

### SY- REGULATORS - PRESSURE REDUCING

### **Specifications**

For other materials or modifications, please consult TESCOM.

#### **OPERATING PARAMETERS**

Pressure rating per criteria of ANSI/ASME B31.3

<b>Maximum Inlet Pressure</b>
Stainless Steel Body

4500 psig / 310 bar

6000 psig / 414 bar available

#### **Brass Body**

3750 psig / 259 bar

5000 psig / 345 bar available

#### **Outlet Pressure Ranges**

0-300, 0-600, 0-1000 and 0-1500 psig

0-20.7, 0-41.4, 0-69.0 and 0-103 bar

0-2500 psig / 0-172 bar available

#### **Design Proof Pressure**

150% of rated pressure

#### Leakage

Bubble-tight

#### **Operating Temperature1**

-15°F to 220°F / -26°C to 104°C

#### Flow Capacity2

**1/4" Main Valve:** Cv = 0.8

**3/8" Main Valve:** Cv = 2.0

### **Applications**

- Commercial diving breathing air
- Special gas mix regulation hard suit diving
- High pressure tube trailer gas reduction







TESCOM 44-1300 Series is a high pressure, high flow pressure reducing regulator that offers a venting and balanced valve design. The 44-1300 Series provides Cv = 0.8 and 2.0. Dome and air load options are available.

#### **Features and Benefits**

- Large piston sensor gives excellent sensitivity
- Balanced valve design ensures stable downstream pressure
- Large handknob provides fast low-torque pressure settings
- Venting is standard
- Available with gauge ports
- Dome and air loaded models are available
- (non-venting only)
- Flanged end connections available



















## **SY- REGULATORS - PRESSURE REDUCING**

#### **MEDIA CONTACT MATERIALS**

Body
Brass, 303 Stainless Steel or 316 Stainless
Steel
Seat, Main Valve
PCTFE (Except: 44-13X2-XXX2, PTFE)
Seat, Vent Valve
PTFE: 300 and 600 psig / 20.7 and 41.4 bar
outlet
PCTFE: 1000 and 1500 psig / 69.0 and 103
bar outlet
O Dings
O-Rings
FKM (Viton®-A)
FKM (Viton®-A)
FKM (Viton®-A)  Back-up Rings
FKM (Viton®-A)  Back-up Rings  PTFE
FKM (Viton®-A)  Back-up Rings  PTFE  Gaskets
FKM (Viton®-A)  Back-up Rings  PTFE  Gaskets  PCTFE
FKM (Viton®-A)  Back-up Rings  PTFE  Gaskets  PCTFE  Remaining Parts

#### **OTHER**

Cleaning
CGA 4.1 and ASTM G93
Weight (without gauges)
6.25 lbs / 2.8 kg

- 1. For extended temperatures from -40°F to 400°F / -40°C to 204°C, consult TESCOM.
- 2. A secondary pressure drop due to the outlet cross-hole can significantly affect the rated flow capacity. Flow curves should be used for critical sizing applications.

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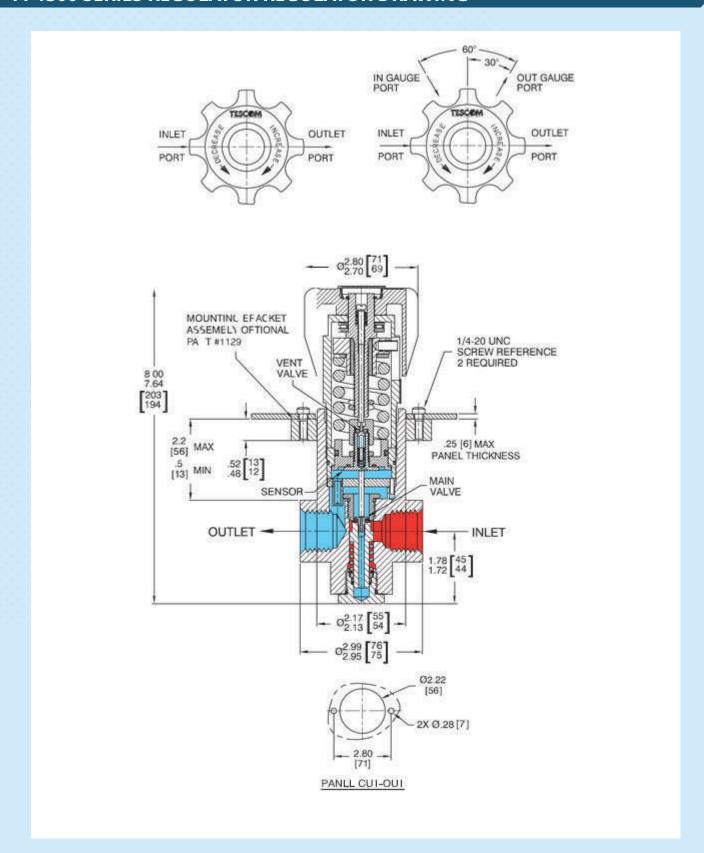








## SY-44-1300 SERIES REGULATOR REGULATOR DRAWING



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



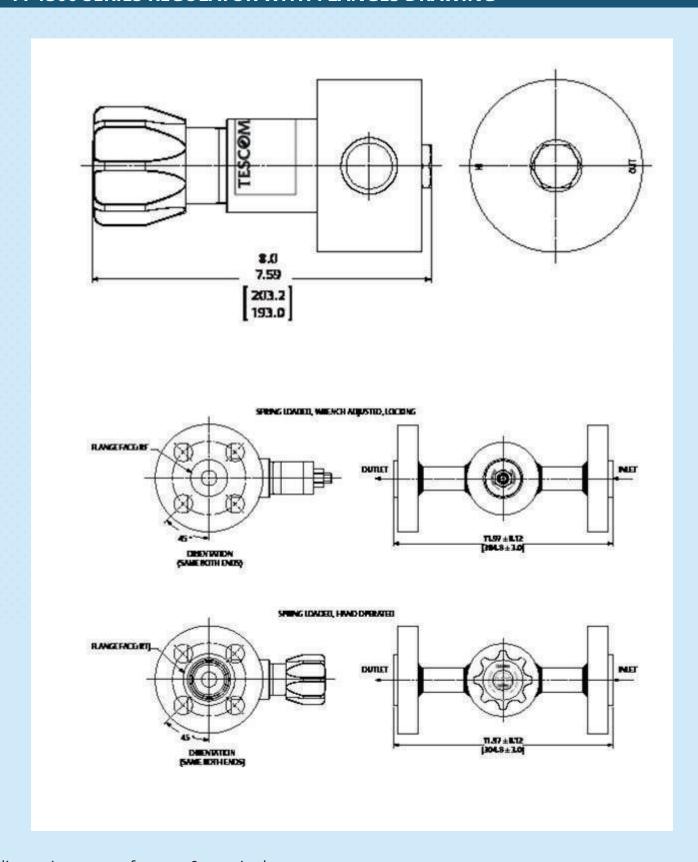








## SY- 44-1300 SERIES REGULATOR WITH FLANGES DRAWING



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





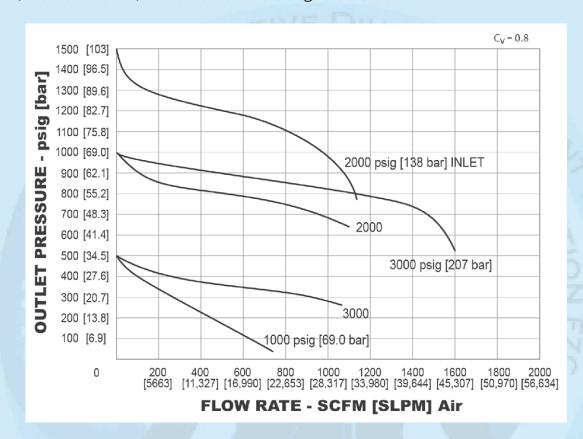


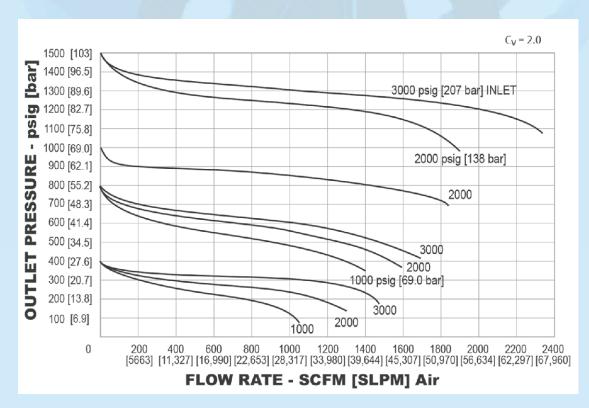




### **SY-44-1300 SERIES REGULATOR FLOW CHARTS**

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















## **SY-44-1300 SERIES REGULATOR PART NUMBER SELECTOR**

## Learn more about common options.

For modifications, repair kits and accessories, contact factory.

Threaded End Connector Part Number Selection:

#### **DOME LOAD/SPRING BIAS**

44-13 6 1 2 4

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BASIC	BODY	INLET	OUTLET PRESSURE	PORT TYPE	PORT SIZE	MAIN VALVE
SERIES	MATERIAL	PRESSURE	RANGES0			
44-13	1 – Brass	3750 psig	2 - 0-300 psig	1 – SAE	08 - 1/2"	1 - 1/4" Cv = 0.8
		259 bar	0-20.7 bar	2 – NPTF	12 - 3/4"	2 - 3/8" Cv = 2.0
	2 – 303	4500 psig	3 - 0-600 psig	3 - MS33649		
	Stainless	310 bar	0-41.4 bar	9 – BSPP		
	Steel		5 – 0-1000 psig			
	6 – 316	4500 psig	0-69.0 bar			
	Stainless	310 bar	6 - 0-1500 psig			
	Steel		0-103 bar			
			7 – 0-2500 psig			
			0-172 bar			
			(-056 Mod only			

OPTIONS
- 002 Modification – Non-venting, no gauge ports
- 005 Modification – Venting with gauge ports
- 019 Modification – Non-venting with gauge ports
- 056 Modification – 6000 or 5000 psig / 414 or 345 bar
inlet pressure with 2500 psig / 172 bar outlet pressure
- 183 Modification – Corrosion Resistant Top Works











## **SYNERGY INFRASTRUCTURE**





## **DIVE CONTROL-THREE DIVER GAS PANEL**

# **Contact us**

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