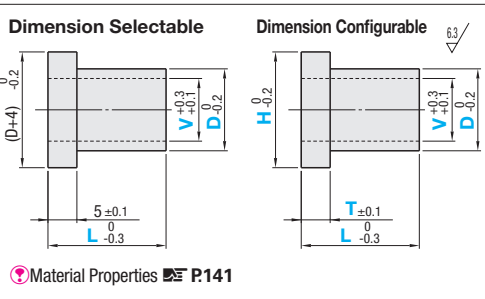


# Resin Collar

## Flanged



| Dimension Selectable | Dimension Configurable | Material         | Color         |
|----------------------|------------------------|------------------|---------------|
| CLJHJ                | FCLJHJ                 | Polyacetal       | White         |
| CLJHK                | FCLJHK                 |                  | Black         |
| CLJHM                | FCLJHM                 | MC Nylon         | Blue          |
| CLJHW                | FCLJHW                 |                  | Ivory         |
| CLJHD                | FCLJHD                 | MC Nylon         | Black         |
| CLJHT                | FCLJHT                 |                  | Black         |
| CLJHB                | FCLJHB                 | Conductive Grade | Black         |
| CLJHN                | FCLJHN                 |                  | Black         |
| CLJHF                | FCLJHF                 | Bakelite         | Natural Color |
| CLJHP                | FCLJHP                 |                  | Natural Color |
| CLJHE                | FCLJHE                 | Fluororesin      | White         |
|                      |                        | PEEK             | Gray          |
|                      |                        | Epoxy Glass      | Green         |



### Dimension Selectable

| Part Number | V                                | D           | L               | Unit Price                                                                                      |
|-------------|----------------------------------|-------------|-----------------|-------------------------------------------------------------------------------------------------|
| Type        | V                                | Selection   | 0.5mm Increment | CLJHJ<br>CLJHK<br>CLJHM<br>CLJHW<br>CLJHD<br>CLJHT<br>CLJHB<br>CLJHN<br>CLJHF<br>CLJHP<br>CLJHE |
| 2           | (4) 5 6 8 10                     | (4)→V2 only | 10.0~25.0       |                                                                                                 |
| 3           | (6) 8 10 11 12 13 14 15 16 20 25 | (6)→V4 only | 25.5~30.0       |                                                                                                 |
| 4           | 8 10 11 12 13 14 15 16 20 25     |             | 10.0~25.0       |                                                                                                 |
| 5           | 10 11 12 13 14 15 16 20 25 30    |             | 25.5~50.0       |                                                                                                 |
| 6           | 12 13 14 15 16 20 25 30          |             | 10.0~25.0       |                                                                                                 |
| 7           | 35 40 50                         |             | 25.5~50.0       |                                                                                                 |
| 8           | 20 25 30                         |             | 10.0~25.0       |                                                                                                 |
| 9           | 35 40 50                         |             | 25.5~50.0       |                                                                                                 |
| 10          | 60                               |             | 10.0~25.0       |                                                                                                 |
| 11          | 40 50                            |             | 25.5~50.0       |                                                                                                 |
| 12          | 60                               |             | 10.0~25.0       |                                                                                                 |
| 13          | 40 50                            |             | 25.5~50.0       |                                                                                                 |
| 14          | 60                               |             | 10.0~25.0       |                                                                                                 |
| 15          | 40 50                            |             | 25.5~50.0       |                                                                                                 |
| 16          | 60                               |             | 10.0~25.0       |                                                                                                 |
| 17          | 40 50                            |             | 25.5~50.0       |                                                                                                 |
| 18          | 60                               |             | 10.0~25.0       |                                                                                                 |
| 19          | 40 50                            |             | 25.5~50.0       |                                                                                                 |
| 20          | 60                               |             | 10.0~25.0       |                                                                                                 |
| 21          | 40 50                            |             | 25.5~50.0       |                                                                                                 |
| 22          | 60                               |             | 10.0~25.0       |                                                                                                 |
| 23          | 40 50                            |             | 25.5~50.0       |                                                                                                 |
| 24          | 60                               |             | 10.0~25.0       |                                                                                                 |
| 25          | 40 50                            |             | 25.5~50.0       |                                                                                                 |
| 26          | 60                               |             | 10.0~25.0       |                                                                                                 |
| 27          | 40 50                            |             | 25.5~50.0       |                                                                                                 |
| 28          | 60                               |             | 10.0~25.0       |                                                                                                 |
| 29          | 40 50                            |             | 25.5~50.0       |                                                                                                 |
| 30          | 60                               |             | 10.0~25.0       |                                                                                                 |
| 31          | 40 50                            |             | 25.5~50.0       |                                                                                                 |
| 32          | 60                               |             | 10.0~25.0       |                                                                                                 |
| 33          | 40 50                            |             | 25.5~50.0       |                                                                                                 |
| 34          | 60                               |             | 10.0~25.0       |                                                                                                 |
| 35          | 40 50                            |             | 25.5~50.0       |                                                                                                 |
| 36          | 60                               |             | 10.0~25.0       |                                                                                                 |
| 37          | 40 50                            |             | 25.5~50.0       |                                                                                                 |
| 38          | 60                               |             | 10.0~25.0       |                                                                                                 |
| 39          | 40 50                            |             | 25.5~50.0       |                                                                                                 |
| 40          | 60                               |             | 10.0~25.0       |                                                                                                 |
| 41          | 40 50                            |             | 25.5~50.0       |                                                                                                 |
| 42          | 60                               |             | 10.0~25.0       |                                                                                                 |
| 43          | 40 50                            |             | 25.5~50.0       |                                                                                                 |
| 44          | 60                               |             | 10.0~25.0       |                                                                                                 |
| 45          | 40 50                            |             | 25.5~50.0       |                                                                                                 |
| 46          | 60                               |             | 10.0~25.0       |                                                                                                 |
| 47          | 40 50                            |             | 25.5~50.0       |                                                                                                 |
| 48          | 60                               |             | 10.0~25.0       |                                                                                                 |
| 49          | 40 50                            |             | 25.5~50.0       |                                                                                                 |
| 50          | 60                               |             | 10.0~25.0       |                                                                                                 |
| 51          | 40 50                            |             | 25.5~50.0       |                                                                                                 |
| 52          | 60                               |             | 10.0~25.0       |                                                                                                 |
| 53          | 40 50                            |             | 25.5~50.0       |                                                                                                 |
| 54          | 60                               |             | 10.0~25.0       |                                                                                                 |
| 55          | 40 50                            |             | 25.5~50.0       |                                                                                                 |
| 56          | 60                               |             | 10.0~25.0       |                                                                                                 |
| 57          | 40 50                            |             | 25.5~50.0       |                                                                                                 |
| 58          | 60                               |             | 10.0~25.0       |                                                                                                 |
| 59          | 40 50                            |             | 25.5~50.0       |                                                                                                 |
| 60          | 60                               |             | 10.0~25.0       |                                                                                                 |
| 61          | 40 50                            |             | 25.5~50.0       |                                                                                                 |
| 62          | 60                               |             | 10.0~25.0       |                                                                                                 |
| 63          | 40 50                            |             | 25.5~50.0       |                                                                                                 |
| 64          | 60                               |             | 10.0~25.0       |                                                                                                 |
| 65          | 40 50                            |             | 25.5~50.0       |                                                                                                 |
| 66          | 60                               |             | 10.0~25.0       |                                                                                                 |
| 67          | 40 50                            |             | 25.5~50.0       |                                                                                                 |
| 68          | 60                               |             | 10.0~25.0       |                                                                                                 |
| 69          | 40 50                            |             | 25.5~50.0       |                                                                                                 |
| 70          | 60                               |             | 10.0~25.0       |                                                                                                 |
| 71          | 40 50                            |             | 25.5~50.0       |                                                                                                 |
| 72          | 60                               |             | 10.0~25.0       |                                                                                                 |
| 73          | 40 50                            |             | 25.5~50.0       |                                                                                                 |
| 74          | 60                               |             | 10.0~25.0       |                                                                                                 |
| 75          | 40 50                            |             | 25.5~50.0       |                                                                                                 |
| 76          | 60                               |             | 10.0~25.0       |                                                                                                 |
| 77          | 40 50                            |             | 25.5~50.0       |                                                                                                 |
| 78          | 60                               |             | 10.0~25.0       |                                                                                                 |
| 79          | 40 50                            |             | 25.5~50.0       |                                                                                                 |
| 80          | 60                               |             | 10.0~25.0       |                                                                                                 |
| 81          | 40 50                            |             | 25.5~50.0       |                                                                                                 |
| 82          | 60                               |             | 10.0~25.0       |                                                                                                 |
| 83          | 40 50                            |             | 25.5~50.0       |                                                                                                 |
| 84          | 60                               |             | 10.0~25.0       |                                                                                                 |
| 85          | 40 50                            |             | 25.5~50.0       |                                                                                                 |
| 86          | 60                               |             | 10.0~25.0       |                                                                                                 |
| 87          | 40 50                            |             | 25.5~50.0       |                                                                                                 |
| 88          | 60                               |             | 10.0~25.0       |                                                                                                 |
| 89          | 40 50                            |             | 25.5~50.0       |                                                                                                 |
| 90          | 60                               |             | 10.0~25.0       |                                                                                                 |
| 91          | 40 50                            |             | 25.5~50.0       |                                                                                                 |
| 92          | 60                               |             | 10.0~25.0       |                                                                                                 |
| 93          | 40 50                            |             | 25.5~50.0       |                                                                                                 |
| 94          | 60                               |             | 10.0~25.0       |                                                                                                 |
| 95          | 40 50                            |             | 25.5~50.0       |                                                                                                 |
| 96          | 60                               |             | 10.0~25.0       |                                                                                                 |
| 97          | 40 50                            |             | 25.5~50.0       |                                                                                                 |
| 98          | 60                               |             | 10.0~25.0       |                                                                                                 |
| 99          | 40 50                            |             | 25.5~50.0       |                                                                                                 |
| 100         | 60                               |             | 10.0~25.0       |                                                                                                 |

⚠H≤50 for CLJHT, CLJHF, CLJHP and CLJHE.

Ordering Example Part Number - D - L  
CLJHM10 - 16 - 20.0

⚠No specification available for those without value.

### Dimension Configurable

| Part Number | V                                                        | D                                             | H                                             | T                 | L                  | Unit Price       |                  |        |        |        |        |        |        |        |
|-------------|----------------------------------------------------------|-----------------------------------------------|-----------------------------------------------|-------------------|--------------------|------------------|------------------|--------|--------|--------|--------|--------|--------|--------|
|             | W2.6 or Less Selection<br>V2.6 or More, 0.5mm Increments | 0.5mm Increment<br>D21 or More, 1mm Increment | 0.5mm Increment<br>H63 or More, 1mm Increment | 1mm<br>Increment  | 0.5mm<br>Increment | FCLJHJ<br>FCLJHK | FCLJHM<br>FCLJHW | FCLJHD | FCLJHT | FCLJHB | FCLJHN | FCLJHF | FCLJHP | FCLJHE |
| FCLJHJ      | 0<br>(No Hole Machining)                                 | 4.0~10<br>(0.5mm<br>Increment)                | 6.0~20<br>(0.5mm<br>Increment)                | 2~20<br><br>L-T≥1 | 10.0~ 25.0         |                  |                  |        |        |        |        |        |        |        |
|             |                                                          |                                               |                                               |                   | 25.5~ 50.0         |                  |                  |        |        |        |        |        |        |        |
|             |                                                          |                                               |                                               |                   | 50.5~ 75.0         |                  |                  |        |        |        |        |        |        |        |
|             |                                                          |                                               |                                               |                   | 75.5~100.0         |                  |                  |        |        |        |        |        |        |        |
| FCLJHK      | 2.0                                                      | 10.5~20<br>(0.5mm<br>Increment)               | 12.5~30<br>(0.5mm<br>Increment)               |                   | 10.0~ 25.0         |                  |                  |        |        |        |        |        |        |        |
|             |                                                          |                                               |                                               |                   | 25.5~ 50.0         |                  |                  |        |        |        |        |        |        |        |
|             |                                                          |                                               |                                               |                   | 50.5~ 75.0         |                  |                  |        |        |        |        |        |        |        |
|             |                                                          |                                               |                                               |                   | 75.5~100.0         |                  |                  |        |        |        |        |        |        |        |
| FCLJHM      | 2.6                                                      | 21~30<br>(1mm<br>Increment)                   | 23~40<br>(0.5mm<br>Increment)                 |                   | 10.0~ 25.0         |                  |                  |        |        |        |        |        |        |        |
|             |                                                          |                                               |                                               |                   | 25.5~ 50.0         |                  |                  |        |        |        |        |        |        |        |
|             |                                                          |                                               |                                               |                   | 50.5~ 75.0         |                  |                  |        |        |        |        |        |        |        |
|             |                                                          |                                               |                                               |                   | 75.5~100.0         |                  |                  |        |        |        |        |        |        |        |
| FCLJHW      |                                                          | 21~30<br>(1mm<br>Increment)                   | 23~40<br>(0.5mm<br>Increment)                 |                   | 10.0~ 25.0         |                  |                  |        |        |        |        |        |        |        |
|             |                                                          |                                               |                                               |                   | 25.5~ 50.0         |                  |                  |        |        |        |        |        |        |        |
|             |                                                          |                                               |                                               |                   | 50.5~ 75.0         |                  |                  |        |        |        |        |        |        |        |
|             |                                                          |                                               |                                               |                   | 75.5~100.0         |                  |                  |        |        |        |        |        |        |        |
| FCLJHD      | 3.0~58.0<br>(0.5mm Increment)                            | 31~40<br>(1mm<br>Increment)                   | 33~50<br>(0.5mm<br>Increment)                 | 10.0~ 25.0        |                    |                  |                  |        |        |        |        |        |        |        |
|             |                                                          |                                               |                                               | 25.5~ 50.0        |                    |                  |                  |        |        |        |        |        |        |        |
|             |                                                          |                                               |                                               | 50.5~ 75.0        |                    |                  |                  |        |        |        |        |        |        |        |
|             |                                                          |                                               |                                               | 75.5~100.0        |                    |                  |                  |        |        |        |        |        |        |        |
| FCLJHT      | 10.0 ≤L≤ 50.0<br>⇨ V≤D-2                                 | 31~40<br>(1mm<br>Increment)                   | 33~50<br>(0.5mm<br>Increment)                 | 10.0~ 25.0        |                    |                  |                  |        |        |        |        |        |        |        |
|             |                                                          |                                               |                                               | 25.5~ 50.0        |                    |                  |                  |        |        |        |        |        |        |        |
|             |                                                          |                                               |                                               | 50.5~ 75.0        |                    |                  |                  |        |        |        |        |        |        |        |
|             |                                                          |                                               |                                               | 75.5~100.0        |                    |                  |                  |        |        |        |        |        |        |        |
| FCLJHB      | 50.5 ≤L≤ 100<br>⇨ V≤D-6                                  | 41~50<br>(1mm<br>Increment)                   | 43~60<br>(0.5mm<br>Increment)                 | 10.0~ 25.0        |                    |                  |                  |        |        |        |        |        |        |        |
|             |                                                          |                                               |                                               | 25.5~ 50.0        |                    |                  |                  |        |        |        |        |        |        |        |
|             |                                                          |                                               |                                               | 50.5~ 75.0        |                    |                  |                  |        |        |        |        |        |        |        |
|             |                                                          |                                               |                                               | 75.5~100.0        |                    |                  |                  |        |        |        |        |        |        |        |
| FCLJHN      |                                                          | 51~60<br>(1mm<br>Increment)                   | 53~70<br>(0.5mm<br>Increment)                 | 10.0~ 25.0        |                    |                  |                  |        |        |        |        |        |        |        |
|             |                                                          |                                               |                                               | 25.5~ 50.0        |                    |                  |                  |        |        |        |        |        |        |        |
|             |                                                          |                                               |                                               | 50.5~ 75.0        |                    |                  |                  |        |        |        |        |        |        |        |
|             |                                                          |                                               |                                               | 75.5~100.0        |                    |                  |                  |        |        |        |        |        |        |        |
| FCLJHF      | 58.5~90.0<br>V≤D-6                                       | 51~60<br>(1mm<br>Increment)                   | 53~70<br>(0.5mm<br>Increment)                 | 10.0~ 25.0        |                    |                  |                  |        |        |        |        |        |        |        |
|             |                                                          |                                               |                                               | 25.5~ 50.0        |                    |                  |                  |        |        |        |        |        |        |        |
|             |                                                          |                                               |                                               | 50.5~ 75.0        |                    |                  |                  |        |        |        |        |        |        |        |
|             |                                                          |                                               |                                               | 75.5~100.0        |                    |                  |                  |        |        |        |        |        |        |        |
| FCLJHP      |                                                          | 61~80<br>(1mm<br>Increment)                   | 63~90<br>(0.5mm<br>Increment)                 | 10.0~ 25.0        |                    |                  |                  |        |        |        |        |        |        |        |
|             |                                                          |                                               |                                               | 25.5~ 50.0        |                    |                  |                  |        |        |        |        |        |        |        |
|             |                                                          |                                               |                                               | 50.5~ 75.0        |                    |                  |                  |        |        |        |        |        |        |        |
|             |                                                          |                                               |                                               | 75.5~100.0        |                    |                  |                  |        |        |        |        |        |        |        |
| FCLJHE      |                                                          | 81~100<br>(1mm<br>Increment)                  | 83~110<br>(0.5mm<br>Increment)                | 10.0~ 25.0        |                    |                  |                  |        |        |        |        |        |        |        |
|             |                                                          |                                               |                                               | 25.5~ 50.0        |                    |                  |                  |        |        |        |        |        |        |        |
|             |                                                          |                                               |                                               | 50.5~ 75.0        |                    |                  |                  |        |        |        |        |        |        |        |
|             |                                                          |                                               |                                               | 75.5~100.0        |                    |                  |                  |        |        |        |        |        |        |        |

Machining Conditions ⚠H-D≥2 ⚠D4~5→Lmax=50 ⚠L≤Vx8 ⚠H≤50 for FCLJHT, FCLJHF, FCLJHP and FCLJHE.

⚠No specification available for those without value.

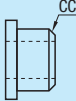
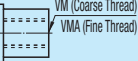
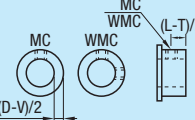
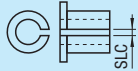


Ordering Example Part Number - V - D - H - T - L  
FCLJHM - V15 - D21 - H26 - T6 - L50.5



Alterations • Dimension Selectable  
Part Number - D - L - (CC, SLC→etc.)  
CLJHM15 - 35 - 75.5 - SLC  
• Dimension Configurable  
Part Number - V (VM, VMA) - D - H - T - L - (CC, SLC→etc.)  
FCLJHT - VMA18 - D25 - H28 - T5 - L15 - MC3

⊗Material: Not applicable to Bakelite, Epoxy Glass and Fluororesin. ⚠Alteration is available from D10.

| Alterations | C Chamfering<br>(One Side - Both Sides)                                                    | Tapping                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Set Screw Hole<br>(1-set 2-set)                                                                                              | Slitting                                                                                     |                  |       |   |     |     |    |   |     |    |   |     |      |    |   |      |    |    |     |     |    |    |      |    |    |     |     |    |    |   |     |    |     |  |                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |         |      |           |         |           |        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |     |         |           |   |           |         |   |            |     |   |            |
|-------------|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|------------------|-------|---|-----|-----|----|---|-----|----|---|-----|------|----|---|------|----|----|-----|-----|----|----|------|----|----|-----|-----|----|----|---|-----|----|-----|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|------|-----------|---------|-----------|--------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----|---------|-----------|---|-----------|---------|---|------------|-----|---|------------|
|             |       | <br>VM (Coarse Thread)<br>VMA (Fine Thread)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <br>MC<br>WMC<br>WMC (L-T/2)<br>(D-V)/2 | <br>SLC |                  |       |   |     |     |    |   |     |    |   |     |      |    |   |      |    |    |     |     |    |    |      |    |    |     |     |    |    |   |     |    |     |  |                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |         |      |           |         |           |        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |     |         |           |   |           |         |   |            |     |   |            |
| Code        | CC                                                                                         | VM (Coarse Thread) VMA (Fine Thread)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | MC, WMC                                                                                                                      | SLC                                                                                          |                  |       |   |     |     |    |   |     |    |   |     |      |    |   |      |    |    |     |     |    |    |      |    |    |     |     |    |    |   |     |    |     |  |                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |         |      |           |         |           |        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |     |         |           |   |           |         |   |            |     |   |            |
| Spec.       | Chamfers C plane.<br>[Ordering Code] CC1.5<br><br>⚠ CC=0.5mm Increment<br>⚠ 0.5≤CC<(D-V)/2 | Adds a tapped hole (through).<br>[Ordering Code] VM4: V should be specified as VM or VMA.<br>Ex.) FCLJHJ - VM4 - D10 - H15 - T6 - L10<br>⚠ For the machining limits of tap dia. and overall length (L), see the table below.<br>Tap dia. ≤D/2<br><table><thead><tr><th>Tapped Hole Dia. VM, VMA</th><th>VM Pitch (Coarse)</th><th>VMA Pitch (Fine)</th><th>L max</th></tr></thead><tbody><tr><td>4</td><td>0.7</td><td rowspan="2">0.5</td><td>20</td></tr><tr><td>5</td><td>0.8</td><td>30</td></tr><tr><td>6</td><td>1.0</td><td rowspan="2">0.75</td><td>35</td></tr><tr><td>8</td><td>1.25</td><td>45</td></tr><tr><td>10</td><td>1.5</td><td rowspan="2">1.0</td><td>60</td></tr><tr><td>12</td><td>1.75</td><td>70</td></tr><tr><td>16</td><td>2.0</td><td rowspan="3">1.5</td><td>90</td></tr><tr><td>18</td><td>-</td><td>100</td></tr><tr><td>20</td><td>2.5</td><td></td></tr></tbody></table> | Tapped Hole Dia. VM, VMA                                                                                                     | VM Pitch (Coarse)                                                                            | VMA Pitch (Fine) | L max | 4 | 0.7 | 0.5 | 20 | 5 | 0.8 | 30 | 6 | 1.0 | 0.75 | 35 | 8 | 1.25 | 45 | 10 | 1.5 | 1.0 | 60 | 12 | 1.75 | 70 | 16 | 2.0 | 1.5 | 90 | 18 | - | 100 | 20 | 2.5 |  | Adds a tapped hole (coarse thread) at D part.<br>[Ordering Code] MC3 WMC5<br><br>⚠ For the condition of thickness (D-V) / 2, see the table below.<br>⚠ L≥MC, WMCx3<br><br>⚠ MC, WMC=Select from table below.<br><table><thead><tr><th>MC, WMC</th><th>(D-V)/2</th></tr></thead><tbody><tr><td>3, 4</td><td>3 or More</td></tr><tr><td>5, 6, 8</td><td>5 or More</td></tr><tr><td>10, 12</td><td>8 or More</td></tr></tbody></table> | MC, WMC | (D-V)/2 | 3, 4 | 3 or More | 5, 6, 8 | 5 or More | 10, 12 | 8 or More | Adds a slit.<br>[Ordering Code] SLC<br><br>⚠ For the condition of thickness (D-V) / 2, see the table below.<br><br>⚠ Slit width is fixed.<br><table><thead><tr><th>O.D. D</th><th>SLC</th><th>(D-V)/2</th></tr></thead><tbody><tr><td>10.0~20.0</td><td>1</td><td>5 or Less</td></tr><tr><td>20.5~40</td><td>2</td><td>10 or Less</td></tr><tr><td>41~</td><td>5</td><td>20 or Less</td></tr></tbody></table><br>⚠ I.D./O.D. tolerances are the values before alteration. They may change after alteration depending on materials. | O.D. D | SLC | (D-V)/2 | 10.0~20.0 | 1 | 5 or Less | 20.5~40 | 2 | 10 or Less | 41~ | 5 | 20 or Less |
|             | Tapped Hole Dia. VM, VMA                                                                   | VM Pitch (Coarse)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | VMA Pitch (Fine)                                                                                                             | L max                                                                                        |                  |       |   |     |     |    |   |     |    |   |     |      |    |   |      |    |    |     |     |    |    |      |    |    |     |     |    |    |   |     |    |     |  |                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |         |      |           |         |           |        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |     |         |           |   |           |         |   |            |     |   |            |
| 4           | 0.7                                                                                        | 0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 20                                                                                                                           |                                                                                              |                  |       |   |     |     |    |   |     |    |   |     |      |    |   |      |    |    |     |     |    |    |      |    |    |     |     |    |    |   |     |    |     |  |                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |         |      |           |         |           |        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |     |         |           |   |           |         |   |            |     |   |            |
| 5           | 0.8                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 30                                                                                                                           |                                                                                              |                  |       |   |     |     |    |   |     |    |   |     |      |    |   |      |    |    |     |     |    |    |      |    |    |     |     |    |    |   |     |    |     |  |                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |         |      |           |         |           |        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |     |         |           |   |           |         |   |            |     |   |            |
| 6           | 1.0                                                                                        | 0.75                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 35                                                                                                                           |                                                                                              |                  |       |   |     |     |    |   |     |    |   |     |      |    |   |      |    |    |     |     |    |    |      |    |    |     |     |    |    |   |     |    |     |  |                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |         |      |           |         |           |        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |     |         |           |   |           |         |   |            |     |   |            |
| 8           | 1.25                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 45                                                                                                                           |                                                                                              |                  |       |   |     |     |    |   |     |    |   |     |      |    |   |      |    |    |     |     |    |    |      |    |    |     |     |    |    |   |     |    |     |  |                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |         |      |           |         |           |        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |     |         |           |   |           |         |   |            |     |   |            |
| 10          | 1.5                                                                                        | 1.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 60                                                                                                                           |                                                                                              |                  |       |   |     |     |    |   |     |    |   |     |      |    |   |      |    |    |     |     |    |    |      |    |    |     |     |    |    |   |     |    |     |  |                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |         |      |           |         |           |        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |     |         |           |   |           |         |   |            |     |   |            |
| 12          | 1.75                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 70                                                                                                                           |                                                                                              |                  |       |   |     |     |    |   |     |    |   |     |      |    |   |      |    |    |     |     |    |    |      |    |    |     |     |    |    |   |     |    |     |  |                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |         |      |           |         |           |        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |     |         |           |   |           |         |   |            |     |   |            |
| 16          | 2.0                                                                                        | 1.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 90                                                                                                                           |                                                                                              |                  |       |   |     |     |    |   |     |    |   |     |      |    |   |      |    |    |     |     |    |    |      |    |    |     |     |    |    |   |     |    |     |  |                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |         |      |           |         |           |        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |     |         |           |   |           |         |   |            |     |   |            |
| 18          | -                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 100                                                                                                                          |                                                                                              |                  |       |   |     |     |    |   |     |    |   |     |      |    |   |      |    |    |     |     |    |    |      |    |    |     |     |    |    |   |     |    |     |  |                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |         |      |           |         |           |        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |     |         |           |   |           |         |   |            |     |   |            |
| 20          | 2.5                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                              |                                                                                              |                  |       |   |     |     |    |   |     |    |   |     |      |    |   |      |    |    |     |     |    |    |      |    |    |     |     |    |    |   |     |    |     |  |                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |         |      |           |         |           |        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |     |         |           |   |           |         |   |            |     |   |            |
| MC, WMC     | (D-V)/2                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                              |                                                                                              |                  |       |   |     |     |    |   |     |    |   |     |      |    |   |      |    |    |     |     |    |    |      |    |    |     |     |    |    |   |     |    |     |  |                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |         |      |           |         |           |        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |     |         |           |   |           |         |   |            |     |   |            |
| 3, 4        | 3 or More                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                              |                                                                                              |                  |       |   |     |     |    |   |     |    |   |     |      |    |   |      |    |    |     |     |    |    |      |    |    |     |     |    |    |   |     |    |     |  |                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |         |      |           |         |           |        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |     |         |           |   |           |         |   |            |     |   |            |
| 5, 6, 8     | 5 or More                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                              |                                                                                              |                  |       |   |     |     |    |   |     |    |   |     |      |    |   |      |    |    |     |     |    |    |      |    |    |     |     |    |    |   |     |    |     |  |                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |         |      |           |         |           |        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |     |         |           |   |           |         |   |            |     |   |            |
| 10, 12      | 8 or More                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                              |                                                                                              |                  |       |   |     |     |    |   |     |    |   |     |      |    |   |      |    |    |     |     |    |    |      |    |    |     |     |    |    |   |     |    |     |  |                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |         |      |           |         |           |        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |     |         |           |   |           |         |   |            |     |   |            |
| O.D. D      | SLC                                                                                        | (D-V)/2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                              |                                                                                              |                  |       |   |     |     |    |   |     |    |   |     |      |    |   |      |    |    |     |     |    |    |      |    |    |     |     |    |    |   |     |    |     |  |                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |         |      |           |         |           |        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |     |         |           |   |           |         |   |            |     |   |            |
| 10.0~20.0   | 1                                                                                          | 5 or Less                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                              |                                                                                              |                  |       |   |     |     |    |   |     |    |   |     |      |    |   |      |    |    |     |     |    |    |      |    |    |     |     |    |    |   |     |    |     |  |                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |         |      |           |         |           |        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |     |         |           |   |           |         |   |            |     |   |            |
| 20.5~40     | 2                                                                                          | 10 or Less                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                              |                                                                                              |                  |       |   |     |     |    |   |     |    |   |     |      |    |   |      |    |    |     |     |    |    |      |    |    |     |     |    |    |   |     |    |     |  |                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |         |      |           |         |           |        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |     |         |           |   |           |         |   |            |     |   |            |
| 41~         | 5                                                                                          | 20 or Less                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                              |                                                                                              |                  |       |   |     |     |    |   |     |    |   |     |      |    |   |      |    |    |     |     |    |    |      |    |    |     |     |    |    |   |     |    |     |  |                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |         |      |           |         |           |        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |     |         |           |   |           |         |   |            |     |   |            |