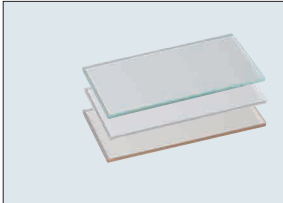


Glass Plates

Square

Float Transparent Glass excels in smoothness and has little distortion. Heat Resistant Glass (TEMPAX Float®) excels in heat and impact resistance. Reinforced Glass has 3–5 times higher static strength compared to general glass with the same thickness. Specifications of Heat-Resistant Crystallized Glass, which has excellent heat resistance and strength, is added.



No.	Configurable Type	Fixed Dimension Type	Material	Heat-Resistant Temperature	
				Continuous Use	Max.
1	FGLKF	GLKF	Transparent Float Glass (Soda-Lime Glass)	80 °C	—
2	FGLKH	GLKH	Heat-Resistant Glass (TEMPAX Float®)	230 °C	500 °C
3	FGLKK	GLKK	Reinforced Glass	180 °C	200 °C
4	FGLKR	—	Heat-Resistant Crystallized Glass (Nextrema®)	700 °C	850 °C

① Heat resistant temperature will be largely varied depending on the operating condition. Values are not guaranteed.
② Cannot be used for Class-1 pressure vessels, Class-2 pressure vessels, or equipment specifically for high pressure gas.

T Tolerance

Type	T	Tolerance
GLKF GLKK FGLKF FGLKK FGLKR	3, 3.3, 5, 6	±0.3
	8, 10	±0.6
GLKH FGLKH	3.3, 5, 6.5	±0.2
	8, 10	±0.4

Hole Machining Details

Bolt Nominal Dia.	3
d	3.5
d ₁	7.5
h	2

① Keep a dimension of 5 mm or more between hole end and glass end.

Configurable Type

Part Number		1 mm Increment	
Type	T	A	B
FGLKF Float Transparent Glass	3	20–500	20–500
	5		
	8		
FGLKH Heat-Resistant Glass	3.3		
	5		
	6.5		
	8		
FGLKK Reinforced Glass	10		
	3.3	51–500	51–500
	5		71–500
	6.5		
	8		
	*10		
FGLKR Heat-Resistant Crystallized Glass	3	20–500	20–500
	5		

Fixed Dimension Type

Part Number		A	B
Type	T	Selection	Selection
GLKF Float Transparent Glass	3	50	50
		100	50 100
		150	100 150
	5	200	150
		100	50 100
		150	150
GLKH Heat-Resistant Glass	3.3	50	50
		100	50 100
		150	100 150
	5	200	200
		50	50
		100	50 100
GLKK Reinforced Glass	3	50	50
		100	50 100
		150	100 150
	5	200	200
		250	150 250
		300	100 250 300

4-Side Milled Type

(A, B Dimension Tolerance ±0.2)

Part Number			1mm Increment		
Type	Finish Selection	T	A	B	
FGLKF Float Transparent Glass	4F	3	20–400	20–300	
		5			
		8			
3.3					
5					
6.5					
8					
*10					
FGLKH Heat-Resistant Glass		3.3	51–400	51–300	
		5			
		6			
		8			
FGLKK Reinforced Glass		10	71–300		
		3		20–400	20–300
		5			

① *FGLKH (heat resistant glass) with the part number T10 has an actual size of 10.2.

Pre-Drilled Type

Part Number			1 mm Increment				Screw Nominal Dia.	
Type	Number of Holes	T	A	B	F	G	N (Through)	P (Countersink)
FGLKF Float Transparent Glass	2H	3	30–500	30–500	13–450	13–450	5	3
		5						
FGLKH Heat-Resistant Glass	4H	3.3						
		5						
FGLKR Heat-Resistant Crystallized Glass		3						
		5						

① FGLKK cannot be pre-drilled.



Part Number Example

Part Number	-	A	-	B	-	F	-	G	-	Screw Nominal
GLKK5	-	200	-	200	-		-		-	
FGLKH3.3	-	231	-	210	-		-		-	
FGLKH2H5	-	200	-	150	-	F100	-	G75	-	N5

Heat-Resistant Glass (TEMPAX Float®)

Borosilicate Glass with both surfaces finished flat and smooth by the Float method. Has high optical transparency and excellent optical quality such as the distortion free property.

Reinforced Glass

Float transparent glass with reinforce treatment applied. Configurable product can now be selected. As the glass is heat-treated, processing such as cutting, chamfering, and hole machining is not possible after purchase.

Heat-Resistant Crystallized Glass (Nextrema®)

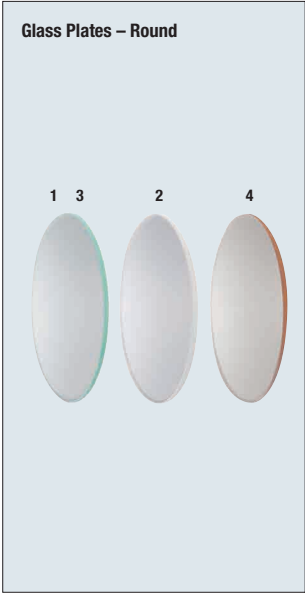
Can be used in high temperature range and has excellent thermal shock resistance. In addition, has high bending stress. Can be specified freely.

Glass Plates

Round

Float Transparent Glass excels in smoothness and has little distortion. Heat Resistant Glass (TEMPAX Float) demonstrates excellent heat and impact resistance. Reinforced Glass has 3 to 5 times the static strength of general glass with the same thickness. Specifications of Heat-Resistant Crystallized Glass, which has excellent heat resistance and strength, is added. Can be specified in 20 Ø–1 mm increment.

Glass Plates – Round

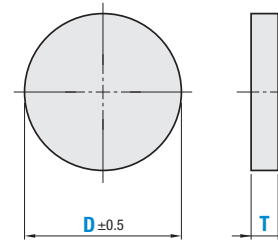


No.	Configurable Type	Fixed Dimension Type	Material	Heat-Resistant Temperature	
				Continuous Use	Max.
1	FGLMF	GLMF	Transparent Float Glass (Soda-Lime Glass)	80 °C	—
2	FGLMH	GLMH	Heat-resistant Glass (TEMPAX Float®)	230 °C	500 °C
3	FGLMK	GLMK	Reinforced Glass	180 °C	200 °C
4	FGLMR	—	Heat-resistant Crystallized Glass (Nextrema®)	700 °C	850 °C

① Heat resistant temperature will be largely varied depending on the operating condition. Values are not guaranteed.
② Cannot be used for Class-1 pressure vessels, Class-2 pressure vessels, or equipment specifically for high pressure gas.

T Tolerance

Part Number	T	Tolerance
GLMF GLMK FGLMR FGLMF FGLMK	3,3.3, 5, 6	±0.3
	8–10	±0.6
	12–15	±0.8
GLMH FGLMH	3.3, 5, 6.5	±0.2
	8–*10–12.2	±0.3
	15	±0.4



Configurable Type

Part Number		D
Type	T	Selection
FGLMF Float Transparent Glass	3	20–300
	5	
	8	
	10	
	12	
	15	
FGLMH Heat-Resistant Glass	3.3	20–300
	5	
	6.5	
	*10	
	12.2	
	15	
FGLMK (Reinforced Glass)	3.3	101–300
	5	
	6	
	8	
FGLMR Heat-Resistant Crystallized Glass	10	20–300
	3	
	5	

① *FGLMH (heat resistant glass) with the part number T10 has an actual size of 10.2.



Part Number Example

Part Number	-	D	-	T
GLMH	-	95	-	5
Part Number	-	D		
FGLMF3	-	100		

Fixed Dimension Type

Part Number		D				
Type	T	Selection				
GLMF Float Transparent Glass	3	50	65	80	95	
	5	130				
GLMH Heat-Resistant Glass	3.3	50	65	80		
	5	95 110				
	10	110 130				
GLMK Reinforced Glass	3	50	65	80		
	5		80	95	110	130
	8	110 130 165 185				

① The D dimensions above conform to JIS Flange Standards: O rings of B2290-1998.