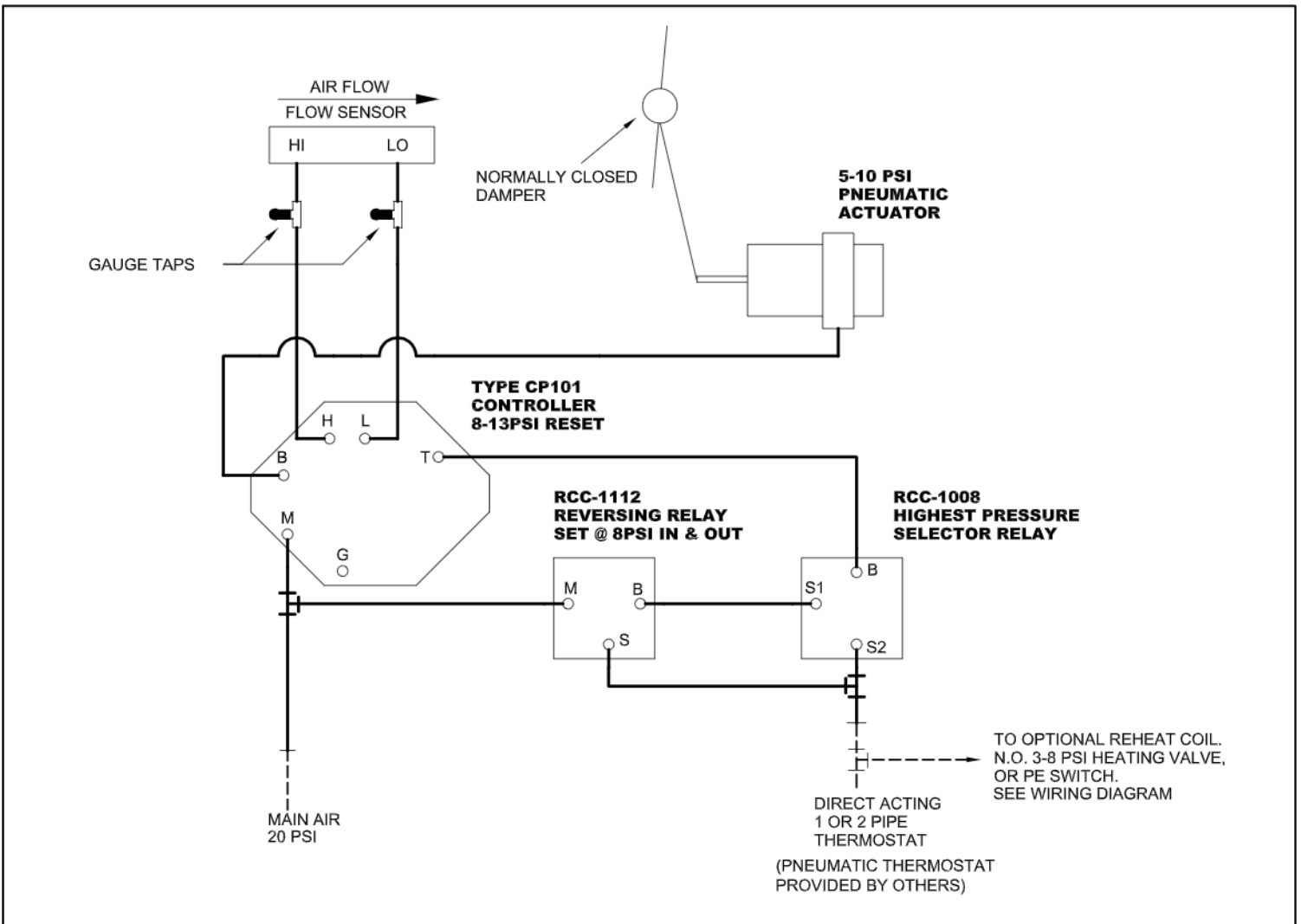
231693

SUBMITTAL DATE:

SPEC. SYMBOL:

2011/11/07

SPV8 / RPV8 / LPV8
Kreuter CP101
Clg., Reheat Optional
Var. Vol. Clg. - Aux. Flow Htg.
Pressure Independent
D.A. T'Stat, N.O. Damper



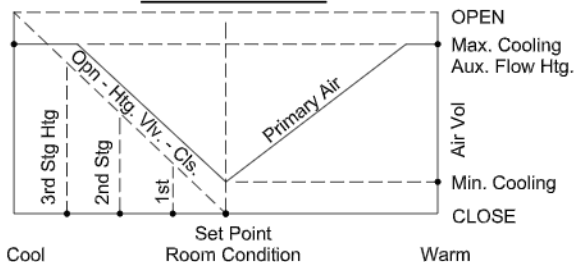
NOTE:

1) TOTAL AIR CONSUMPTION 0.027 SCFM.

LEGEND

- FACTORY PNEUMATIC TUBING
- - - - - FIELD PNEUMATIC TUBING

CONTROL GRAPH



Sequence of Operation -- Pressure independent, variable volume, normally closed, direct acting cooling with auxiliary flow on heating.

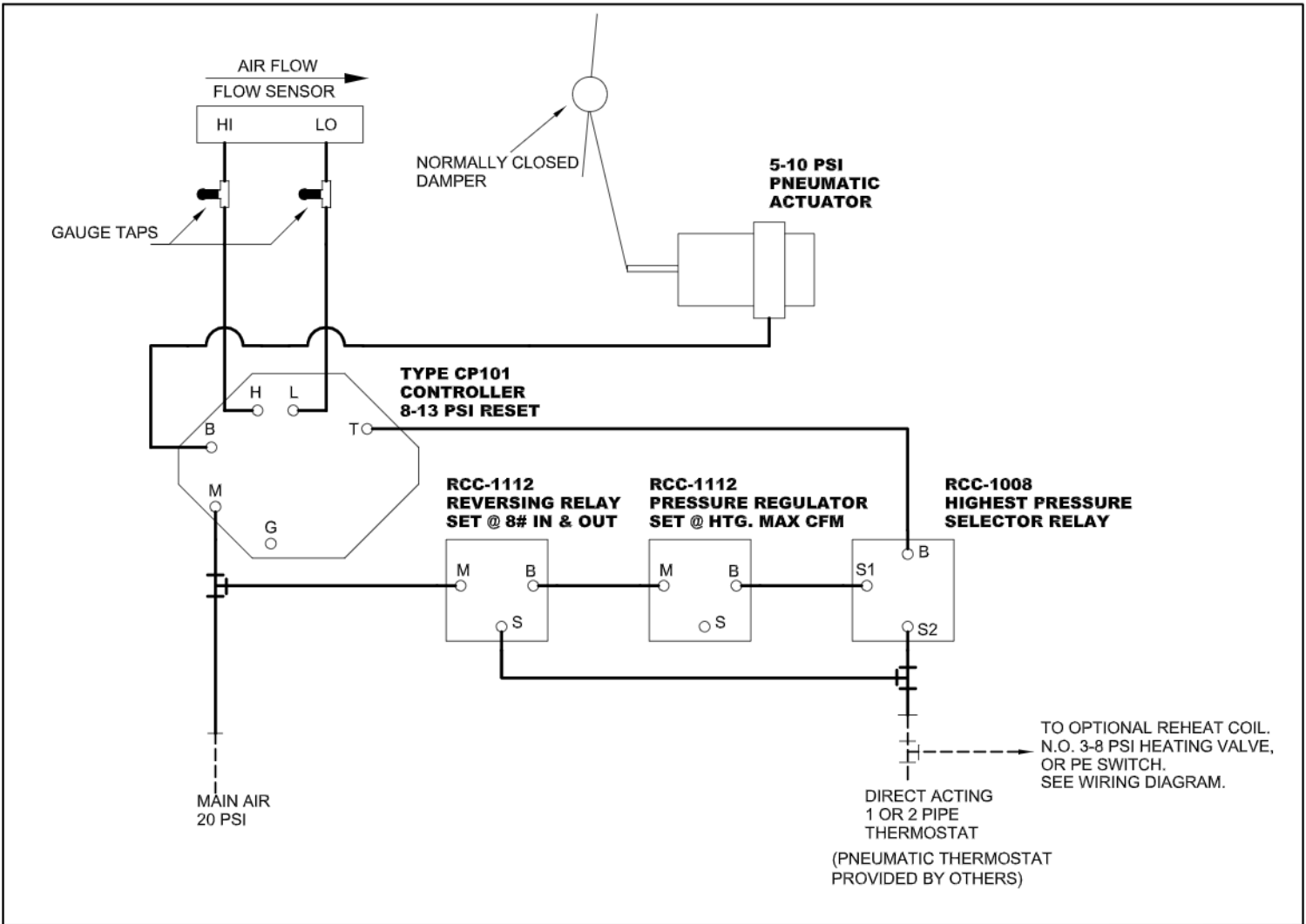
An increase in space temperature increases the thermostat output pressure. When the thermostat output increases to 13 psi or more, the VAV box damper is maintained at the pre-selected maximum flow setting. A decrease in space temperature decreases the thermostat output pressure. When the thermostat output decreases to 8 psi, the VAV box damper is maintained at the pre-selected minimum flow setting. As thermostat output pressure continues to decrease between 8 & 3 psi the VAV damper modulates to the auxiliary heating flow setting. At thermostat output pressures below 8 psi the thermostat may also control optional reheat coils. Airflow is held constant at any given thermostat output pressure regardless of changes in inlet duct static pressure.

Normally Closed Damper:

On failure of the main air supply the damper will fail to the closed position.

PROJECT:		PRICE [®]
ENGINEER:		
CUSTOMER:		231694
SUBMITTAL DATE:	SPEC. SYMBOL:	2011/11/07

SPV8 / RPV8 / LPV8
Kreuter CP101
Clg., Reheat Optional
Var. Vol. Clg. - Aux. Flow Htg.
Pressure Independent
D.A. T'Stat, N.C. Damper



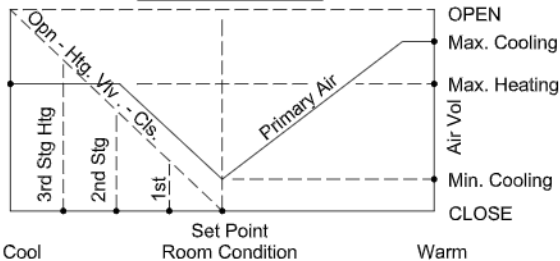
NOTE:

1) TOTAL AIR CONSUMPTION 0.037 SCFM.

LEGEND

- FACTORY PNEUMATIC TUBING
- - - - - FIELD PNEUMATIC TUBING

CONTROL GRAPH



Sequence of Operation -- Pressure independent, variable volume, normally closed, direct acting dual max cooling and heating application.

An increase in space temperature increases the thermostat output pressure. When the thermostat output increases to 13 psi or more, the VAV box damper is maintained at the preselected maximum flow setting. A decrease in space temperature decreases the thermostat output pressure. When the thermostat output decreases to 8 psi, the VAV box damper is maintained at the preselected minimum flow setting. As thermostat output pressure continues to decrease between 8 & 3 psi the VAV damper modulates back to the maximum heating flow setting. At thermostat output pressures below 8 psi the thermostat may also control optional reheat coils. Airflow is held constant at any given thermostat output pressure regardless of changes in inlet duct static pressure.

Normally Closed Damper:

On failure of the main air supply the damper will fail to the closed position.

PROJECT:



ENGINEER:

BTH/BL

CUSTOMER:

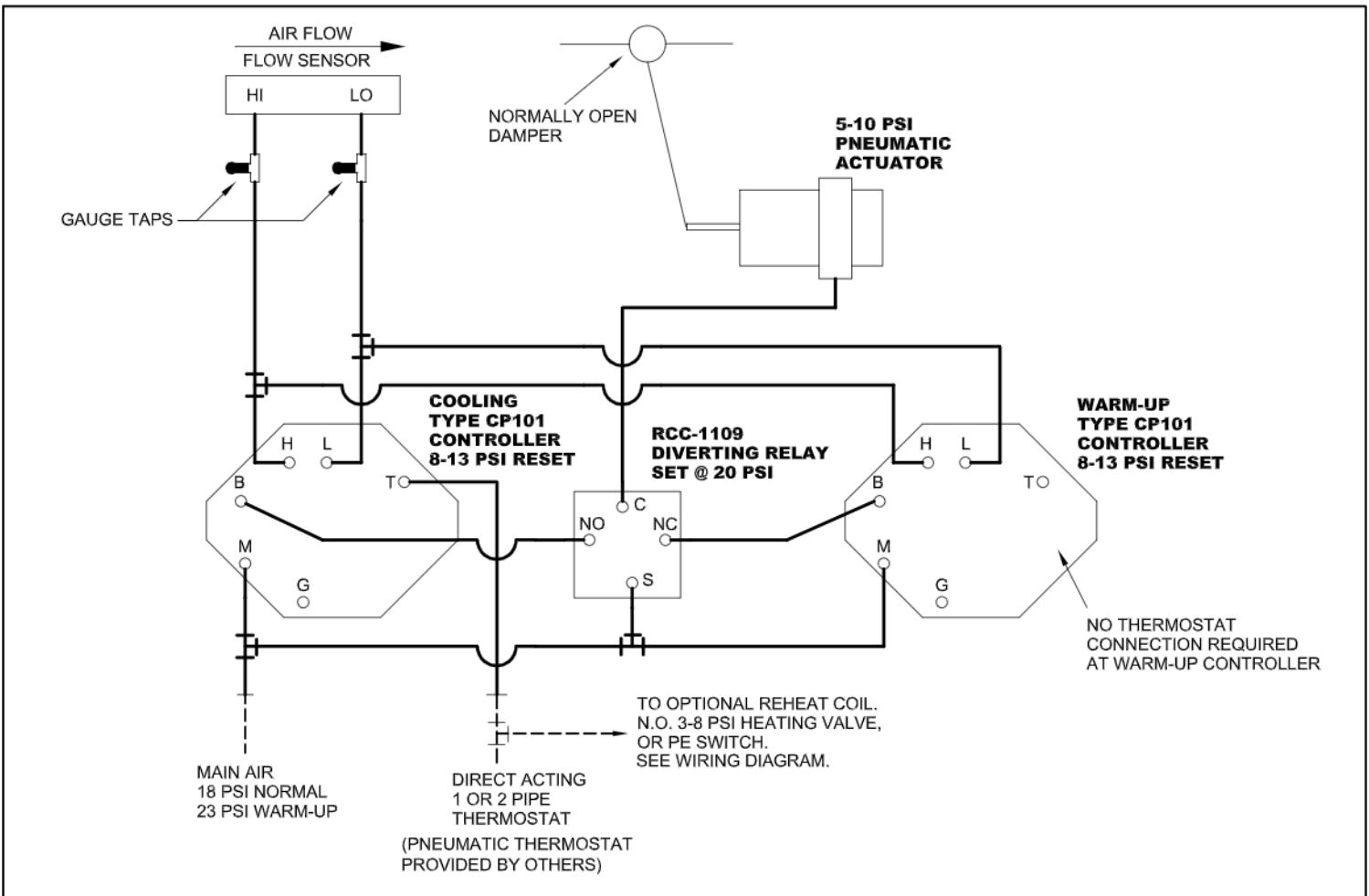
231696

SUBMITTAL DATE:

SPEC. SYMBOL:

2011/11/07

SPV8 / RPV8 / LPV8
Kreuter CP101
Clg., Reheat Optional
Var. Vol. - Dual Max
Pressure Independent
D.A. T'Stat, N.C. Damper



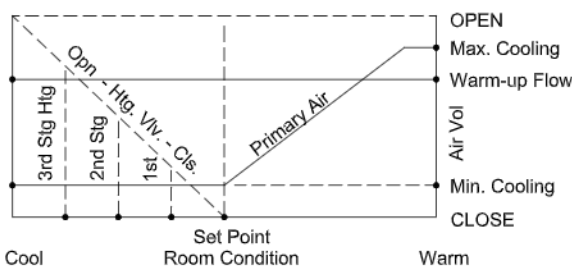
NOTE:

1) TOTAL AIR CONSUMPTION 0.034 SCFM.

LEGEND

- FACTORY PNEUMATIC TUBING
- - - - - FIELD PNEUMATIC TUBING

CONTROL GRAPH



Sequence of Operation -- Pressure independent, variable volume on cooling, normally open, direct acting, adjustable constant volume on warm-up application, and optional reheat.

Normal operation with main air pressure at 18 psi: an increase in space temperature increases the thermostat output pressure. When the thermostat output increases to 13 psi or more, the VAV box damper is maintained at the preselected maximum flow setting.

A decrease in space temperature decreases the thermostat output pressure. When the thermostat output decreases to 8 psi, the VAV box damper is maintained at the preselected minimum flow setting.

As thermostat output pressure continues to decrease between 8 & 3 psi, the VAV damper is maintained at the preselected minimum setting.

At thermostat output pressures below 8 p.s.i. the thermostat may also control optional reheat coils.

Warm-up with main air pressure at 23 psi: the VAV damper is opened to the preselected warm-up flow setting. Optional reheat coils operate in the normal manner.

Airflow is held constant at any given thermostat output pressure and in the warm-up mode, regardless of changes in inlet duct static pressure.

Normally Open Damper:

On failure of the main air supply the damper will fail to the open position.

PROJECT:

ENGINEER:

CUSTOMER:

SUBMITTAL DATE:

SPEC. SYMBOL:

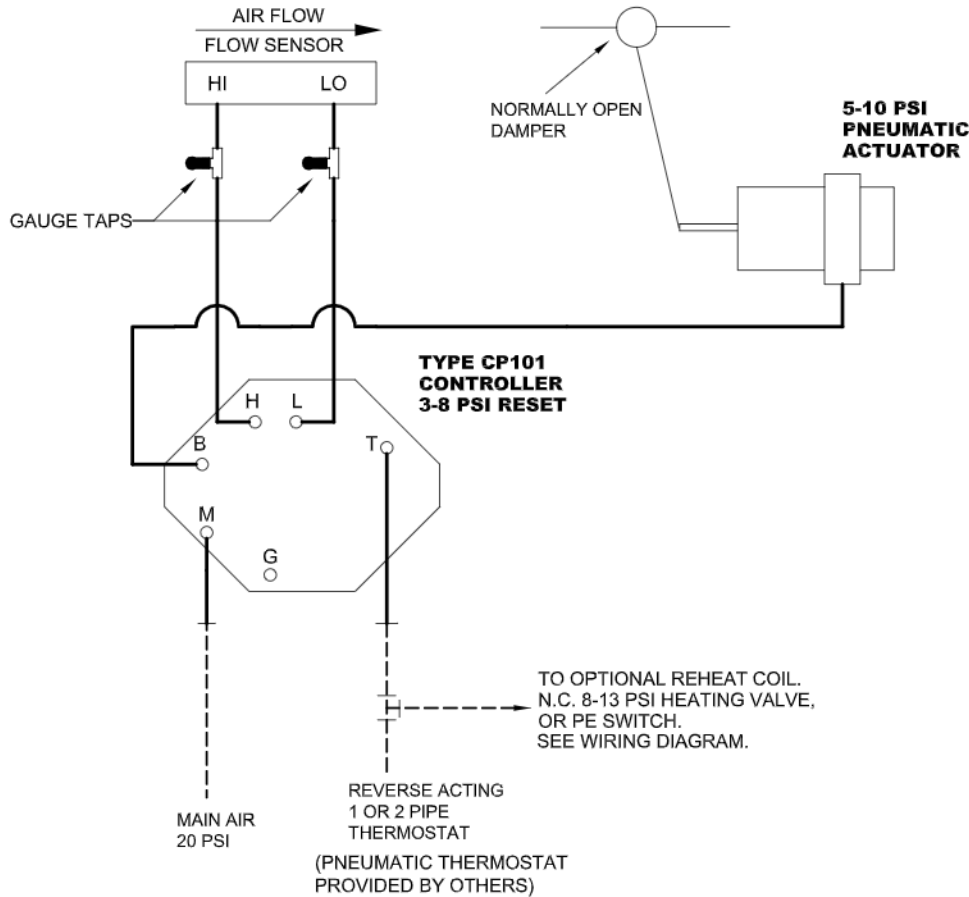


BTG/BC

231699

2011/11/07

SPV8 / RPV8 / LPV8
Kreuter CP101
Clg., Reheat Optional
Var. Vol. Clg. - Adj. Warm-Up
Pressure Independent
D.A. T'Stat, N.O. Damper



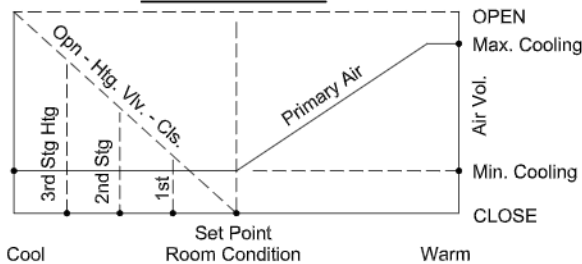
NOTE:

1) TOTAL AIR CONSUMPTION 0.017 SCFM.

LEGEND

- FACTORY PNEUMATIC TUBING
- FIELD PNEUMATIC TUBING

CONTROL GRAPH



Sequence of Operation -- Pressure independent, variable volume, normally open, reverse acting cooling application, with optional reheat.

An increase in space temperature decreases the thermostat output pressure. When the thermostat output decreases to 3 psi or less, the VAV box damper is maintained at the pre-selected maximum flow setting.

A decrease in space temperature increases the thermostat output pressure. When the thermostat output increases to 8 psi or more, the VAV box damper is maintained at the pre-selected minimum flow setting.

At thermostat output pressures between 3 & 8 psi the VAV damper modulates between minimum & maximum flow.

At thermostat output pressures above 8 psi the minimum flow setting is maintained, and the thermostat may control optional reheat coils. Airflow is held constant at any given thermostat output pressure regardless of changes in inlet duct static pressure.

Normally Open Damper:

On failure of the main air supply the damper will fail to the open position.

PROJECT:



ENGINEER:

BTH/BC

CUSTOMER:

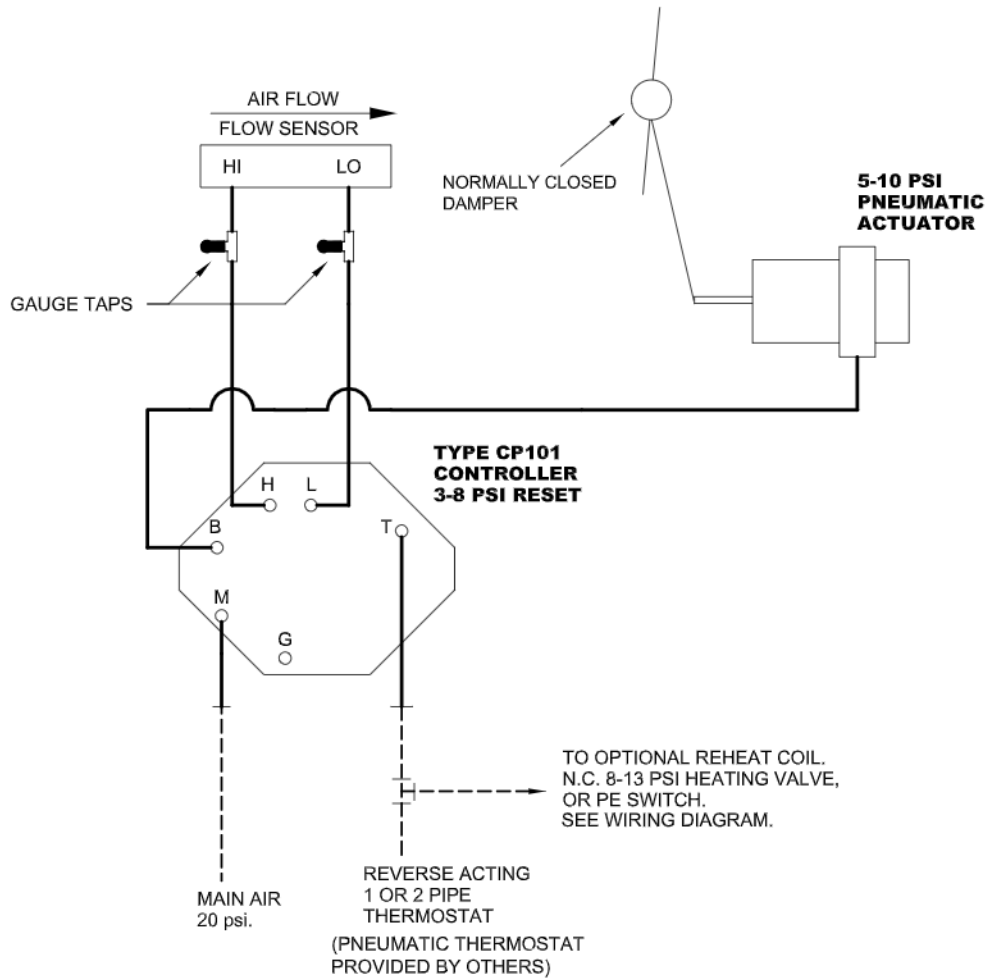
231701

SUBMITTAL DATE:

SPEC. SYMBOL:

2011/11/07

SPV8 / RPV8 / LPV8
Kreuter CP101
Clg., Reheat Optional
Variable Volume
Pressure Independent
R.A. T'Stat, N.O. Damper



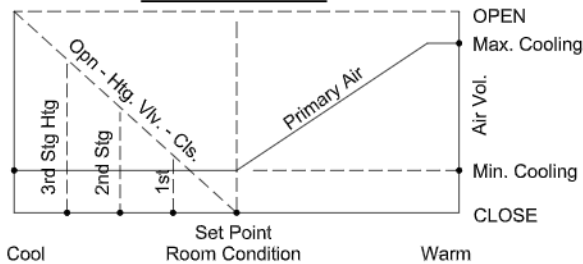
NOTE:

1) TOTAL AIR CONSUMPTION 0.017 SCFM.

LEGEND

- FACTORY PNEUMATIC TUBING
- FIELD PNEUMATIC TUBING

CONTROL GRAPH



Sequence of Operation -- Pressure independent, variable volume, normally closed, reverse acting cooling application with optional reheat.

An increase in space temperature decreases the thermostat output pressure. When the thermostat output decreases to 3 psi or less, the VAV box damper is maintained at the preselected maximum flow setting. A decrease in space temperature increases the thermostat output pressure. When the thermostat output increases to 8 psi. or more, the VAV box damper is maintained at the preselected minimum flow setting. At thermostat output pressures between 3 & 8 psi. the VAV damper modulates between minimum & maximum flow settings. At thermostat output pressures above 8 psi. the minimum flow setting is maintained, and the thermostat may control optional reheat coils. Airflow is held constant at any given thermostat output pressure regardless of changes in inlet duct static pressure.

Normally Closed Damper:

On failure of the main air supply the damper will fail to the closed position.

PROJECT:



ENGINEER:

BTG/BL

CUSTOMER:

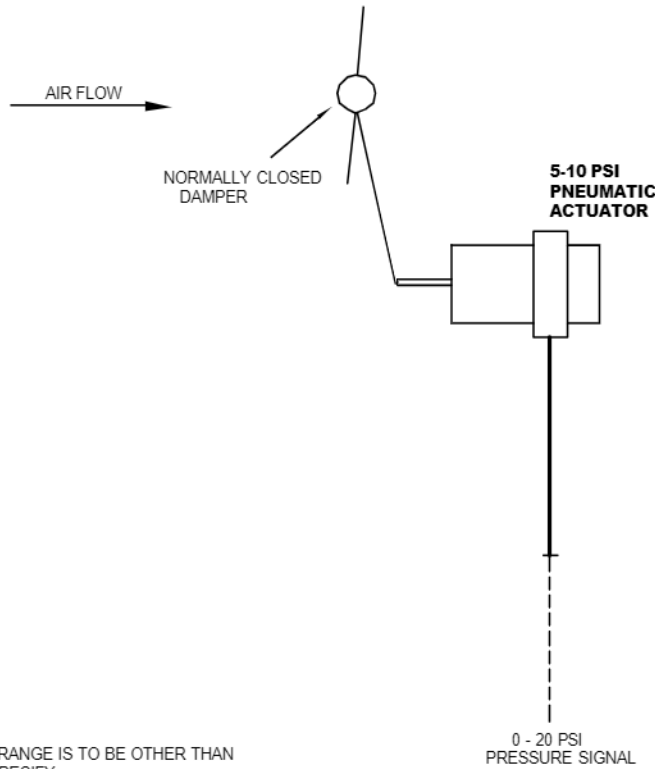
231702

SUBMITTAL DATE:

SPEC. SYMBOL:

2011/11/07

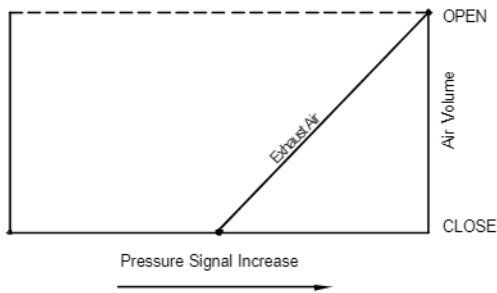
SPV8 / RPV8 / LPV8
Kreuter CP101
Clg., Reheat Optional
Variable Volume
Pressure Independent
R.A. T'Stat, N.C. Damper



NOTE:
IF MOTOR SPRING RANGE IS TO BE OTHER THAN 5-10 PSI, PLEASE SPECIFY.
OPTIONAL SPRING RANGES MAY BE REQUIRED TO SEQUENCE WITH ANY OTHER CONTROLLED DEVICES IN THE SYSTEM.

LEGEND
 _____ FACTORY PNEUMATIC TUBING
 - - - - - FIELD PNEUMATIC TUBING

CONTROL GRAPH



Sequence of Operation -- Pressure dependent, variable volume, normally closed, exhaust application.

As the pressure signal increases from 5 -10 psi or more, the VAV box damper is driven to the open position.
 As the pressure signal decreases from 10 - 5 psi or less, the VAV box damper is driven to the closed position.

Normally Closed Damper:

On failure of the main air supply the damper will fail to the closed position.

PROJECT:



ENGINEER:

CUSTOMER:

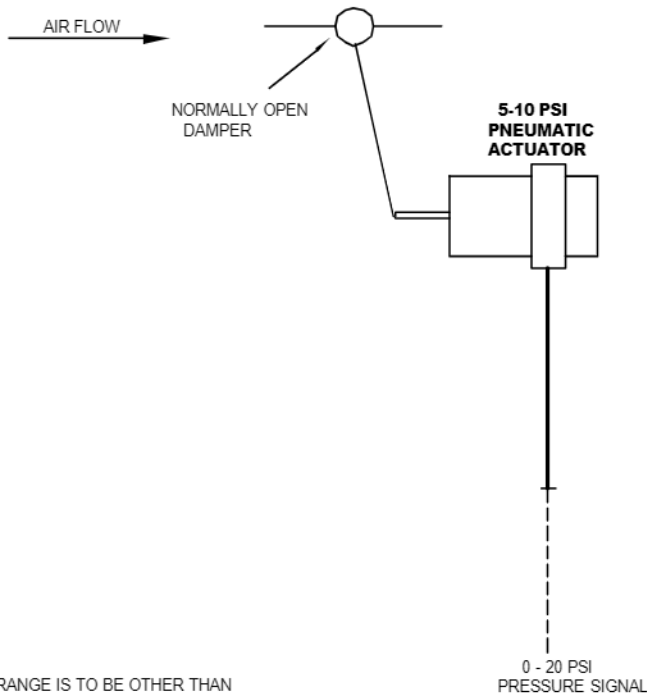
SUBMITTAL DATE:

SPEC. SYMBOL:

240192

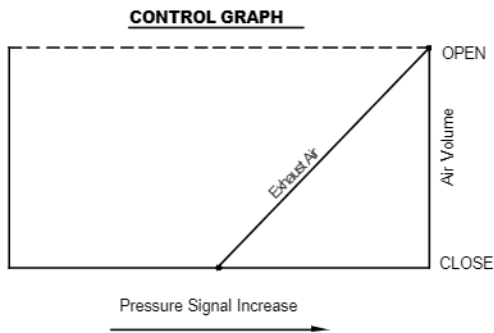
03/09/22

SPE6
 5-10 psi Actuator
 Exhaust
 Variable Volume
 Pressure Dependent
 N.C. Damper



NOTE:
IF MOTOR SPRING RANGE IS TO BE OTHER THAN 5-10 PSI, PLEASE SPECIFY.
OPTIONAL SPRING RANGES MAY BE REQUIRED TO SEQUENCE WITH ANY OTHER CONTROLLED DEVICES IN THE SYSTEM.

LEGEND
 _____ FACTORY PNEUMATIC TUBING
 - - - - - FIELD PNEUMATIC TUBING



Sequence of Operation -- Pressure dependent, variable volume, normally open, exhaust application.

As the pressure signal decreases from 10-5 psi or less, the VAV box damper is driven to the open position.

As the pressure signal increases from 5-10 psi or more, the VAV box damper is driven to the closed position.

Normally Open Damper:

On failure of the main air supply the damper will fail to the open position.

PROJECT:



ENGINEER:

CUSTOMER:

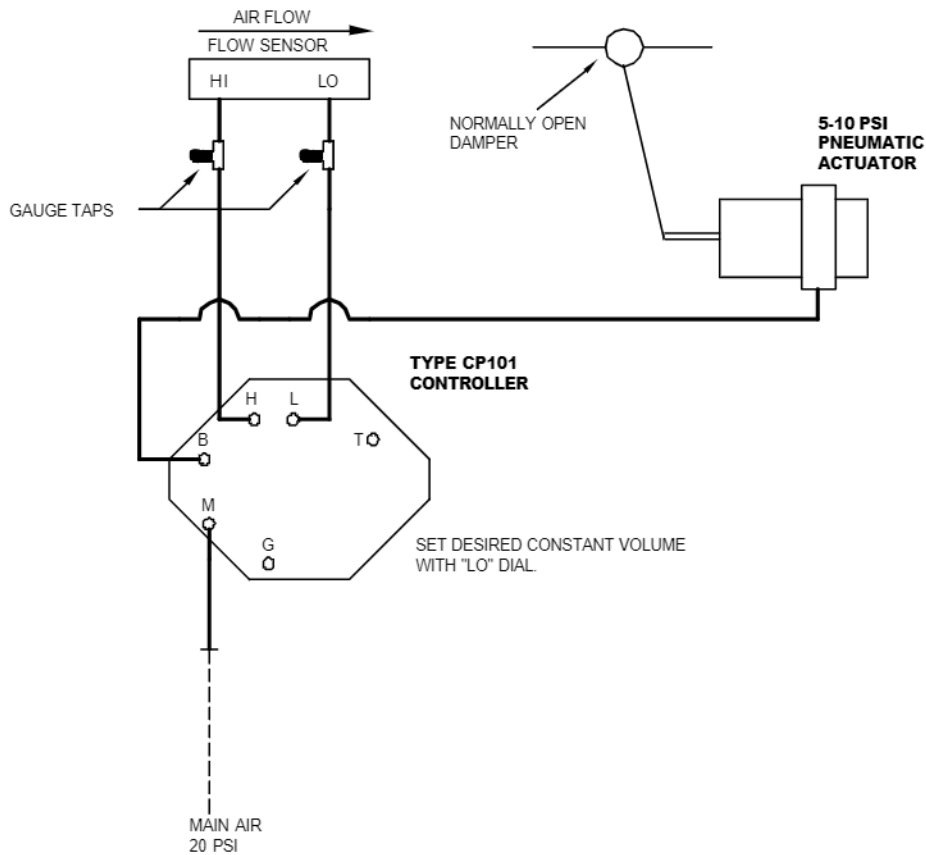
SUBMITTAL DATE:

SPEC. SYMBOL:

240193

03/09/22

SPE6
5-10 psi Actuator
Exhaust
Variable Volume
Pressure Dependent
N.O. Damper



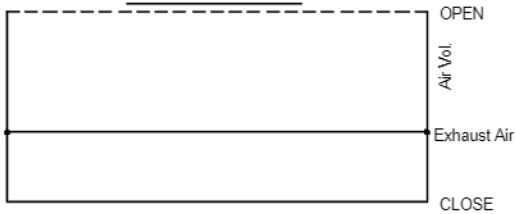
NOTE:

1) TOTAL AIR CONSUMPTION 0.017 SCFM.

LEGEND

- FACTORY PNEUMATIC TUBING
- - - - - FIELD PNEUMATIC TUBING

CONTROL GRAPH



Sequence of Operation -- Pressure independent, constant volume, normally open, direct acting exhaust.

The controller will maintain the preselected flow setting. It will modulate the damper based on changes in the duct pressure to maintain a constant air flow.

Normally Open Damper:

On failure of the main air supply the damper will fail to the open position.

PROJECT:



ENGINEER:

CUSTOMER:

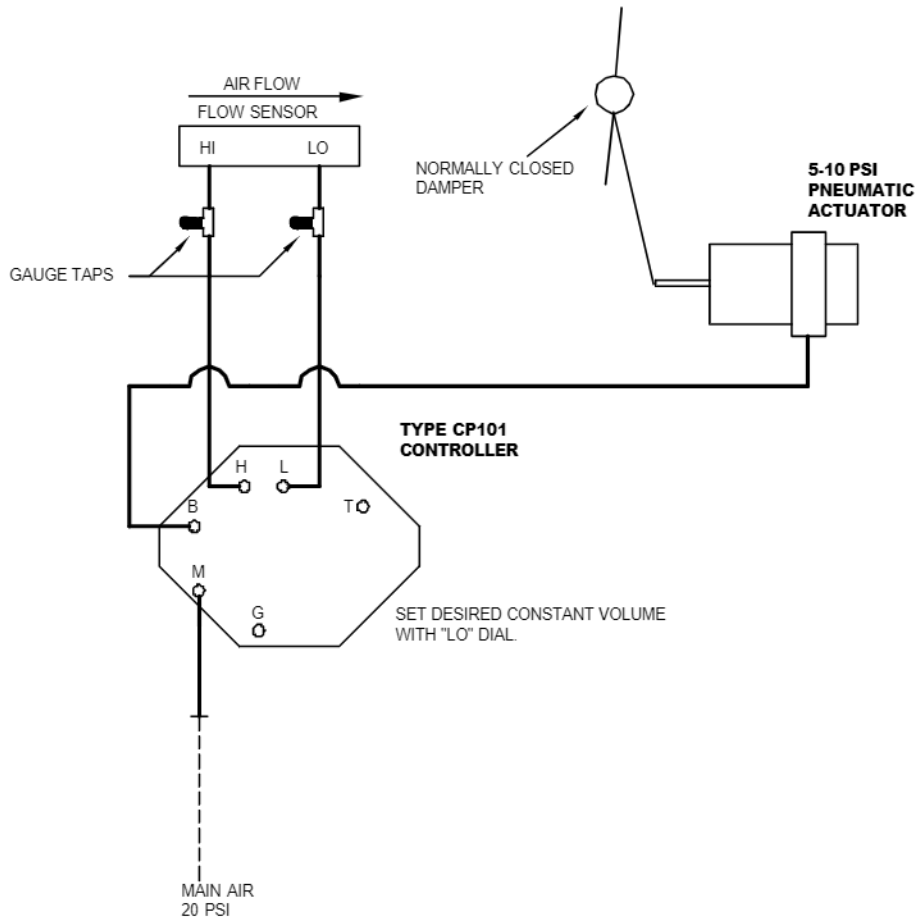
SUBMITTAL DATE:

SPEC. SYMBOL:

240196

03/09/26

SPE8
Kreuter CP101
Exhaust
Constant Volume
Pressure Independent
D.A. Controller, N.O. Damper



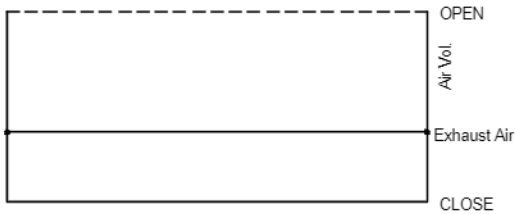
NOTE:

1) TOTAL AIR CONSUMPTION 0.017 SCFM.

LEGEND

- FACTORY PNEUMATIC TUBING
- - - - - FIELD PNEUMATIC TUBING

CONTROL GRAPH



Sequence of Operation -- Pressure independent, constant volume, normally closed, direct acting exhaust.

The controller will maintain the preselected flow setting. It will modulate the damper based on changes in the duct pressure to maintain a constant air flow.

Normally Closed Damper:

On failure of the main air supply the damper will fail to the closed position.

PROJECT:



ENGINEER:

CUSTOMER:

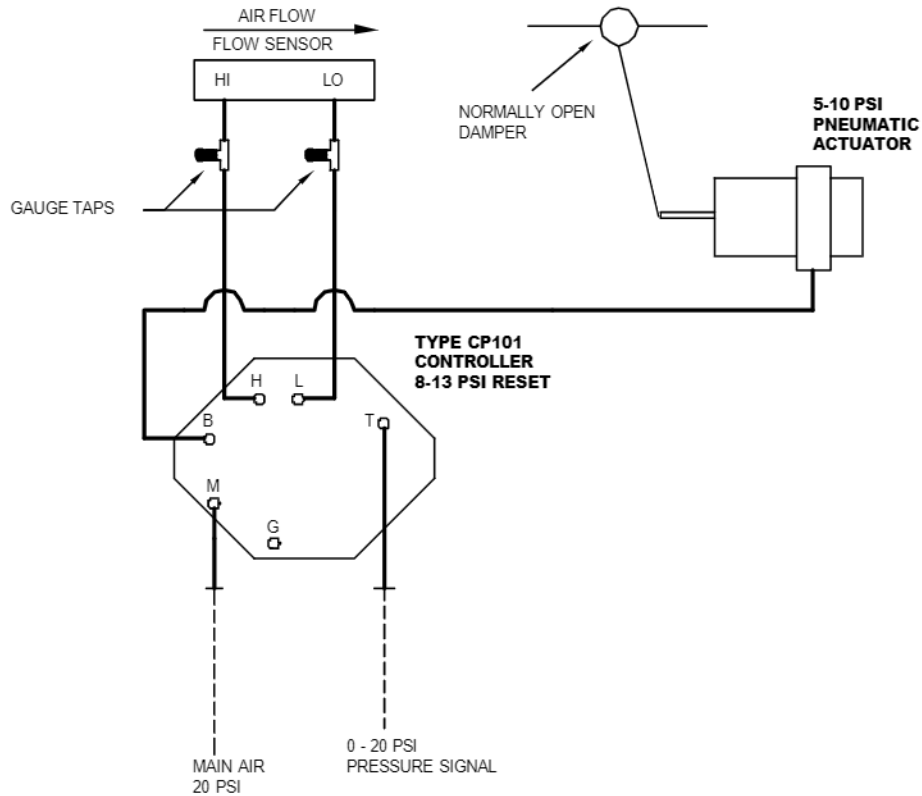
SUBMITTAL DATE:

SPEC. SYMBOL:

240197

03/09/26

SPE8
Kreuter CP101
Exhaust
Constant Volume
Pressure Independent
D.A. Controller, N.C. Damper



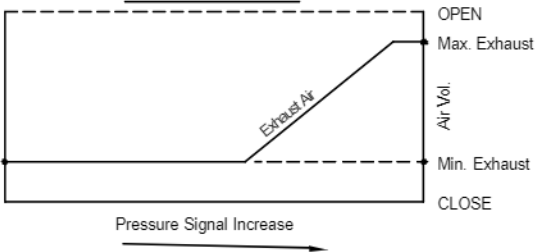
NOTE:

1) TOTAL AIR CONSUMPTION 0.017 SCFM.

LEGEND

- FACTORY PNEUMATIC TUBING
- FIELD PNEUMATIC TUBING

CONTROL GRAPH



Sequence of Operation -- Pressure independent, variable volume, normally open, direct acting exhaust application.

When the pressure signal increases to 13 psi or more, the VAV box damper is maintained at the preselected maximum flow setting.

When the pressure signal decreases to 8 psi or less, the VAV box damper is maintained at the preselected minimum flow setting.

At pressure signals between 8 & 13 psi the VAV damper modulates between minimum & maximum flow.

At pressure signals below 8 psi the minimum flow setting is maintained.

Airflow is held constant at any given pressure signal regardless of changes in inlet duct static pressure.

Normally Open Damper:

On failure of the main air supply the damper will fail to the open position.

PROJECT:

ENGINEER:

CUSTOMER:

SUBMITTAL DATE:

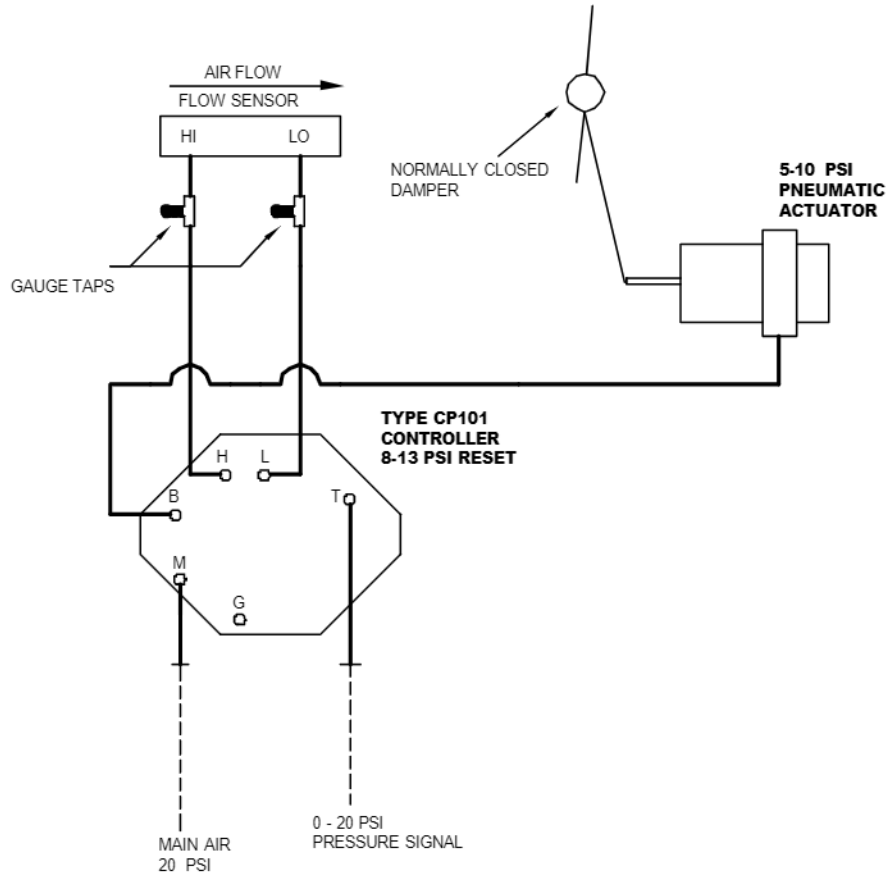
SPEC. SYMBOL:



240200

03/09/30

SDE8
Kreuter CP101
Exhaust
Variable Volume
Pressure Independent
D.A. Controller, N.O. Damper



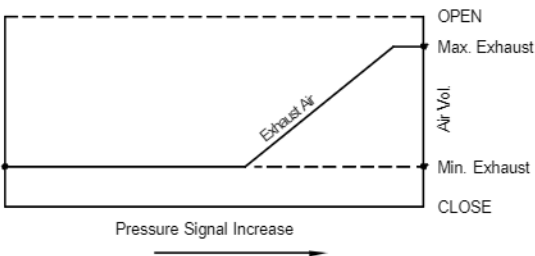
NOTE:

1) TOTAL AIR CONSUMPTION 0.017 SCFM.

LEGEND

- FACTORY PNEUMATIC TUBING
- - - - - FIELD PNEUMATIC TUBING

CONTROL GRAPH



Sequence of Operation -- Pressure independent, variable volume, normally closed, direct acting exhaust application.

When the pressure signal increases to 13 psi or more, the VAV box damper is maintained at the preselected maximum flow setting.

When the pressure signal decreases to 8 psi or less, the VAV box damper is maintained at the preselected minimum flow setting.

At pressure signals between 8 & 13 psi the VAV damper modulates between minimum & maximum flow.

At pressure signals below 8 psi the minimum flow setting is maintained.

Airflow is held constant at any given pressure signal regardless of changes in inlet duct static pressure.

Normally Closed Damper:

On failure of the main air supply the damper will fail to the closed position.

PROJECT:

ENGINEER:

CUSTOMER:

SUBMITTAL DATE:

SPEC. SYMBOL:



240201

03/09/30

SDE8
Kreuter CP101
Exhaust
Variable Volume
Pressure Independent
D.A. Controller, N.C. Damper