Diaphragm Valves

DV86 SERIES DIAPHRAGM VALVES



Manual (High Pressure)

Features

- · Suitable for ultra high purity applications
- · Both manual and pneumatic actuation are available
- End connections: Face seal fittings (FSR) and butt welded
- Internal spring-less design and metal-to-metal seal minimizes particle generation and ensures "purity integrity" in the flow passages
- Cleaned and degreased for oxygen service according to CGA
 G-4.1 and ASTM G93 Class C, respectively
- · Long service life
- · 100% Helium-leak tested



Pneumatic (Low Pressure)

Specifications

· Body: 316L stainless steel

• Seat: PCTFE*, Vespel®**

• Diaphragm: Elgiloy®

Maximum operating pressure:

300 psi (20 bar), 3500 psi (240 bar)

· Operating temperature:

-40°F ~ 150°F (-40°C ~ 65°C)

• Cv: 0.3

• Standard Ra: 15 μin (BA)

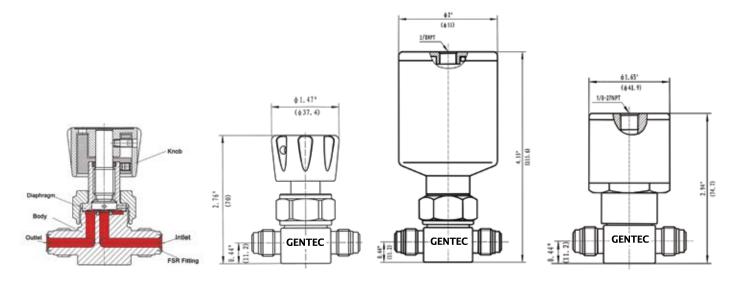
Optional: 7 µin (EP)

^{*} Standard Material

^{**} Vespel® seat is recommended for Nitrous Oxide (N2O) service but is not available for low pressure pneumatic actuation.

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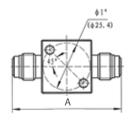
Dimensions

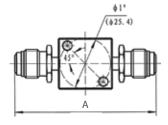


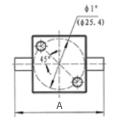
Manual (Low Pressure)

Pneumatic (High Pressure)

Pneumatic (Low Pressure)







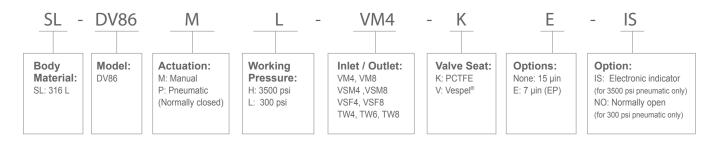
Face seal male (FSR fittings) Face seal swivel male (FSR fittings)

Butt welded

Connections*	A (mm)
VM4	58.4
VM8	67.6
VSM4	70.8
VSF4	70.6
TW4	44.2
TW8	44.2

^{*:} Applies to both inlet & outlet connections

Ordering Information



Inlet & Outlet Connections		
Туре	Dimensions	
VM: Face seal male (FSR fittings)	4, 8	4 = 1/4"
VSM: Face seal swivel male (FSR fittings)	4, 8	6 = 3/8"
VSF: Face seal swivel female (FSR fittings)	4, 8	8 = 1/2"
TW: Butt welded	4, 6, 8	