

# PNEUMATICS & FITTINGS

## SIEMENS/POWERS HIGHEST PRESSURE SIGNAL SELECTOR 243-0018 SERIES



**SIEMENS**  
**POWERS™**

**NEW!**

### DESCRIPTION

The **Siemens/Powers 243-0018 Series Highest Pressure Signal Selector** is designed to select and transmit the higher of two pneumatic input signals.

### FEATURES

- *Lightweight and small*
- *Can be mounted in any position*
- *Can be supported by the polyethylene tubing connected to the input and output fittings*
- *Bracket provided for fixed mounting*

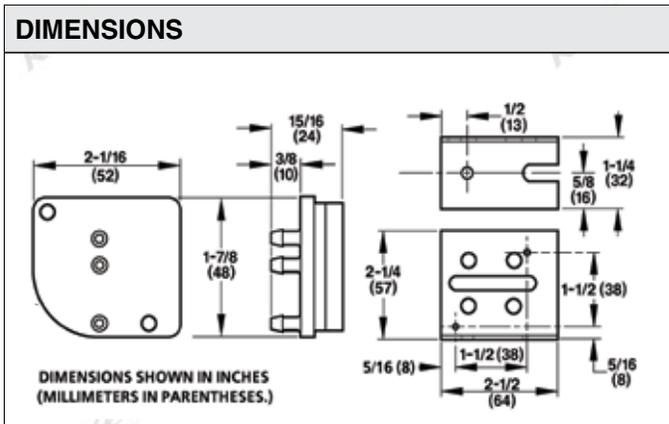
### MOUNTING AND INSTALLATION

- *This signal selector will operate properly when mounted in any position*
- *The selector can be mounted using either the tubing connecting the input and output fittings or the mounting bracket provided*



243-0018

SPECIFICATIONS	
<b>Maximum Air Pressure</b>	30 psig (207 kPa)
<b>Ambient Temperature Range</b>	140°F (60°C)
<b>Air Connections</b>	Barbed connector for 1/4" (6.4 mm)
<b>Mounting</b>	In-line or bracket
<b>Air Capacity at 2 psi (14 kPa) Differential</b>	65 scim (18 ml/s)
<b>Air Consumption</b>	None
<b>Housing</b>	Glass-filled nylon
<b>Diaphragm</b>	Neoprene with fabric
<b>Weight</b>	4 oz (0.1 Kg)
<b>Warranty</b>	1 year



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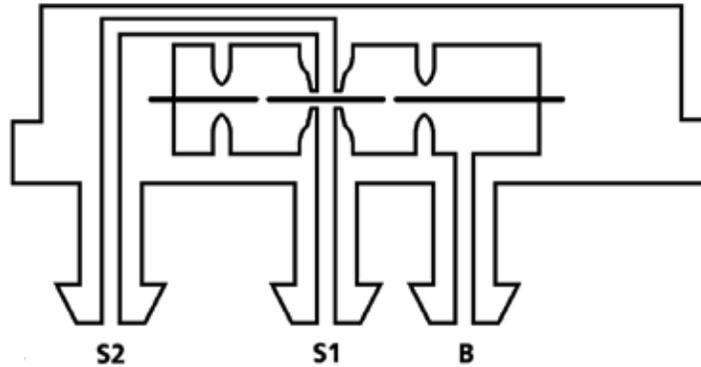
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### OPERATION

"S1" and "S2" are input ports and "B" is an output port.

When the pressure in port "S1" is higher than the pressure in port "S2", the diaphragm is forced up, closing the "S2" port. Air from port "S1" passes directly to the "B" port. When the pressure at port "S2" is higher than the pressure at port "S1" the diaphragm moves down, closing the "S1" port. Air from "S2" passes through the small slits in the diaphragm and out "B" port.



Construction of the Selector Switch

### OPERATION

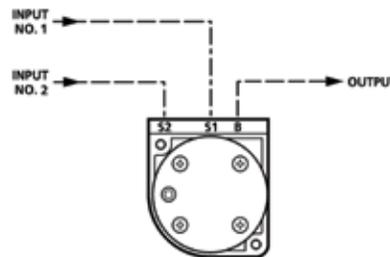
output signal which is the higher of two input signals. See Figure 1 and Table 1.

This is a low capacity device. For some applications a volume amplifying relay will be required.

**NOTE:** The input ports "S1" and "S2" can only be connected to high capacity output devices, such as two-pipe relay type controllers. The output port "B" can only be connected to non-bleed closed end chamber devices, such as actuators.

Table 1. Typical Input-Output Signals.

Input "S1" (psig)	Input "S2" (psig)	Output "B" (psig)
12	8	12
3	15	15
9	9	9



### ORDERING INFORMATION

MODEL	DESCRIPTION
243-0018	Pneumatic highest pressure signal selector relay

NEW!