

RECTANGULAR GATE VALVE CHECKLIST

Name:		Date:	
Address:			
Phone Number:		E-mail:	

Item		Customer (Please record in the space below)	Example
Gate Opening Requirements			50mm x 336mm
Valve Body Limitations			350mm Height, 60mm thick
Mounting Flange Details			See Attached Drawing
Pressure Range			1.0 x 10 ⁻⁵ mbar to 1 bar (abs)
Differential Pressure At Opening			≤ 20 mbar
Bellows Feedthrough or Shaft O-ring Seal?			Bellows
Helium Leak Rate	Body		≤ 1.0 x 10 ⁻⁷ mbar l/s
	Seat (Gate)		≤ 1.0 x 10 ⁻⁷ mbar l/s
What is your application?			PVD
Cycling Time (Switch To Switch)	Open		5.0±0.5 sec
	Close		5.0±0.5 sec
Installation Location			Process, Transfer, or Load Lock
Interfacing Requirements			Solenoid Valve: 50cm ³ /min / C _v 0.15 Air Tube Length: 1.0m, Ø8mm Operation pressure : 80psi (5.6K)
Mounting Position			Vertical or Horizontal
Heating/Cooling Requirements			None
Particulate/Powder/Solvents/Liquids?			None
Cycles Until First Service			≥ 1,000,000
Process Gases			N ₂ , Ar
Heating / Cooling Requirements?			None
Mechanically Lock? (N/A for Door)			Yes
Pneumatic Pressure?			* 80psi (70~90psi)
Air Connection			Air fitting : Ø10 w/ Speed controller
Temperature	Valve Body		≤ 100°C
	Gate		≤ 100°C
	Pneumatic Actuator		≤ 60°C

Item		Customer (Please record in the space below)	Example
Weight Limitations			30kg
Materials	Valve Body		AL6061
	Gate		AL6061
	Bonnet Plate		AL6061
	Shaft (Stem)		SS304L
	Welded Bellows		AM350
	Bellows Ends		SS316L
	Gate Seal		FKM o-ring
	Bonnet Seal		FKM o-ring
	Actuator Seal		FKM o-ring
Surface Treatment	Valve Body		N/A
	Gate (Blade)		N/A
	Bonnet Plate		N/A
	Shaft		N/A

What other application or process concerns do you have?

Do you have any technical issues you are trying to overcome?

Please provide details of your product qualification process when installing new components on your system:

Are you developing any next-gen equipment which may require a rectangular gate valve? If yes please give details:

Other?

Upon completion, please forward to valves@lesker.com for quotation.