

TESCOM™ SG1 & SG3 Single Stage Regulators

Meet low pressure requirements with reliable regulators in lab and point-of-use gas systems.



Ensure Process Gas Purity

TESCOM SG1 and SG3 Series are compact, lightweight and high-purity single-stage regulators for specialty, flammable and industrial gasses. Units feature a 316 Stainless Steel or Neoprene diaphragm, as well as a new PTFE seat option, ensuring gas purity and integrity, keeping yields high in semiconductor, pharmaceutical, medical and food and beverage applications.

- Sensitive metal diaphragm ensures long life in high-purity applications.
- Cartridge valve integrates a 10-micron filter to protect the regulator seat.
- Design features a 500-PSI inlet pressure, satisfying most general gas hookups.

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Compact, lightweight regulators for high-purity applications

The SG Series meets high-purity application requirements with low inlet pressures (500 PSI). Units feature a PTFE seat for lower pressures, reducing risks related to material shortages and shortening lead times, as well as a cartridge valve with 10-micron filter, protecting the regulator seat and facilitating service.

SG Series single stage regulators for specialty and industrial gasses

The SG1 Series – is suitable for flows less than 10 standard cubic feet per minute (SCFM) and 283 standard liters per minute (SLPM). Among its use cases are metal fabrication and process analyzer gasses.

The SG3 Series – is suitable for flows between 5–200 SCFM and 141–5600 SLPM. Among its use cases are high-flow, high-purity air (CDA and APR) in semiconductor and biotech facilities. This series also features an exceptionally low decaying inlet characteristic that provides stable outlet pressures, even as the inlet pressure varies.



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Technical Specifications

Series	SG1	SG3
Flow Capacity	Cv = 0.06, 0.2	Cv = 1.0
Maximum Inlet Pressure	Cv = 0.06: 4500 PSI (310 bar) Cv = 0.2: 3000 PSI (207 bar)	4500 PSI (310 bar)
Outlet Pressure Ranges	15, 25, 50, 125, 250 PSI 103, 172, 345, 862, 1724 kPa 1.0, 1.7, 3.4, 8.6, 17.2 bar	15, 50, 125, 250 PSI 103, 345, 862, 1724 kPa 1.0, 3.4, 8.6, 17.2 bar
Body Material	316L Stainless Steel Nickel-Plated Brass	316L Stainless Steel Nickel-Plated Brass
Seat Material	PTFE, Polyimide	PTFE
Seal	Teflon® or Buna-N	Teflon® or Buna-N
Diaphragm	316 Stainless Steel or Neoprene	316 Stainless Steel or Neoprene
Filter	10-micron nominal sintered Bronze or 316 Stainless Steel	10-micron nominal sintered Bronze or 316 Stainless Steel
Load Type	Spring only	Spring only

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For more information:
www.Emerson.com/TESCOM


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