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TECHNOLOGY GROUP

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Full-service, independent repair center
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Find the *Newport XL-G* at our website: ***Click HERE***

Regulator Two-Stage Ultra-High Purity High-Flow Model 18 Series

Scott™ Model 18 Series regulator is a top-quality, two-stage regulator for noncorrosive specialty gases. Designed for years of reliable service in gas chromatography, instrument calibration and process stream applications, the Model 18 will effectively prevent contamination of your gas stream from atmospheric elements and particulate matter, or by components of the regulator itself. The materials of construction used in the Model 18 are specially selected to eliminate diffusion and outgassing. Strict quality control during assembly insures against leaks.



BENEFITS/FEATURES

- Brass body, stainless steel diaphragms and durable synthetic seats and seals combine to provide long, reliable, leak-free service.
- Noncontaminating stainless steel diaphragms in both stages and in the outlet valve prevent diffusion and outgassing into the gas stream.
- Viton®, PCTFE and nylon seats in the regulator and packless valve all have a low outgassing rate, eliminating interference with GC analysis.
- Nylon and PTFE seals prevent the diffusion of atmospheric elements into the gas stream. An integral porous metal filter in the CGA inlet fitting screens out any particulate matter entering the Model 18.
- Two pressure reduction stages provide sensitive and accurate pressure control. The 1-1/2" diameter first stage diaphragm is preset to reduce the inlet pressure by about 90%. The 3-1/8" diameter second stage diaphragm allows sensitive delivery pressure control by using the adjustment handle, specially designed to fit your hand.
- One extra feature which is standard on the Model 18 is a preset safety relief valve between the first and second stages. This is an external valve with a 1/4" NPT male outlet that should be attached to a vent system. The relief valve protects the second stage diaphragm and downstream equipment by releasing excess gas pressure in the unlikely event that the first stage fails to regulate pressure.

MATERIALS OF CONSTRUCTION

Body: Brass
Diaphragm: Stainless steel
Seat:
1st stage: Nylon
2nd stage: Viton®
Seal:
1st stage: Nylon
2nd stage: PTFE
Gauge: Phosphor bronze/ Beryllium copper
Bonnet: Chrome-plated zinc

SPECIFICATIONS

Inlet Pressure: 3000 psig (207 bar) maximum
Operating Temperature Range: -20°F to 120°F (-28°C to 48°C)
Flow Coefficient: 0.202
Inlet Connection: Specify CGA
Outlet Connection: 1/4" NPT Female
Inlet/Outlet Ports: 1/2 - 27/ 1/4" NPT Female
Gauge Size: 2.5" (63.5 mm) face

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Shipping Weight: 6.0 lb. (2.7 kg)

			GAUGES	
MODEL NO. (SPECIFY CGA)	**DELIVERY PRESSURE RANGE**	**FLOW CAPACITY AIR (SCFH)**	**DELIVERY PRESSURE**	**CYLINDER PRESSURE**
51-18-(CGA)	1 - 15 psig (0.1 - 1 bar)	150	30" VAC - 0 - 30 psig (2 bar)	0 - 4000 psig (276 bar)
51-18A-(CGA)	1 - 50 psig (0.1 - 3.5 bar)	800	0 - 60 psig (4 bar)	0 - 4000 psig (276 bar)
51-18B-(CGA)	2 - 100 (0.1 - 6.9 bar)	1400	0 - 200 psig (14 bar)	0 - 4000 psig (276 bar)
51-18C-(CGA)	5 - 200 (0.3 - 14 bar)	1400	0 - 400 psig (28 bar)	0 - 4000 psig (276 bar)
Option: MODEL NO. 51-HLRI HELIUM LEAK RATE CERTIFICATION				

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

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We're here to make your life easier. How can we help you today?

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