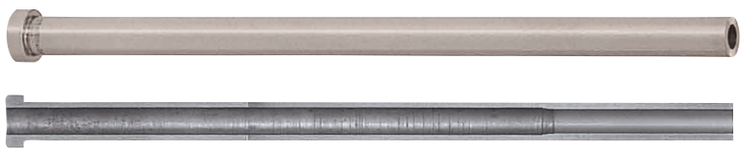
SKH51 equivalent
Concentricity◎0.01
Wall thickness 0.6mm～

PRECISION STRAIGHT EJECTOR SLEEVES

—S DIMENSION LONG TYPE—

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

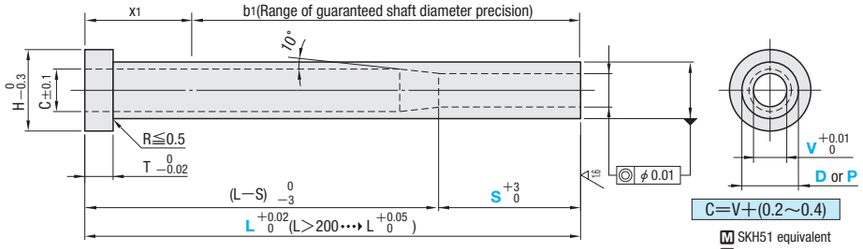


RoHS

Part Number		Head Thickness	T D・P	T V	Applicable center pin shaft diameter tolerance
Shaft diameter selection type	Shaft diameter designation (0.01mm increments) type				
ESVK—H	ESVKB—H	4mm (T4)	0 −0.005	+0.01 0	−0.01 −0.02
ESVKJ—H	ESVKJB—H	6・8mm (JIS)			
ESVK—M	ESVKB—M	4mm (T4)	−0.01 −0.02		

※ Note that for sleeves with V dimension tolerance of $^{+0.01}_{0}$, combination with center pins that have shaft diameter tolerance $^{0}_{-0.005}$ is not available. The reason for this is fitting sections S are longer.

When 30＜S≦50, guaranteed range of V dimension precision is 10mm from tip.



M SKH51 equivalent
H 58～60HRC
※Range of guaranteed base material hardness (Details P.1307)
Overall quenching (No annealing on head)

■Shaft diameter (D) selection type

4mm head H	4mm head T	JIS head H	JIS head T	Part Number Type 4mm head	Part Number Type JIS head	D	0.01mm increments L	0.01mm increments V	S 0.5mm increments
7	4	—	—	ESVK—H (D 0 −0.005)	—	3.5	40.00～225.00	0.80～ 2.30	1.0≦S≦(V×10) and S≦50
8						4		0.80～ 2.80	
9		10	6		ESVKJ—H (D 0 −0.005)	5		0.80～ 3.80	
10		11				6		0.80～ 4.80	
11		13	8			7		0.80～ 5.80	
14		14		ESVK—M (D −0.01 −0.02)		8	40.00～250.00	2.00～ 6.20	
15		15				9		2.00～ 7.20	
16		17				10		2.00～ 8.20	
17						11		2.00～ 9.20	
18		19				12		2.00～10.20	
19						13		2.00～11.20	
						14		2.00～12.20	

When 30＜S≦50, guaranteed range of V dimension precision is 10mm from tip.

■Shaft diameter (P) designation 0.01mm increments 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	0.01mm increments V	S 0.5mm increments
7	4	—	—	ESVKB—H (P 0 −0.005)	—	4	40.00～225.00	3.20～ 3.99	0.80≦V≦(P−1.20)	1.0≦S≦(V×10) and S≦50
8						5		4.00～ 4.99		
9		10	6		ESVKJB—H (P 0 −0.005)	6		5.00～ 5.99		
10		11				7		6.00～ 6.99		
11		13	8			8	40.00～250.00	7.00～ 7.99	2.00≦V≦(P−1.80)	
14		14		ESVKB—M (P −0.01 −0.02)		9		8.00～ 8.99		
15		15				10		9.00～ 9.99		
16		17				11		10.00～10.99		
17						12		11.00～11.99		
18		19				13		12.00～12.99		
19						14		13.00～13.99		

When 30＜S≦50, guaranteed range of V dimension precision is 10mm from tip.

Order

Part Number	L	P	V	S
(Shaft diameter (D) selection type) ESVK—H6	150.00		V4.00	S30
(Shaft diameter (P) designation type) ESVKB—H6	140.00	P5.95	V3.95	S28

Days to Ship: Quotation

Price: Quotation

Alterations

Part Number	L	P	V	S	(KC・WKC･･･etc.)
ESVK—H6	100.52		V4.00	S30	KC 3.0

Alteration details P.275

Alterations	Code	Spec.	1Code
KC 0 −0.02	KC	Single flat cutting (D or P)/2≦KC＜H/2	Quotation
WKC 0 −0.02	WKC	Two flats cutting (D or P)/2≦WKC＜H/2	
KAC KBC 0 −0.02	KAC KBC	Varied width parallel flats cutting (D or P)/2≦KAC＜H/2 KBC=0.1mm increments only KAC＜KBC＜H/2	
RKC 0 −0.02	RKC	Two flats (right angled) cutting (D or P)/2≦RKC＜H/2	
DKC DKC 0 −0.02	DKC	Three flats cutting (D or P)/2≦DKC＜H/2	
SKC 0 −0.02	SKC	Four flats cutting (D or P)/2≦SKC＜H/2	
AG° ±0.5 0° KGC KGC 0 −0.02	KGC	Two flats (angled) cutting (D or P)/2≦KGC＜H/2 AG=1° increments 0＜AG＜360	
120° 120° 120° KTC 0 −0.02	KTC	Three flats cutting at 120° (D or 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
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
TC 0 −0.02 T	TC	TC=0.1mm increments (T−TC)≦Lmax.−L T/2≦TC＜T Dimensions L and (L−S) remain unchanged.	Quotation
H HC 0 −0.03	HC	HC=0.1mm increments Shaft diameter (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.	
H HCC 0 −0.02	HCC	HCC=0.1mm increments (D or P)+1≦HCC＜H−0.3	
CGX±0.05 45° 0.1 V L	CGX	CGX=0.1mm increments 0.2≦CGX≦1.5 and CGX≦ (D or P)−V / 2 −0.1 ⊗ Combination with RGX not available.	
RGX ±0.1 0.1 V L	RGX	RGX=0.1mm increments 0.3≦RGX≦1.5 and RGX≦ (D or P)−V / 2 −0.1 ⊗ Combination with CGX not available.	

■Characteristics

① The fitting section (S) can be long up to V×10.
②Precision wire cutting is used to make the dimension S longer.
③Softened layer in the bore made by wire cutting is removed by polishing. (Tolerances of the dimension V are values after polishing.)
④The ejector sleeves are of high precision (concentricity: 0.01・tolerances of the dimension V: $^{+0.01}_{0}$) in addition to having a low price.