

# Piston Regulators

## For Noncorrosive/Corrosive Service

Models 27 and 38

Designed for use with certain SCOTTY™ Transportable cylinders, the Model 27 is perfect for noncorrosive service that does not contain materials that can be absorbed by polymers. The Model 38 features stainless steel construction for critical applications where high-accuracy corrosive mixtures are used.



Model 38

### Benefits/Features

- Compact and economical.
- Hand tightened assembly to cylinder is excellent for field applications.
- Integral inlet and outlet fittings provide a compact regulator for transportable cylinders.
- An outlet orifice and preset delivery pressure provide a gas flowrate up to its preset capacity after the valve is opened.
- Pressure gauge monitors cylinder pressure.

### Specifications

- SCOTTY Cylinder:**  
 27: SCOTTY 17, 35 and 105  
 38: SCOTTY 34 and 58

- Inlet Pressure: maximum**  
 27A, 27B: 1000 psig (69 bar)  
 27D: 500 psig (35 bar)  
 38: 1000 psig (69 bar)
- Operating Temperature Range:**  
 -5°F to 140°F (-40°C to 73°C)
- Inlet Connection:**  
 27A, 27B and 38: C-10 5/8 – 18 UNF  
 27D: 600 CGA
- Outlet Connection:**  
 27A & 27B: 3/16" hose barb  
 27D: 3/16" hose barb  
 38: 3/16" hose barb
- Gauge Size:** 1.5" (41 mm) face
- Weight:**  
 27: 1 lb. (0.5 kg)  
 38: 0.4 lb. (0.2 kg)

### Materials of Construction

- Body:**  
 27: Nickel-plated brass  
 38: Stainless steel
- Piston:**  
 27: Brass  
 38: AISI304
- Seat:** PTFE
- Seal:** Viton®
- O-Rings:** Viton®
- Gauge:**  
 27: Phosphor bronze  
 38: Stainless steel
- Bonnet:**  
 Nickel-plated brass

Model 27, 38		On/Off Valve	Nominal Preset Capacity		Cylinder Pressure Gauge	
			psig	bar	psig	bar
Nickel-Plated Brass	Stainless Steel	No	*	*	0 – 1200	0 – 83
		Yes	*	*	0 – 1200	0 – 83
Q1-27A-(*)-C10		Yes	300 mL/min	—	0 – 500	0 – 35
Q1-27B-(*)-C10		No	*	*	0 – 1200	0 – 83
Q1-27D-600	Q1-38A-(*)-C10	Yes	*	*	0 – 1200	0 – 83
	Q1-38B-(*)-C10					

\* Specify nominal flowrate:  
 300 mL/min – leave blank  
 500 mL/min – insert 5  
 700 mL/min – insert 7 (Model 38 only)  
 900 mL/min – insert 9 (Model 27 only)  
 1000 mL/min – insert 10  
 1500 mL/min – insert 15  
 2500 mL/min – insert 25  
 5000 mL/min – insert 50  
 6000 mL/min – insert 60 (Model 27 only)  
 7000 mL/min – insert 70 (Model 38 only)  
 9000 mL/min – insert 90 (Model 27 only)