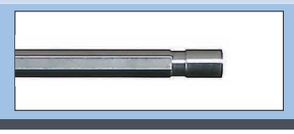
High Speed Steel
SKH51 equivalent

STRAIGHT EJECTOR PINS WITH GAS VENT

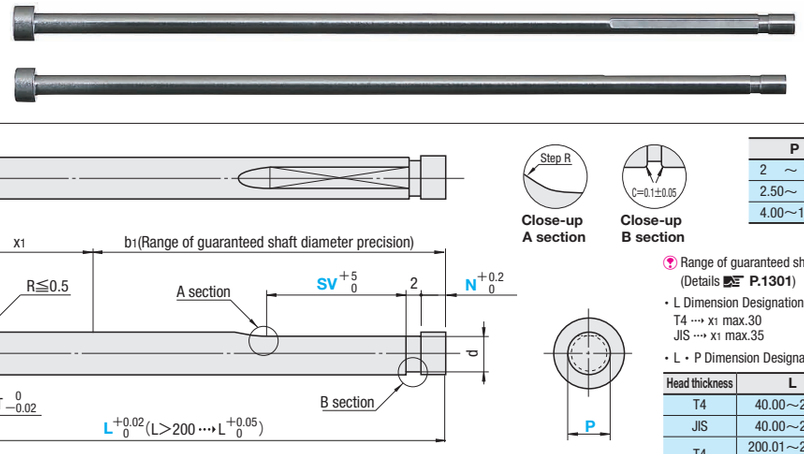
—L DIMENSION DESIGNATION TYPE／L・P DIMENSION DESIGNATION TYPE—



Refer to P.85 when tip diameter dimension designated.

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

RoHS



Close-up A section　Close-up B section

P	d
2 ～ 2.49	P−0.2
2.50～ 3.99	P−0.4
4.00～12	P−0.6

Range of guaranteed shaft diameter precision (Details P.1301)

- L Dimension Designation Type
  T4 ··· x1 max.30
  JIS ··· x1 max.35
- L・P Dimension Designation Type

Head thickness	L	x1 max.
T4	40.00～200.00	30
JIS	40.00～200.00	35
T4・JIS	200.01～250.00	110
	250.01～300.00	160
	300.01～350.00	210

(The guarantee range of shaft diameter precision is the value of shaft diameter except gas vent.)

M SKH51 equivalent
H 58～60HRC
Range of guaranteed base material hardness (Details P.1303)

Part Number	Head thickness	Part Number	Head thickness	Type	T P	Tip Face Roughness
GV−EPH−L	4mm (T4)	GV−EPHJ−L	6・8mm (JIS)	L dimension designation type	0 −0.005 −0.01 −0.02	—
GV−EPHE−L		GV−EPHJE−L				
GV−EPHB		GV−EPHJB		L・P dimension designation type	0 −0.005 −0.01 −0.02	
GV−EPHBE		GV−EPHJBE				

■L Dimension Designation Type

4mm head H	4mm head T	JIS head H	JIS head T	Part Number Type 4mm head	Part Number Type JIS head	P	0.01mm increments L	0.5mm increments N	0.5mm increments SV
4	4	—	—	GV−EPH−L GV−EPHE−L	—	2	40.00～300.00	0.5～8.0 L−(2+SV+N)≧10	2.0～30.0 L−(2+SV+N)≧10
5						2.5			
6						3			
7						3.5			
8		8	6		GV−EPHJ−L GV−EPHJE−L	4		2.0～10.0 L−(2+SV+N)≧10	2.0～50.0 L−(2+SV+N)≧10
						4.5	40.00～300.00(350.00)		
9		9				5	40.00～350.00		
		10				5.5			
10		11				6			
						6.5			
11		13	8			7			
15		15				8			
17		17				10			
						12			

L in ( ) is applicable only for head thickness 4mm type.

■L・P Dimension Designation Type

4mm head H	4mm head T	JIS head H	JIS head T	Part Number Type 4mm head	Part Number Type JIS head	No.	0.01mm increments L	0.01mm increments P	0.5mm increments N	0.5mm increments SV
5	4	—	—	GV−EPHB GV−EPHBE	—	2.5	40.00～300.00	2.00～ 2.49	0.5～8.0 L−(2+SV+N)≧10	2.0～30.0 L−(2+SV+N)≧10
6						3		2.50～ 2.99		
7						3.5		3.00～ 3.49		
8		8	6		GV−EPHJB GV−EPHJBE	4		3.50～ 3.99		
						4.5	40.00～300.00(350.00)	4.00～ 4.49		
9		9				5	40.00～350.00	4.50～ 4.99		
		10				5.5		5.00～ 5.49	2.0～10.0 L−(2+SV+N)≧10	2.0～50.0 L−(2+SV+N)≧10
10		11				6		5.50～ 5.99		
						6.5		6.00～ 6.49		
11		13	8			7		6.50～ 6.99		
15		15				8		7.00～ 7.99		
17		17				10		8.00～ 9.99		
						12		10.00～11.99		

L in ( ) is applicable only for head thickness 4mm type.

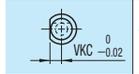
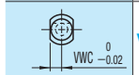
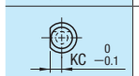
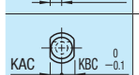
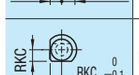
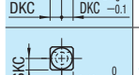
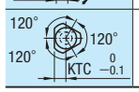
Order　Part Number — L — P — N — SV
GV−EPH−L5 — 210.00 — N2.0 — SV4.0
GV−EPHB3 — 148.36 — P2.96 — N2.0 — SV4.0

Days to Ship　Quotation

Alterations　Part Number — L — P — N — SV — (KC・WKC···etc.)
GV−EPHB3 — 148.36 — P2.96 — N2.0 — SV4.0 — KC1.48

Quotation

Alteration details P.53

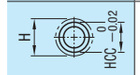
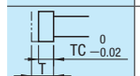
Alterations	Code	Spec.	1Code
	VKC	Precision single flat cutting P/2≦VKC＜ H/2	Quotation
	VWC	Precision two flats cutting P/2≦VWC＜H/2	
	KC	Single flat cutting P/2≦KC＜H/2	
	WKC	Two flats cutting P/2≦WKC＜H/2	
	KAC KBC	Varied width parallel flats cutting P/2≦KAC＜H/2 KBC=0.1mm increments only KAC＜KBC＜H/2	
	RKC	Two flats (right angled) cutting P/2≦RKC＜H/2	
	DKC	Three flats cutting P/2≦DKC＜H/2	
	SKC	Four flats cutting P/2≦SKC＜H/2	
	KGC	Two flats (angled) cutting P/2≦KGC＜H/2 AG=1° increments 0＜AG＜360	
	KTC	Three flats cutting at 120° P/2≦KTC＜H/2	

About Designation Unit for Key Flat Cutting

(1)To align the key flat with the shaft diameter
Unit of designation
GV−EPH−L・GV−EPHE−L
GV−EPHJ−L・GV−EPHJE−L
0.05mm increments possible

GV−EPHB・GV−EPHBE
GV−EPHJB・GV−EPHJBE
0.005mm increments possible

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

Alterations	Code	Spec.	1Code
	HC	HC=0.1mm increments P+1≦HC＜H	Quotation
	HCC	HCC=0.1mm increments P+1≦HCC＜H−0.3	
	TC	TC=0.1mm increments T/2≦TC＜T (Dimension L remains unchanged.) T−TC≦Lmax.−L	
	NHC	Numbering on the head How to order P.54 Combination with SKC not available.	
	NHN	Automatic sequential numbering on the head How to order P.54 Combination with SKC not available.	
	TMC	Lapping on the tip face. Details P.54	

Price　Quotation

Example

■Characteristics

Let gas out from the inside of the cavity via the clearance around the ejector pin.