Regulators - Relief / Backpressure

DDVXX1800X012

Specifications

For other materials or modifications, please consult TESCOM.

OPERATING PARAMETERS

Pressure rating per criteria of ANSI/ASME B31.3

Controlled Pressure Range
760 - 50 mm Hg absolute

Design Proof Pressure
150% of maximum operating

Leakage
Bubble-tight

Operating Temperatures[1]
Buna-N: -40°F to 165°F / -40°C to 74°C
Ethylene Propylene: -40°F to 250°F / -40°C to 121°C
Viton®: -15°F to 165°F / -26°C to 74°C

Flow Capacity
C_V = 0.25

Maximum Operating Torque
15 in-lbs / 1.7 N•m

MEDIA CONTACT MATERIALS

Body
Brass or Nickel-plated Aluminum

Diaphragm
Nitrile, Buna-N, Ethylene Propylene, FKM (Viton®-A)

O-Ring
Nitrile, Buna-N, Ethylene Propylene, FKM (Viton®-A)

Remaining Parts
300 Series Stainless Steel and Brass

OTHER

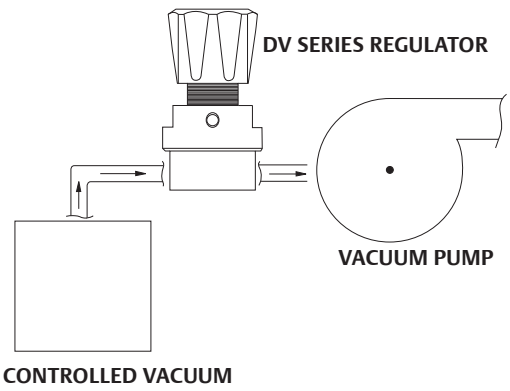
Cleaning
CGA 4.1 and ASTM G93

Weight (without gauges)
Brass: 2.4 lbs / 1.1 kg
Aluminum: 1 lb / 0.5 kg

1. For extended temperatures from -40°F to 400°F / -40°C to 204°C, consult Tescom.

Viton® is a registered trademark of E.I. du Pont de Nemours and Company.

DV Series Typical Application



TESCOM DV Series is a compact, lightweight, diaphragm regulator that offers vacuum control up to 0.1% accuracy. Optional constant bleed feature allows for pressure adjustment in both directions.

Applications

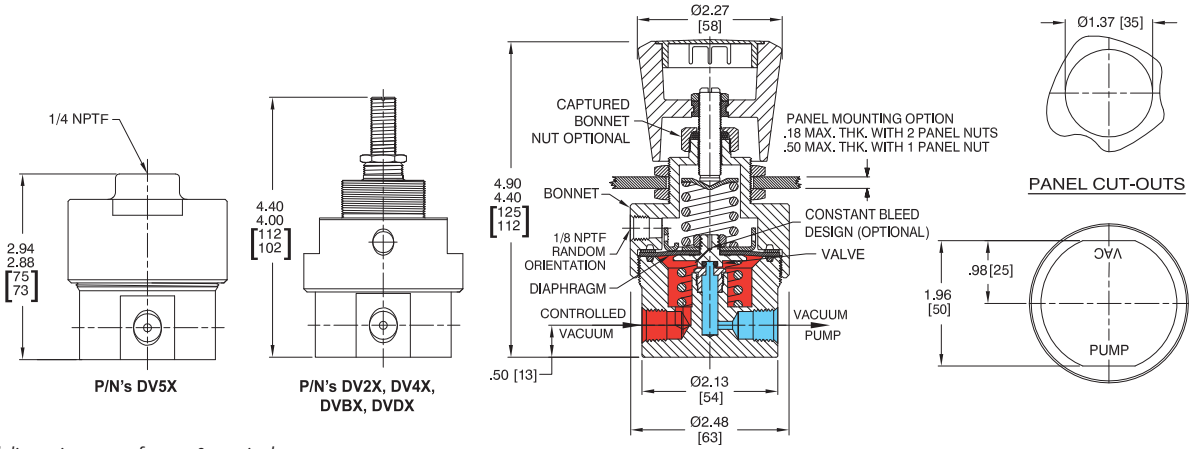
- Instrumentation testing
- Calibration equipment

Features and Benefits

- Controls sub-atmospheric pressure
- Excellent repeatability
- Accurate diaphragm-type regulation ± 0.1% full scale accuracy
- High sensitivity of 10 mm Hg absolute achieved with constant bleed option
- Easy maintenance
- Low operating handknob torque
- Captured bonnet and panel mounting options are available

DV SERIES

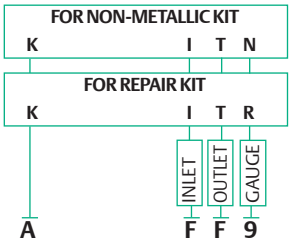
DV Series Regulator Drawing



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

DV 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:

DV -	1	3	5	B	B	9	A	F F 9

BASIC SERIES	FUNCTION / LOAD TYPE	BODY MATERIAL	CONTROLLED VACUUM PRESSURE[1]	VALVE PARTS	DIAPHRAGM AND O-RING MATERIAL	MOUNTING	PORTING CONFIGURATION (1/4" NPTF GAUGE PORTS)	INLET AND OUTLET GAUGE PORTS TYPE AND SIZE
DV	**Standard Vacuum NO BLEED** **1** – Handknob adjust **2** – Screwdriver adjust **3** – Captured bonnet Hand adjust **4** – Captured bonnet Screw adjust **5** – Dome loaded **Standard Vacuum CONSTANT BLEED** **A** – Handknob adjust **B** – Screwdriver adjust **C** – Captured bonnet Hand adjust **D** – Captured bonnet-Screw adjust	**1** – Brass **3** – Aluminum	**NO BLEED** **5** – 0 - 710 mm Hg absolute **CONSTANT BLEED** **5** – 0-635 mm Hg absolute **9** – 0-255 mm Hg absolute	**B** – Brass	**B** – Nitrile, Buna-N **E** – Ethylene Propylene **V** – FKM (Viton®-A)	**9** – None **P** – Panel Mounting	**A** – No gauge ports **B** – Gauge ports at 60° **F** – In gauge at 90° **G** – In gauge at 90° **L** – Gauge ports at 90°	**B** – 1/4" SAE **E** – 1/8" NPTF **F** – 1/4" NPTF **J** – 1/4" MS33649 **9** – None

1. 28" Hg = 50 mm Hg absolute