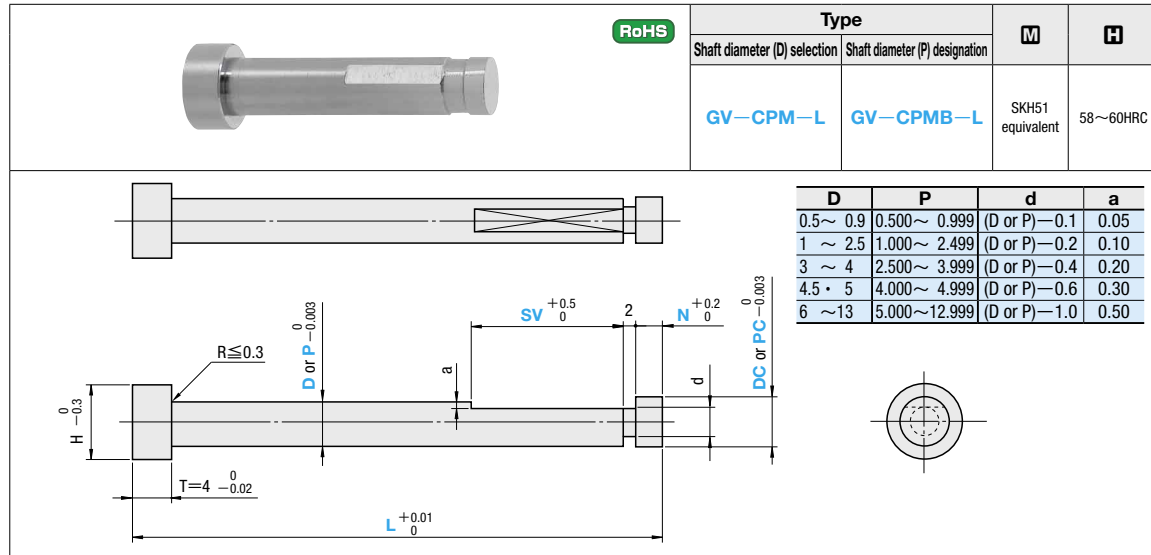


# EXTRA PRECISION GAS RELEASE STRAIGHT CORE PINS

—SHAFT DIAMETER (D) SELECTION / (P) 0.001mm DESIGNATION TYPE—



Ⓜ Non JIS material definition is listed on P.1351 - 1352



## ■ Shaft diameter (D) selection type

| H   | Part Number |                       | L<br>0.01mm increments | DC<br>0.001mm increments | N<br>0.1mm increments | SV<br>0.5mm increments |                       |            |            |
|-----|-------------|-----------------------|------------------------|--------------------------|-----------------------|------------------------|-----------------------|------------|------------|
|     | Type        | D                     |                        |                          |                       |                        |                       |            |            |
| 2   | GV-CPM-L    | 0.5                   | 15.00 ~ 60.00          | 0.001mm increments       | 0.1mm increments      | 0.5mm increments       |                       |            |            |
|     |             | 0.6                   |                        |                          |                       |                        |                       |            |            |
| 0.8 |             |                       |                        |                          |                       |                        |                       |            |            |
| 3   |             | 1                     |                        |                          |                       |                        | 15.00 ~ 100.00        | 0.3 ~ 10.0 | 2.0 ~ 50.0 |
|     |             | 1.2                   |                        |                          |                       |                        |                       |            |            |
|     |             | 1.5                   |                        |                          |                       |                        |                       |            |            |
| 2   |             | L - (2 + SV + N) ≥ 10 |                        |                          |                       |                        |                       |            |            |
| 2.5 |             |                       |                        |                          |                       |                        |                       |            |            |
| 3   |             |                       |                        |                          |                       |                        |                       |            |            |
| 4   |             | 3.5                   |                        |                          |                       |                        | 0.5 ~ 15.0            | 2.0 ~ 60.0 |            |
| 4   |             |                       |                        |                          |                       |                        |                       |            |            |
| 4.5 |             |                       |                        |                          |                       |                        |                       |            |            |
| 5   |             | 5                     |                        |                          |                       |                        | L - (2 + SV + N) ≥ 10 |            |            |
| 6   |             | 6                     |                        |                          |                       |                        |                       |            |            |
| 7   |             | 7                     |                        |                          |                       |                        |                       |            |            |
| 8   |             | 8                     |                        |                          |                       |                        |                       |            |            |
| 9   |             | 10                    |                        |                          |                       |                        |                       |            |            |
| 10  |             | 13                    |                        |                          |                       |                        |                       |            |            |

Ⓜ When DC=D, designation of DCX.

## ■ Shaft diameter (P) designation type

| H   | Part Number     |                       | L<br>0.01mm increments | P<br>0.001mm increments | PC<br>0.001mm increments | N<br>0.1mm increments | SV<br>0.5mm increments |                       |            |            |
|-----|-----------------|-----------------------|------------------------|-------------------------|--------------------------|-----------------------|------------------------|-----------------------|------------|------------|
|     | Type            | No.                   |                        |                         |                          |                       |                        |                       |            |            |
| 3   | GV-CPMB-L       | 0.6                   | 15.00 ~ 60.00          | 0.500 ~ 0.599           | 0.001mm increments       | 0.1mm increments      | 0.5mm increments       |                       |            |            |
|     |                 | 1                     |                        |                         |                          |                       |                        |                       |            |            |
| 1.5 |                 |                       |                        |                         |                          |                       |                        |                       |            |            |
| 4   |                 | 2                     |                        |                         |                          |                       |                        | 15.00 ~ 100.00        | 0.3 ~ 10.0 | 2.0 ~ 50.0 |
|     |                 | 2.5                   |                        |                         |                          |                       |                        |                       |            |            |
|     |                 | 3                     |                        |                         |                          |                       |                        |                       |            |            |
| 3.5 |                 | L - (2 + SV + N) ≥ 10 |                        |                         |                          |                       |                        |                       |            |            |
| 4   |                 |                       |                        |                         |                          |                       |                        |                       |            |            |
| 4.5 |                 |                       |                        |                         |                          |                       |                        |                       |            |            |
| 5   |                 | 3.000 ~ 3.499         |                        |                         |                          |                       |                        | 0.5 ~ 15.0            | 2.0 ~ 60.0 |            |
| 6   |                 |                       |                        |                         |                          |                       |                        |                       |            |            |
| 7   |                 |                       |                        |                         |                          |                       |                        |                       |            |            |
| 6   |                 | 3.500 ~ 3.999         |                        |                         |                          |                       |                        | L - (2 + SV + N) ≥ 10 |            |            |
| 7   |                 |                       |                        |                         |                          |                       |                        |                       |            |            |
| 8   |                 |                       |                        |                         |                          |                       |                        |                       |            |            |
| 7   |                 | 4.000 ~ 4.499         |                        |                         |                          |                       |                        |                       | 0.5 ~ 15.0 | 2.0 ~ 60.0 |
| 8   |                 |                       |                        |                         |                          |                       |                        |                       |            |            |
| 9   |                 |                       |                        |                         |                          |                       |                        |                       |            |            |
| 8   | 4.500 ~ 4.999   | L - (2 + SV + N) ≥ 10 |                        |                         |                          |                       |                        |                       |            |            |
| 9   |                 |                       |                        |                         |                          |                       |                        |                       |            |            |
| 10  |                 |                       |                        |                         |                          |                       |                        |                       |            |            |
| 9   | 5.000 ~ 5.999   | 0.5 ~ 15.0            | 2.0 ~ 60.0             |                         |                          |                       |                        |                       |            |            |
| 10  |                 |                       |                        |                         |                          |                       |                        |                       |            |            |
| 11  |                 |                       |                        |                         |                          |                       |                        |                       |            |            |
| 10  | 6.000 ~ 6.999   |                       |                        | L - (2 + SV + N) ≥ 10   |                          |                       |                        |                       |            |            |
| 11  |                 |                       |                        |                         |                          |                       |                        |                       |            |            |
| 15  |                 |                       |                        |                         |                          |                       |                        |                       |            |            |
| 11  | 7.000 ~ 7.999   | 0.5 ~ 15.0            | 2.0 ~ 60.0             |                         |                          |                       |                        |                       |            |            |
| 15  |                 |                       |                        |                         |                          |                       |                        |                       |            |            |
| 18  |                 |                       |                        |                         |                          |                       |                        |                       |            |            |
| 15  | 8.000 ~ 9.999   |                       |                        | L - (2 + SV + N) ≥ 10   |                          |                       |                        |                       |            |            |
| 18  |                 |                       |                        |                         |                          |                       |                        |                       |            |            |
| 18  |                 |                       |                        |                         |                          |                       |                        |                       |            |            |
| 18  | 10.000 ~ 12.999 | L - (2 + SV + N) ≥ 10 |                        |                         |                          |                       |                        |                       |            |            |

Ⓜ When PC=P, designation of PCX.

Order

| Part Number | L     | P      | DC(DCX) / PC(PCX) | N  | SV  |
|-------------|-------|--------|-------------------|----|-----|
| GV-CPM-L3   | 18.36 |        | DC2.950           | N2 | SV4 |
| GV-CPMB-L1  | 20.05 | P0.995 | PCX               | N2 | SV4 |

Days to Ship **Quotation**

Price **Quotation**

Alterations

| Part Number | L     | P      | DC(DCX) / PC(PCX) | N  | SV(SVC) | (KC · WKC...etc.) |
|-------------|-------|--------|-------------------|----|---------|-------------------|
| GV-CPM-L1   | 20.05 |        | DCX               | N2 | SV4     | TRN               |
| GV-CPMB-L3  | 18.36 | P2.960 | PC2.950           | N2 | SVC     | WKC1.48           |

Alteration details P.395

| Alterations | Code       | Spec.   | 1Code     |
|-------------|------------|---|-----------|
|             | KC         | Single flat cutting<br>(D or P)/2 ≤ KC < H/2<br>(D or P) ≥ 0.6  | Quotation |
|             | WKC        | Two flats cutting<br>(D or P)/2 ≤ WKC < H/2<br>(D or P) ≥ 0.6   | Quotation |
|             | KAC<br>KBC | Varied width parallel flats cutting<br>(D or P)/2 ≤ KAC < H/2<br>KBC = 0.1mm increments only<br>(D or P) ≥ 0.6<br>KAC < KBC < H/2 | Quotation |

Ⓜ About Designation Unit for Key Flat Cutting  
Ⓜ Unit of designation: Shaft diameter (D) selection, 0.05mm increments possible; Shaft diameter (P) designation, 0.0005mm increments possible; Unit of designation: 0.1mm

| Alterations | Code | Spec.  | 1Code     |
|-------------|------|--|-----------|
|             | HC   | Head diameter change<br>HC = 0.1mm increments (D or P) ≤ HC < H<br>Ⓜ In relation to the diameter tolerance, alteration may create a straight piece with little diameter difference between the head and shaft. |           |
|             | HCC  | Head diameter change (precision)<br>HCC = 0.1mm increments<br>(D or P) + 0.5 ≤ HCC < H - 0.3, (D or P) ≥ 0.6   |           |
|             | TC   | Head thickness change<br>TC = 0.1mm increments<br>(Dimension L remains unchanged.)<br>4 - TC ≤ Lmax - L  | Quotation |
|             | TRN  | Relief under the head<br>(No need for plate chamfering)<br>Available when (D or P) ≥ 0.6   |           |
|             | NHC  | Numbering on the head<br>How to order P.396<br>Ⓜ Available when H ≥ 2  |           |
|             | SVC  | Extend the flat section SV to the bottom.<br>(D or P) < 1 → L = Applicable until 60<br>Ⓜ When used concurrently with key flat cutting, SVC processing is done perpendicularly to the key flat surface.         |           |

## ■ Characteristics

For the molds using the resin which generates gas easily, this core pin performs good effect of gas release from inside cavity through the clearance.

Example

- Assemble at the surface of product to release gas.
- Assemble to the place where the gas gathers in the runner part, and release gas.

