

Kurt J. Lesker[®]
Company

BELLOWS SEALED GATE & ANGLE VALVES

SPECIFICATIONS

TECHNOLOGY PHOTOVOLTAICS DISPLAY TECHNOLOGIES OLED/PLED NANOTECHNOLOGY AUTO LIGHTING
MEMS NIGHT VISION AEROSPACE SEMICONDUCTOR SUPERCONDUCTOR OPTICAL & WEB COATING



REFRIGERATION LASER TECHNOLOGY DATA STORAGE MASS SPECTROMETRY THIN FILM PHARMACEUTICALS
AUTOMOTIVE LIGHTING SURFACE ANALYSIS R&D HIGH ENERGY PHYSICS HEAT TREATING NANOTECHNOLOGY



Your Primary Vacuum

• Bellows Sealed Gate Valves

Specifications:

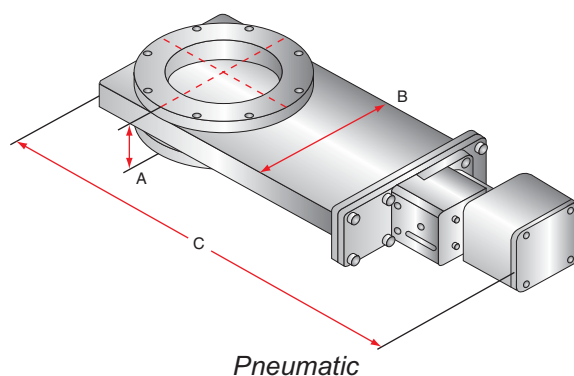
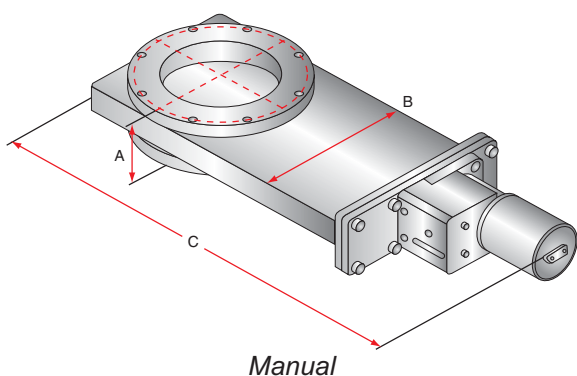
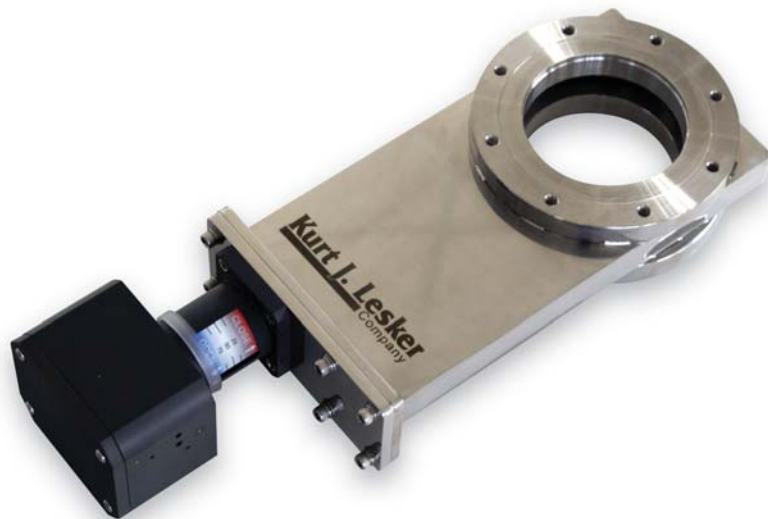
- Pressure range: 1×10^{-8} Torr – atm
- Leak rate: $< 1 \times 10^{-9}$ Torr.l/s

Materials:

- Valve Body & Gate – Stainless Steel
- Actuator Module – Stainless Steel, Aluminum, MC Nylon
- Bellows – Welded 316L Stainless Steel
- Gate & Bonnet Seals – Viton

Pneumatic models:

- Requires 60–80 psi air pressure for actuation
- Requires a solenoid (sold separately)



• CF Flanged

Flange Size	Actuation	Port ID	Dimensions			Thread	Part No.
			A	B	C		
6"CF	Manual	4"	2.36	5.98	17.60	5/16-24	GV0400MVCF
6"CF	Manual	4"	2.36	5.98	17.60	M8X1.25	GV0400MVCFM
8"CF	Manual	6"	2.36	7.80	21.33	5/16-24	GV0600MVCF
8"CF	Manual	6"	2.36	7.80	21.33	M8X1.25	GV0600MVCFM
6"CF	Pneumatic	4"	2.36	5.98	17.60	5/16-24	GV0400PVCF
6"CF	Pneumatic	4"	2.36	5.98	17.60	M8X1.25	GV0400PVCFM
8"CF	Pneumatic	6"	2.36	7.80	21.33	5/16-24	SG0600PVCF
8"CF	Pneumatic	6"	2.36	7.80	21.33	M8X1.25	SG0600PVCFM

• ISO Flanged

Flange Size	Actuation	Port ID	Dimensions			Thread	Part No.
			A	B	C		
ISO100	Manual	4"	2.36	5.98	17.60	M8X1.25	GV0400MVIF
ISO160	Manual	6"	2.36	7.80	21.26	M10X1.5	GV0600MVIF
ISO100	Pneumatic	4"	2.36	5.98	17.84	M8X1.25	GV0400PVIF
ISO160	Pneumatic	6"	2.36	7.80	21.61	M10X1.5	GV0600PVIF

Equipment Supplier

ä Bellows Sealed Angle Valves

Reliable, economical, general-purpose components for HV and UHV applications requiring cleanliness and corrosion resistance.

Specifications:

- Pressure range: 1×10^{-9} Torr – atm
- Leak rate: $< 1.5 \times 10^{-9}$ Torr.l/s

Materials:

- Valve Body – Stainless Steel
- Poppet – Stainless Steel
- Bellows – Welded AM-350 Stainless Steel
- Seals – Viton

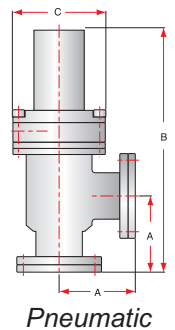
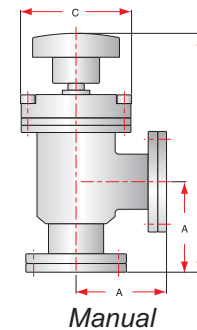
Pneumatic models:

- Standard spring-to-close operation; 60–80 psi air pressure opens the valves
- Requires a solenoid (sold separately)



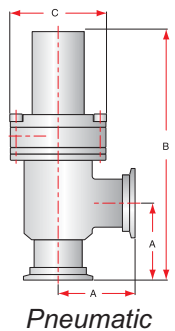
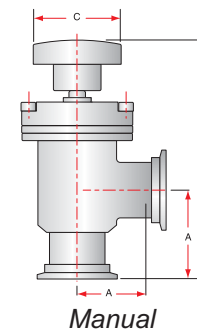
n CF Flanged

Flange Size	Actuation	Bonnet Seal	Dimensions			Part No.
			A	B	C	
1 1/3"CF	Manual	Fluorocarbon	2.50	6.50	2.25	SA0075MVCF
2 3/4"CF	Manual	Fluorocarbon	2.45	7.71	3.00	SA0150MVCF
1 1/3"CF	Pneumatic	Fluorocarbon	2.50	6.35	2.25	SA0075PVCF
2 3/4"CF	Pneumatic	Fluorocarbon	2.45	7.73	3.00	SA0150PVCF



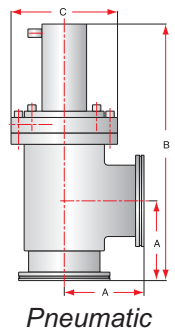
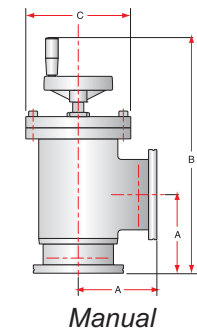
n KF Flanged

Flange Size	Actuation	Bonnet Seal	Dimensions			Part No.
			A	B	C	
KF16	Manual	Fluorocarbon	2.15	6.15	2.25	SA0075MVQF
KF25	Manual	Fluorocarbon	2.03	5.85	2.25	SA0100MVQF
KF40	Manual	Fluorocarbon	2.40	7.65	3.00	SA0150MVQF
KF50	Manual	Fluorocarbon	3.40	9.91	3.50	SA0200MVQF
KF16	Pneumatic	Fluorocarbon	2.15	6.18	2.25	SA0075PVQF
KF25	Pneumatic	Fluorocarbon	2.03	5.92	2.25	SA0100PVQF
KF40	Pneumatic	Fluorocarbon	2.40	7.84	3.00	SA0150PVQF
KF50	Pneumatic	Fluorocarbon	3.40	10.33	3.50	SA0200PVQF



n ISO Flanged

Flange Size	Actuation	Bonnet Seal	Dimensions			Part No.
			A	B	C	
ISO63	Manual	Fluorocarbon	3.25	11.20	4.00	SA0250MVIK
ISO100	Manual	Fluorocarbon	4.47	12.00	6.50	SA0400MVIK
ISO63	Pneumatic	Fluorocarbon	3.25	10.80	4.00	SA0250PVIK
ISO100	Pneumatic	Fluorocarbon	4.47	14.57	6.50	SA0400PVIK
ISO160	Pneumatic	Fluorocarbon	6.26	20.28	9.25	SA0600PVIK



GLOBAL VACUUM PRODUCT LINES

VACUUM MART™ DIVISION

Vacuum Valves & Hardware

- Flanges, Components, & Fasteners
- Gate & Angle Valves
- OFHC Copper Gaskets
- Bellows, Tubing, & Seals
- Semiconductor, PV, & FPD Process Valves

Feedthroughs

- Power & High Voltage
- Viewports (Optical Feedthrough)
- Coaxial & Instrumentation
- Thermocouple
- Ferro-Magnetic Fluid Rotary Drives
- USB

Vacuum Pumps & Accessories

- New & Remanufactured
- Rotary Vane & Piston
- Scroll & Diaphragm
- Screw & Roots Blowers
- Turbo & Diffusion
- Cryogenic & Ion
- Traps & Filters
- Complete Offering of Pump Repair Services

Vacuum Fluids

- Full Line of Mechanical Pump Oils
- Fomblin® PFPE - Inert PFPE
- Galden® PFPE - Heat Transfer Fluid
- Vacuum Greases, Sealants, & Solvents
- Pump Oil with R/O Additives
- Silicon Diffusion Pump Oils
- Pump Oil Recycling

Pressure Measurement

- Analog & Digital Active Gauges
- Pressure Indicators & Controllers
- Wide-Range Gauges
- Multi-Gauge Controllers
- Replacement Gauge Tubes
- MKS Baratrons®

Sample Manipulation & Motion

- Rotary & Linear Motion
- Linear Positioners
- Wobble Sticks & Port Aligners
- XYZ Manipulators
- Multi-Axis Manipulators
- Sample Transfer Probes
- Sample Heating & Rotation
- Motion Control
- Sample Distribution Center

Vacuum Services

- Full Line Pump Repair/Rebuild Services
- Pump Oil Recycling
- Technical Information
- Technical Consulting
- Decontamination
- Magnetron Cathode Service
- Contract Manufacturing

PROCESS EQUIPMENT™ DIVISION

Deposition Sources

- Torus® Magnetron Sputtering Sources
- Electron Beam Evaporation
- Organic Material Sources
- Electron Beam Sources
- Ion Sources
- Thermal Evaporation Sources

Process Instrumentation

- Film Thickness
- Mass Flow Controllers
- RF & DC Power Supplies
- Pulsed DC Power Supplies
- Power Supplies for Evaporation

System Components & Custom Engineered Solutions

- Turnkey & Partial Build Solutions
- Comprehensive Engineering Design Support
- Chambers, Frames, & Mounting Structures
- High Temperature & Bakeout Heater Assemblies
- Heater Power Supplies
- Substrate Load Locks & Transfer Vessels

Vacuum Systems

- Thin Film Deposition Systems
- Cluster Tools
- Box Coaters
- General PVD Systems
- Computerized Systems
- Combinatorial Systems
- Organic Material Deposition Systems
- R&D Sputter Tools
- Vacuum Furnaces & Ovens
- Atomic Layer Deposition (ALD)
- Drum Coaters
- In-line & Linear Systems
- R2R Systems

MATERIALS™ DIVISION

Deposition Materials

- Sputtering Targets
- Precious Metals & Reclaim
- Evaporation Pieces
- Thermal Evaporation Sources
- E-Beam Crucible Liners
- Bonding Service
- Backing Plates
- Ceramic Materials Manufacturing (CMM)

MANUFACTURING™ DIVISION

Vacuum Chambers & Components

- Standard SS Cylindrical, D-Shaped, Spherical, & Box Chambers
- Standard Pyrex® Glass Bell Jars & Cylinders
- Standard Building Blocks to Customize Your System
- Custom Chambers
- Array of Finishes & Materials
- Easily Build Your Own Chamber with the Custom Chamber Configurator On-line

Manufacturing & Fabrication

- State-of-the-Art CNC Machining
- Mechanical, Manufacturing, & Industrial Engineering
- Computer Based Scheduling & Routing
- CAD, CAM, & FEA Software
- Coordinate Measuring Machine Inspection (CMM)
- UHV Compatible Cleaning Process

We have a network of representatives around the world ready to service the international vacuum community.

Visit our website to find the representative nearest you, or contact our International Sales Department.

www.lesker.com/locations

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