

Models SG3882, SG3883

Ultra High Flow, Balanced Stem, Piston Regulators

This piston-type regulator is designed for use when very high flow rates are required. Typical uses include manifold or trailer applications. Model SG3882 is suitable for non-corrosive service, while Model SG3883 is designed for corrosive gases that are compatible with the materials of construction.

Warning: The Model SG3883 Regulator is not recommended for oxygen service.



SG3882 Regulator

Assist-Shield Gas Equipment for Industrial Lasers – see pages 68–69 for additional information

Standard Features

- High Flow Capacity allows flows in excess of 500 scfm of air at 3000 psig inlet.
- Balanced Poppet (stem) minimizes effect of changes in inlet pressure on delivery pressure settings.
- Pressure Relief Valve protects regulator components from the effects of overpressurization.
- Stainless Steel Filter in Inlet traps foreign matter, extends regulator life and reduces maintenance.
- Large Low-Torque Handle allows easy adjustment of delivery pressure.

Optional Features

- Mounting Ring permits regulator to be panel mounted.

Specifications

Maximum Inlet Pressure: 3750 psig
 Inlet Pressure Gauge: 0–4000 psig
 Delivery Pressure Range: See Tables I
 Delivery Pressure Gauge: See Tables I

Relief Valve:
 Self-Reseating, 1/4" NPT male outlet
 Gauge Size: 2 1/2" Dial
 Operating Temperature Range:
 0°F to 165°F
 Flow Coefficient: Cv = 1.7
 Inlet and Outlet Connections:
 1/2" NPT female
 Supply Pressure Effect: 1.0 psi per 100 psi
 Approximate Weight: 7 lbs

Materials of Construction

Body:
 SG3882: Brass Bar Stock
 SG3883: Type 303 SS Bar Stock
 Bonnet:
 SG3882: Brass
 SG3883: 300 Series Stn. Stl.
 Gauges:
 SG3882: Brass
 SG3883: Type 316 Stn. Stl.
 Other Metal Parts Exposed to Gas:
 SG3882: Brass and Stn. Stl
 SG3883: 300 Series Stn. Stl
 Seats: PTFE
 Seals: Viton® and PCTFE
 Filter: Type 316 Stn. Stl

Table I

Part Number		Delivery Pressure (psig)	
Brass	Stainless Steel	Range	Gauge
SG3882-350	SG3883-350	20–350	0–400
SG3882-500	SG3883-500	40–500	0–600

Optional Equipment

Equipment	Part No.
Panel Mounting Ring	PM3804