D44130549X012

Specifications

For other materials or modifications, please consult TESCOM.

OPERATING PARAMETERS

Pressure rating per criteria of ANSI/ASME B31.3

Maximum Inlet Pressure 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: C_V = 0.8 3/8" Main Valve: C_V = 2.0

MEDIA CONTACT MATERIALS

Body

Brass, 303 or 316 Stainless Steel

Seat, Main Valve CTFE (Except: 44-13X2-XXX2, Teflon[®])

Seat, Vent Valve Teflon[®]: 300 and 600 psig / 20.7 and 41.4 bar outlet

CTFE: 1000 and 1500 psig / 69.0 and 103 bar outlet O-Rings

Viton-A[®]

Back-up Rings Teflon[®]

Gaskets

CTFE

Remaining Parts

300 Series Stainless Steel, 17-4, 17-7 Stainless Steel, Teflon[®] and Brass

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.
- 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.

Teflon $^{\otimes}$ and Viton $^{\otimes}$ are registered trademarks of E.I. du Pont de Nemours and Company.



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 $C_V = 0.8$ and 2.0. Dome and air load options are available.

Applications

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

Features and Benefits

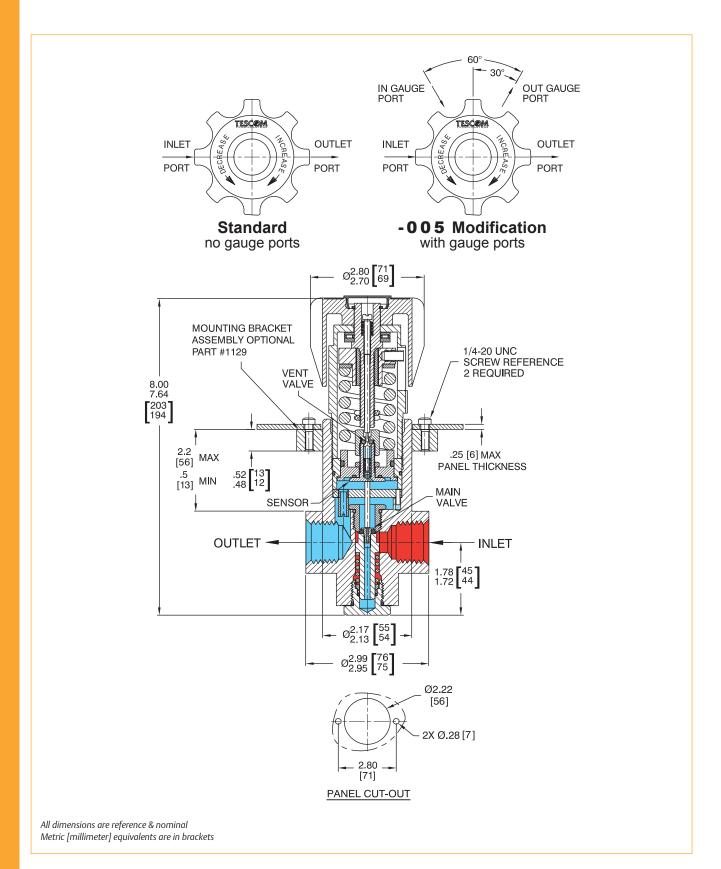
- Large piston sensor gives excellent sensitivity
- Balanced valve design ensures stable downstream pressure
- Large handknob provides fast low-torque pressure settings
- Venting is standard
- Available with gauge ports
- Dome and air loaded models are available (non-venting only)





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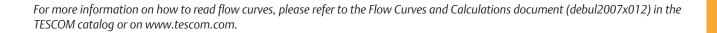
44-1300 Series Regulator Drawing

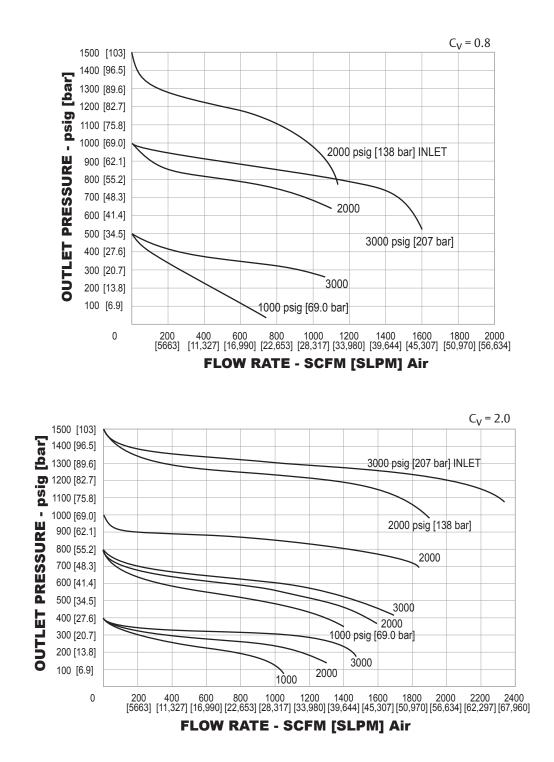




TESC@M[®]

44-1300 Series Regulator Flow Charts







TESCØM

44-1300 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:

44-13	1		3	- 2	08	1	
BASIC SERIES	body Material	INLET PRESSURE	OUTLET PRESSURE RANGE	PORT TYPE	PORT SIZE	MAIN VALVE	OPTIONS
44-13	 Brass 303 Stainless Steel 316 Stainless Steel 	3750 psig 259 bar 4500 psig 310 bar 4500 psig 310 bar	 2 - 0.300 psig 0.20.7 bar 3 - 0.600 psig 0.41.4 bar 5 - 0.1000 psig 0.69.0 bar 6 - 0.1500 psig 0.103 bar 7 - 0.2500 psig 0.172 bar (-056 Mod only) 			1 - 1/4 [*] C _V = 0.8 2 - 3/8 [*] C _V = 2.0	 - 056 Modification – 6000 or 5000 psig / 414 or 345 bar inlet pressure with 2500 psig / 172 bar outlet pressure - 002 Modification – Non-venting, no gauge ports - 019 Modification – Non-venting with gauge ports

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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.

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