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

MEDIA CONTACT MATERIALS

Body
316 Stainless Steel or Brass

40 Micron Filter
Bronze

Main Valve Seat
Polyimide (Vespel® SP21)

Vent Valve Seat
Polyimide (Vespel® SP21)

O-Ring
Nitrile, Buna-N, FKM (Viton®-A), FFKM, Perfluoroelastomer (Kalrez®), E.P.

Back-up Rings
PTFE

Remaining Parts
300 Series Stainless Steel, Brass, Nickel Alloy (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 ER5000 Electropneumatic Controller for automation.

Applications

- Hydraulic testing
- Pneumatic testing

Features and Benefits

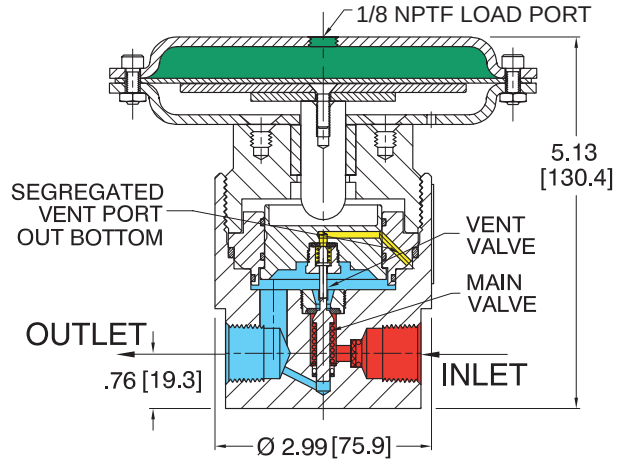
- For gaseous and liquid media
- “Segregated and Captured” vent design is standard
- Balanced valve design ensures stable downstream pressure
- 6000 psig / 414 bar maximum inlet
- Low droop
- Large sensor for accurate pressure control
- High flow, low outlet pressures
- Compatible with TESCOM ER5000 Electropneumatic Controller

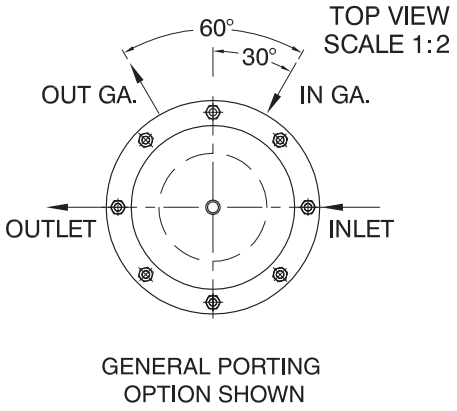
NOTE:
When choosing a regulator and control pressure, decaying inlet characteristic must be considered when the supply pressure is expected to change. The decaying inlet characteristic of a pressure reducing regulator is commonly known as the increase in control pressure due to the decrease in supply pressure. It is important to make sure this effect does not cause the control pressure to exceed the pressure rating of the unit’s outlet or that of the downstream system.

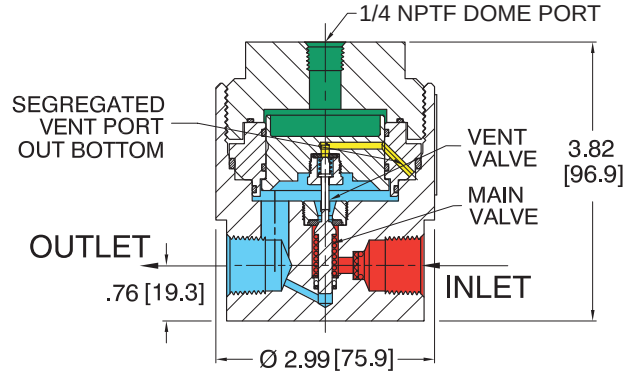
For more information on decaying inlet, please refer to the Technical Information section of the product catalog and/or contact the TESCOM customer support further assistance.

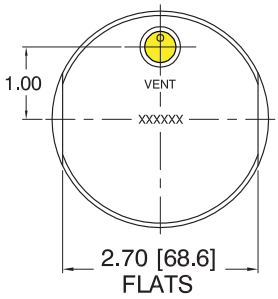
44-1500 SERIES

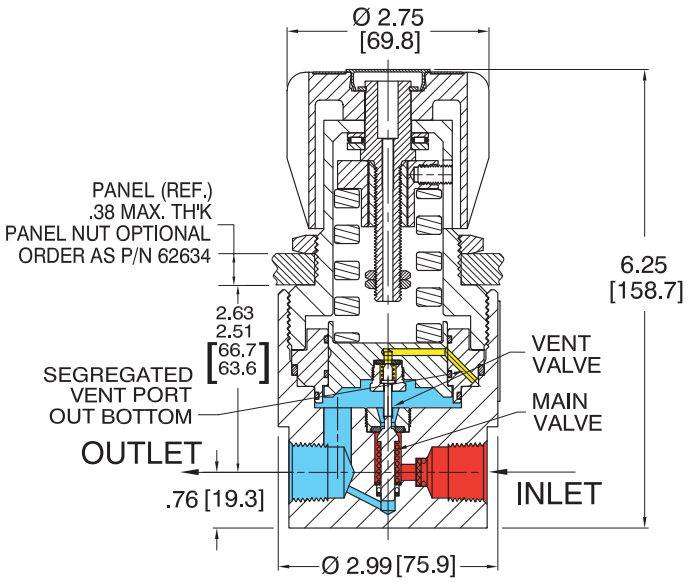
44-1500 Series Regulator Drawings

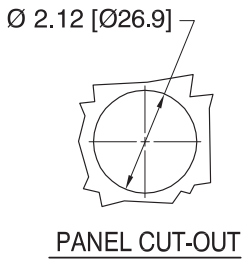








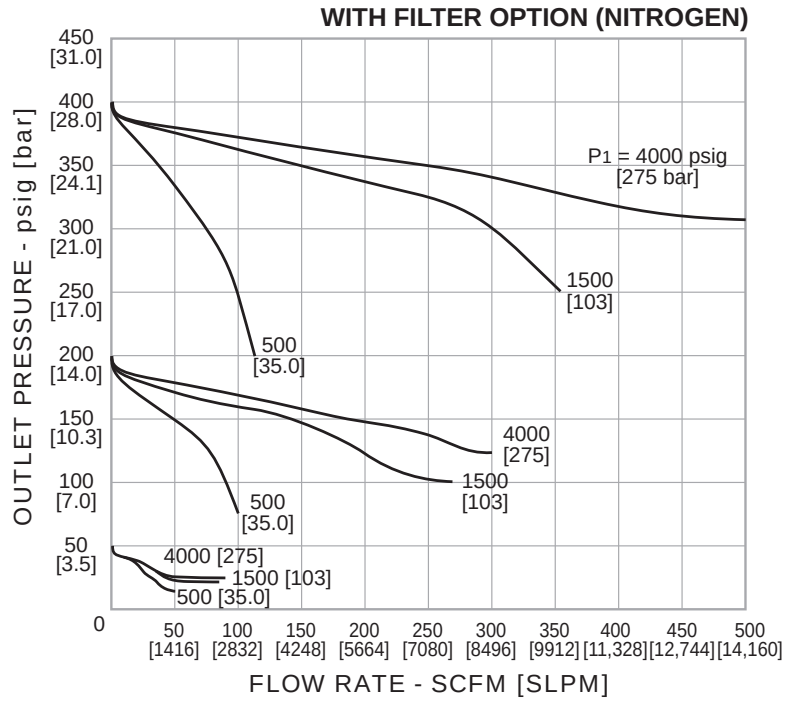


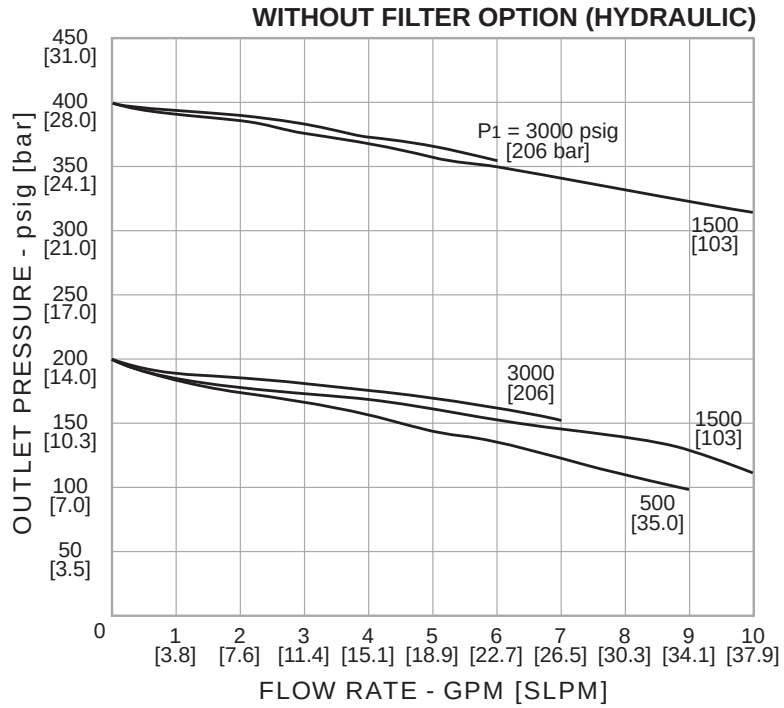


All dimensions are reference & nominal
Metric [millimeter] equivalents are in brackets

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

44-1500 Series Regulator Part Number Selector

Learn more about common options.
For modifications, repair kits and accessories, contact factory.

Example for selecting a part number:

A – Air loaded
D – Dome loaded
S – Spring loaded

44-15	1	4	D			2	S	8	2	7
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**
				O-RING		**BACK-UP RING**						
				DYNAMIC	**STATIC**							
44-15	**1** – Brass	Brass, Nickel Alloy (Monel®), 300 Series Stainless Steel	***Spring load only***	**D** – Nitrile, Buna-N	Nitrile, Buna-N	PTFE		**1** – SAE	1/4" SAE	**6** – 3/8"	**2** – WITH Filter*	**7** – Polyimide (Vespel® SP21)
	6 – 316 Stainless Steel	Nickel Alloy (Monel®), 300 Series Stainless Steel	**2** – 10-200 psig 0.7-14 bar	**T** – FKM (Viton®-A)	FKM (Viton®-A)	PTFE		**2** – NPTF	1/4" NPTF	**8** – 1/2"	**3** – NO Filter	**8** – PEEK
			4 – 10-400 psig 0.7-28 bar	**V** – FFKM, Perfluoroelastomer (Kalrez®)	FFKM, Perfluoroelastomer (Kalrez®)	PTFE		**3** – MS33649	1/4" MS33649			
			Air and Dome load only	**Z** – E.P.	E.P.	PTFE						
			6 – 10-600 psig 0.7-41 bar									

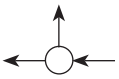
*Filter not recommended for liquid service.

2

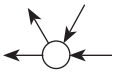
GUAGE PORT OPTIONS 1/4" NPTF

0 - None

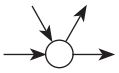
1 - One Gauge Port at 90°



2 - Two Gauge Port at 90°



3 - Two Gauge Port at 60° (left hand inlet)



4 - Outlet Port at 90° (left hand inlet)