TESCOM

22-5400 Series

Regulators - Pressure Reducing

D22541988X012

Specifications

For other materials or modifications, please consult TESCOM.

OPERATING PARAMETERS

Pressure rating per criteria of ANSI/ASME B31.3

Maximum Inlet Pressure
600 psig / 41.4 bar

Outlet Pressure Ranges
30, 60, 100, 150 psig
2.1, 4.1, 6.9, 10.3 bar

Design Proof Pressure
150% maximum rated

Inboard Leak Rate
< 2 x 10^{-8} atm cc/sec He

Operating Temperature
PCTFE Seat
-40°F to 140°F / -40°C to 60°C
Teflon® PFA Seat
-40°F to 160°F / -40°C to 71°C

Flow Capacity
C_V = 1.0

Decaying Inlet Characteristic
2.7 per 100 psig / 0.19 per 6.9 bar

MEDIA CONTACT MATERIALS

Body
316L Stainless Steel with Electropolish

Diaphragm
Hastelloy®

Valve Seat
PCTFE or Teflon® PFA

Seat Retainer
Nitronic 60 Stainless Steel

Stem, Seal, and Remaining Parts
316 Stainless Steel

OTHER

Internal Surface Finish
25 R_a microinch / 0.63 micrometer

Connections
Welded female or male VCR®
Tube stubs
Compression fittings
High Purity Internal Connections (H.P.I.C.) (gauge port only)

Cleaning
DI water electronic grade cleaned

Weight (without gauges)
3.5 lbs / 1.6 kg

Teflon® is a registered trademark of E.I. du Pont de Nemours and Company.
VCR® is a registered trademark of Cajon Co.
Hastelloy® is a registered trademark of Haynes International, Inc.

TESCOM 22-5400 Series high purity, high flow BA Grade pressure reducing regulator offers a C_V = 1.0 and a 316 Stainless Steel Electropolished body of 25 R_a. Inlet pressure is 600 psig / 41.4 bar with outlet pressures up to 150 psig / 10.3 bar.

Applications

- High flow purging
- Regulating corrosive and specialty gases
- Bulk gas delivery

Features and Benefits

- Compact, hand-loaded and pressure reducing
- Low internal volume
- Metal-to-metal diaphragm to body seal for high leak integrity
- 1.3 C_V is available - consult TESCOM

22-5400 Series Regulator Drawing

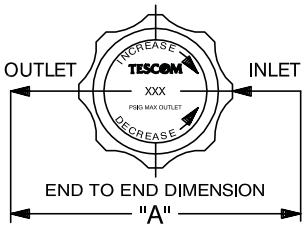


Figure A (no gauges)

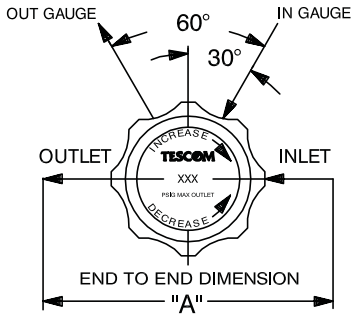


Figure B (2 gauges)

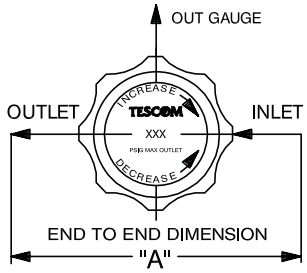
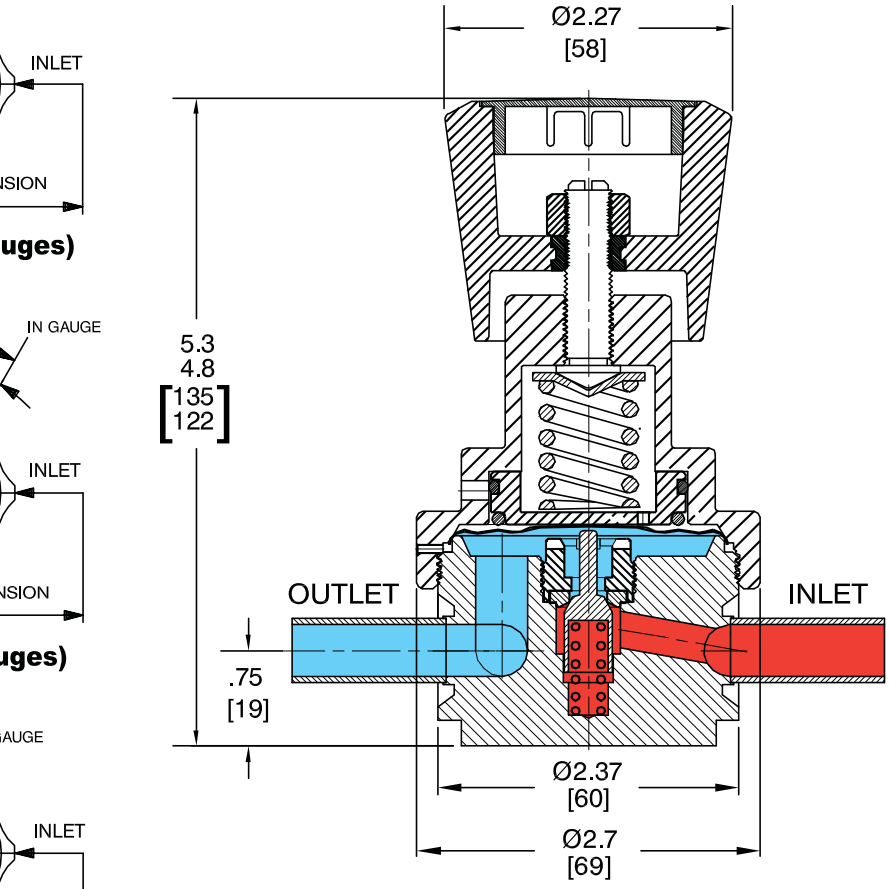
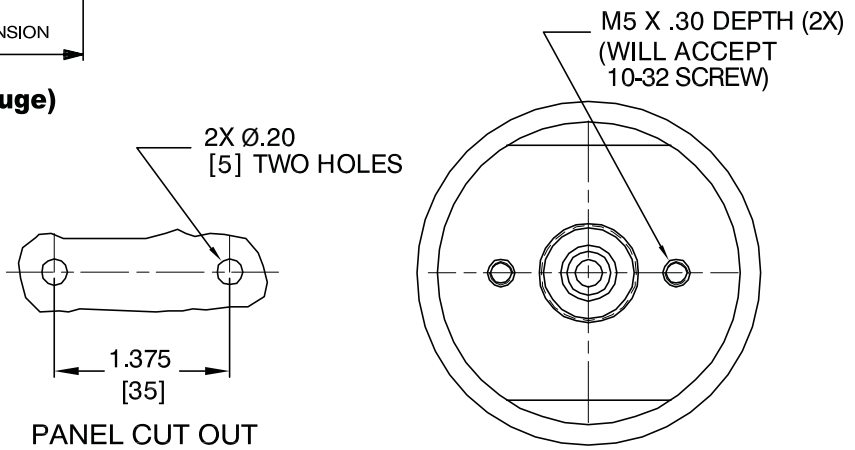


Figure C (1 gauge)

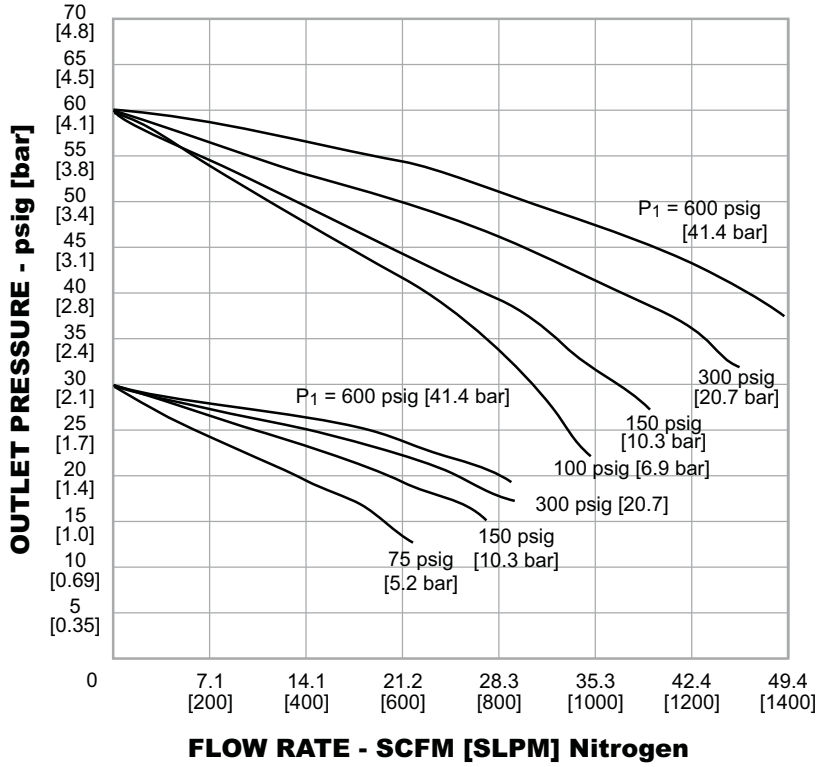


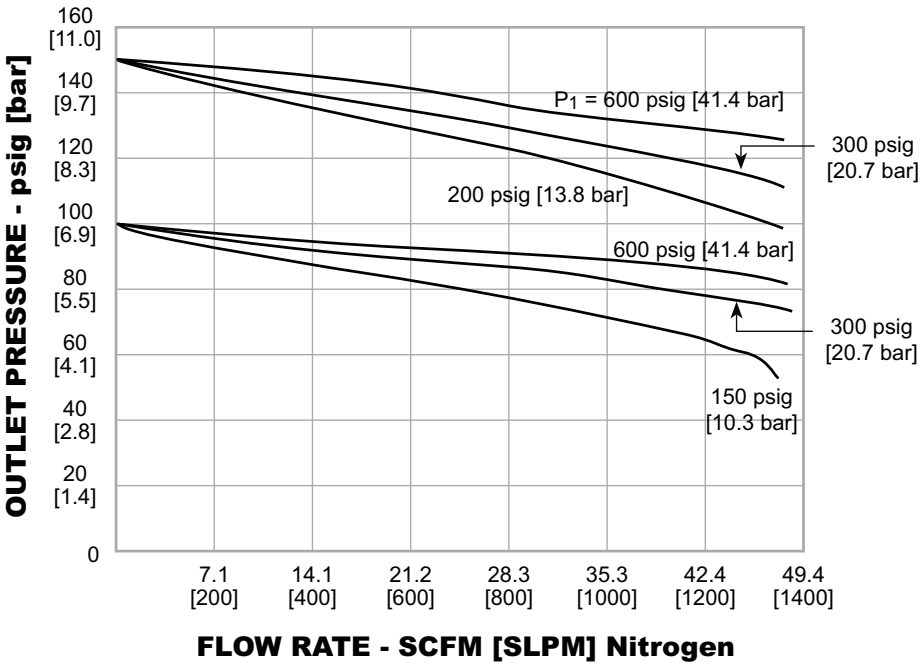


All dimensions are reference & nominal
Metric [millimeter] equivalents are in brackets

22-5400 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.





22-5400 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:

22-54 4 2 K RW 1 1

BASIC SERIES	BODY MATERIAL	FINISH	OUTLET PRESSURE	SEAT MATERIAL	INLET AND OUTLET PORT TYPE AND SIZE	'A' ± .06"	MAXIMUM INLET PRESSURE	GAUGE PORT OPTION	NUMBER OF GAUGE PORTS (FIGURE)
22-54	**6 –** 316 Stainless Steel Electropolish	25 R_a	**0 –** 30 psig 2.1 bar	**K –** PCTFE	**T6** – 3/8" O.D. Tube	3.70	**1 –** 600 psig 41.4 bar	**0 –** None	0 (A)
			1 – 60 psig 4.1 bar	**T –** Teflon® PFA	**T8** – 1/2" O.D. Tube	3.70		**1 –** 1/4" H.P.I.C.	1 (C)
			2 – 100 psig 6.9 bar		**RU** – 1/2" Male Swivel	5.59		**2 –** 1/4" H.P.I.C.	2 (B)
			3 – 150 psig 10.3 bar		**RW** – 1/2" Female Swivel	5.59			
					C6 – 3/8" Compression Fitting	6.42			
					C8 – 1/2" Compression Fitting	6.00			