

EXTRA PRECISION GAS RELEASE ONE-STEP CORE PINS

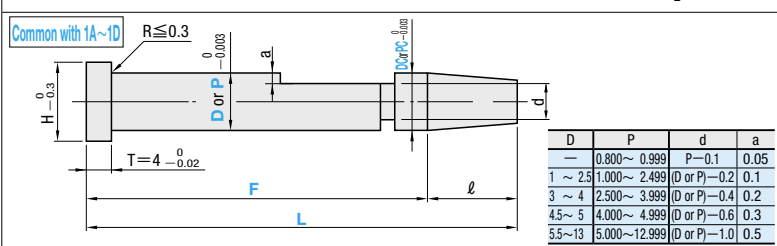
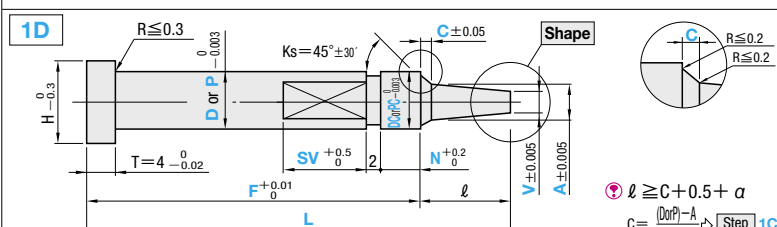
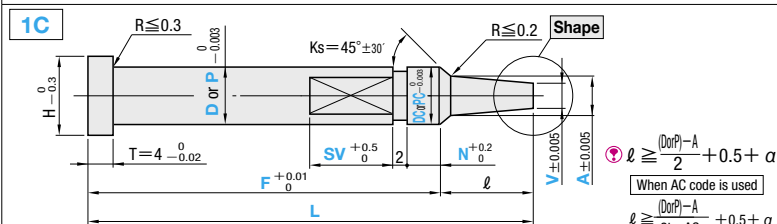
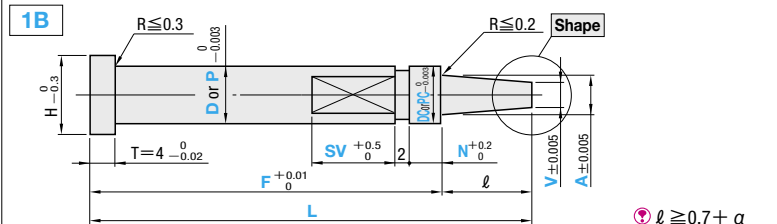
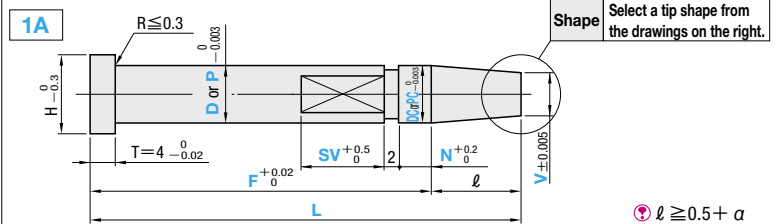
—SHAFT DIAMETER (D) SELECTION TYPE / SHAFT DIAMETER (P) DESIGNATION (0.001mm INCREMENTS) TYPE—



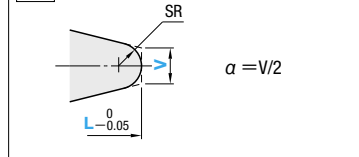
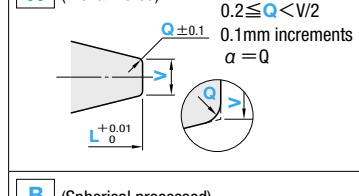
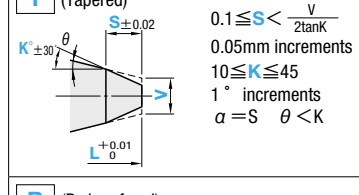
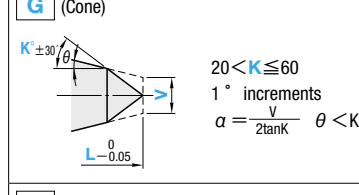
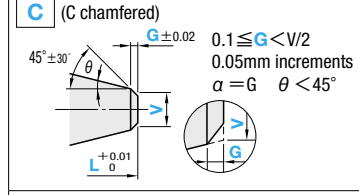
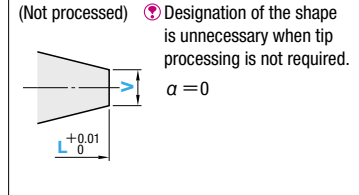
Ⓜ Non JIS material definition is listed on P.1351 - 1352

RoHS	M	Part Number			
		Type	Step	Shape	
		SKH51 equivalent 58~60HRC	GV-CPM- GV-CPMB-	1A 1B 1C 1D	Not processed C G T R B

Step type selected from 1A~1D below



Shape (Tip shape: V is dimension before tip processing.)



(Calculation of tip gradient θ P.1315)

Shaft diameter (D) selection type

H	Part Number			0.01mm increments		0.005mm increments		0.1mm increments		0.001mm increments		0.1mm increments		0.5mm increments		ℓmax.					
	Type	Step	Shape	D	L	F	A	Vmin.	C	DC	N	SV									
3	GV-CPM-	1A	C	1	16.50	14.50	DC > A ≥ V	0.500	only [Step] 1D designated	(D-0.08) ≤ DC ≤ D	0.3 ~ 10.0	2.0 ~ 50.0	F - (2 + SV + N) ≥ 10	A × 6	Step 1A DX6						
4				1.5												ℓmin. Refer to the [Step] drawing	No designation necessary for A	0.700	C < $\frac{D-A}{2}$ and $0.1 \leq C \leq 4.0$	When DC=D, DCX is applied.	F - (2 + SV + N) ≥ 10
5				2																	
6				2.5																	
7				3																	
8				3.5																	
9				4																	
10				4.5																	
11				5																	
12				5.5																	
13				6																	
14				7																	
15				8																	
16				10																	
17				13																	

Shaft diameter (P) designation type

H	Part Number			0.01mm increments		0.001mm increments		0.01mm increments		0.005mm increments		0.1mm increments		0.001mm increments		0.1mm increments		0.5mm increments		ℓmax.		
	Type	Step	Shape	No.	L	P	F	A	Vmin.	C	PC	N	SV									
3	GV-CPMB-	1A	C	1	16.50	0.800 ~ 0.999	14.50	PC > A ≥ V	0.500	Only [Step] 1D designated	(P-0.08) ≤ PC ≤ P	0.3	2.0	F - (2 + SV + N) ≥ 10	A × 6	Step 1A = P × 6						
4				1.5													ℓmin. Refer to the [Step] drawing	No designation necessary for A	0.700	C < $\frac{P-A}{2}$ and $0.1 \leq C \leq 4.0$	When PC=P, PCX is applied.	F - (2 + SV + N) ≥ 10
5				2																		
6				2.5																		
7				3																		
8				3.5																		
9				4																		
10				4.5																		
11				5																		
12				5.5																		
13				6																		
14				7																		
15				8																		
16				10																		
17				13																		

Order Part Number L P F A V C Tip size (K·S·G·Q) DC(DCX) PC(PCX) N SV

GV-CPM -1A 5- 52.60 - F44.00 - V4.500 - DC4.940 - N2 - SV20

GV-CPMB-1BR4- 45.00 - P3.900 - F35.00 - A3.000 - V2.600 - Q0.2 - PCX - N8 - SV15

Days to Ship Quotation Price Quotation

Alterations Part Number L P F(FC) A V(VC) C(CVC) Tip size (K·S·G·Q) DC(DCX) PC(PCX) N SV(SVC) (KC·WKC...etc.)

GV-CPM -1BR4- 45.00 - F35.00 - A3.000 - V2.600 - Q0.2 - DCX - N8 - SV15 - HC6.5

GV-CPMB-1CC5.5- 45.00 - P5.490 - F30.50 - A5.000 - V4.500 - G1.2 - PC5.450 - N10 - SV8.5 - NHC-23

Alterations	Code	Spec.	1Code
	KC	Single flat cutting (D or P)/2 ≤ KC < H/2	Quotation
	WKC	Two flats cutting (D or P)/2 ≤ WKC < H/2	Quotation
	KAC	Varied width parallel flats cutting (D or P)/2 ≤ KAC < H/2	Quotation
	KBC	Varied width parallel flats cutting (D or P)/2 ≤ KBC < H/2	Quotation
	HC	Head diameter change HC=0.1mm increments (D or P) ≤ HC < H	Quotation
	HCC	Head diameter change (precision) HCC=0.1mm increments (D or P) + 0.5 ≤ HCC < H - 0.3	Quotation
	TC	Head thickness change TC=0.1mm increments 1.5 ≤ TC < 4 (Dimensions L and F remain unchanged.) 4 - TC ≤ Lmax. - L	Quotation
	TRN	Relief under the head (No need for plate chamfering)	
	NHC	Numbering on the head How to order P.442 Available when H ≥ 2	
	AC	Changes the standard angle (Ks=45°) AC=1° increments Available for [Step] 1C/1D 30 ≤ AC ≤ 60 Combination with CVC not available. When 1D, C ≤ 1.0·A + 2(C·tanAC) < (D or P)	
	CVC	C dimension can be designated at 0.01mm increments. 0.10 ≤ CVC ≤ 1.00 Available for [Step] 1D CVC < [(D or P)-A]/2 Combination with AC not available.	
	VC	Vmin. is enlarged. D or No. Vmin. VCmin. VC=0.005mm increments 1~1.5 0.500 0.400 3.5~4 1.000 0.700 ℓ ≤ A × 5, ℓ ≤ 50 [Step] 1A, (D or P) × 5 5.5 1.500 1.000 6~10 2.000 1.500 (DC or PC) > A ≥ VC	
	FC	F dimension becomes shorter than Fmin. Makes L dimension shorter than L min. too. FC ≥ 5mm	
	SVC	Extend the flat section SV to the bottom. When P < 1 Available for L=60 or less When used concurrently with key flat cutting, SVC processing is done perpendicularly to the key flat surface.	