

# 64-2600 Series

## Regulators - Pressure Reducing

D64261732X012

### Specifications

For other materials or modifications, please consult TESCOM.

#### OPERATING PARAMETERS

Pressure rating per criteria of ANSI/ASME B31.3

**Maximum Inlet Pressure**

600 or 3500 psig / 41.4 or 241 bar

**Outlet Pressure Ranges**

0-30, 0-60, 0-100, 0-150 and 250 psig  
0-2.1, 0-4.1, 0-6.9, 0-10.3 and 17.2 bar

**Design Proof Pressure**

150% of maximum rated

**Inboard Leak Rate**

1 x 10<sup>-9</sup> atm cc/sec He

**Operating Temperature**

**PTCFE Seat:** -40°F to 140°F / -40°C to 60°C  
**Teflon® Seat:** -40°F to 160°F / -40°C to 71°C  
**Vespel® Seat:** -40°F to 350°F / -40°C to 177°C

**Flow Capacity**

C<sub>v</sub> = 0.06 (3500 psig / 241 bar model)  
C<sub>v</sub> = 0.15 (600 psig / 41.4 bar model)

**Decaying Inlet Characteristic**

**C<sub>v</sub> = 0.06:** 0.7 per 100 psig / 0.05 per 6.9 bar



TESCOM 64-2600 Series economical high purity pressure reducing regulator provides Stainless Steel construction with 10 R<sub>a</sub> surface finish and is electronic grade cleaned. Inlet pressures are 600 or 3500 psig / 41.4 or 241 bar with outlet pressures of up to 250 psig / 17.2 bar.

#### MEDIA CONTACT MATERIALS

**Body**

316L Stainless Steel Electropolish or  
316L VAR Stainless Steel Electropolish

**Diaphragm**

316L Stainless Steel or Hastelloy®\*

**Seat**

PCTFE or Teflon® (Vespel® optional for 3500 psig / 241 bar model only)

**Spring**

316 Stainless Steel or Eligiloy®

**Stem, Seat Retainer, Valve Guide**

316 Stainless Steel or Hastelloy®\*

#### Applications

- 1/4" point-of-use
- Gas cabinets
- Semiconductor manufacturing
- Valve manifold boxes
- Research labs

#### Features and Benefits

- Optimum performance and cleanliness at a great value
- Internal surface finished to 10 R<sub>a</sub> microinch / 0.25 micrometer ensures minimal particle generation or entrapment
- True metal-to-metal body diaphragm seal provides enhanced leak integrity
- No bias spring or friction device in the flow stream
- Adjustable stop to limit outlet pressure
- Positionable ported bonnet ring is available

#### OTHER

**Internal Surface Finish**

10 R<sub>a</sub> microinch / 0.25 micrometer

**Connections**

Welded female or male VCR®  
Tube stubs  
High Purity Internal Connections (H.P.I.C.)  
(Internal style of VCR®, compatible with male swivel VCR®)

**Cleaning**

DI water electronic grade cleaned and ES 500 Particle Certified for internal electropolish models

**Internal Volume**

1/4" fitting / 5.75 cc

**Weight (without gauges)**

2 lbs / 0.9 kg

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

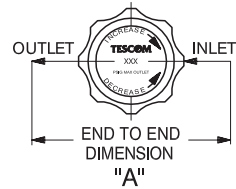
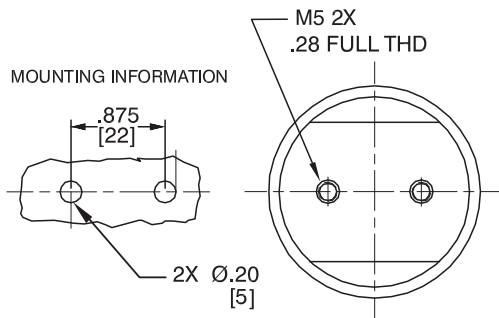
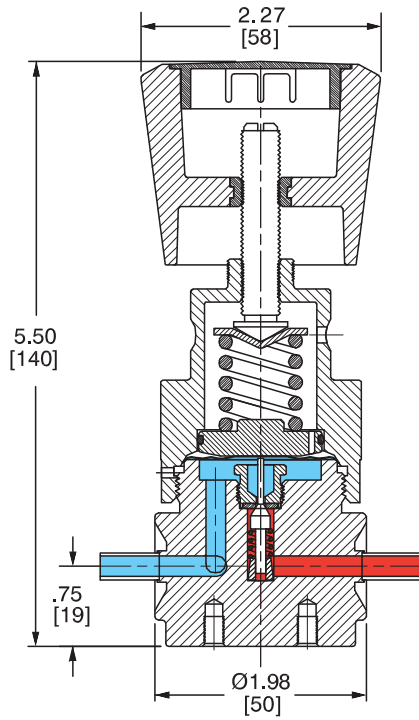
Hastelloy® is a registered trademark of Haynes International, Inc.

Elgiloy® is a registered trademark of Elgiloy Corp.

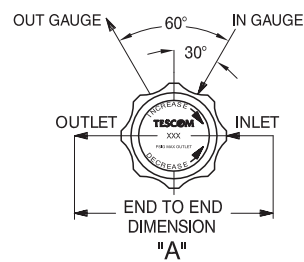
VCR® is a registered trademark of Cajon Co.

\*Material to be Hastelloy® or equivalent per ASTM B 574

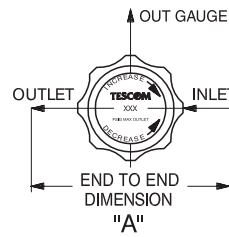
64-2600 Series Regulator Drawing



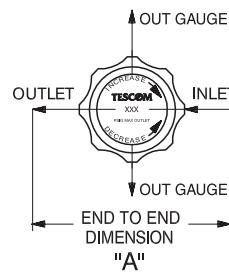
**Figure A  
(no gauges)**



**Figure B  
(2 gauges)**



**Figure C  
(1 gauge)**

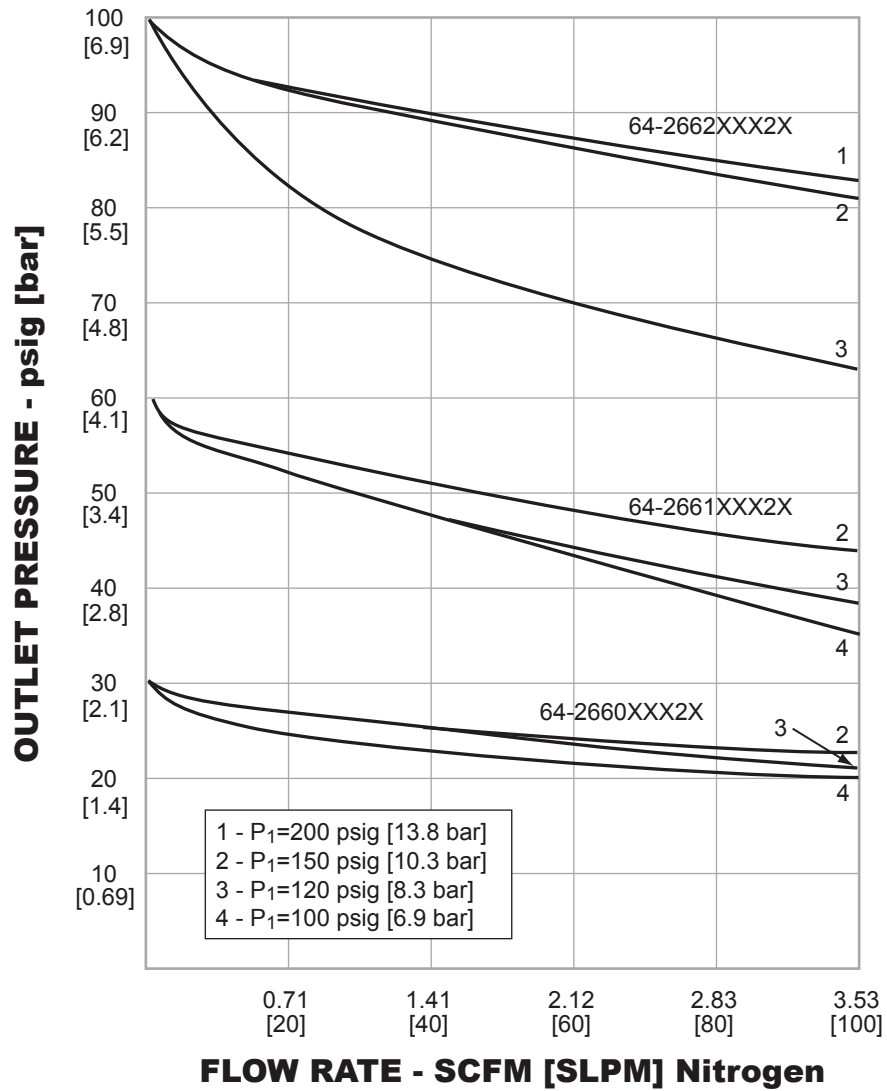


**Figure D  
(2 out gauges)**

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

### 64-2600 Series Regulator Flow Chart

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](http://www.tescom.com).



## 64-2600 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:

64-26	4	2	K	A4		1	0	
BASIC SERIES	BODY MATERIAL/ FINISH	OUTLET PRESSURE RANGES	SEAT MATERIAL	INLET AND OUTLET PORT SIZE AND TYPE	'A' ± .06"	MAXIMUM INLET	GAUGE PORT OPTION	NO. OF GAUGE PORTS (SEE FIGURE)
64-26	4 – 316L Stainless Steel Electropolish: 10 R <sub>A1</sub>	0 – 0-30 psig 0-2.1 bar	K – PCTFE	A4 – 1/4" H.P.I.C.	-	1 – 3500 psig 241 bar	0 – None	0 (Figure A)
	6 – 316L VAR Stainless Steel Electropolish: 10 R <sub>A2</sub>	1 – 0-60 psig 0-4.1 bar	T – Teflon®	RK – 1/2" Male Swivel	4.75"	316 Stainless Steel Trim	1 – 1/4" H.P.I.C.	1 (Figure C)
		2 – 0-100 psig 0-6.9 bar	V – Vespel® (3500 psig / 241 bar model only)	RL – 1/2" Female Swivel	4.75"	2 – 600 psig 41.4 bar	2 – 1/4" H.P.I.C.	2 (Figure B)
		3 – 0-250 psig 0-17.2 bar		RM – 1/4" Male Swivel	3.70"	316 Stainless Steel Trim	3 – 1/4" H.P.I.C.	2 (Figure D)
		6 – 0-150 psig 0-10.3 bar		RT – 1/4" Female Swivel	3.70"	3 – 3500 psig 241 bar Hastelloy® Trim	4 – 1/4" Male Swivel	2 (Figure D)
				RU – IN Port: 1/4" Male; OUT Port: 1/4" Female	3.70"	4 – 600 psig 41.4 bar Hastelloy® Trim	5 – 1/4" Male Swivel	1 (Figure C)
				RV – IN Port: 1/4" Female; OUT Port: 1/4" Male	3.70"		6 – 1/4" Male Swivel	2 (Figure B)
				T4 – 1/4" Tube Stubs	3.00"		7 – 1/4" Female Swivel	2 (Figure D)
							8 – 1/4" Female Swivel	1 (Figure C)
							9 – 1/4" Female Swivel	2 (Figure B)
							S – 1/4" Fixed Male	2 (Figure B)
							T – 1/4" Fixed Male	1 (Figure C)
							U – 1/4" Fixed Male	2 (Figure D)

1. Per ASTM B 912  
2. Per SEMI F19, HP grade