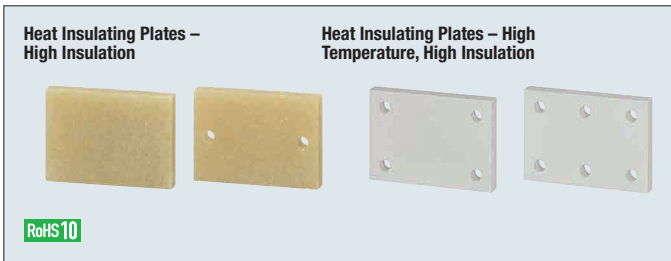


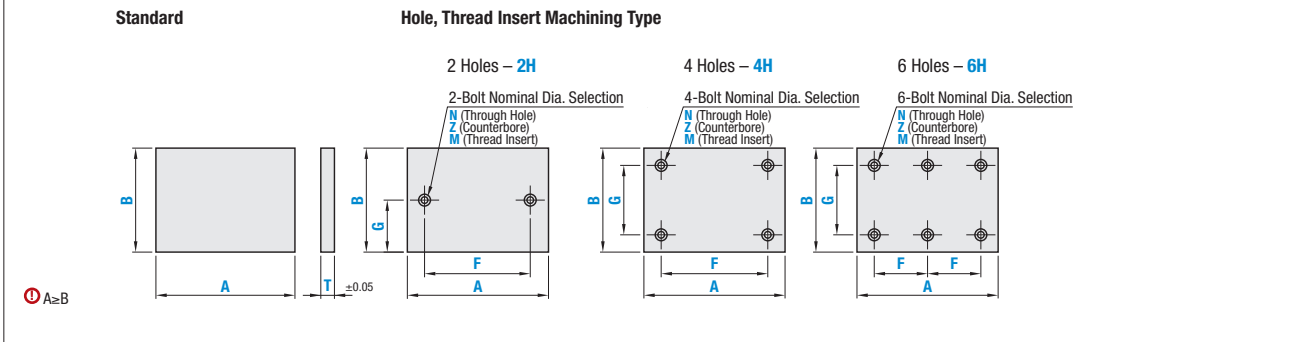
Heat Insulating Plates

High Insulation / High Temperature, Super Insulating Grade



Type	Tolerance Selection	Dim. Tol. of A & B	Grade	Color	Operating Ambient Temperature
HIPIA	Not Specified	+1.0 0	High Insulation	Natural Color	Room Temperature ~180°C
	P	±0.3			
HIPAL	Not Specified	+1.0 0	High Temp. High Insulation	White	Room Temperature ~400°C
	P	±0.3			

Ⓢ Properties and Machining Conditions P.3779.



Standard

Type	Part Number	1 mm Increment		T	
		A	B	HIPIA	HIPAL
HIPIA HIPAL	Not Specified	20-800	20-600	3 5 10 15	3 5 10 15
	P	20-200	20-200	5 10	5 10

Thread Insert Machining Details		
N Through Hole	Z Counterbore Hole	M Thread Insert

Ⓢ When L+5<T, machined holes will be blind ones.
Ⓢ L≤T
Ⓢ For details of thread insert HLTS, refer to P.2461.

Hole, Thread Insert Machining Type

Type	Part Number	Tolerance Selection	Hole Selection	1 mm Increment		0.5 mm Increment		Hole Machined Bolt Nominal Diameter					
				A	B	F	G	Through Hole	Counterbore Hole	Thread Insert			
				HIPIA	HIPAL	N	Z	M	L				
HIPIA HIPAL	Not Specified	2H 4H 6H	20-800 20-600	20-600 20-600	3	3	9-791	5-595	3 4 5 6 8 10	-	-	-	
					5	5	2-Hole and 4-Hole Type	2-Hole Type					3 4
					10	10	4-Hole and 6-Hole Type	4-Hole and 6-Hole Type					3 4 5 6 8 10
					15	15	6-Hole Type	6-Hole Type					3 4 5 6 8 10
HIPIA HIPAL	P	2H 4H 6H	20-200 20-200	20-200 20-200	5	5	9-191	5-195	3 4 5 6 8 10	-	-	-	
					10	10	2-Hole and 4-Hole Type	2-Hole Type					3 4
					5	5	4-Hole and 6-Hole Type	4-Hole and 6-Hole Type					3 4 5 6 8 10
					10	10	6-Hole Type	6-Hole Type					3 4 5 6 8 10

Ⓢ F Dimension Range: For 2H-2HL and 4H, $d(d_i)+5 \leq F \leq A-d(d_i)-5$; for 6H, $d(d_i)+5 \leq F \leq A/2-d(d_i)/2-2.5$.
Ⓢ G Dimension Range: For 2H, $d(d_i)/2+2.5 \leq G \leq B-d(d_i)/2-2.5$, for 2HL, 4H-6H, $d(d_i)+5 \leq G \leq B-d(d_i)-5$. (d for through hole, thread insert, d_i for counterbore)
Ⓢ For Hole Type, select N (through hole), Z (counterbore hole), M (thread insert) and L (insertion length).

Heat Insulating Plates

High Insulation / High Temperature, Super Insulating Grade, *continued*

Part Number Example

Standard
Part Number - A - B - T
HIPIA - 300 - 222 - 10
HIPALP - 200 - 100 - 5

Hole, Thread Insert Machining Type

Part Number - A - B - T - F - G - Bolt Nominal Dia. - L
HIPIAP2H - 200 - 170 - 10 - F100 - G70 - N8
HIPIA4H - 300 - 200 - 10 - F150 - G120 - M5 - L10

Part Number Alterations

Part Number - A - B - T - F - G - Bolt Nominal Dia. - (XC / YC)
HIPIA4H - 100 - 100 - 5 - F40 - G50 - N6 - XC30-YC20

Alterations	Hole Position from Left	Hole Position from Bottom
Code	XC	YC
Spec.	XC = 1 mm Increment Ⓢ 5≤XC≤786 Ⓢ (2H/4H Type) Ⓢ $d(d_i)/2+2.5 \leq XC \leq A-F-d(d_i)/2-2.5$ Ⓢ (6H Type) Ⓢ $d(d_i)/2+2.5 \leq XC \leq A-2F-d(d_i)/2-2.5$ Ⓢ Not applicable to 2HL Type.	YC = 1 mm Increment Ⓢ 5≤YC≤586 Ⓢ $d(d_i)/2+2.5 \leq YC \leq B-G-d(d_i)/2-2.5$ Ⓢ Not applicable to 2H and 2HL Types.