## **627 Series Commercial/Industrial Regulators**

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#### Introduction

The 627 Series commercial/industrial regulator is a large capacity, high-pressure unit for use in conjunction with S302G or S202G Series regulators. It can also be used on final-stage (psi to psi) service. A 1805 Series relief valve is recommended to prevent excessive build-up in the downstream line.

The diaphragm case and/or regulator body on the 627 Series can be rotated in any of four positions to allow installation in locations with limited space.

### **Body Sizes and End Connection Style**

See Table 1

### **Flow Capacities**

See Table 4

#### **Maximum Allowable Inlet Pressure**

250 psig (17,2 bar)

#### **Outlet Pressure Range**

See Table 3

#### **Temperature Capabilities**

-20° to 180°F (-29° to 82°C)

#### **Additional Technical Data**

For more technical information, contact your local LP-Gas Equipment Distributor or log on to: www.emersonprocess.com/regulators/lp



Figure 1. 627 Series Commercial/Industrial Regulator

#### **Features**

- · Rugged Construction
- · Field Adjustable
- Easy Maintenance
- · Tight Shutoff Capability
- · UL Listed

INLET PRESSURE
OUTLET PRESSURE
ATMOSPHERIC PRESSURE
ATMOSF HERIO F NESSONE
Firm 2 Constituted Colombia

Figure 2. Operational Schematic

Table 1. Body Size and End Connection Style				
TYPE NUMBER	BODY SIZE	END CONNECTION STYLI		
627-5810	014 1			
627-6210	3/4-inch	FNPT		
627-7710	1-inch			

BODY MATERIALS	SPRING CASING AND DIAPHRAGM CASING	ORIFICE	DIAPHRAGM AND O-RINGS	DISK HOLDER	DISK
Ductile iron	Aluminum	Aluminum	Nitrile (NBR)	Aluminum	Nitrile (NBR)

	Table 3. Ou	tlet Press	ure Range	
OUTLET PRESSURE RANGE	PART NUMBER	SPRING COLOR CODE	SPRING WIRE DIAMETER	SPRING FREE LENGTH
5 to 20 psig (0,3 to 1,4 bar)	10B3076X012	Yellow	0.170-inch (0,432 cm)	3.19-inches (8,10 cm)

Table 4. Capacities						
TYPE NUMBER	OUTLET PRESSURE SETTING	OUTLET PRESSURE RANGE	ORIFICE DIAMETER, INCHES (mm)	CAPACITY IN BTU/hr (SCMH) OF PROPANE(1)(2)		
627-5810	10 psig (0,7 bar)	and the same of th	3/8 (9,53)	6 080 000 (68.4)		
627-6210		5 to 20 psig (0.3 to 1.4 bar)	1/2 (12,7)	10 755 000 (121)		
627-7710		(0,0 to 1,4 bar)	1/2 (12,7)	10 773 000 (121)		

Capacities based on inlet pressure 20 psig (1.4 bar) greater than outlet pressure and 20% droop.

<sup>2.</sup> Metric conversion is based on 2516 BTU/ft<sup>3</sup> of gas at 60° (16°C).

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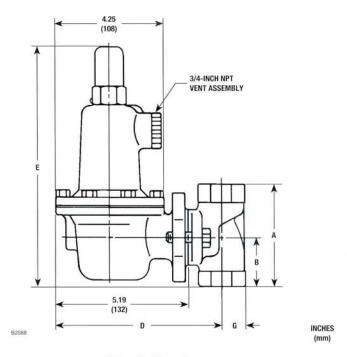


Figure 3. Dimensions

		Table 5. Dimer	nsions and Appro	oximate Weight		
BODY SIZE.		D	IMENSIONS, INCHES (mn	n)		APPROXIMATE
INCHES	А	В	D	E	G	WEIGHT, POUNDS (kg)
3/4 and 1	4.06 (103)	1.94 (49)	6.50 (165)	9.56 (243)	1.00 (25)	10 (4,54)

# **Ordering Guide**

Ordering Information					
TYPE NUMBER	ORIFICE SIZE, INCHES (mm)	BODY SIZES AND END CONNECTION STYLE	APPROXIMATE WEIGHT, POUNDS (kg		
627-5810	3/8 (9,53)	3/4-inch FNPT			
627-6210	1/2 (12,7)	3/4-inch FNPT	10 (4,54)		
627-7710	1/2 (12,7)	1-inch FNPT			

To order, refer to the Ordering Information table above and specify the type number that satisfies your requirement.

Then, contact or visit your local LP-Gas Equipment Distributor for availability.

