

SKH51 equivalent
Concentricity ≤ 0.01
Wall thickness 0.6mm~

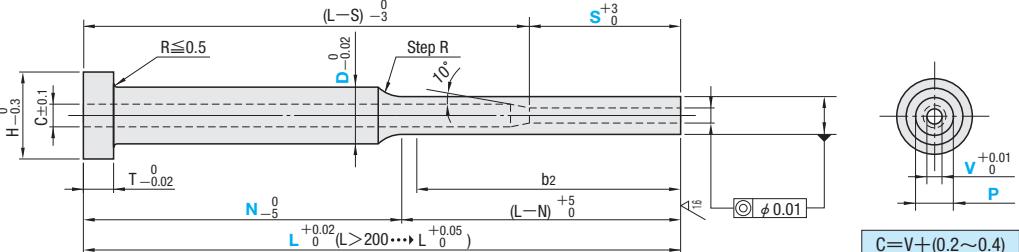
PRECISION STEPPED EJECTOR SLEEVES

—S DIMENSION LONG TYPE—

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


RoHS

Part Number		Head Thickness	T P	T V	Applicable center pin shaft diameter tolerance	
D selection type	D designation type					
ESVKFE-H	ESVKBF-H	4mm(T4)	-0.005	+0.01	-0.01	When 30 < S ≤ 50, guaranteed range of V dimension precision is 10mm from tip.
ESVKJFE-H	ESVKJBF-H	6 ~ 8mm(JIS)	-0.02	0	-0.02	※ Note that for sleeves with V dimension tolerance of $^{+0.01}_{-0.05}$, combination with center pins that have shaft diameter tolerance $^{+0.01}_{-0.05}$ is not available. The reason for this is fitting sections S are longer.
ESVKFE-M	ESVKBF-M	4mm(T4)	-0.01	-0.02		



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

D selection type

4mm head		JIS head		Part Number		0.01mm increments				N 1mm increments	S 0.5mm increments										
H	T	H	T	Type	D	L	P	V													
4mm head	JIS head																				
7 8 9 10 11 12 13 14 15 16 17 18	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	10 11 12 13 14 15 16 17 18 19	6 7 8 9 10 11 12 13 14 15 16 17 18 19	3.5 4 5 6 7 8 9 10 11 12 13	40.00 ~ 125.00 40.00 ~ 150.00 40.00 ~ 175.00 40.00 ~ 250.00 4.85 ≤ P ≤ (D-0.1) 5.35 ≤ P ≤ (D-0.1) 5.85 ≤ P ≤ (D-0.1) 6.35 ≤ P ≤ (D-0.1)	3.20 ≤ P ≤ (D-0.1)	0.80 ≤ V ≤ (P-1.2)	1.0 ≤ S ≤ (V×10) and S ≤ 50	N ≥ L/2 (L-N ≥ 10)	1.0 ≤ S ≤ (V×10) and S ≤ 50											
											4.0	4.1 ~ 5.0	4.1 ~ 5.0	4.1 ~ 5.0	4.1 ~ 5.0	4.00 ~ 225.00	3.20 ≤ P ≤ (D-0.1)	0.80 ≤ V ≤ (P-1.2)	1.0 ≤ S ≤ (V×10) and S ≤ 50	N ≥ L/2 (L-N ≥ 10)	1.0 ≤ S ≤ (V×10) and S ≤ 50
											5.0	5.1 ~ 6.0	5.1 ~ 6.0	5.1 ~ 6.0	5.1 ~ 6.0	40.00 ~ 250.00	3.20 ≤ P ≤ (D-0.1)	0.80 ≤ V ≤ (P-1.2)	1.0 ≤ S ≤ (V×10) and S ≤ 50	N ≥ L/2 (L-N ≥ 10)	1.0 ≤ S ≤ (V×10) and S ≤ 50
											6.0	6.1 ~ 7.0	6.1 ~ 7.0	6.1 ~ 7.0	6.1 ~ 7.0	4.85 ≤ P ≤ (D-0.1)	4.85 ≤ P ≤ (D-0.1)	2.00 ≤ V ≤ (P-1.2)	1.0 ≤ S ≤ (V×10) and S ≤ 50	N ≥ L/2 (L-N ≥ 10)	1.0 ≤ S ≤ (V×10) and S ≤ 50
											7.0	7.1 ~ 8.0	7.1 ~ 8.0	7.1 ~ 8.0	7.1 ~ 8.0	5.35 ≤ P ≤ (D-0.1)	5.35 ≤ P ≤ (D-0.1)	2.00 ≤ V ≤ (P-1.6)	1.0 ≤ S ≤ (V×10) and S ≤ 50	N ≥ L/2 (L-N ≥ 10)	1.0 ≤ S ≤ (V×10) and S ≤ 50
											8.0	8.1 ~ 9.0	8.1 ~ 9.0	8.1 ~ 9.0	8.1 ~ 9.0	5.85 ≤ P ≤ (D-0.1)	5.85 ≤ P ≤ (D-0.1)	2.00 ≤ V ≤ (P-1.6)	1.0 ≤ S ≤ (V×10) and S ≤ 50	N ≥ L/2 (L-N ≥ 10)	1.0 ≤ S ≤ (V×10) and S ≤ 50
											9.0	9.1 ~ 10.0	9.1 ~ 10.0	9.1 ~ 10.0	9.1 ~ 10.0	6.35 ≤ P ≤ (D-0.1)	6.35 ≤ P ≤ (D-0.1)	2.00 ≤ V ≤ (P-1.6)	1.0 ≤ S ≤ (V×10) and S ≤ 50	N ≥ L/2 (L-N ≥ 10)	1.0 ≤ S ≤ (V×10) and S ≤ 50
											10.0	10.1 ~ 11.0	10.1 ~ 11.0	10.1 ~ 11.0	10.1 ~ 11.0	6.85 ≤ P ≤ (D-0.1)	6.85 ≤ P ≤ (D-0.1)	2.00 ≤ V ≤ (P-1.6)	1.0 ≤ S ≤ (V×10) and S ≤ 50	N ≥ L/2 (L-N ≥ 10)	1.0 ≤ S ≤ (V×10) and S ≤ 50
											11.0	11.1 ~ 12.0	11.1 ~ 12.0	11.1 ~ 12.0	11.1 ~ 12.0	7.35 ≤ P ≤ (D-0.1)	7.35 ≤ P ≤ (D-0.1)	2.00 ≤ V ≤ (P-1.6)	1.0 ≤ S ≤ (V×10) and S ≤ 50	N ≥ L/2 (L-N ≥ 10)	1.0 ≤ S ≤ (V×10) and S ≤ 50
											12.0	12.1 ~ 13.0	12.1 ~ 13.0	12.1 ~ 13.0	12.1 ~ 13.0	7.85 ≤ P ≤ (D-0.1)	7.85 ≤ P ≤ (D-0.1)	2.00 ≤ V ≤ (P-1.6)	1.0 ≤ S ≤ (V×10) and S ≤ 50	N ≥ L/2 (L-N ≥ 10)	1.0 ≤ S ≤ (V×10) and S ≤ 50



Order

Part Number	D	L	P	V	N	S
Type	ESVKFE-H	4	120.05	P3.80	V2.60	N75 S26
(D selection type)						
Part Number	D	L	P	V	N	S
(D designation type)	ESVKBF-H	4.6	120.05	P3.80	V2.60	N75 S26



Days to Ship

Quotation

P Price **Quotation**

H Alterations Part Number — D — L — P — V — N — S — (KC · WKC · etc.)
ESVKBF-H — 4.0 — 120.05 — P3.80 — V2.60 — N70 — S26 — KC2.5

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

Quotation

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

Precautions for use

Use a construction that supports sliding and does not readily apply a load to the flange of the ejector pin, such as by using a precision ejector guide pin & bushing.

Ejector Sleeves

High Speed Steel

SKH51 equivalent