Heat Insulating Plates

High Strength, High Temperature Resistant

Heat Insulating Plates – High Strength

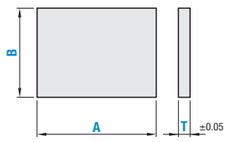
Heat Insulating Plates – High Temperature Resistance

RoHS10

Type	Tolerance Selection	Dim. Tol. of A & B	Grade	Color	Operating Ambient Temperature
HIPYA	Not Specified	+1.0 0	High Strength	Brown	Room Temperature ~180°C
	P	±0.3			
HIPLA	Not Specified	+1.0 0	High Temp. Resistance	White	-80°C~400°C
	P	±0.3			

Properties and Machining Conditions **P.3779**.

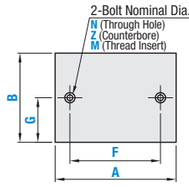
Standard



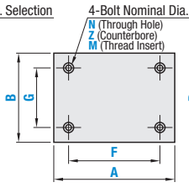
A≥B

Hole, Threaded Insert Machining Type

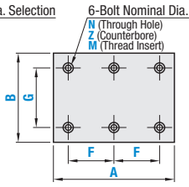
2 Holes – 2H



4 Holes – 4H



6 Holes – 6H



Standard

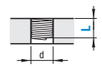
Part Number Type	Tolerance Selection	1 mm Increment A	1 mm Increment B	Selection T
HIPYA HIPLA	Not Specified	20–800	20–600	3 5 10 15
	P	20–200	20–200	5 10

Hole Machining Detail

N Through Hole

Z Counterbore Hole

M Threaded Insert



Bolt Nominal Dia.	3	4	5	6	8	10
d	3.5	4.5	5.5	6.5	9	11
d_1	—	8	9.5	11	14	—
h	—	5	6	7	9	—

Table 1

Bolt Nominal Dia.	3	4	5	6	8	10
d	3.5	4.5	5.5	6.5	9	11
L	3 4.5 6	4 6 8	5 7.5 10	6 9 12	8 12 —	10 15 —

Order Number: (Ex.) M4-L6

L≤T

For details of thread insert HLTS, refer to **P.2461**.

When L+5<T, machined holes will be blind ones.

Hole, Thread Insert Machining Type

Part Number Type	Tolerance Selection	Hole Selection	1 mm Increment A	1 mm Increment B	Selection T	0.5 mm Increment F	0.5 mm Increment G	Hole Machined Bolt Nominal Diameter Through Hole N	Counterbore Hole Z	Thread Insert M	Thread Insert L
HIPYA HIPLA	Not Specified	2H 4H 6H	20–800	20–600	3	9–791 2H and 4H Type	5–595 2H Type	3 4 5 6 8 10	—	—	—
					5				—	3 4	Select from Table above
					10	9–395 6H Type	9–591 4H and 6H Type		4 5 6	3 4 5 6 8 10	
					15				4 5 6 8	3 4 5 6 8 10	
	P		20–200	20–200	5	9–191 2H and 4H Type	5–195 2H Type		—	3 4	
					10	9–95 6H Type	9–191 4H and 6H Type		4 5 6	3 4 5 6 8 10	

F Dimension Range: For 2H and 4H, $d(d_1)+5 \le F \le A-d(d_1)-5$; for 6H, $d(d_1)+5 \le F \le A/2-d(d_1)/2-2.5$.

G Dimension Range: For 2H, $d(d_1)/2+2.5 \le G \le B-d(d_1)/2-2.5$, for 4H, 6H, $d(d_1)+5 \le G \le B-d(d_1)-5$. (d for through hole, threaded insert, d_1 for counterbore)

For Hole Type, select N (through hole), Z (counterbore hole), and Threaded Insert Type, select M (threaded insert) and L (insertion length).

Heat Insulating Plates

High Strength, High Temperature Resistant, *continued*

Part Number Example

Standard

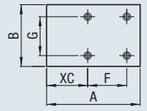
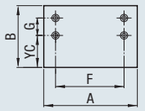
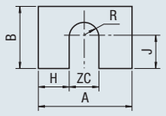
Part Number	-	A	-	B	-	T
HIPYA	-	300	-	222	-	10
HIPYAP	-	200	-	100	-	5

Hole, Threaded Insert Machining Type

Part Number	-	A	-	B	-	T	-	F	-	G	-	Bolt Nominal Dia.	-	L
HIPYA2H	-	200	-	170	-	15	-	F100	-	G70	-	N8		
HIPYA2H	-	300	-	185	-	10	-	F150	-	G80	-	M5	-	L7.5

Part Number Alterations

Part Number	-	A	-	B	-	T	-	F	-	G	-	Bolt Nominal Dia.	-	(XC / YC / ZC)
HIPYA4H	-	100	-	100	-	10	-	F60	-	G70	-	Z4	-	XC10
HIPYA	-	100	-	100	-	5							-	ZC10-H40-J50

Alterations	Hole Position from Left	Hole Position from Bottom	Slot Hole
Code	XC	YC	ZC
Spec.	 XC = 1 mm Increment 5≤XC≤786 (2H/4H Type) $d(d_1)/2+2.5 \le XC \le A-F-d(d_1)/2-2.5$ (6H Type) $d(d_1)/2+2.5 \le XC \le A-2F-d(d_1)/2-2.5$	 YC = 1 mm Increment 5≤YC≤586 $d(d_1)/2+2.5 \le YC \le B-G-d(d_1)/2-2.5$ Not applicable to 2H Types.	 ZC = 5 mm Increment H, J = 1 mm Increment 10≤ZC≤120 10≤H≤A-ZC-5 0≤J≤B-(ZC/2)-5 When Hole Type is specified, it is required that the distance between hole and slot hole to be 5 mm or more.