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 30, 60, 100, 150 psig / 2.1, 4.1, 6.9, 10.3 bar

Design Proof Pressure 150% of maximum rated

Inboard Leak Rate 1 x 10⁻⁹ atm cc/sec He

Operating Temperature

PCTFE 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 $C_V = 0.15 \text{ or } 0.06$

Decaying Inlet Characteristics C_V = 0.15: 0.4 per 100 psig / 0.03 per 6.9 bar C_V = 0.06: 0.2 per 100 psig / 0.01 per 6.9 bar

MEDIA CONTACT MATERIALS

Body

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

Diaphragm Hastelloy®

Valve Seat

PCTFE, Teflon[®] or Vespel[®]

Stem and Valve Spring 316 Stainless Steel

Remaining Parts

316 Stainless Steel or Hastelloy®

OTHER

Internal Surface Finish

10 R_a 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 ES500 Particle Certified for internal electropolish models

Internal Volume

12 cc Weight

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. VCR° is a registered trademark of Cajon Co.



TESCOM 64-3600 Series ultra high purity, highly sensitive pressure reducing regulator offers a low droop, tied diaphragm design, 10 R_a / 0.25 micrometer surface finish with available Hastelloy[®] trim. Inlet pressures are 600 or 3500 psig / 41.4 or 241 bar with outlet pressure up to 150 psig / 10.3 bar.

Applications

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

Features and Benefits

- 10 R_a microinch / 0.25 micrometer internal surface finishes
- Metal-to-metal seal (diaphragm to body seal for high leak integrity)
- Full internal electropolish is available
- Designed to reduce pressure fluctuations in semiconductor gas systems
- Meets the stringent semiconductor requirements of both point-of-use and cylinder applications



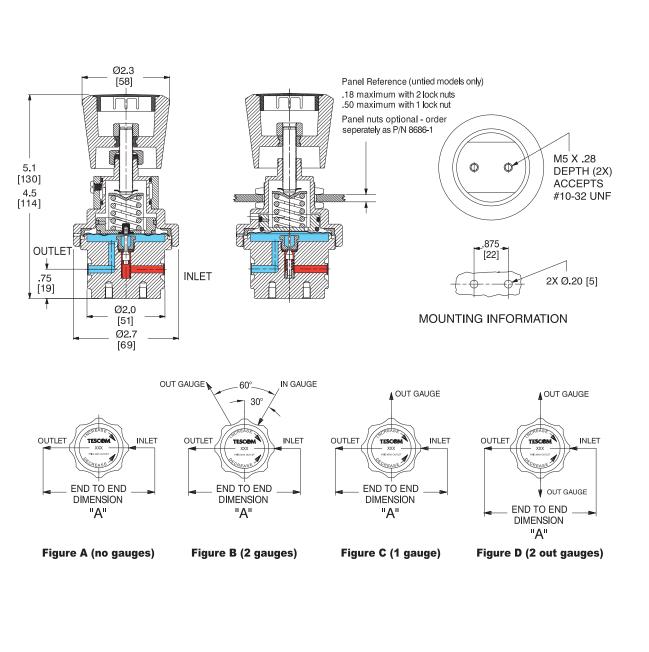






TESCØM

64-3600 Series Regulator Drawing



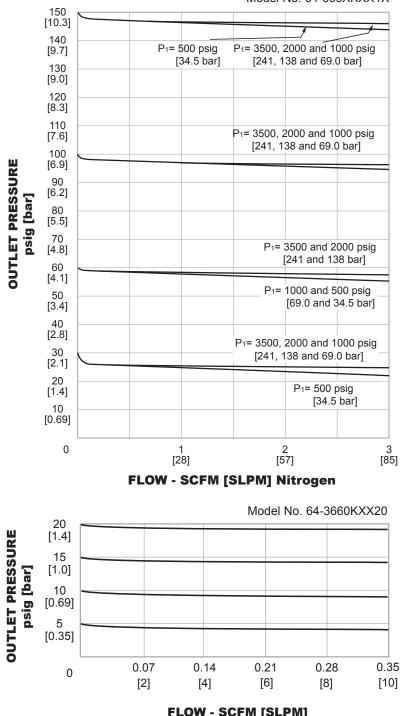
All dimensions are reference & nominal Metric [millimeter] equivalents are in brackets



TESCØM

64-3600 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.



Model No. 64-366XKXX1X

FLOW - SCFM [SLPM] at 60 psig [4.1 bar] (Nitrogen)



TESCØM

64-3600 Series Regulator Part Number Selector

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

64-36	6	2	К	A4		2	0)
BASIC SERIES	BODY MATERIAL/ FINISH	OUTLET PRESSURE RANGES	SEAT MATERIAL	INLET AND OUTLET PORT SIZE AND TYPE	'A' ± .06"	SEAL, FLOW (C _V) MAXIMUM INLET PRESSURE	GAUGE PORT OPTIONS	NUMBER OF GAUGE PORTS
64-36	 4 – 316L Stainless Steel Electropolish: 10 R_a¹ 6 – 316L VAR Stainless Steel Electropolish: 10 R_a² 1. Per ASTM B 912 2. Per SEMI F19, HP grade 	1 – 60 psig 4.1 bar	 K − PCTFE T − Teflon[®] (untied model only) V − Vespel[®] 	 A4 - 1/4" H.P.I.C. RG - 1/4" Male Swivel RK - 1/2" Male Swivel RI - 1/2" Female Swivel RA - 1/4" Male Fixed RM - 1/4" Male Fixed RT - 1/4" Female Swivel RU - IN Port: 1/4" Male Fixed; OUT Port: 1/4" Female Swivel RV - IN Port: 1/4" Female Swivel; OUT Port: 1/4" Male Fixed T4 - 1/4" Tube Stubs 	1.11" 4.50" 4.75" 3.51" 3.70" 3.70" 3.70" 3.70"	 Untied, C_V = 0.06 3500 psig / 241 bar Untied, C_V = 0.15 600 psig / 41.4 bar Tied, C_V = 0.06 3500 psig / 241 bar Tied, C_V = 0.15 3500 psig / 241 bar Tied, C_V = 0.15 3500 psig / 241 bar Hastelloy[®] trim 	 0 - None 1 - 1/4' H.P.I.C. 2 - 1/4' H.P.I.C. 3 - 1/4' H.P.I.C. 4 - 1/4' Male Swivel 5 - 1/4' Male Swivel 6 - 1/4' Male Swivel 7 - 1/4' Female Swivel 8 - 1/4' Female Swivel 9 - 1/4' Female Swivel 9 - 1/4' Female Swivel 5 - 1/4' Fixed Male T - 1/4' Fixed Male U - 1/4' Fixed Male 	0 (Figure A) 1 (Figure C) 2 (Figure D) 2 (Figure D) 2 (Figure D) 1 (Figure C) 2 (Figure D) 1 (Figure C) 2 (Figure B) 2 (Figure B) 1 (Figure C) 2 (Figure D)

Example for selecting a part number:

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

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