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 x 10⁻⁶ atm cc/sec He

Operating Temperature¹

-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

MEDIA CONTACT MATERIALS

Body

316 Stainless Steel, Brass or Aluminum

Diaphragm

Elgiloy®

Seat

CTFE1, 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



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

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

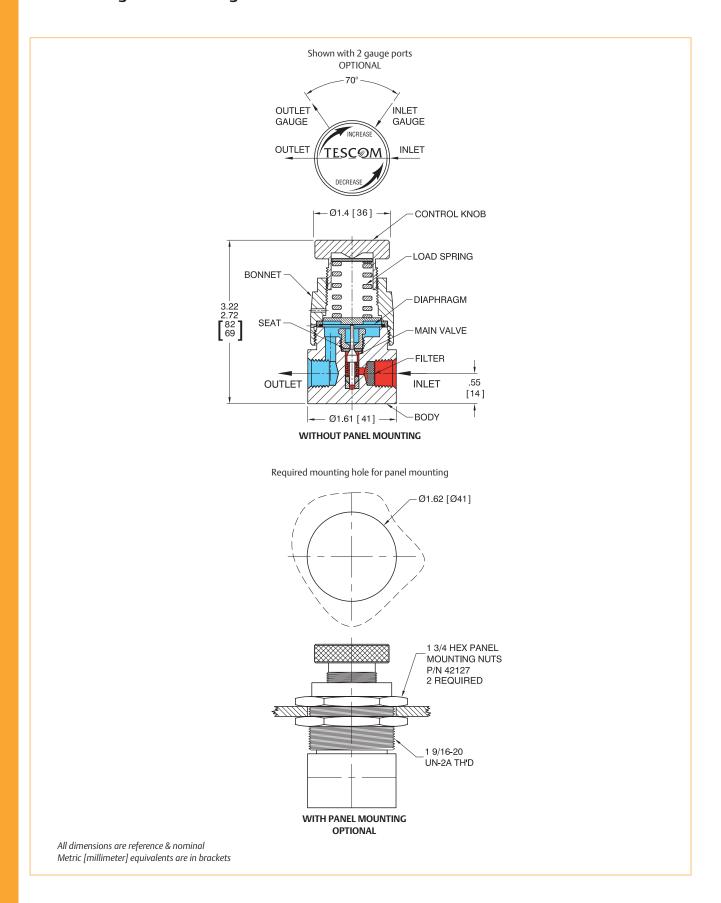






TESCOM

04 Series Regulator Drawing

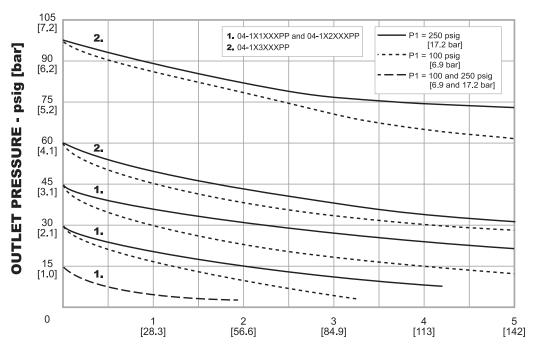




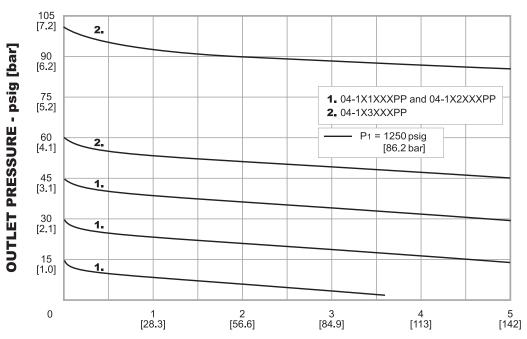


04 Series Regulator Flow Charts

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.



FLOW RATE - SCFM [SLPM] Nitrogen



FLOW RATE - SCFM [SLPM] Nitrogen



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	e for selecting a part numbl 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 B – 3500 psig 241 bar 316 Stainless Steel/Brass	316/316L Stainless Steel Teflon® Brass 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	AA – No Gauge Ports (0) OUTLET GAUGE OUT	PP – 1/8" NPTF NN – 1/4" NPTF	Z – None
	C – 3500 psig 241 bar 316 Stainless Steel/Brass	Aluminum Teflon®			AF - $1/4^{\circ}$ NPTF (1) AG - $1/8^{\circ}$ NPTF (1) OUTLET 70° INLET		
	D – 3500 psig 241 bar 316 Stainless Steel	316/316L Stainless Steel CTFE			GAUGE OUT IN AT – 1/8" NPTF (2)		
	E – 3500 psig 241 bar 316 Stainless Steel/Brass	Brass CTFE			OUTLET GAUGE OUT		
	F – 3500 psig 241 bar 316 Stainless Steel/Brass	Aluminum CTFE			BF - 1/4" NPTF (1) BG - 1/8" NPTF (1) INLET 70° OUTLET GAUGE		
	G – 3500 psig 241 bar 316 Stainless Steel	316/316L Stainless Steel Vespel®			IN OUT BT – 1/8" NPTF (2)		
	H – 3500 psig 241 bar 316 Stainless Steel/Brass	Brass Vespel®			OUTLET GAUGE		
	J – 3500 psig 241 bar 316 Stainless Steel/Brass	Aluminum Vespel®					
					OUT IN INLET GAUGE		
					DS – 1/4" NPTF (2)		
					OUT IN OUTLET GAUGE		
					GF – 1/4" NPTF (2)		

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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.



