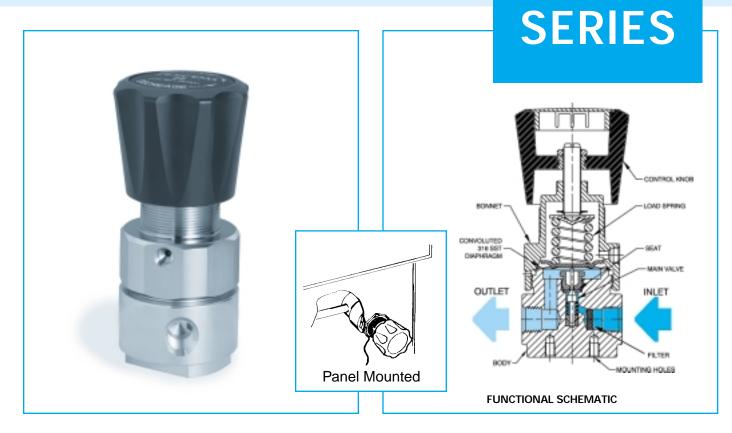
GENERAL PURPOSE

PRESSURE REDUCING REGULATOR



COMPACT • CORROSION RESISTANT

The compact 44-2200 Series is a hand adjustable, spring-loaded, diaphragm-sensed, pressure reducing regulator designed to reduce contamination and provide accurate regulation of any corrosive, non-corrosive or toxic gas. All parts in model 44-226X exposed to the media are constructed of 316 stainless steel or Teflon[®]. The 44-221X model brass regulator provides added economy for the control of non-corrosive media.

The metal to metal diaphragm to body seal assures minimum inboard and outboard leakage. The specially designed convoluted stainless steel diaphragm gives excellent accuracy and long life. Five outlet pressure ranges are available: 1-25, 1-50, 1-100, 2-250 and 2-500 PSIG (.1-1.7, .1-3.4, .1-6.9, .1-17.2 and .1-34.5 bar).

- Low cost 316 stainless steel or brass regulator
- Design maximum inboard leak rate: < 2 x 10⁻⁸ atm cc/sec Helium*
- Five outlet pressure ranges available
- Metal-to-metal diaphragm to body seal
- Convoluted 316 SST diaphragm
- Dome loaded version available
- · Panel mounting optional

DIAPHRAGM SENSED

44-2200

TYPICAL APPLICATIONS

Regulating Corrosive & Specialty Gases

Gas Chromatography

Liquid Chromatography

Research Labs

Research Sampling Systems

Petrochem Applications

Instrumentation



INDUSTRIAL CONTROLS DIVISION 12616 Industrial Boulevard Elk River, Minnesota 55330-2491

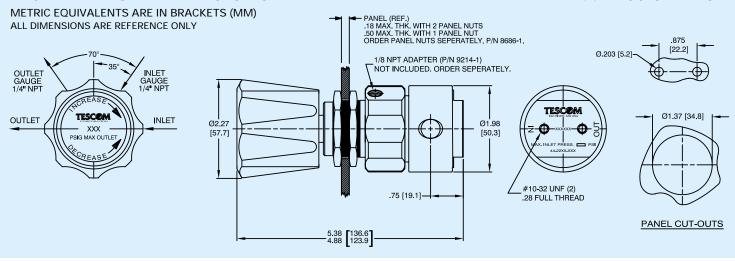
1-800-447-1250 (612) 241-3238 Fax: (612) 241-3224

> e-mail: icd@tescom.com www.tescom.com

* Does not apply to venting models

INSTALLATION DIMENSIONS

44-2200 SERIES



SPECIFICATIONS

FLUID MEDIA –All gases corrosive or non-corrosive that are compatible with materials of construction. For other media, consult factory.*

PRESSURE RATING - Per criteria of ANSI / ASME B31.3.

Control pressure ranges 1-25, 1-50, 1-100 , 2-250 and 2-500 PSIG (.1-1.7, .1-3.4, .1-6.9, .1-17.2 and .1-34.5 bar)

Materials in contact with media:

FI

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W

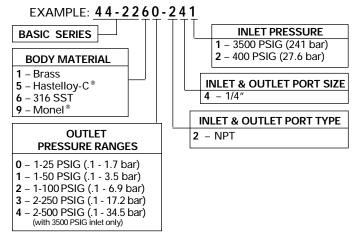
M

Body	Brass, 316 SST, Haste	elloy-C [®] ** or Monel [®] **
	າ	
Vent seat (venting	models only)	PCTFE
Friction sleeve (in	ner)	
low capacity		High pressure: $C_V = .06$
		Low pressure: C _V = .15
esign maximum inb	ooard leak rate	. 2 x 10 ⁻⁸ atm cc/sec He
perating temperatur	re40°F to -	+165°F (-40°C to +74°C)
Veight (w/o gauges)		2 lbs. (.9 kg)
orts-Low pressure	(2) 1/4" N	NPT inlet & outlet ports
High pressure	(4) 1/4" NPT inlet & out	tlet ports & gauge ports
laximum operating	torque	30 lbin. (3.4 Nm)

*NOTE: Tescom may make suggestions for a material to use with a specific media. These suggestions will be based on technical compatibility resources both through associations and manufacturers. Tescom does not guarantee the material to be compatible with the specific media – this is the responsibility of the user – users must test under their own operating conditions to determine the suitability of any material in a particular application.

** Consult factory for materials used in Hastelloy-C° or Monel *regulators.

ORDERING INFORMATION



Teflon[®] is a registered trademark of DuPont. Hastelloy[®] is a registered trademark of Haynes Int'l Monel[®] is a registered trademark of Huntington Alloys

ACCESSORIES (additional cost)

REPAIR KITS		
Model Numb	er Standard Repair Kit	Soft Goods Kit
44-22XX-241	P/N 389-6342	P/N 389-6341
44-22XX-242	P/N 389-6350	P/N 389-6348

Consult factory for Repair Kits for regulator modifications and for kit part numbers for Hastelloy® or Monel® regulators.

PANEL MOUNTING NUT(S)	. P/N 8686-1	
MOUNTING BRACKET	P/N 7743	
1/8" NPT Adapter for captured vent port P/N 9214-1		
GAUGES: Consult GAUGES catalog page.		

CLEANING

STANDARD CLEANING: Regulators are cleaned in accordance with the "intermediate" level of ASTM-G93 and CGA 4.1. The "intermediate" level assures removal of visible particles and combustible residues.

OXYGEN SERVICE: System designers must verify the compatibility of materials used in this product before installation and operation. Specification of materials for oxygen service is the USER'S RESPONSIBILITY. Cleaning for oxygen service per the "intermediate" level requirements of ASTM-G93 and CGA 4.1 is supplied by Tescom.

FLOW CHARTS (metric units are in parentheses) REGULATOR DISCHARGE CHARACTERISTICS CURVES

