

Ceramic Circular Plates

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Part Number	Material	Finish Precision
PCEA	Alumina 96	Standard Grade
PCEAV	Alumina 96	Precision Grade (Upper-lower Surface Milling)
PCCES	Steatite	Standard Grade
PCCESV	Steatite	Precision Grade (Upper-lower Surface Milling)

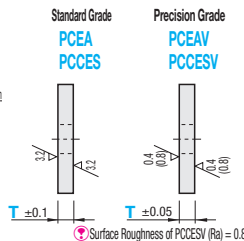
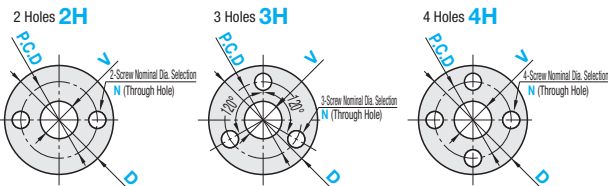
Accuracy Standards

Item	PCEA, PCCES	PCEAV, PCCESV
Thickness Parallelism (D=50)	0.1	0.05
Flatness (D=50)	T=1 T=2~5	0.1 0.05

• D Dimension Tolerance (Standard Grade, Precision Grade)
D20~80
±1%

• V Dimension Tolerance (Standard Grade, Precision Grade)
±0.15

Pre-drilled Type



Washers / Collars (P.153), Rods (P.322) and Bushings for Locating Pins (P.1-1685) are also offered.

Standard Type

Part Number	5mm Increment D	1mm Increment V	Selection T	
Type			PCEA PCEAV	PCCES PCCESV
PCEA	20~80	0~70 (V≤D-10)	1 2 5	3 5
PCEAV	20~50			
PCCES	20~50*			
PCCESV	20~50*			

Hole Machining Details	
N (Through Hole)	
Screw Nominal Dia.	3 4 5 6 8 10
d	3.5 4.5 5.5 6.5 9 11

* Dimension D for PCCES and PCCESV is in 10mm increment. When D≥55, T=1 and 2 are not selectable. (Only T=5 is selectable.)

Pre-drilled Type

Part Number	5mm Increment D	1mm Increment V	Selection T		1mm Increment P.C.D	Screw Nominal Dia. Selection N (Through Hole)
Type	Number of Holes		PCEA PCEAV	PCCES PCCESV		
PCEA	2H 3H 4H	20~80	1 2 5	3 5	10~70 ²	3 4 5 6 8 10
PCEAV		20~50			10~40 ²	
PCCES		20~50 ¹				
PCCESV		20~50 ¹				

*1: Dimension D for PCCES and PCCESV is in 10mm increment. *2: 3mm or more thickness is required between holes and between a hole and the perimeter.

When D≥55, T=1 and 2 are not selectable. (Only T=5 is selectable.)



Ordering Example

Standard Type

Part Number	-	D	-	V	-	T
PCEA	-	35	-	25	-	2

Pre-drilled Type

Part Number	-	D	-	V	-	T	-	P.C.D	-	Screw Nominal Dia.
PCEA2H	-	50	-	10	-	5	-	35	-	N4

The product price is the price shown in the table by the material multiplier.

(Ex.) Part Number - D - V - T
PCEAV - 40 - 15 - 2

(Price in the Table) x (Material Multiplier) = Standard Type Unit Price

Hole Machining Charge

Pre-drilled Type	Screw Nominal Dia. N (Through)
2H	
3H	
4H	



Alterations

Part Number	-	D	-	V	-	T	-	(DC, PN)
PCEA	-	50	-	20	-	5	-	DC49

Standard Type

Material multiplier should be noted.

Part Number	T	D	V	Unit Price			
				0	1~20	21~40	41~60
Type (Material Multiplier)	1	20					
		25					
		30					
		35					
		40					
		45					
	5	50					
		20					
		25					
		30					
		35					
		40					
		45					
		50					
		55					
		60					
		65					
		70					
		75					
		80					
PCEA (x1.0)	3	20					
		30					
		40					
		50					
		20					
		30					
PCEAV (x1.2)	5	20					
		30					
		40					
		50					
		20					
		30					
PCCES (x1.0)	3	20					
		30					
		40					
		50					
		20					
		30					
PCCESV (x1.2)	5	20					
		30					
		40					
		50					
		20					
		30					

	O.D. Dimension	Through Hole Tolerance
Alterations		
Code	DC	PN
Spec.	Changes the D dimension. DC=1mm Increment DC<D 5mm or more distance is required between DC and V. 15≤DC≤79 Ex.) Changes D dimension 50 to 47. [Ordering Code] DC47	Alters Through Hole Tolerance. ±0.2 ±0.05 Ex.) Alters tolerance in N4 to ±0.05 [Ordering Code] N4-PN