

Absolute Pressure
atmospheric to 400 PSIG in/28" Hg Vac to 15 PSIG out
pressure reducing

44-4600 Series

Specifications

❑ Operating Parameters

pressure rating per criteria of ANSI/ASME B31.3
inlet pressure range atmospheric to
400 PSIG (27.5 bar)
outlet pressure range 28" Hg Vac to 15 PSIG
(-0,95 to 1 bar)
design proof pressure 150% maximum
rated pressure

leakage:

internal bubble-tight
external . . . design to meet: $< 2 \times 10^{-8}$ atm cc/sec He
operating temperature -40° F to +165° F
(-40° C to +74° C)

flow capacity $C_v = .24$
maximum operating torque (hand knob) . . . 30 lb.-in
(3.4 Nm)

❑ Media Contact Materials

body 316 Stainless Steel
diaphragm 316 Stainless Steel
seat Teflon®
spring (main valve) Elgiloy®
spring (bias) 316 Stainless Steel
remaining parts 316 Stainless Steel

For other materials and modifications, please consult TESCO.

❑ Cleaning CGA 4.1 and ASTM G93

❑ Weight (without gauges) 2.75 lbs. (6.0 kg)

Pressure Conversion 14.2 PSIG = 1 kg/cm² 145 PSIG = 1 MPa

Teflon® is a registered trademark of DuPont.

Elgiloy® is a registered trademark of Elgiloy Specialty Metals.

SPRING LOADED



DOME LOADED

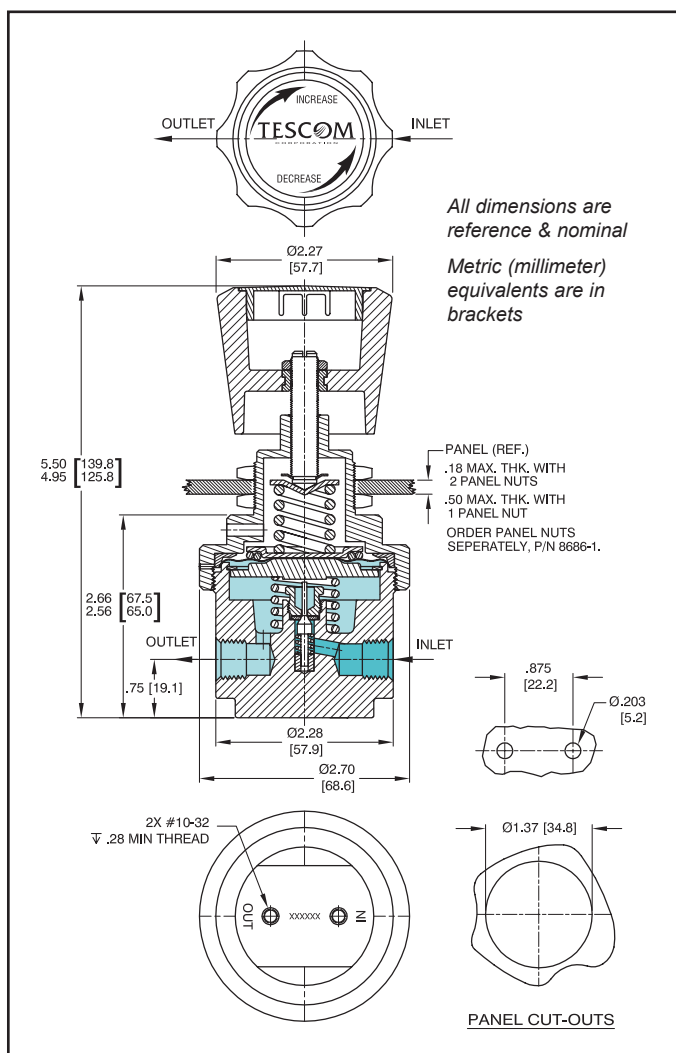


AIR LOADED

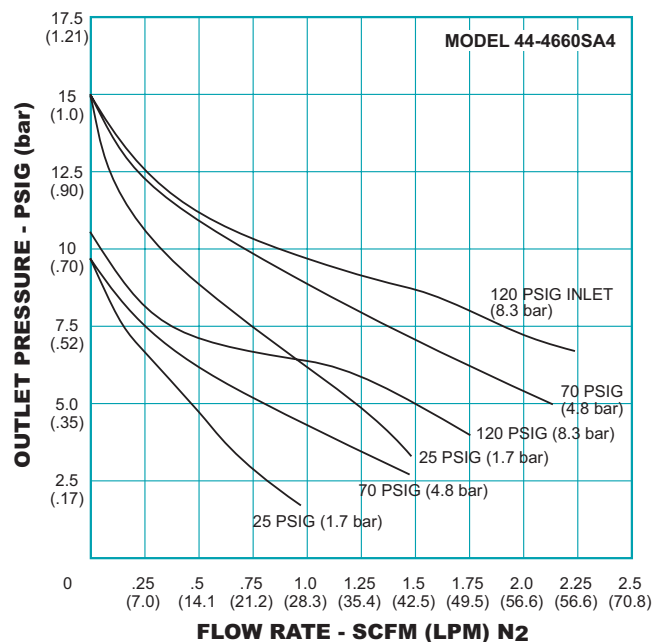
Advantages

- Optional 3500 PSIG (241 bar) maximum inlet
- Metal to metal sealed diaphragm
- Adjustable stop limits maximum outlet pressure
- 316 Stainless Steel construction
- Available in dome load or air load

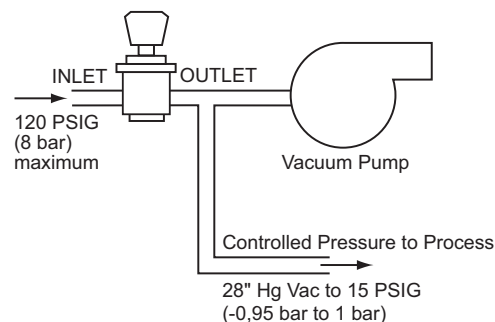
44-4600 Series Absolute Pressure



Flow Chart



Typical System



Part Number Selector

example part number:

44-46 6 0 S 2 4 - see number below

BASIC SERIES	BODY MATERIAL	OUTLET PRESSURE RANGES	SOFT GOODS	IN & OUT PORT TYPE	IN & OUT PORT SIZE	MODIFICATIONS
44-46	6 - 316 SST	0 - 28" Hg Vac to 15 PSIG (-0.95 bar to 1 bar)	S - Teflon®	2 - NPT	4 - 1/4" (6.35 mm)	<ul style="list-style-type: none"> - 001 - One 1/4" gauge port @ 90° - 002 - Two 1/4" gauge ports @ 60° (Spring) - 019 - 3500 PSIG (241 bar) maximum inlet pressure C_v = .06

Repair Kits, Accessories & Modifications may be available for this product. Please contact TESCOM for more information.



WARNING! Do not attempt to select, install, use or maintain this product until you have read and fully understood the TESCOM Safety, Installation & Operation Precautions.

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