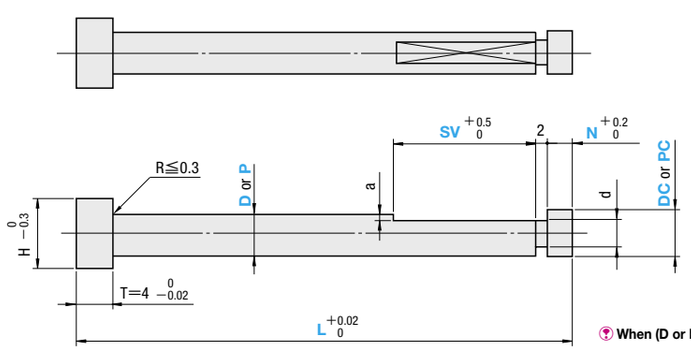
NAK80 | DH2F
SKD61 equivalent | SKH51 equivalent

GAS RELEASE STRAIGHT CORE PINS

—SHAFT DIAMETER (D) SELECTION TYPE／SHAFT DIAMETER (P) DESIGNATION (0.01mm INCREMENTS) TYPE—

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

Type		M	H	T
Shaft diameter (D) selection	Shaft diameter (P) designation			D・DC・P・PC
GV—CPN—L	GV—CPNB—L	NAK80	37～43HRC	−0.01 −0.02
GV—CPF—L	GV—CPFB—L	DH2F	38～42HRC	
GV—CPD—L	GV—CPDB—L	SKD61 equivalent	48～52HRC	
GV—CPX—L	GV—CPXB—L	SKH51 equivalent	58～60HRC	
GV—CPK—L	GV—CPKB—L	NAK80	37～43HRC	0 −0.005
GV—CPG—L	GV—CPGB—L	DH2F	38～42HRC	
GV—CPP—L	GV—CPPB—L	SKD61 equivalent	48～52HRC	
GV—CPH—L	GV—CPHB—L	SKH51 equivalent	58～60HRC	



D	P	d	a
0.5～ 0.9	0.50～ 0.99	(D or P)−0.1	0.05
1 ～ 2.5	1.00～ 2.49	(D or P)−0.2	0.10
3 ～ 4	2.50～ 3.99	(D or P)−0.4	0.20
4.5・ 5	4.00～ 4.99	(D or P)−0.6	0.30
6 ～13	5.00～12.99	(D or P)−1.0	0.50

When (D or P)− 0.01 0.02, Shaft diameter selection: DC designation not available. DC=D
Shaft diameter designation: PC designation not availablePC=P

■Shaft diameter (D) selection type

H	Part Number Type	D	L 0.01mm increments	DC 0.005mm increments	N 0.1mm increments	SV 0.5mm increments	U/Price 1～4 GV—CPN—L GV—CPF—L	GV—CPD—L	GV—CPX—L	GV—CPK—L GV—CPG—L	GV—CPP—L GV—CPH—L
							Designated uselessness of DC・DCX (D=DC)			D=DC (DCX)	D≠DC	D=DC (DCX)	D≠DC
2	GV—CPX—L GV—CPH—L	0.5	15.00～ 60.00	(D−0.08)≦ DC≦D When D −0.01 −0.02, DC not available When DC=D, designation of DCX.	0.3～10.0	2.0～50.0							
3	GV—CPN—L (D≧0.8) GV—CPF—L (D≧0.8) GV—CPD—L	0.6	15.00～100.00		L−(2+SV+N)≧10								
		0.7											
		0.8											
		0.9											
		1											
		1.2											
		1.5											
4	GV—CPX—L	2											
5		2.5											
6		3											
7	GV—CPK—L (D≧0.8) GV—CPG—L (D≧0.8) GV—CPP—L	3.5	15.00～120.00		0.5～15.0	2.0～60.0							
		4											
		4.5											
8		5			L−(2+SV+N)≧10								
9		6											
10		7											
11		8											
15	GV—CPH—L	10											
18		13											

Quotation

■Shaft diameter (P) designation type

H	Part Number Type	No.	0.01mm increments L	P	PC 0.005mm increments	N 0.1mm increments	SV 0.5mm increments	U/Price 1～4 GV-CPNB-L GV-CPFB-L	GV-CPDB-L	GV-CPXB-L	GV-CPKB-L GV-CPGB-L	GV-CPPB-L GV-CPHB-L
								Designated uselessness of PC・PCX (P=PC)			P=PC (PCX)	P≠PC	P=PC (PCX)	P≠PC
3	GV—CPXB—L GV—CPHB—L	0.6	15.00～100.00	0.50～ 0.59	(P−0.08)≦ PC≦P When P −0.01 −0.02 PC not available. When PC=P, designation of PCX.	0.3～10.0	2.0～50.0							
	GV—CPNB—L (P≧0.80) GV—CPFB—L (P≧0.80) GV—CPDB—L	1		0.60～ 0.99		L−(2+SV+N)≧10								
		1.5		1.00～ 1.49										
4		2		1.50～ 1.99										
5		2.5		2.00～ 2.49										
6		3		2.50～ 2.99										
7	GV—CPXB—L	3.5	15.00～120.00	3.00～ 3.49		0.5～15.0	2.0～60.0							
		4		3.50～ 3.99										
8	GV—CPKB—L (P≧0.80) GV—CPGB—L (P≧0.80) GV—CPPB—L	4.5		4.00～ 4.49		L−(2+SV+N)≧10								
		5		4.50～ 4.99										
9		6		5.00～ 5.99										
10		7		6.00～ 6.99										
11		8		7.00～ 7.99										
15		10		8.00～ 9.99										
18	GV—CPHB—L	13		10.00～12.99										

Quotation

Order

Part Number	L	P	DC(DCX) PC(PCX)	N	SV
GV—CPX —L1	20.05			N2	SV4
GV—CPHB—L3	18.36	P2.96	PC2.950	N2	SV4

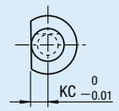
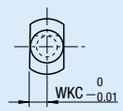
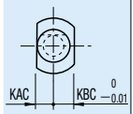
Days to Ship: Quotation

Price: Quotation

Alterations

Part Number	L	P	PC(PCX) PC(PCX)	N	SV(SVC)	(KC・WKC…etc.)
GV—CPH —L3	18.36		DCX	N2	SVC	WKC1.5
GV—CPHB—L3	18.36	P2.96	PCX	N2	SVC	WKC1.48

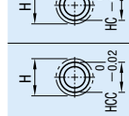
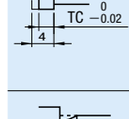
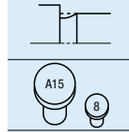
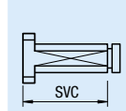
Alteration details P.395

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

About Designation Unit for Key Flat Cutting

(1)To align the key flat with the shaft diameter
Unit of designation
Shaft diameter (D) selection
0.05mm increments possible
Shaft diameter (P) designation
0.005mm increments possible

(2)To designate arbitrary key flat dimensions
Unit of designation 0.1mm

Alterations	Code	Spec.	1Code
	HC	Head diameter change HC=0.1mm increments (D or P)≦HC＜H In relation to the diameter tolerance, alteration may create a straight piece with little diameter difference between the head and shaft.	Quotation
	HCC	Head diameter change (precision) HCC=0.1mm increments (D or P)+0.5≦HCC＜H−0.3, (D or P)≧0.6	
	TC	Head thickness change TC=0.1mm increments (Dimension L remains unchanged.) 4−TC≦Lmax.−L ・Shaft diameter (D) selection: D 0.5≦D＜0.8 TC 2.0≦TC＜4.0; D 0.8≦D≦13 TC 1.5≦TC＜4.0 ・Shaft diameter (P) designation: P 0.50≦P＜0.80 TC 2.0≦TC＜4.0; P 0.80≦P≦12.99 TC 1.5≦TC＜4.0	
	TRN	Relief under the head (No need for plate chamfering) Available when (D or P)≧0.6	
	NHC	Numbering on the head How to order P.396 Available when H≧2	
	SVC	Extend the flat section SV to the bottom. Only available for GV—CPN—L・GV—CPK—L GV—CPNB—L・GV—CPKB—L when (D or P)≧2 (D or P)＜1 ⋯› L=Applicable until 60 When used concurrently with key flat cutting, SVC processing is done perpendicularly to the key flat surface.	

■ Characteristics

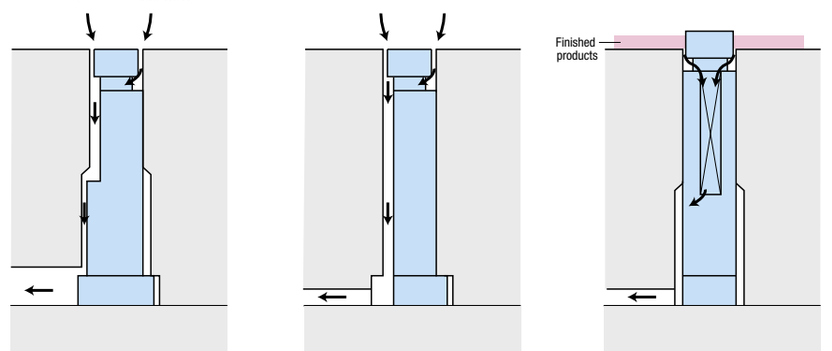
For the molds using the resin which generates gas easily, this core pin performs good effect of gas release from inside cavity through the clearance.

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

Gas is released from the clearance.

Please set clearance to include the way of gas-flow according to resin and molding condition (Designate on DC・PC).

※ ⟶ Gas flow



＜Alteration SVC＞

Please use SVC alteration when processing plate by wire cutting.

＜Alteration WKC＞