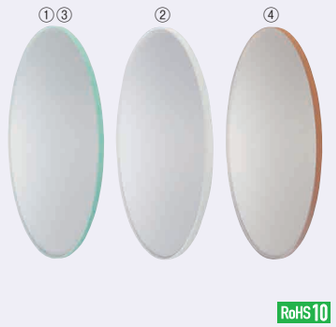
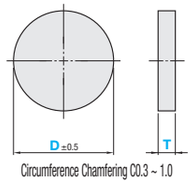
Round Glass Plates

■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.
■Heat-resistant Crystallized Glass which has excellent heat resistant and strength is also available. Can be specified in 20Ø ~ 1mm increment.



No.	Configurable Type	Fixed Dimension Type	Material	Heat-resistant Temperature Continuous Use	Max.
①	FGLMF	GLMF	Float Transparent Glass (Soda-lime glass)	100 deg.	380 deg.
②	FGLMH	GLMH	Heat-resistant Glass (TEMPAX Float®)	250 deg.	450 deg.
③	-	GLMK	Reinforced Glass	210 deg.	250 deg.
④	FGLMR	-	Heat-resistant Crystallized Glass (Nextrema®)	700 deg.	850 deg.

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



■T Tolerance

Type	T Dimension	Tolerance
GLMF GLMK FGLMR FGLMF	3, 5	±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 Type	T	D Selectable
FGLMF (Float Transparent Glass)	3	20~300
	5	
	8	
	10	
	12	
	15	
FGLMH (Heat-resistant Glass)	3.3	
	5	
	6.5	
	8	
	*10	
	12.2	
	15	
FGLMR (Heat-resistant Crystallized Glass)	3	
	5	

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

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

■Fixed Dimension Type

Part Number Type	T	D Selectable
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, 160, 185

The D dimensions above conform to JIS Flange Standards B2290-1998: O-ring Groove.
* Strength not guaranteed for the vacuum resistance.

■Configurable Type

Part Number Type	T	Unit Price D 1mm Increment 20~50	51~100	101~150	151~200	201~250	251~300
FGLMF (Float Transparent Glass)	3						
	5						
	8						
	10						
	12						
	15						
FGLMH (Heat-resistant Glass)	3.3						
	5						
	6.5						
	8						
	*10						
	12.2						
	15						
FGLMR (Heat-resistant Crystallized Glass)	3						
	5						

Properties of Material P.981

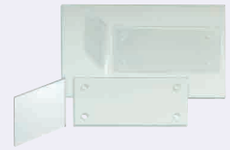
■Fixed Dimension Type

Part Number Type	T	D	Unit Price
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	
		160	
		185	

Mirror Plates

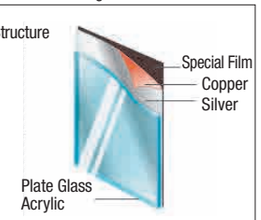
Glass Type / Acrylic Type

■Two types of mirror - Glass and Acrylic - are available for checking workpieces. A through hole or countersink can be specified as the mounting hole.

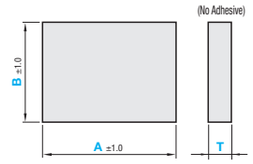


No Adhesive	Adhesive Type	Material	Heat-resistant Temperature Continuous Use
MRG	MRGA	Glass	80 deg.
MRA	MRAA	Acrylic	50 deg.

Heat resistant temperature will be largely varied depending on the operating condition. Values are not guaranteed.

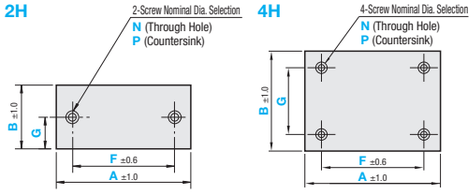


■Standard Type



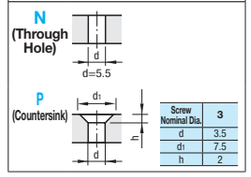
A≥B
Circumference Chamfering C0.3 ~ 1.0

■Pre-drilled Type



Keep a dimension of 5mm or more between hole end and glass end.
The F Dimension tolerance of MRA and MRAA is ±1.0.

Hole Machining Details



Screw Nominal Dia.	3
d	3.5
d1	7.5
h	2

■Standard Type

Part Number Type			T	1mm Increment A	B
No Adhesive MRG MRA	With Adhesive MRGA MRAA	(Glass Mirror) (Acrylic Mirror)	3	10~300	10~300

■Property Comparison between Glass Mirror and Acrylic Mirror

	Weight	Scratch Resistance	Break	Heat Resistance	Chemical Resistance
Glass Mirror	Heavy (Specific Gravity 2.5)	○	Frangible	80 deg.	○
Acrylic Mirror	Light (Specific Gravity 1.2)	×	Hard to break	50 deg.	× (Organic Solvent Resistance)

■Pre-drilled Type

Part Number Type			Number of Holes	T	1mm Increment A	B	F	G	Screw Nominal Dia. Selection N (Through)	P (Countersink)
No Adhesive MRG MRA	With Adhesive MRGA MRAA	(Glass Mirror) (Acrylic Mirror)	2H 4H	3	10~300	10~300	9~241	9~241	5	3

Ordering Example
Part Number - A - B
MRG3 - 250 - 100
Part Number - A - B - F - G - Screw Nominal
MRG4H3 - 200 - 180 - F160 - G140 - N5

■Glass Mirror

Part Number Type	T	A 1mm Increment	Unit Price B 1mm Increment 10~50	51~100	101~150	151~200	201~300
MRG No Adhesive	3	10~50		-	-	-	-
		51~100					
		101~150					
		151~200					
		201~300					
MRGA With Adhesive	3	10~50		-	-	-	-
		51~100					
		101~150					
		151~200					
		201~300					

■Acrylic Mirror

Part Number Type	T	A 1mm Increment	Unit Price B 1mm Increment 10~50	51~100	101~150	151~200	201~300
MRA No Adhesive	3	10~50		-	-	-	-
		51~100					
		101~150					
		151~200					
		201~300					
MRAA With Adhesive	3	10~50		-	-	-	-
		51~100					
		101~150					
		151~200					
		201~300					

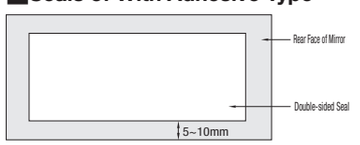
■Hole Machining Charge

Pre-drilled Type	Hole Machining Charge N (Through Hole)	P (Countersink)
2H		
4H		

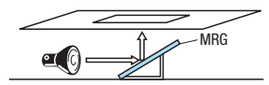
Pre-drilled Type Price = Standard Type Unit Price + Hole Machining Charge
(Ex.) Part Number - A - B - F - G - Screw Nominal >>
MRG4H3 - 200 - 180 - F160 - G140 - N5
(Standard Type Unit Price) + (Hole Machining Charge) = (Pre-drilled Type Price)

Example

■Seals of With Adhesive Type



For easy attachment, the size of double-faced adhesive tape is smaller than that of the mirror. (Approx. 5mm ~ 10mm)
Mirrors are shipped without seal attached. Seal thickness is 2mm.
It may fall due to its own weight depending on its size. Avoid mounting only by the adhesive sheets.
Avoid use in the areas splashed with water, which may cause dirt and tarnishing on mirrors.



As an indirect light angle adjustor of an image processing device