PROTECTION GATE VALVE



Kurt J. Lesker Company

VACUUM MART™ DIVISION

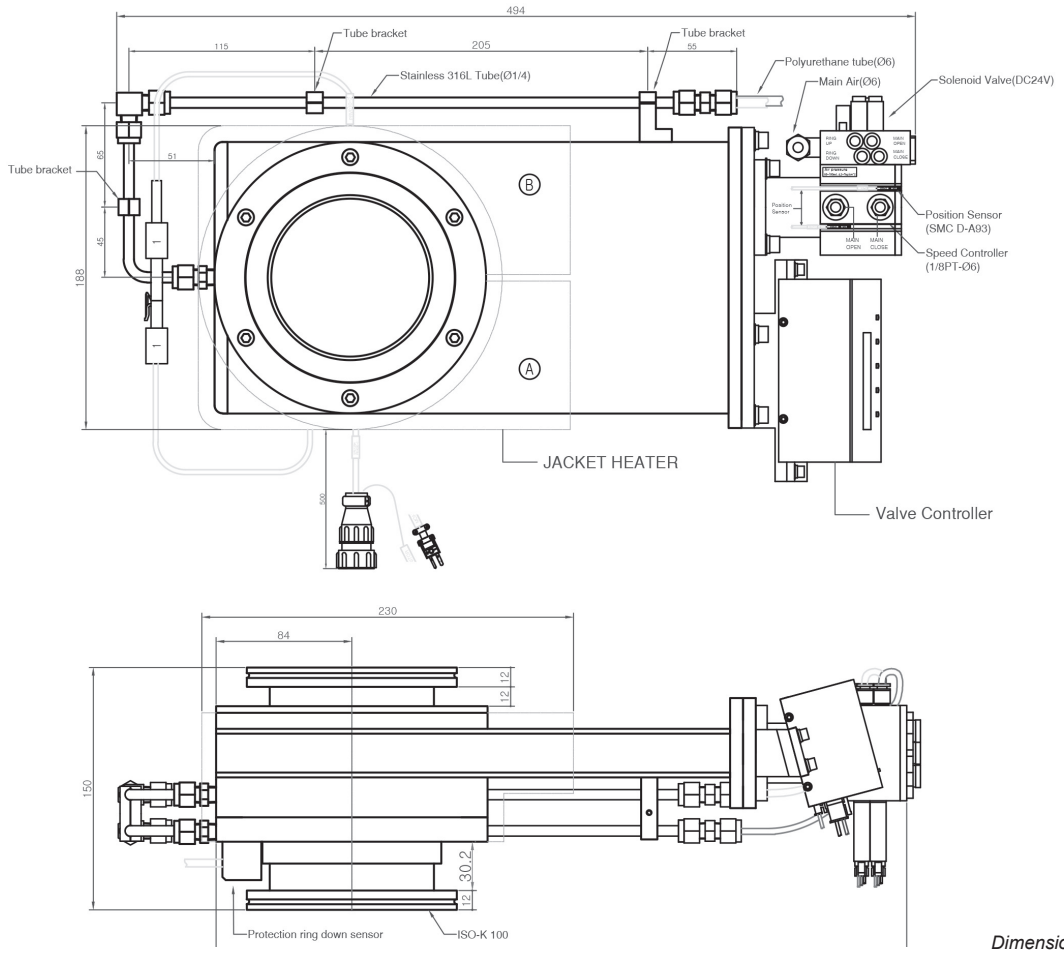
Applications

- Vacuum pump or chamber isolation in demanding processes
- Plasma etching, cleaning, and de-smearing
- All CVD processes (MO, PE, HDP, LP, and AP)
- Nanotechnology processes with high particulate levels
- Thin film photovoltaic panels

Features

- Fast pneumatic actuation –close in <0.3 seconds
- Patented shielding mechanism
- O-ring sealed actuator
- Long life cycle under adverse process conditions
- Local/remote control with status LCD display
- Easy routine maintenance
- 1,2,3, or 4 channel control (on request)
- UPS (on request)
- Independent control of protection ring on request
- Heater jacket

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Dimensions Approximate

Specifications

Pressure range	1.0 X 10^{-6} ~ 12 X 10^{5} Pa (abs)
Differential pressure on the gate	Opening Direction: 0.12MPa Closing Direction: 0.12MPa
Differential pressure at opening	0.005MPa
Helium Leak Rate	Housing: <1.0X10^{-10} PA*m^3/sec Seat (Gate): <1.3X10^{-10} PA*m^3/sec (±)
Mounting Position	Horizontal

Material

Bellows	STS 316L
Gate (seat)	STS 304, AL6061
Valve housing, Bonnet, Shaft (Stem), Bellows end piece	STS 304
Bonnet seal, Pneumatic seal	FKM (Viton®)
Gate seal, Vacuum seal	FKM (Viton®), FFKM (Kalrez®) on request

Temperature

Body	105°C (Viton® o-ring); 150°C (FFKM o-ring)
Actuator	60°C

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Kurt J. Lesker Company
United States - salesus@lesker.com
412.387.9200
800.245.1656

Kurt J. Lesker Canada Inc.
Canada - salescan@lesker.com
416.588.2610
800.465.2476

Kurt J. Lesker Company Ltd.
EMEIA - EMEIAsales@lesker.com
+44 (0) 1424 458100

Kurt.Lesker (Shanghai) Trading Company
科特·莱思科(上海)商贸有限公司
Asia - salesasia@lesker.com
+86 21 50115900