## **Specifications**

For other materials or modifications, please consult TESCOM.

### **OPERATING PARAMETERS**

Pressure rating per criteria of ANSI/ASME B31.3

#### **Maximum Inlet Pressure**

150, 1000, 1500 psiq / 10.3, 69.0, 103 bar

#### **Outlet Pressure Ranges**

30, 60, 100, 150, 200 psiq / 2.1, 4.1, 6.9, 10.3, 13.8 bar

#### **Design Proof Pressure**

150% of maximum rated

#### **Inboard Leak Rate**

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

#### **Operating Temperature**

Teflon® Seat: -40°F to 160°F / -40°C to 71°C **PCTFE Seat:**  $-40^{\circ}$ F to  $140^{\circ}$ F /  $-40^{\circ}$ C to  $60^{\circ}$ C **Vespel® Seat:** -40°F to 350°F / -40°C to 177°C

### Flow Capacity

 $C_{V} = 1.2$ 

### MEDIA CONTACT MATERIALS

## Body

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

#### Diaphragm

Nickel Alloy (Hastelloy®)

#### **Seat Retainer**

316 Stainless Steel

#### **Poppet**

316 Stainless Steel or Nickel Alloy (Hastelloy®)

### Valve Seat

PTFE, Polyimide (Vespel®), PCTFE

## Valve Spring

316 Stainless Steel

### **Remaining Parts**

316 Stainless Steel

### **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**

1/2" fitting / 32 cc

#### Weight (without gauges)

3.5 lbs / 1.6 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 64-3200 Series ultra high purity, high flow tied diaphragm pressure reducing regulator offers 10 R<sub>a</sub> microinch / 0.25 micrometer surface finish and is available in Hastelloy® trim. Maximum flow rates are up to 31.8 SCFM / 900 SLPM, with inlet pressures of 150, 1000, 1500 psig / 10.3, 69.0, 103 bar and outlet pressures up to 200 psig / 13.8 bar.

# **Applications**

- Bulk Specialty Gas Systems (BSGS)
- 1/2" point-of-use
- Tool hookups
- Gas cabinets

## **Features and Benefits**

- Designed for high flow, bulk specialty gas
- Hastelloy<sup>®</sup> trim option is available
- Positive shut-off seal, tied diaphragm design
- Metal-to-metal diaphragm to body seal for high leak integrity
- Captured bonnet

#### NOTF:

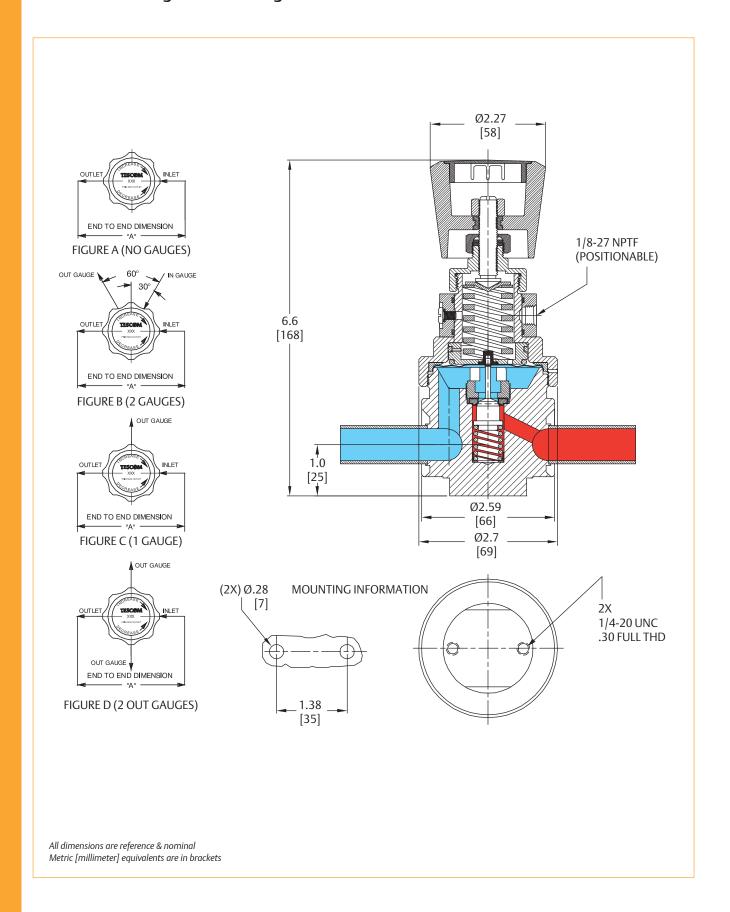
When choosing a regulator and control pressure, decaying inlet characteristic must be considered when the supply pressure is expected to change. The decaying inlet characteristic of a pressure reducing regulator is commonly known as the increase in control pressure due to the decrease in supply pressure. 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.



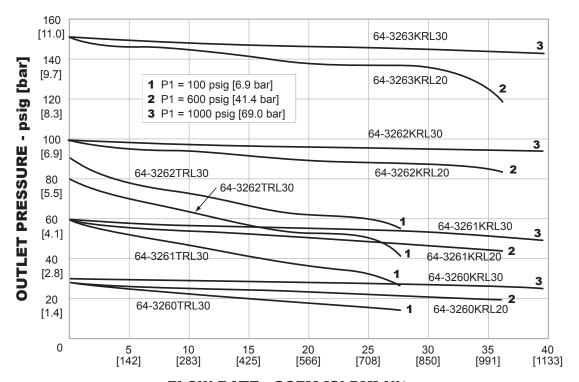
## 64-3200 SERIES

# 64-3200 Series Regulator Drawing



## 64-3200 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.



FLOW RATE - SCFM [SLPM] Nitrogen

# 64-3200 SERIES

# 64-3200 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:

| 64-32 6 3 K RL   | 1 0  |   |
|--|--|---|
|  | OPTION GAUG  | IO. OF<br>GE PORTS<br>IGURE)  |
| Electropolish: 10 R <sub>a</sub> <sup>1</sup> 2.1 bar (1000 or 156 – 3/8* Tube Ends 3.70* 1 – 150 6 – 316L VAR 1 – 60 psig 4.1 bar 52 – 100 psig 6.9 bar 3 – 150 psig 6.9 bar 3 – 150 psig 10.3 bar inlet 10.3 | 1 - 1/4* H.P.I.C. 1 (1) 20 psig / 103 bar 20 psig / 10.3 bar 20 psig / 10.3 bar 20 psig / 103 bar 20 psig / 103 bar 20 psig / 103 bar 20 psig / 69.0 bar 20 psig / 69.0 bar 20 psig / 10.3 bar 20 psig / 10.3 bar 21 psig / 10.3 bar 22 (1/4* Male | Figure A) Figure C) Figure B) Figure D) Figure D) Figure B) Figure D) Figure D) Figure D) Figure D) Figure D) Figure C) Figure B) Figure C) Figure D) Figure D) Figure D) Figure D) |