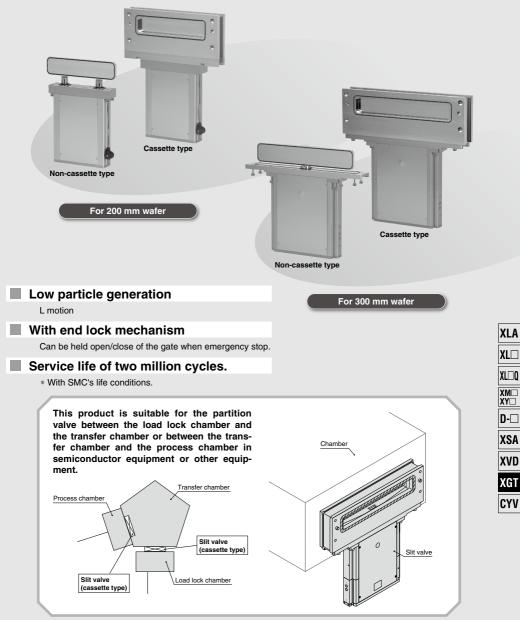
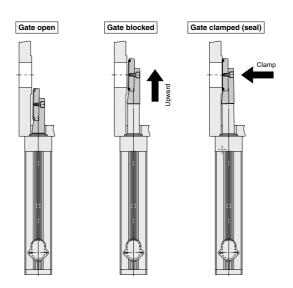
# Slit Valve XGT Series

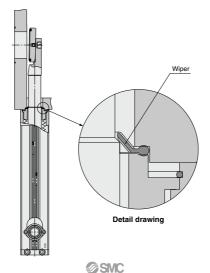


# XGT Series

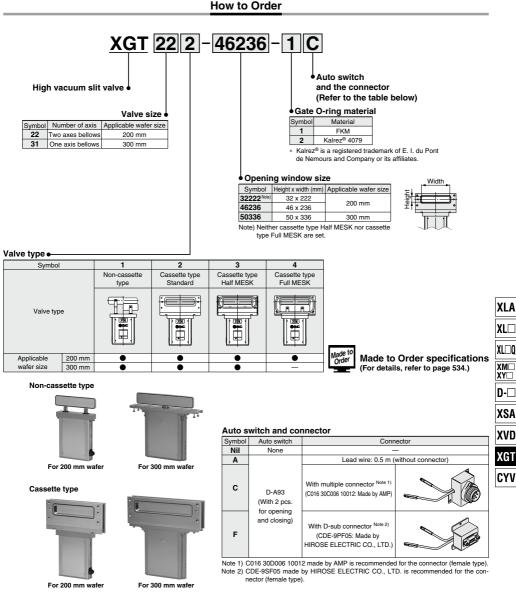




Bellows protection structure The adoption of a wiper decreases the intrusion of foreign objects, resulting from wafer damage and or other sources.



# Slit Valve **XGT Series**



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RoHS

# XGT Series

### Specifications

Moc	lel	XGT22□-32222	XGT22□-46236	XGT31□-50336	
Wafer size (mm)		20	00	300	
Opening window size (Height x V	Vidth) (mm)	32 x 222	46 x 236	50 x 336	
Number of axes		2	2	1	
Operating environmental pressu	re Note 1) (Pa) (abs)		Atmospheric pressure to10 <sup>-6</sup>		
Operating pressure differential	(kPa)		4 or less		
Operating pressure range (MPa	) (G)		0.45 to 0.6		
Internal leak Note 2) (Pa·m <sup>3</sup> /s)	O-ring: FKM		6.5 x 10 <sup>-10</sup>		
internal leak	O-ring: Kalrez <sup>®</sup>		6.5 x 10 <sup>-9</sup>		
Internal leak Note 2) (Pa·m <sup>3</sup> /s) at reversed pressure	O-ring: FKM		6.5 x 10 <sup>-8</sup>		
[Reversed pressure: 0.1 MPa (abs) or less]	O-ring: Kalrez <sup>®</sup>		6.5 x 10 <sup>-7</sup>		
External leak Note 2) (Pa·m3/s)			6.5 x 10 <sup>-11</sup>		
Note 2) (co)	Gate part		5 to 150		
Operation temperature Note 3) (°C)	Actuator part	5 to 60			
Fluid		Inert gas			
Operating time Note 4) (s)			0.6 to 1		
	Seal material	FKM, Kalrez <sup>®</sup> 4079 (Option) Note 6)			
	Bellows	AM350			
Main material of vacuum part	Gate	A6063			
Main material of vacuum part	Body	A5052			
	Bonnet	A5052			
	Others	Stainless steel 304			
Exhaust direction		Free			
Mounting direction		Vertical			
Port size		M5 x 0.8 Rc 1/8			
End-lock mechanism		With lock mechanism at opening/closing position Note 5)			
Cylinder volume (L)		0.12 0.2			
	Non-cassette type	8		14	
Weight (kg)	Cassette type: Standard	12		20	
weight (kg)	Cassette type: Half MESK	_	12	20	
	Cassette type: Full MESK	-	11	-	

 Note 1) Absolute pressure

 Note 2) Value at normal temperature: Not including gas permeation.

 Note 3) if the temperature at the gate exceeds 60°C, the operating temperature at actuator may go beyond the range. In this case, cool the actuator part.

Note 4) This shows the time after the switching valve activates and causes the gate to open and close. Note 5) The holding function of the seal is not guaranteed when the gate is clamped.

Note 6) Kalrez<sup>®</sup> is a registered trademark of E. I. du Pont de Nemours and Company or its affiliates.

#### Auto switch specifications

Auto switch type	D-A93		
Applicable load	Relay, PLC		
Load voltage	24 VDC 100 VAC		
Load current range and maximum load current	5 to 40 mA	5 to 20 mA	
Contact protection circuit	None		
Internal voltage drop	2.4 V or less (to 20 mA) / 3 V or less (40 mA)		
Indicator light	Red light emitting diode (LED) lights up when ON.		

#### D-sub connector specifications

Description		Slit valve body side	Counter side
Contacting division		Pin (male type)	Socket (female type)
D-sub connector	Shell size	E	
	Poles	9	

Prepare the socket contacting (female type) because the slit valve body is a pin contacting (male type).

The product should be operated after thoroughly reading the manual and understanding its contents.

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### Connector wiring diagram

#### C: Multiple connector (6P)



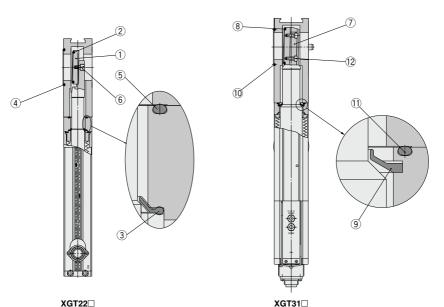
	Terminal item no.	Lead wire color	Auto switch
	1	Blue	OPEN (-)
)	2	Brown	OPEN (+)
2	3	-	-
	4	-	-
	5	Brown	CLOSE (+)
	6	Blue	CLOSE (-)

#### F: D-sub connector (9P)

	Terminal item no.	Lead wire color	Auto switch
	1	Brown	OPEN (+)
$\sim$	2	Brown	CLOSE (+)
50 09 40 09	3	-	
30 08	4	-	
20 06	5	-	
	6	-	
	7	Blue	OPEN (-)
	8	Blue	CLOSE (-)
	9	-	-

# Slit Valve XGT Series

### Construction



For 300 mm wafer

XGT22 For 200 mm wafer

## Component Parts

### XGT22 (200 mm wafer type)

No.	Description	Material	Part number	Corresponding model		
		40000	XGT0101-2-1S	XGT22□-32222-□□		
1	Gate	A6063	XGT0402-2-1S	XGT22□-46236-□□		
		FKM	XGT200-9-13S	XGT22-32222-		
•	2 O-ring (Gate)	Kalrez® 4079	XGT200-9-14S	XG122LI-32222-LLL		
2		O-ring (Gate)	FKM	XGT200-9-7S	XGT22□-46236-□□	
		Kalrez <sup>®</sup> 4079	XGT200-9-9S	XG122LI-46236-LLL		
3	Wiper		XGT200-4-9S	XGT22		
4	O-ring (Body opening side)	FKM	XGT200-9-12S	XGT22D		
5	O-ring (Bonnet assembly)		XGT200-9-11S	XG122LI-LLL		
6	Holding bolt	Stainless steel 304	XGT200-2-5S	XGT22		

### XGT31 (300 mm wafer type)

No.	Description	Material	Part number	Corresponding model	
7	Gate	A6063	XGT300-2-1S		
8	O ring (Cata)	FKM	XGT300-9-9S	XGT31□-50336-□□	
8	8 O-ring (Gate)	Kalrez® 4079	XGT300-9-11S	X01312-30330-22	
9	Wiper		XGT300-4-9S		
10	O-ring (body opening side)	FKM	XGT300-9-10S	XGT31□-50336-□□	
11	O-ring (Bonnet assembly)		XGT300-9-7S	XGT31□-50336-□□	
12	Holding bolt	Stainless steel 316	XGT300-2-5S		

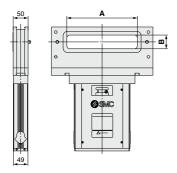
\* Kalrez® is a registered trademark of E. I. du Pont de Nemours and Company or its affiliates.

XLA
XL□
XL□Q
XM□ XY□
<b>D-</b> □
XSA
XVD
XGT
CYV

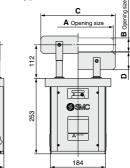
# XGT Series

### Dimensions

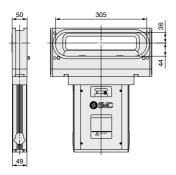
### Cassette type Standard/XGT222

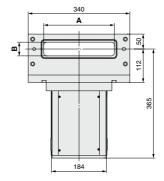


### Non-cassette type/XGT221



### Cassette type Half MESK/XGT223





Valve seat side (XGT222, 223, and 224 common)

### Cassette type Full MESK/XGT224

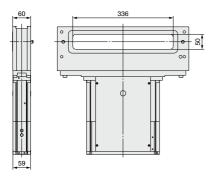
					(mm)
Model	Valve type	Α	В	С	D
XGT221-32222	Non-cassette type	222	32	235	45
XGT221-46236	Non-casselle type	236	46	249	59
XGT222-32222	Cassette type Standard	222	32	—	_
XGT222-46236	Casselle type Standard	236	46	—	_
XGT223-46236	Cassette type Half MESK	236	46	_	_
XGT224-46236	Cassette type Full MESK	236	46	—	_

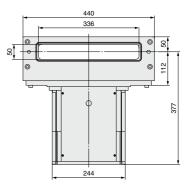


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### Dimensions

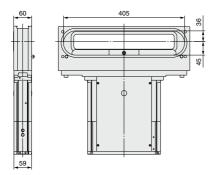
### Cassette type standard/XGT312



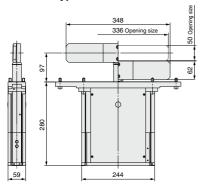


Valve seat side (XGT312, 313, and 311 common)

### Cassette type half MESK/XGT313



### Non-cassette type/XGT311



X	ĹA
X	L
X	LDQ
X	M□ Y□
D	)-[]
X	SA
X	VD
Х	GT
C	YV

XGT Series Made to Order Specifications: Please contact SMC for detailed dimensions, specifications and lead times.



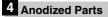
### **1** With Built-in Heater (Up to 150°C)





With heater on cassette

With heater on shaft



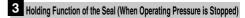
The parts which come in contact with gas (oxalic acid aluminum alloy, stainless steel etc.) is changed.

## 5 Replaceable Bellows

Customer can replace bellows.

### 2 High Temperature Type (150°C)

O-ring, guide etc. which is the part of actuator are changed to heat resistance.



Sealing is maintained when operating pressure is stopped.