

### General Description

The Model 21550 DYNAGUIDE Sensor detects edge position pneumatically and transmits this information to a DYNAGUIDE pneumatic-hydraulic controller which uses this information to determine the rate of correction required to maintain the edge at the desired reference position. Recovery pressure is proportional to the material position.

The sensor features an integral purge orifice (patented) that prevents clogging of the recovery orifice. Referring to the sensor schematic, some of the air supply passes through a passage that connects to the recovery pressure port. The purge orifice in this passage restricts the airflow to allow only air at a low pressure to enter recovery port.

This pressure keeps the recovery port at a pressure slightly above atmospheric; thus dust, lint, or other clogging type material does not enter the recovery port. This integral purge does not affect control as the positive pressure in the recovery port is less than the minimum recovery pressure required to actuate the pneumatic-hydraulic controller for full speed corrective action to move the web out of the sensor or the sensor away from the web as required by the process.

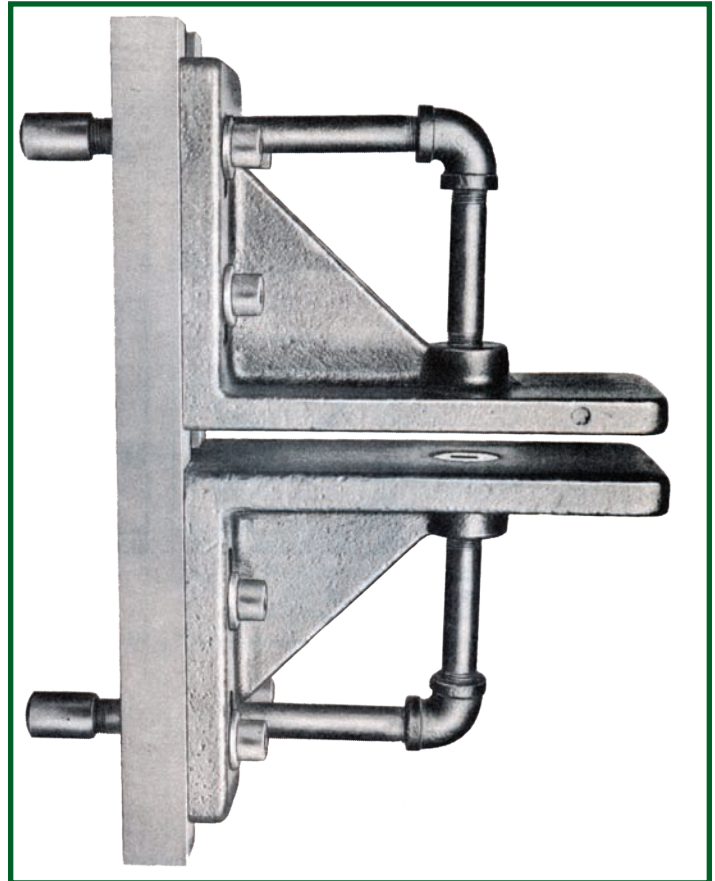
### Gap Adjustment

Each nozzle has two 1/2-13 cap screws for adjustment. Set gap as narrow as possible to accommodate conditions of the line. Maximum gap is 4 inches.

### Air Supply

See General Instructions for air supply requirements to provide an air supply pressure when gap has been determined to obtain up to a maximum 4 inches water column recovery pressure at the web guide controllers diaphragm.

When this pressure is obtained, cover 1/2 of the recovery port, then only if necessary, reset control point spring of the controller to cause the work cylinder piston to become stationary away from stroke end position.



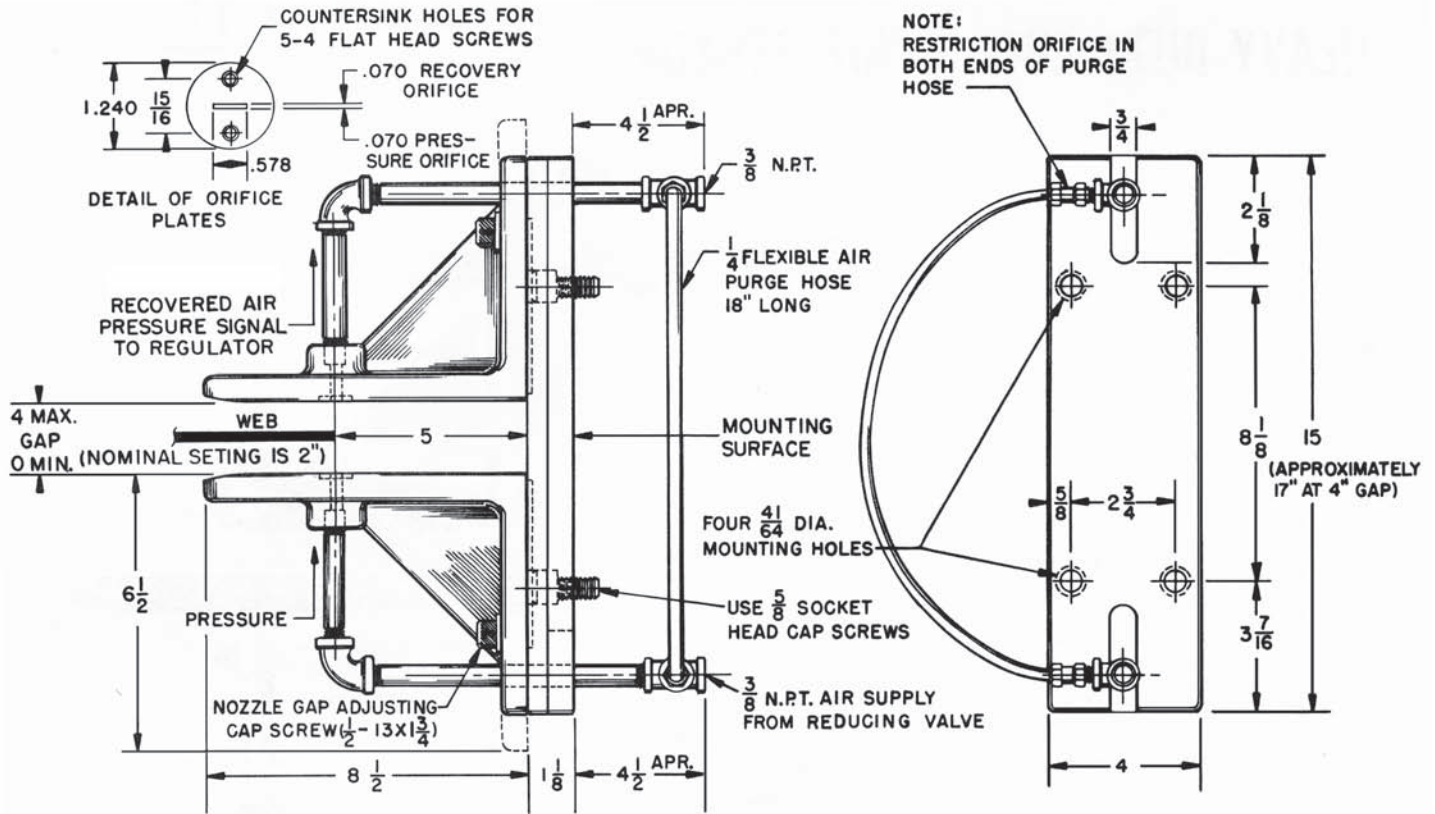
### Specifications

<b>Input</b>	6 to 28 in. w.c. (regulated)
<b>Output</b>	0 to 4 in. w.c. (variable)
<b>Accuracy</b>	± 0.015 inches*
<b>Sensitivity</b>	Full correction speed with 0.005 inches lateral displacement of a pneumatically impermeable material*
<b>Material of Construction</b>	Cast Aluminum
<b>Finish</b>	Gray
<b>Throat</b>	0 to 4 in. adjustable gap; 5 in. depth
<b>Orifice</b>	0.578 inches
<b>Temperature Range</b>	+10°F to +240°F

\* When incorporated in a Dynaguide system and installed in accordance with standard specifications.

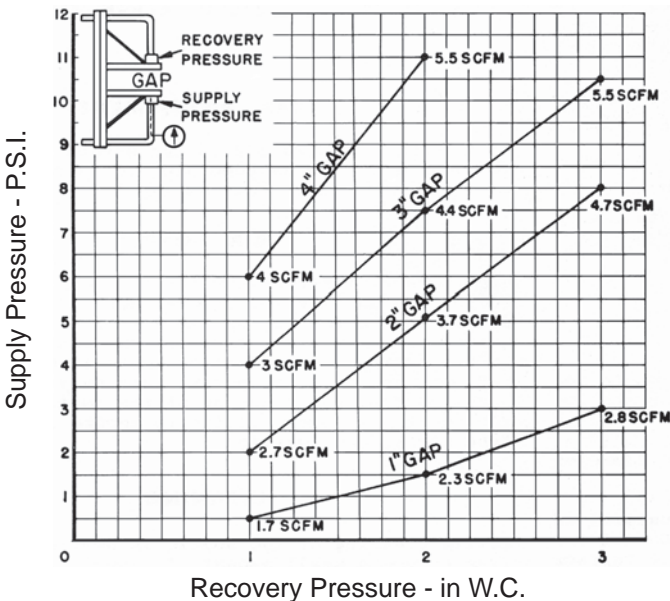
PRODUCT DATA SHEET

**Outline Dimensions**



Model 21550 Heavy Duty Pneumatic Edge Guide Sensor

**Approximate Air Consumption  
Model 21550 Heavy Duty Sensor**



**Notes**

1. Supply pressure at nozzle level.
2. When 3/8" supply piping and 6 feet of 3/8" hose is used, supply pressure must be increased 1/2 psi above inlet pressure shown above.
3. Flow valves listed are valves taken at test points shown. When purge line is used, add 1.0 SCFM to these valves.