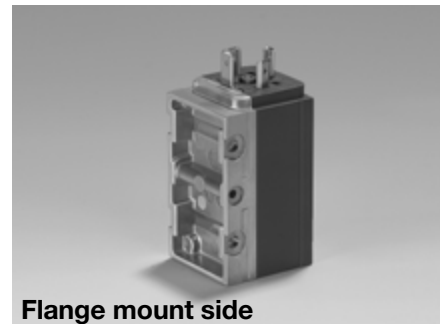


**Flange mount bottom**



**Flange mount side**



- // For use with natural gas and air, LP conversion kit available
- // Control of low or high gas pressure
- // Automatic reset
- // Diaphragm-actuated safety limit switch
- // Compact design
- // Die-cast aluminum base
- // Glass filled PBT switch housing
- // Polycarbonate cover
- // NBR diaphragm
- // Connection with male 1/4" NPT (1/8" NPT available), no additional fitting required
- // Or flange mount models for direct connection to Kromschroder modular valve trains
- // DIN/Amp plug wiring connector with 18" leads
- // Overall dimensions 2.80" x 1.34" x 1.18" (H x W x D)
- // Available with CE approval

### **Application**

The DG..VT series pressure switch controls rising or falling pressures that must not overshoot or undershoot a set limit value. The DG..VT controls the minimum or maximum gas inlet pressure of a gas control line. The DG..VT is suitable for industrial or commercial applications using natural gas, air or LP.

## Specification

### Electrical Ratings

Silver-plated contacts 30–240 Vac, I = 5 A resistive or 0.5 A inductive (cos φ = 0.6)

Gold-plated-contacts use at ≤30 V rate 0.1 A resistive or 0.05 A inductive (cos φ = 0.6)

Do not exceed current rating shown above.

NEMA 3 (IP 54).

Connections available: Male thread 1/4" NPT  
Male thread 1/8" NPT  
Flange mount bottom  
Flange mount side.

Pressure Rating: Max. operating pressure: 8.5 psig (600 mbar)  
Surge pressure: 30 psig (2.1 bar).

Ambient temperature range: +5 °F to 140 °F (-15 °C to +60 °C).

## Function

The pressure switch DG..VT switches when subjected to rising or falling pressures. A microswitch is activated, switching the contacts. The setpoint can be adjusted using the hand-wheel.

When Pressure...	Automatic Contacts 3–1	Reset Contacts 3–2
Is under setpoint	Close	Open
Is over setpoint	Open	Close
Falls under setpoint (setpoint minus switching differential)	Close	Open

## Installation

Fitting position: arbitrary.

The fitting position for the setpoint adjustment is identified on the type label. If the pressure switch is installed in a different position, the setpoint changes by a maximum ± 0.08 "WC (± 0.2 mbar).

Model	Adjusting Range		Switching Differential		Press. Max	
	in. wc	mbar	in. wc	mbar	psig	mbar
DG 17VT82W	1.2 – 7.2	3.0 – 18.0	0.32 – 0.6	0.8 – 1.5	8.5	600
DG 40VT82W	3.0 – 17.0	7.5 – 42.5	0.4 – 1.0	1.0 – 2.5	8.5	600
DG 110VT82W	12.0 – 44.0	30.0 – 110.0	0.8 – 3.2	2.0 – 8.0	8.5	600
DG 300VT82W	40.0 – 120.0	100.0 – 300.0	2.4 – 7.6	6.0 – 19.0	8.5	600

Connection 1/4 NPT thread

### Warning:

Situations dangerous to personnel and property can result from the misapplication and incorrect operation of combustion equipment. Kromschroder advises compliance with the National Fire Protection Association standards that apply for related equipment and Insurance Underwriters recommendation, and care of operation.

We reserve the right to make technical changes designed to improve our products without prior notice. For current product information, visit our website at [www.kromschroder.com](http://www.kromschroder.com).

**standard**

**Wiring**  
L1 – black  
NO – normal open, red  
NC – normal closed, blue  
Ground – Green/yellow

Switch furnished with 18" leads.  
Use approved flexible conduit for interconnection.  
Wiring must agree with local codes, National Electrical Codes, ordinances and regulations.

