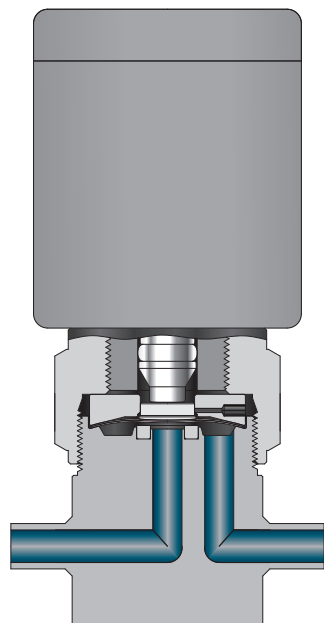


SEMICONDUCTOR & SPECIALTY GAS APPLICATIONS DIAPHRAGM VALVES



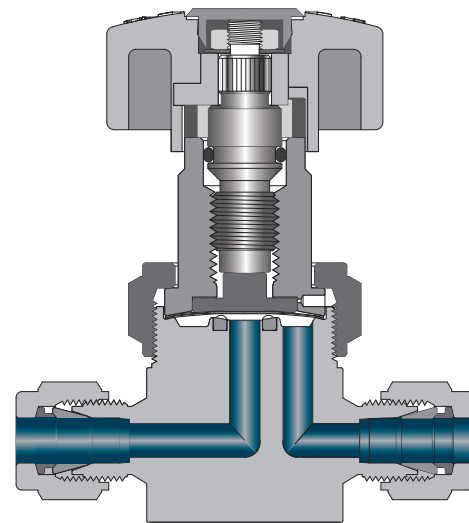
GM Series

- Suitable for ultrahigh-purity applications
- Low internal volume, fully swept flow path
- Contained seat to provide excellent resistance to swelling and contamination
- Elgiloy material for strength and corrosion resistance for long cycle life
- Pneumatic actuator: Long cycle life with high speed actuation
- Working pressure up to:250 psig (17.2 bar)
- Pneumatic actuator operating pressure:60~90psig (4.2~6.2bar)
- Working temperature:PCTFE:-23°C~65°C (-10°F~150°F)
PFA:-23°C~150°C (-10°F~302°F)
- Leak rate:Internal:≤1.0x10⁻⁹ mbar l/s
External:≤1.0x10⁻⁹ mbar l/s
- Orifice size:4.1 mm(0.16 in.)
- Flow coefficient (Cv):0.27
- End connections:1/4" to 3/8", 6mm to 8mm
- Flow patterns: straight type, branch type, 2-valve 3-way block type, 3-valve 4-way block type



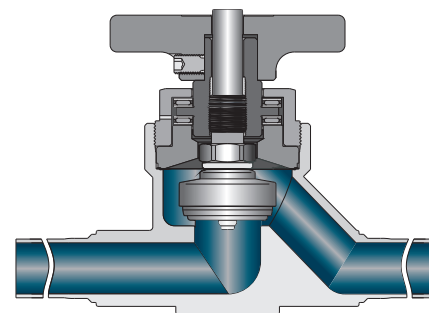
GH Series

- Fully contained PCTFE seat design provides excellent resistance to swelling and contamination
- Elgiloy material for strength and corrosion resistance for long cycle life
- Manual or pneumatic actuation
- Working pressure up to:3000 psig (206 bar)
- Pneumatic actuator operating pressure: 60 to 90 psig (4.2 to 6.2 bar)
- Working temperature:PCTFE:-10°F~150°F(-23°C~65°C)
Vespel:-10~250°F(-23~120°C)
- Leak rate:Internal:≤1.0x10⁻⁹ mbar l/s
External:≤1.0x10⁻⁹ mbar l/s
- Orifice size:4.1mm(0.16in.)
- Flow coefficient (Cv):0.2
- End connections:1/4 to 3/8",6mm to 8mm
- Flow patterns: straight type, branch type



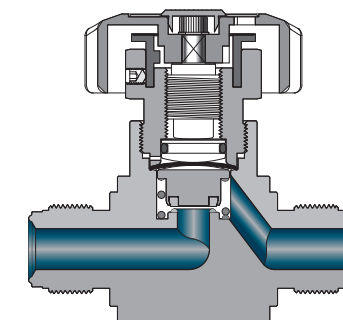
GL Series

- Contoured flow passages allow high flow
- Metal-to-metal diaphragm seal
- No springs or threads in wetted areas enable cleaner operation
- Repetitive shutoff with fully contained soft-seat stem tip
- Position indicator ring for lever handle
- Working pressure up to: 300 psig (20.6 bar)
- Working temperature:PCTFE: -10°F~150°F (-23°C~65°C)
Vespel: -10°F~250°F (-23°C~121°C)
- Leak rate:Internal:≤1.0x10⁻⁹mbar l/s
External:≤1.0x10⁻⁹mbar l/s
- Orifice size:28.6 mm (1.125 in.)
- Flow coefficient (Cv):13
- End connections:3/4" to 1", 23mm to 25mm
- Flow patterns: straight type, straight type with purge port



GF Series

- Can be used in vacuum applications
- Repetitive shutoff with fully contained soft-seat stem tip
- Manual (with position indicator ring) and pneumatic actuators available
- Working pressure up to: manual :3500 psig (241 bar)
pneumatic:3000 psig (206 bar)
- Pneumatic actuator operating pressure:60~90psig (4.2~6.2bar)
- Working temperature:PCTFE:-10°F~150°F (-23°C~65°C)
Vespel:-10°F~250°F (-23°C~121°C)
- Leak rate:Internal:≤4.0x10⁻⁹ mbar l/s
External:≤4.0x10⁻⁹ mbar l/s
- Orifice size:8.0 mm (0.31 in.)
- Flow coefficient (Cv):0.8
- End connections:3/8" to 1/2",8mm to 12mm
- Flow pattern: straight type



Ordering Number Description

A B C D E F G H
SS-GM-VC4-XX-XX-XX-XX

A	Material
SS	316 SS
6L	316L SS
6LV	316LVAR SS
6LW	316LVIM/VAR SS

B	Series
GM	
GH	
GL	
GF	

C	P1 Type
VC	VCR male fitting
FVC	VCR female fitting
FN	NPT female tapered threads
N	NPT male tapered threads
TWB	Inch tube butt weld
TMB	Metric tube butt weld
M	Metric Ferrule
F	Fractional Ferrule

D	P1 Size
4	1/4"
6	6mm or 3/8"
8	8mm or 1/2"
10	10mm
12	12mm or 3/4"
16	16mm or 1"

E	P2,P3,P4 Type/Size
Specify in the same way as the P1	

H	Cleaning and Packaging
Default = Standard cleaning and packaging for general industrial use	
W= degreasing and oxygen-rich cleaning	
W1=Normally open actuator	

F	Flow Pattern
Default= Straight	
A=Angle	
3=3-way	

G	Actuator Type
None	
41=Normally closed actuator	
42=Normally open actuator	