

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 . . -65° F to +165° F (-53° C to +73° C)

E.P. . . . -60° F to +250° F (-51° 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 -65°F to +400°F, consult factory.

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 factory.

Cleaning CGA 4.1 and ASTM G93

Weight (without gauges)

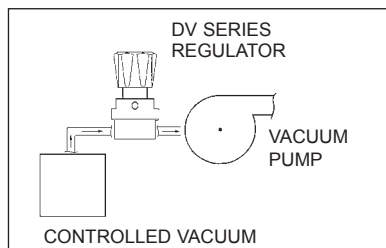
brass 2.4 lbs. (1.1 kg)

aluminum 1 lbs. (.45 kg)

Pressure Conversion 14.5 PSIG = 1 bar 145 PSIG = 1 MPa

Viton® is a registered trademark of Du Pont.

Typical Application



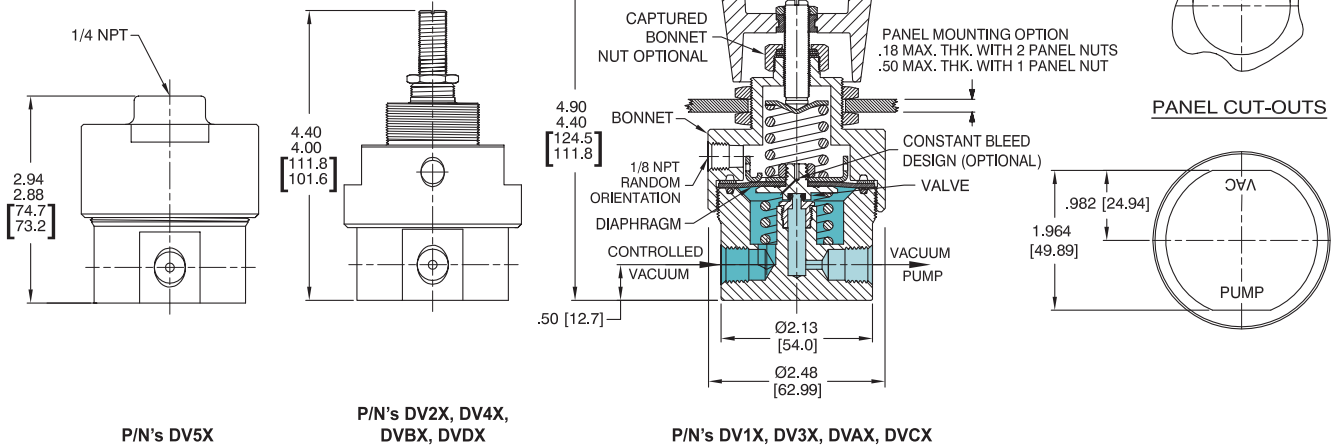
Advantages

- Controls sub-atmospheric pressures within the range of 28" Hg vacuum to 0 PSIG (atmospheric pressure)
- Excellent repeatability
- Accurate diaphragm-type regulation $\pm .1\%$ full scale accuracy
- High sensitivity of .025" Hg achieved with constant bleed option
- Easy maintenance
- Low operating handknob torque
- Captured bonnet and panel mounting option available

TESCOM
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DV Series Vacuum Pressures Control

All dimensions are reference & nominal
Metric (millimeter) equivalents are in brackets



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 - 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	5 - 0 - 28" Hg (0-71 cm Hg) 0 - 25" Hg (0-64 cm Hg) (with constant bleed) 9 - -4 PSIG (9" Hg) (only used with constant bleed)	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° G - In gauge @ 90° L - Gauge ports @ 90° 	B - 1/4" SAE E - 1/8" NPT F - 1/4" NPT J - 1/4" MS33649 9 - None

Repair Kits, Accessories & Modifications may be available for this product. Please contact factory 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.

NOTE: Product availability and specifications contained herein are subject to change without notice. Consult local distributor or factory for potential revisions and/or service related issues.



INDUSTRIAL CONTROLS DIVISION

800-447-1250 • 763-241-3238 • fax: 763-241-3224
www.tescom.com • icd@tescom.com

12616 Industrial Boulevard • Elk River, MN 55330 USA