

DV Series

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 Temperatures¹	
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

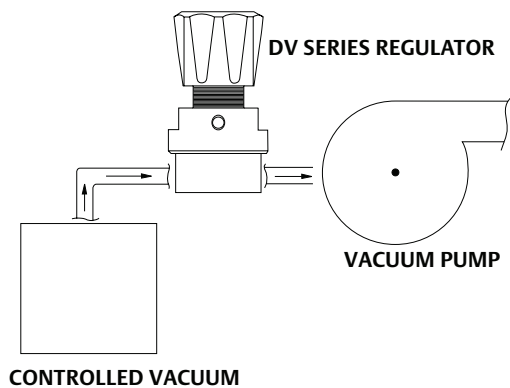
Body	Brass or Nickel-plated Aluminum
Diaphragm	Buna-N, Ethylene Propylene, Viton®
O-Ring	Buna-N, Ethylene Propylene, Viton®
Remaining Parts	300 Series Stainless Steel and Brass

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.

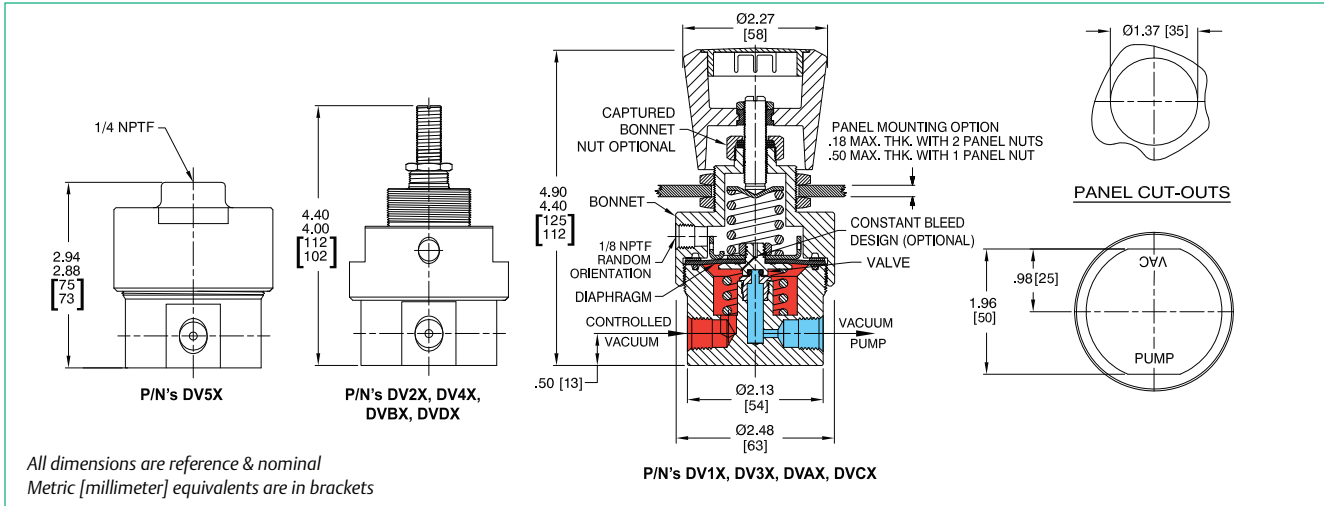
Applications

- Instrumentation testing
- Calibration equipment

Features and Benefits

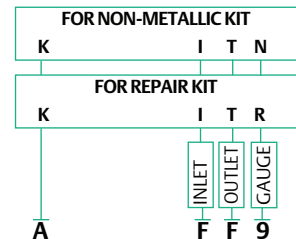
- Controls sub-atmospheric pressure
- Excellent repeatability
- Accurate diaphragm-type regulation ± 0.1% full scale accuracy
- High sensitivity of 10 mm Hg absolute achieved with constant bleed option
- Easy maintenance
- Low operating handknob torque
- Captured bonnet and panel mounting options are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

DV Series Regulator Drawing



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 – 760 - 50 mm Hg absolute CONSTANT BLEED 5 – 760 - 100 mm Hg absolute	B – Brass	B – Buna-N E – Ethylene Propylene V – Viton®	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