

Vacuum Pressure Control

control of sub-atmospheric pressures
highly sensitive

DV Series

Specifications

Operating Parameters

pressure rating per criteria of ANSI/ASME B31.3 design proof pressure . . . 150% of maximum operating leakage bubble-tight
operating temperatures:*

Buna-N -40°F to +165°F (-40°C to +73°C)
E.P. -40°F to +250°F (-40°C to +121°C)
Viton® -15°F to +165°F (-25°C to +73°C)

flow capacity $C_v = .25$
maximum operating torque . . . 15 in. - lbs. (1.7 Nm)

*For extended temperatures from -40°F to +400°F, consult TESCO.

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 SST and Brass

For other materials and modifications, please consult TESCO.

Cleaning CGA 4.1 and ASTM G93

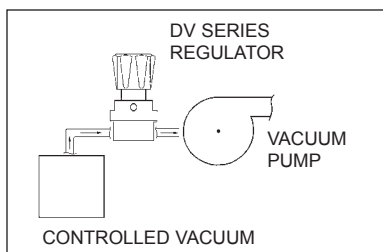
Weight (without gauges)

brass 2.4 lbs. (1.1 kg)
aluminum 1 lbs. (.45 kg)

Pressure Conversion 14.2 PSIG = 1 kg/cm² 145 PSIG = 1 MPa

Viton® is a registered trademark of DuPont.

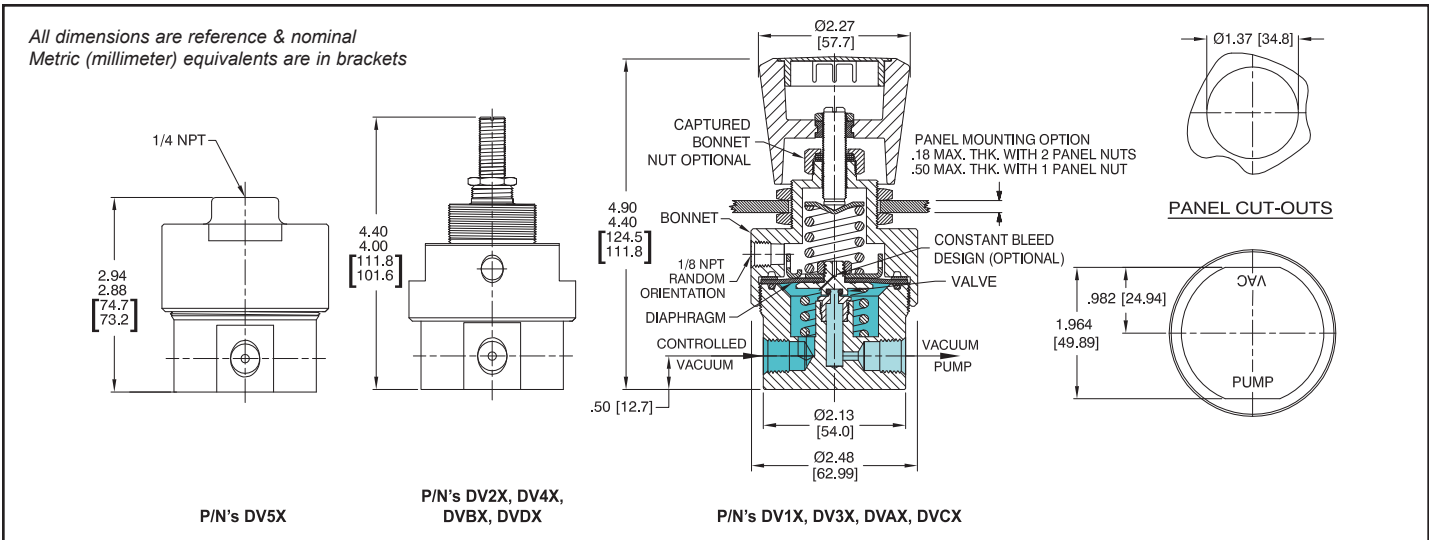
Typical Application



Advantages

- Controls sub-atmospheric pressures within the range of 28" Hg vacuum to 0 PSIG (atmospheric pressure)
- Excellent repeatability
- Accurate diaphragm-type regulation ± .1% full scale accuracy
- Range with constant bleed is 0-25" Hg
- Easy maintenance
- Low operating handknob torque
- Captured bonnet and panel mounting option available

DV Series Vacuum Pressure Control



Part Number Selector

example part number:

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

BASIC SERIES	FUNCTION/LOAD TYPE	BODY MATERIAL	CONTROLLED VACUUM PRESSURE	VALVE PARTS	DIAPHRAGM & O-RING MATERIAL	MOUNTING	PORTING CONFIGURATION (1/4" NPT GAUGE PORTS)	INLET, OUTLET & GAUGE PORT TYPE & SIZE
DV	Standard Vacuum NO BLEED	1 - Brass 3 - Aluminum	5 - 0 - 28" Hg (0-71 cm Hg) 0 - 25" Hg (0-64 cm Hg) <i>(with constant bleed)</i>	B - Brass	B - Buna-N E - Ethylene Propylene V - Viton®	9 - None P - Panel Mounting	A - No gauge ports B - Gauge ports @ 60° F - In gauge @ 90° 	B - 1/4" SAE (6.35 mm) E - 1/8" NPT (3.175 mm) F - 1/4" NPT (6.35 mm) J - 1/4" MS33649 (6.35 mm) 9 - None
	Standard Vacuum CONSTANT BLEED		9 - -4 PSIG (9" Hg) <i>(only used with constant bleed)</i>				G - In gauge @ 90° L - Gauge ports @ 90° 	

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

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

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Form No. 1800 Rev. 5/08 1.5M Printed in the U.S.A.

