

44-1500 Series

Regulators - Pressure Reducing

D44151937X012

Specifications

For other materials or modifications, please consult TESCOM.

OPERATING PARAMETERS

Pressure rating per criteria of ANSI/ASME B31.3

Maximum Inlet Pressure	6000 psig / 414 bar
Outlet Pressure Ranges	
Spring Loaded:	0-200, 0-400 psig / 0-14, 0-28 bar
Air/Dome Loaded:	0-600 psig / 0-41 bar
Design Proof Pressure	150% maximum pressure
Leakage	Bubble-tight
Ambient Operating Temperature	-15°F to 165°F / -26°C to 74°C
Flow Capacity	$C_v = 0.3$
Maximum Operating Torque	25 in-lbs / 2.8 N • m
Decaying Inlet Characteristic	0.1 per 100 psig / 0.007 per 6.9 bar

MEDIA CONTACT MATERIALS

Body	316 Stainless Steel or Brass
40 Micron Filter	Bronze
Main Valve Seat	Vespel® SP21
Vent Valve Seat	Vespel® SP21
O-Ring	Buna-N, Viton®, Kalrez®, E.P.
Back-up Rings	Teflon®
Remaining Parts	300 Series Stainless Steel, Brass, Monel

OTHER

Cleaning	CGA 4.1 and ASTM G93
Weight	4.75 lbs / 2.2 kg

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



TESCOM 44-1500 Series high flow/low pressure regulator controls outlet pressures up to 600 psig / 41 bar. Large area piston provides accurate pressure control and cycle life superior to diaphragm sensed regulators when applied to heavy duty cycling. Features a segregated/captured vent for hydraulic or pneumatic media and is available in two outlet spring ranges. Optional dome or air loaded versions for remote operation or for use with the TESCOM ER3000 Electropneumatic Controller for automation.

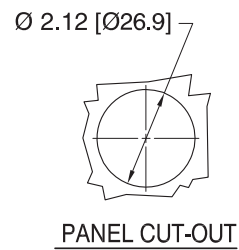
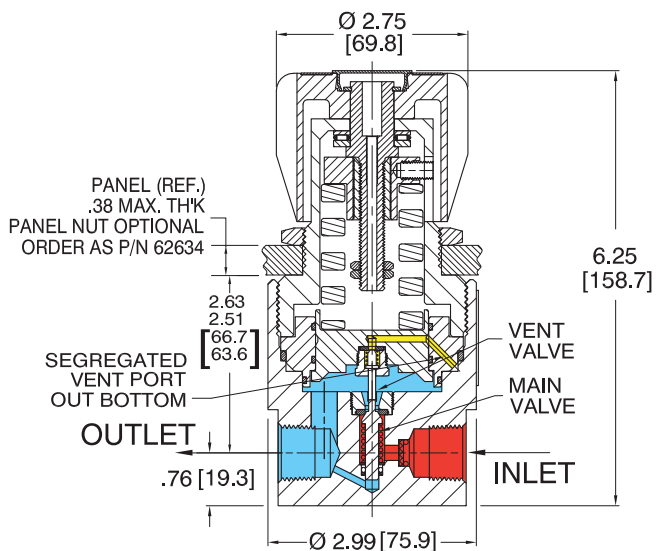
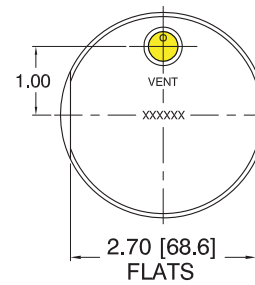
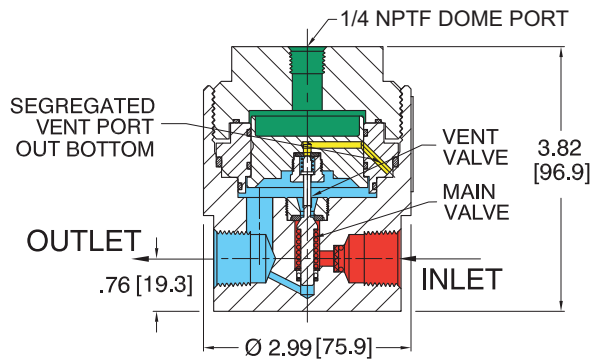
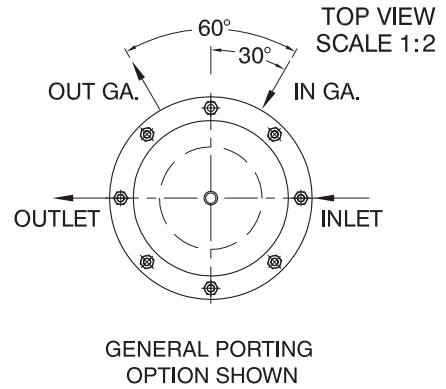
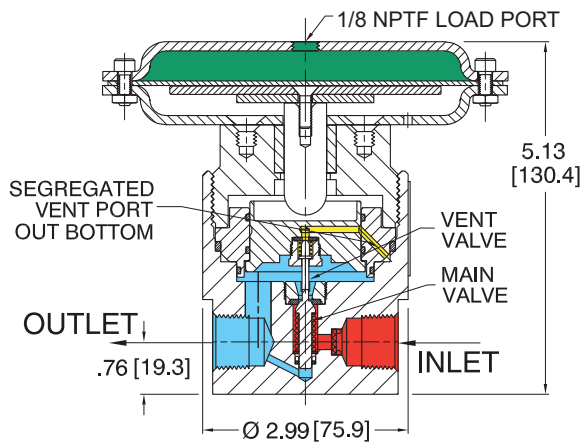
Applications

- Hydraulic testing
- Pneumatic testing

Features and Benefits

- For gaseous and liquid media
- “Segregated and Captured” vent design is standard
- Balanced valve design ensures stable downstream pressure
- 6000 psig / 414 bar maximum inlet
- Low droop
- Large sensor for accurate pressure control
- High flow, low outlet pressures
- Compatible with TESCOM ER3000 Electropneumatic Controller

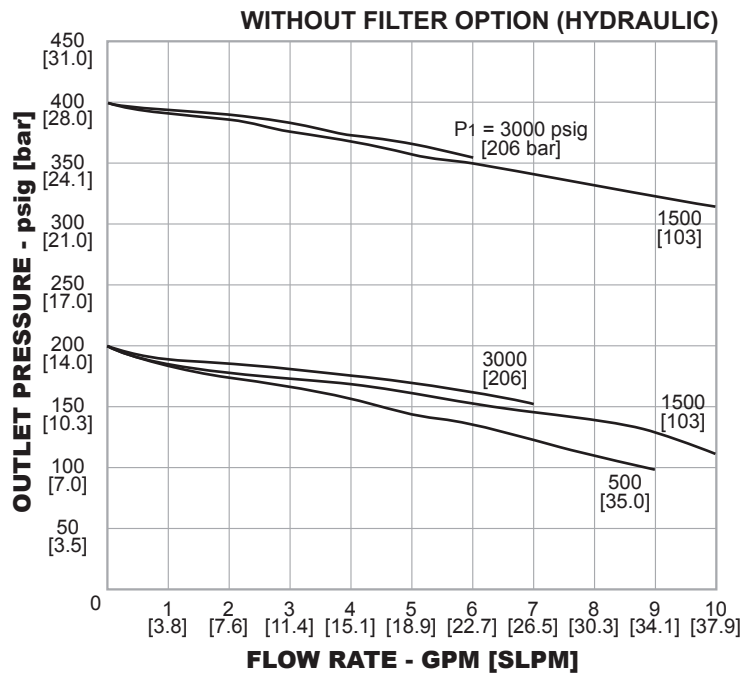
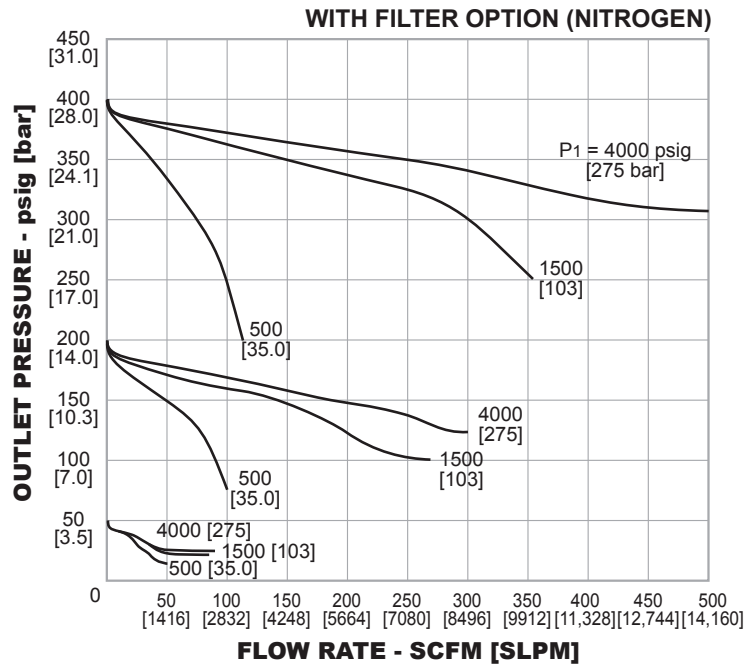
44-1500 Series Regulator Drawings



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

44-1500 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.



44-1500 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:

A - Air loaded
D - Dome loaded
S - Spring loaded

44-15 1 4 D 2 8 5 2 7 2

BASIC SERIES	BODY MATERIAL	MATERIALS CONTACTING LINE MEDIA	OUTLET PRESSURE	SOFT GOODS MATERIAL			INLET AND OUTLET PORT TYPE	VENT PORT	INLET AND OUTLET PORT SIZE	FILTER OPTION	MAIN VALVE AND VENT SEAT MATERIAL	GAUGE PORT OPTIONS 1/4" NPTF
				O-RING DYNAMIC	O-RING STATIC	BACKUP RING						
44-15	1 - Brass	Brass, Monel, 300 Series Stainless Steel	Spring load only 2 - 10-200 psig 0.7-14 bar 4 - 10-400 psig 0.7-28 bar	D - Buna-N	Buna-N	Teflon®	1 - SAE 1/4" SAE		6 - 3/8"	2 - WITH Filter*	7 - Vespel® SP21	0 - None
	6 - 316 Stainless Steel	Monel, 300 Series Stainless Steel	Air and Dome load only 6 - 10-600 psig 0.7-41 bar	T - Viton®	Viton®	Teflon®	2 - NPTF 1/4" NPTF		8 - 1/2"	3 - NO Filter	8 - PEEK	1 - One Outlet Gauge at 90°
				V - Kalrez®	Kalrez®	Teflon®	3 - MS33649 1/4" MS33649					2 - Two Gauge Ports at 90°
				Z - E.P.	E.P.	Teflon®						3 - Two Gauge Ports at 60° (left hand inlet)
												4 - One Outlet Ports at 90° (left hand inlet)

*Filter not recommended for liquid service.