Regulators - Pressure Reducing

DDGXX1969X012

## Specifications

*For other materials or modifications, please consult TESCOM.*

### OPERATING PARAMETERS

*Pressure rating per criteria of ANSI/ASME B31.3*

**Maximum Inlet Pressure**
300 psig / 20.7 bar

**Outlet Pressure Ranges**
0-20, 0-50, 0-100, 0-150 and 0-250 psig
0-1.4, 0-3.4, 0-6.9, 0-10.3 and 0-17.2 bar
(0-300 psig / 0-20.7 bar dome load only)

**Design Proof Pressure**
150% maximum rated

**Leakage**
Bubble-tight

**Operating Temperature**
-10°F to 165°F / -23°C to 74°C

**Flow Capacity**
$C_V$ = 10

### MEDIA CONTACT MATERIALS

**Body, Bonnet, Back-cap**
316 Stainless Steel

**Main Valve Seat**
Nitrile, Buna-N 90 Durometer, Ethylene Propylene 80, Perfluoroelastomer (Chemraz 75) or FKM (Viton®-A)

**O-Rings**
Nitrile, Buna-N, Ethylene Propylene 80, Perfluoroelastomer (Chemraz 75) or FKM (Viton®-A)

**Diaphragm**
PTFE

**Remaining Parts**
300 Series Stainless Steel, Nitronic 60

### OTHER

**Cleaning**
CGA 4.1 and ASTM G93

**Weight**
35 lbs / 15.9 kg

*Viton® is a registered trademark of E.I. du Pont de Nemours and Company.*
*Gylon® is a registered trademark of Garlock, Inc.*
*Chemraz® is a registered trademark of Greentweed.*


TESCOM DG Series single-stage regulator provides a compact size with high flow capability greater than 1000 SCFM / 28,300 SLPM. The large diaphragm and balanced main valve design provide lower droop (larger usable flow range) than competitive designs. Available in spring or dome loaded configurations.

## Applications

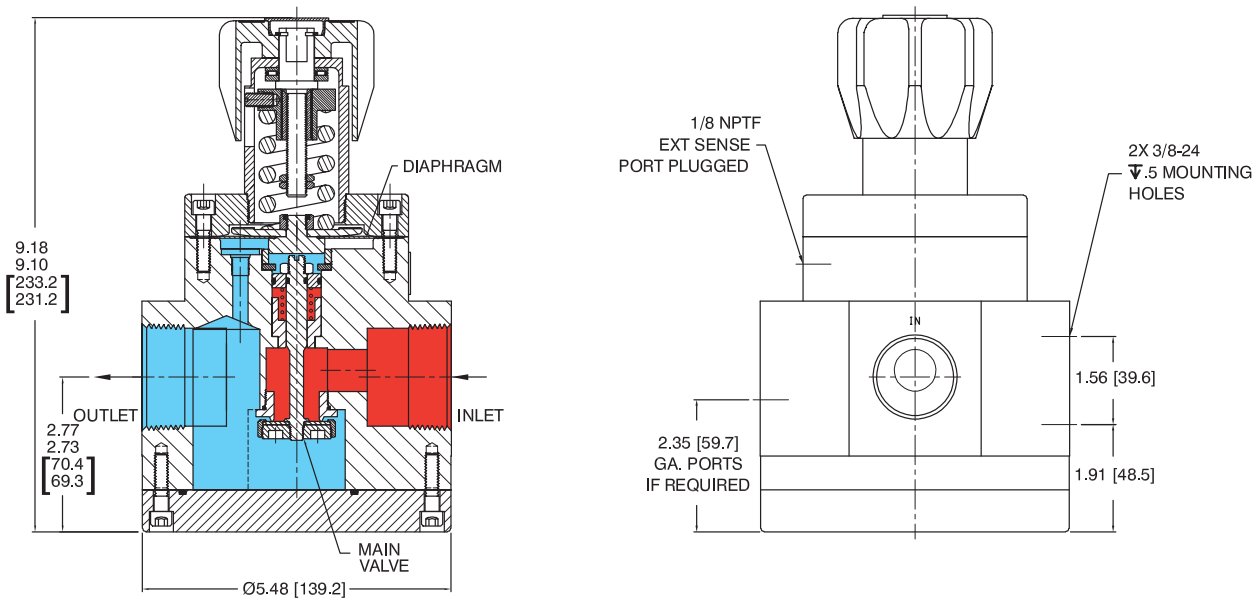
- Purging, blanketing, high flow inerting, heat-treating and shielding gases
- Performs well at very low pressure differentials such as Dewar-supplied processes
- Multi-drop breathing air stations

## Features and Benefits

- $C_V$ = 10 in a compact design
- Diaphragm sensing provides greater accuracy and sensitivity
- Dome/air actuated compatible with TESCOM ER5000 Electropneumatic Controllers

# DG SERIES

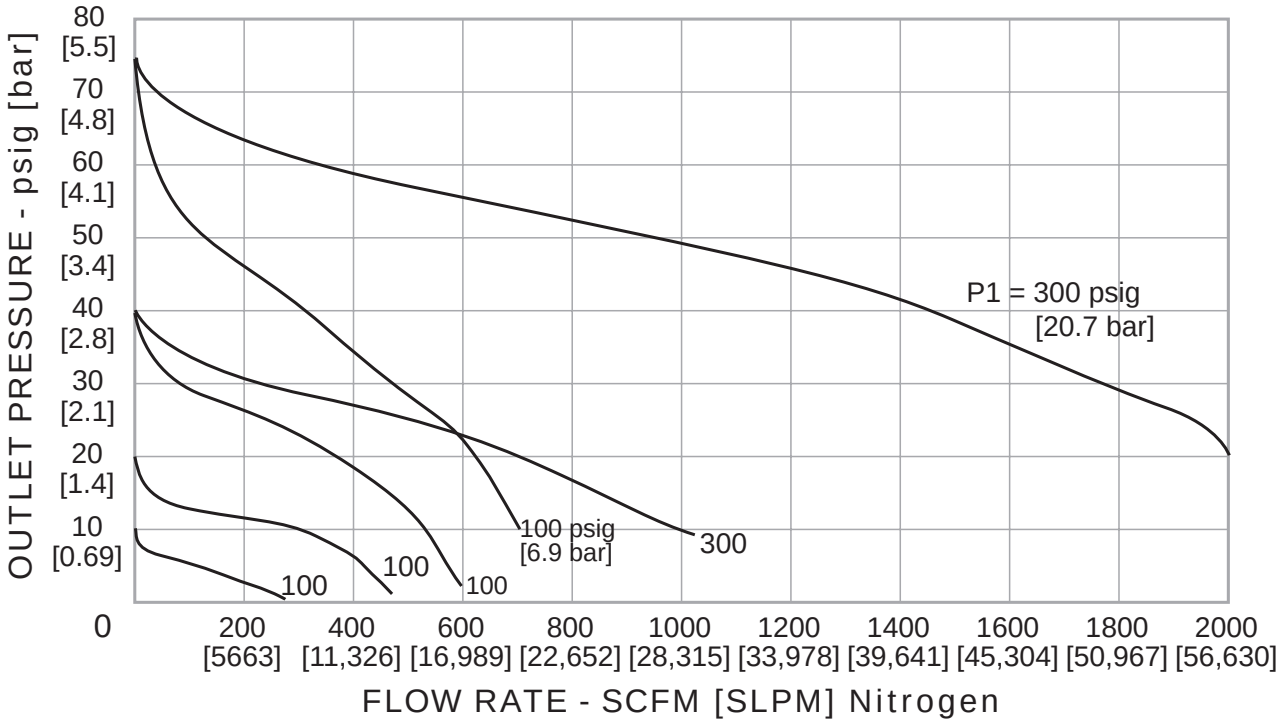
## DG Series Regulator Drawing




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

## DG 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.*



# DG SERIES

## DG 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:*

| DG | H | 6 | 2 | E | | G | N | 9 | 2 |
|---|---|---|---|---|---|---|---|---|---|
| **BASIC SERIES** | **LOAD TYPE** | **BODY, BONNET, BACK-CAP MATERIAL** | **OUTLET PRESSURE RANGES** | **SOFT GOODS** | | **DIAPHRAGM** | **VENT SEAT** | **OPTIONAL** | **PORT TYPE** |
| | | | | **O-RING** | **VALVE SEAT** | | | | |
| DG | **D –** Dome Load<br>**H –** Spring Load | **6 –** 316 Stainless Steel | **0 –** 0-20 psig 0-1.4 bar<br>**1 –** 0-50 psig 0-3.4 bar<br>**2 –** 0-100 psig 0-6.9 bar<br>**3 –** 0-150 psig 0-10.3 bar<br>**5 –** 0-250 psig 0-17.2 bar<br>**D –** 0-300 psig 0-20.7 bar *(Dome load only)* | **B –** Nitrile, Buna-N<br>**E –** Ethylene Propylene<br>**M –** FFKM, Perfluoroelastomer (Kalrez®)<br>**V –** FKM (Viton®-A) | Nitrile, Buna-N 90 Durometer<br>Ethylene Propylene 80<br>FFKM, Perfluoroelastomer (Kalrez®)<br>FKM (Viton®-A) | **G –** PTFE | **N –** Non-venting | **C –** CCL<br>**9 –** None | **2 –** NPTF |

| 24 | A |
|---|---|
| **PORT SIZE** | **PORTING** |
| **16 –** 1"<br>**24 –** 1-1/2" | **A –** No gauge ports<br>  <br>**C –** Two gauge ports at 70°<br>  <br>**D –** One gauge port at 90°<br>  |