

Diaphragm Valves

■ DV51 SERIES DIAPHRAGM VALVES



Handle



Pneumatic (150 psi)



Handwheel handle

■ Features

- Suitable for high purity applications
- Connections: FSR, NPT and GENLOK
- Internal spring-less design
- Metal-to-metal seal minimizes particle generation and ensures purity integrity in the flow passages
- Long service life
- 100% Helium leak tested

■ Materials

- Body: 316L
- Seat: PCTFE
- Diaphragm: Elgiloy®

■ Specifications

- Cv: 0.2
- Leak Rate
 - Inboard: 1×10^{-9} atm cc/sec He
 - Across Seat: 4×10^{-9} atm cc/sec He
- Proof Pressure: 150% of maximum operating pressure
- Burst Pressure: 400% of maximum operating pressure

■ Operating Conditions

- Maximum operating pressure: 300 psi (20 bar)
- Minimum operating pressure: Vacuum
- Operating temperature: 40°F ~ 150°F (-40°C ~ 65°C)

■ Pneumatic Actuator

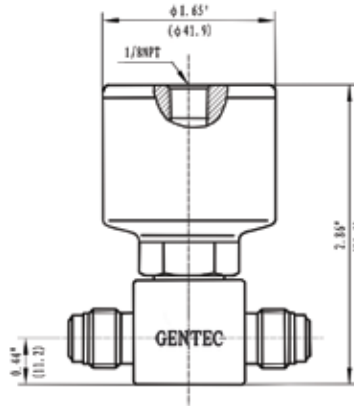
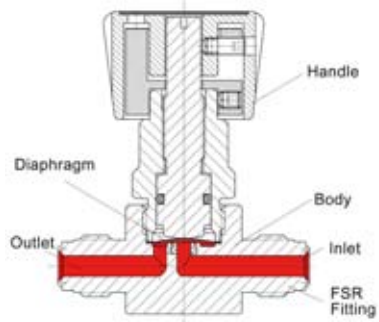
- Operating pressure: 70-125 psi (DV51PL)
60-90 psi (DV51PS)
- Inlet Connection: 1/8" NPT(F)
- Working Status: Normally closed

■ Surface Finish

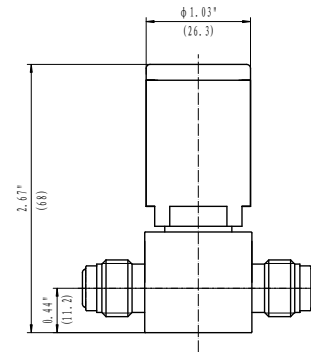
- Standard Ra: 20 μ in

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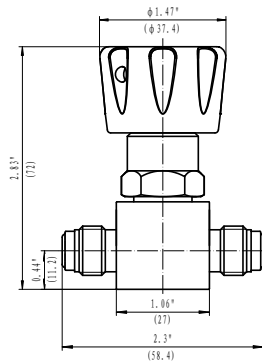
Dimensions



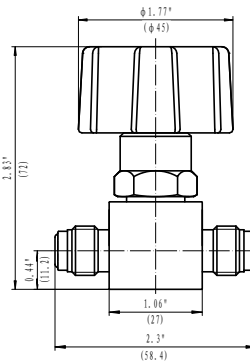
Pneumatic (300 psi)



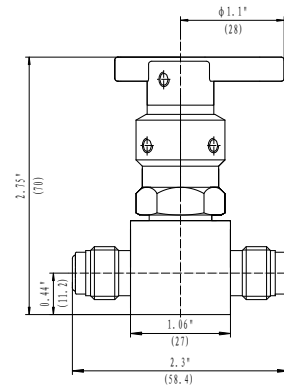
Pneumatic (150 psi)



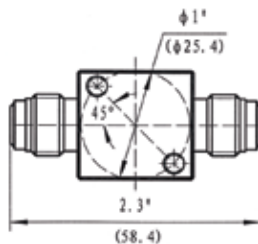
Handwheel (with status window)



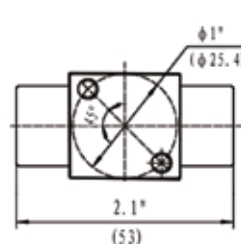
Handwheel (without status window)



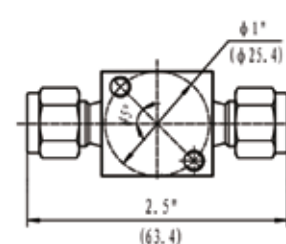
Handle (300 psi)



Face Seal Male Fittings



NPT Fittings



GENLOK Fittings

Ordering Information

SL - DV51		M	L	- VM4 - NT4	- NO
Body Material: SL: 316L	Model: DV51	Actuation: M: Handwheel (with status window) P: Pneumatic actuator (normally closed) B: Handle N: Handwheel (without status window)	Working Pressure: L: 300 psi S: 150 psi	Inlet / Outlet: NT4 FNT4 TF4 VM4	Options: Blank: Standard NO: Normally open (Pneumatic)