

# 04 Series

## Regulators - Pressure Reducing

D04XX1792X012

### Specifications

For other materials or modifications, please consult TESCOM.

#### OPERATING PARAMETERS

Pressure rating per criteria of ANSI/ASME B31.3

**Maximum Inlet Pressure**

3500 psig / 241 bar

**Outlet Pressure Ranges**

0-30, 0-60, 0-100 psig  
0-2.1, 0-4.1, 0-6.9 bar

**Design Proof Pressure**

150% of maximum rated

**Leakage**

**Internal:** Bubble-tight

**External:**  $< 1 \times 10^{-6}$  atm cc/sec He

**Operating Temperature<sup>1</sup>**

-40°F to 165°F / -40°C to 74°C

**Flow Capacity**

$C_v = 0.06$

**Maximum Operating Torque**

30 in-lbs / 3.4 N•m

**Decaying Inlet Characteristic**

**1.0 Change:** 100 psig / 6.9 bar



TESCOM 04 Series space saving and lightweight miniature regulator offers minimal internal volume and is easy to purge resulting in less retention.

#### MEDIA CONTACT MATERIALS

**Body**

316 Stainless Steel, Brass or Aluminum

**Diaphragm**

Elgiloy®

**Seat**

CTFE<sup>1</sup>, Teflon® or Vespel®

**Friction Sleeve (inner)**

Teflon®

**Remaining Parts**

316 Stainless Steel or Brass (on Brass models)

#### OTHER

**Cleaning**

CGA 4.1 and ASTM G93

**Connections**

1/8" or 1/4" NPTF

**Internal Volume**

3.03 cc

**Weight (without gauges)**

**Stainless or Brass Models:** 1 lb / 0.5 kg

**Aluminum Models:** 0.5 lb / 0.2 kg

Teflon® and Vespel® are registered trademarks of E.I du Pont de Nemours and Company.

Elgiloy® is a registered trademark of Elgiloy Corp.

1. CTFE option: maximum temperature of 140°F / 60°C

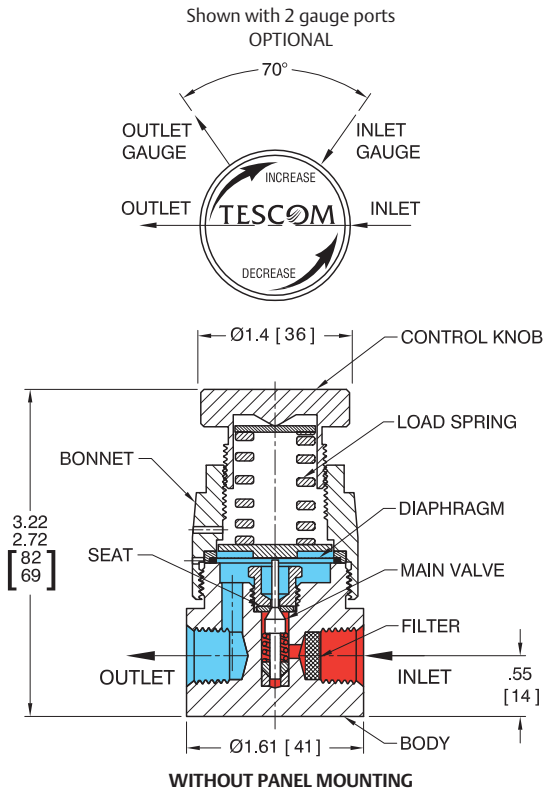
### Applications

- Analyzers
- Lecture bottles
- Sampling systems

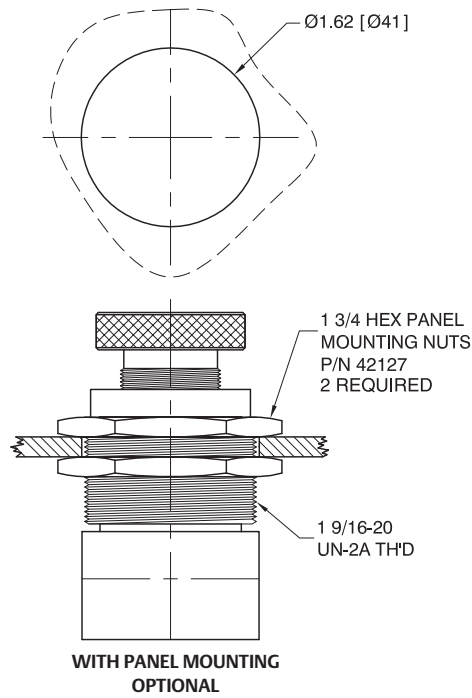
### Features and Benefits

- Compact size (3" / 76 mm high) and constructed with lightweight materials
- Available in 316 Stainless Steel, Brass, or Aluminum body construction
- Elgiloy® diaphragm provides accurate and stable pressure control
- Minimal internal volume allows for rapid purging and carry-over
- Corrosion resistant
- Various porting configurations are available

04 Series Regulator Drawing



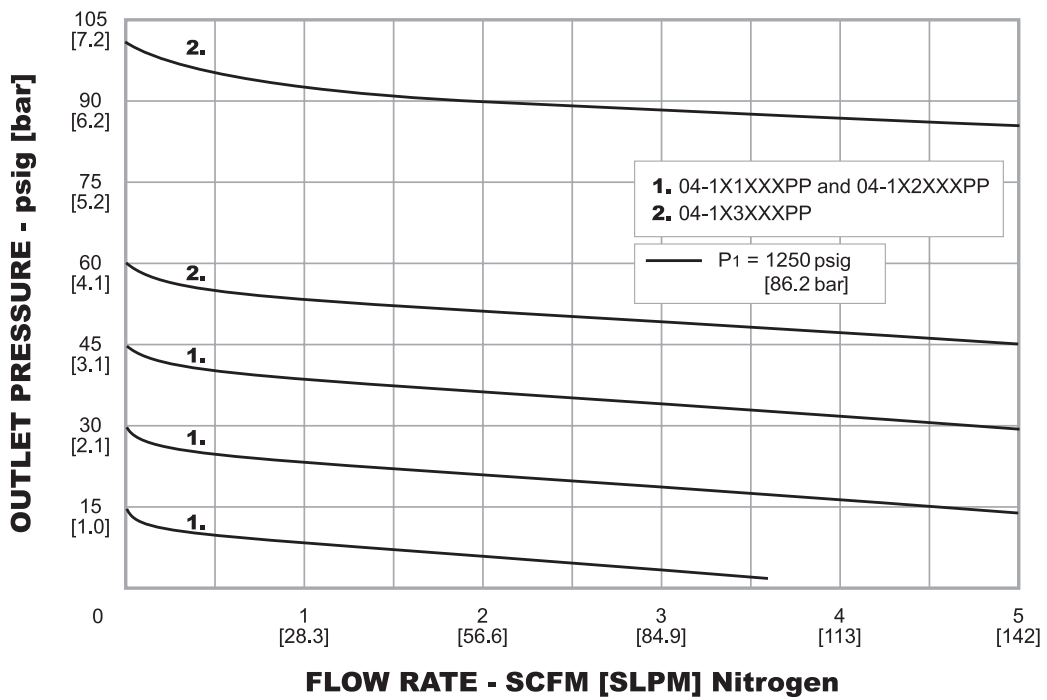
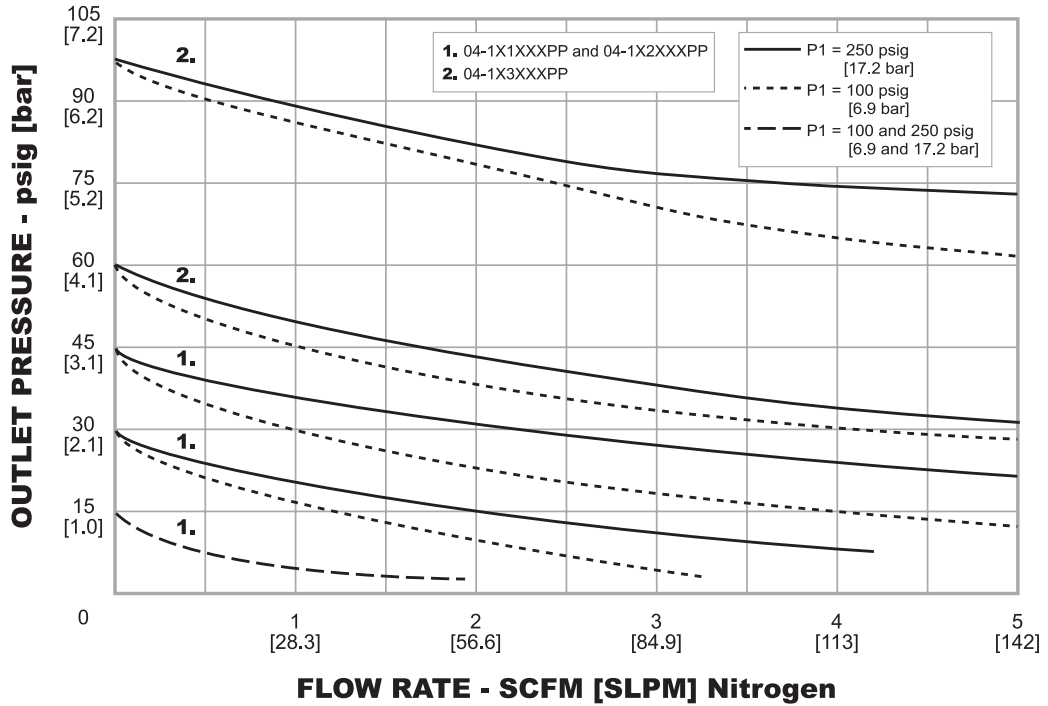
Required mounting hole for panel mounting



All dimensions are reference & nominal  
Metric [millimeter] equivalents are in brackets

## 04 Series Regulator Flow Charts

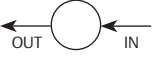







For more information on how to read flow curves, please refer to the Flow Curves and Calculations document (debul2007x012) in the TESCOM catalog or on [www.tescom.com](http://www.tescom.com).



## 04 Series Regulator Part Number Selector

Repair Kits, Accessories & Modifications may be available for this product. Please contact TESCOM for more information.

Example for selecting a part number:

04-1	A	3	E	AA	PP	Z	
BASIC SERIES	INLET PRESSURE TRIM MATERIAL	BODY AND SEAT MATERIAL	OUTLET PRESSURE	ADJUSTMENT	GAUGE PORT OPTIONS SIZE, TYPE AND (NUMBER OF PORTS)	INLET AND OUTLET PORTS SIZE AND TYPE	OPTIONS
04-1	A – 3500 psig 241 bar 316 Stainless Steel	316/316L Stainless Steel Teflon®	1 – 0-30 psig 0-2.1 bar 2 – 0-60 psig 0-4.1 bar 3 – 0-100 psig 0-6.9 bar	Without Panel Mounting A – Black knob  With Panel Mounting E – Black knob	 <p>AA – No Gauge Ports (0)</p>	PP – 1/8" NPTF NN – 1/4" NPTF	Z – None
					 <p>AF – 1/4" NPTF (1) AG – 1/8" NPTF (1)</p>		
	 <p>AT – 1/8" NPTF (2)</p>						
	 <p>BF – 1/4" NPTF (1) BG – 1/8" NPTF (1)</p>						
	 <p>BT – 1/8" NPTF (2)</p>						
	 <p>CS – 1/4" NPTF (2)</p>						
	 <p>DS – 1/4" NPTF (2)</p>						
	 <p>GF – 1/4" NPTF (2)</p>						



**WARNING!** Do not attempt to select, install, use or maintain this product until you have read and fully understood the TESCOM Safety, Installation and Operation Precautions.

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