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

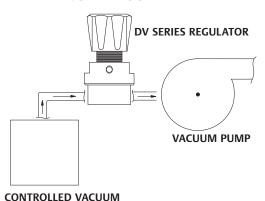
Weight (without gauges)

Brass: 2.4 lbs / 1.1 kg **Aluminum:** 1 lb / 0.5 kg

 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

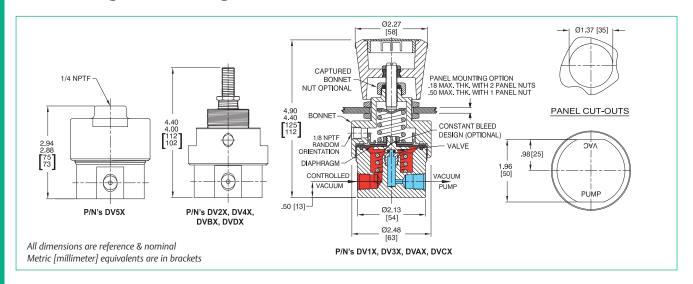
- Controls sub-atmospheric pressure
- Excellent repeatability
- Accurate diaphragm-type regulation ± 0.1% full scale accuracy
- High sensitivity of 10 mm Hg absolute achieved with constant bleed option
- Easy maintenance
- Low operating handknob torque
- Captured bonnet and panel mounting options are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

FOR NON-METALLIC KIT

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FOR REPAIR KIT

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Example for selecting a part number:

DV -	1	3	5	В	В	9	Α	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	1 – Brass 3 – Aluminum	NO BLEED	B – Brass	B – Buna-N	9 – None	A – No gauge ports	B – 1/4" SAE
	NO BLEED 1 – Handknob adjust	3 – Aluminum	Hg absolute		E – Ethylene Propylene	P – Panel Mounting	←()←	E – 1/8" NPTF F – 1/4" NPTF
	2 – Screwdriver adjust		CONSTANT		V – Viton®		PUMP VACUUM B – Gauge ports at 60°	J – 1/4" MS33649 9 – None
	3 – Captured bonnet Hand adjust		BLEED 5 – 0-635 mm				t /	J None
	4 – Captured bonnet Screw adjust		Hg absolute 9 – 0-255 mm				PUMP VACUUM	
	5 – Dome loaded		Hg absolute				F – In gauge at 90°	
	Standard Vacuum CONSTANT BLEED							
	A – Handknob adjust						PUMP VACUUM	
	B – Screwdriver adjustC – Captured bonnet						G – In gauge at 90°	
	Hand adjust D –Captured bonnet- Screw adjust						PUMP VACUUM	
							I L − Gauge ports at 90°	
			1. 28" Hg =	: 50 mm Hg al	osolute		PUMP VACUUM	

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

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