

# 940 Series Heavy Duty Control Valve

CONTROL VALVES

Actuator  
(shown with  
optional  
positioner)



Valve  
Body

- ▶ Diaphragm Actuated
- ▶ 14" & 17" Actuator Sizes
- ▶ Heavy Duty Die Cast Housing and Yoke
- ▶ 1/2" – 8" Valve Sizes

The Trerice **940 Series** Pneumatic Control Valve offers extreme quality and maximum valve performance. The Series 940 is available in a variety of 2-way and 3-way valve styles for industrial, demanding HVAC and commercial process applications. The 940 Actuator can be furnished with a 14" or 17" diaphragm and includes a rugged, die cast aluminum diaphragm chamber.

For optimal performance, the service conditions (medium, flow, temperature, inlet and outlet pressures) of the application must be considered when selecting a valve. Please refer to the Valve Selection Section of this catalog. Consult the Valve Selection tables for the capabilities of a particular valve/actuator assembly. A positioner may be required to maximize the shut-off capability of the valve. Improper application may cause failure of the valve, resulting in possible personal injury or property damage.

940B shown

## HOW TO ORDER

Sample Order Number: **940B-K84-760P**

Actuator Models	Valve Body Number	Positioner Model
940B 940C	Refer to pages 242-249	760P Pneumatic 760E Electropneumatic Omit if None

1. **Determine** the valve size, style and material required by the application.
2. **Consult** the Valve Selection table to determine the required Valve Model.
3. **Refer** to the maximum close-off pressure columns to determine the Actuator (with or without positioner) needed to provide the close-off pressure required by your application.
4. **Specify** the Actuator Model.
5. **Specify** the Valve Body Number.
6. **Specify** the Positioner Model (if required).

# 940 Series

## Heavy Duty Control Valve

All dimensions are nominal. Dimensions in [ ] are in millimeters.

CONTROL VALVES

### Valve & Actuator Specifications

Actuator Models	Diaphragm Size
940B	14"
940C	17"

#### Construction

Aluminum yoke and diaphragm chamber, acrylic enamel finish

#### Pressure Plate

Aluminum

#### Diaphragm Material

Nylon reinforced Buna-N

#### Input Signal

3-15 psi

#### Air Pressure to Diaphragm

30 psig maximum

#### Air Pressure Connection

1/4 NPT Female

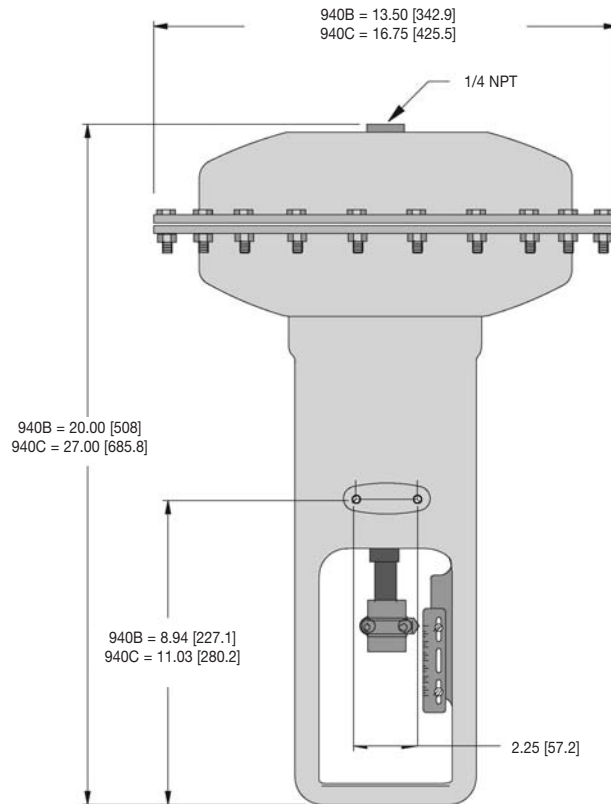
#### Operating Temperature

Ambient:  
-40°F (-40°C) to 180°F (82°C)

Process Flow:  
-40°F (-40°C) to 410°F (210°C)

#### Approximate Shipping Weight

940B: 45 lbs [20 kg]  
940C: 86 lbs [39 kg]



The Trerice TA987 Air Filter/Regulator is recommended for filtering and regulating the pressure of plant compressed air and delivering clean, dry air at the proper pressure to pneumatic control devices.

### Positioner Specifications

<b>Models</b> 760P (Pneumatic) 760E (Electropneumatic)	<b>Air Requirements</b> Clean, oil-free, dry air Maximum Supply Pressure: 30 psig Air Consumption: 0.28 SCFH (760P), 0.38 SCFH (760E), typical Flow Rate: 9.0 SCFM	<b>Connections</b> Pneumatic: 1/4 NPT Gauge: 1/8 NPT Electrical: 3/4 NPT Exhaust: 1/4 NPT	<b>Ambient Temperature</b> -40°F (-40°C) to 185°F (85°C)
<b>Action</b> Direct			<b>Weight</b> 10 lbs [4.55 kg]
<b>Input Signal Ranges</b> 760P: 3 to 15 psig 760E: 4 to 20 mA		<b>Enclosure</b> NEMA 4X, IP65	