

# Model TSC

## Low Delivery Pressure, General Purpose, Two-Stage Regulators

The Model TSC Regulator provides highly accurate pressure reduction of inlet pressures up to 3000 psig down to delivery pressures as low as 0.3 to 3 psig. The two-stage design provides constant outlet pressure regardless of changes in cylinder (inlet) pressures.

The Model TSC is suitable for use with noncorrosive gases where high purity is not required. Typical applications include low pressure purging, inert blanketing of chemical or flammable storage units, or control of fuel to burners.



TSC Regulator

### Standard Features

- Large 2 $\frac{3}{4}$ " Diaphragm in second stage, allows for accurate control of delivery pressures down to 0.3 psig.
- Two-Stage Regulator Design ensures constant delivery pressure over varying inlet pressures.
- Sintered Metal Filters trap foreign matter, extend regulator life, and reduce maintenance.
- 1-Ounce Graduations on a 2 $\frac{1}{2}$ " Outlet Gauge allow for enhanced readability at very low pressure settings.
- Outlet Metering Valve provides flow control.

### Specifications

Maximum Inlet Pressure: 3000 psig

Inlet Pressure Gauge: 0–4000 psig

Delivery Pressure Range: 0.3–3 psig

Delivery Pressure Gauge: 0–5 psig

Gauge Size: 2 $\frac{1}{2}$ " Dial

Operating Temperature Range:  
-20°F to 140°F

Flow Coefficient:

Regulator:  $C_v = 0.37$

Outlet Valve:  $C_v = 0.35$

Inlet Connection:

CGA 296, 346, 350, 510, 540, 580, 590, 660 as ordered.

Outlet Connection:

$\frac{1}{4}$ " NPT male (on outlet valve)

Maximum Flow Rate: 98 scfh  $N_2$  at 2000 psig inlet pressure.

Approximate Weight: 7 lbs

### Materials of Construction

Body, Bonnet and Outlet Valve:  
Forged Brass

Gauges:  
Brass Internals with Drawn Steel Case

Other Metal Parts Exposed to Gas:  
Brass and Stainless Steel

Seats:  
First Stage: Teflon®  
Second Stage: Neoprene

Diaphragms: Neoprene

Seals: Teflon®

### Table I

Part No.
TSC-(CGA)

Where "(CGA)" is indicated above, insert appropriate Compressed Gas Association connection number to complete the part number. Example: TSC-580. Order by complete part number.

### Optional Equipment

Equipment	Part No.
Compression Fittings* (female connectors)	
$\frac{1}{4}$ " NPT female x $\frac{1}{8}$ " compression	SG6723
$\frac{1}{4}$ " NPT female x $\frac{1}{4}$ " compression	SG6724
Check Valves*	See page 141

\* If selected, these items are not installed on the regulator. They are shipped as separate items.