

SKH51 equivalent
Wall thickness 0.6mm~

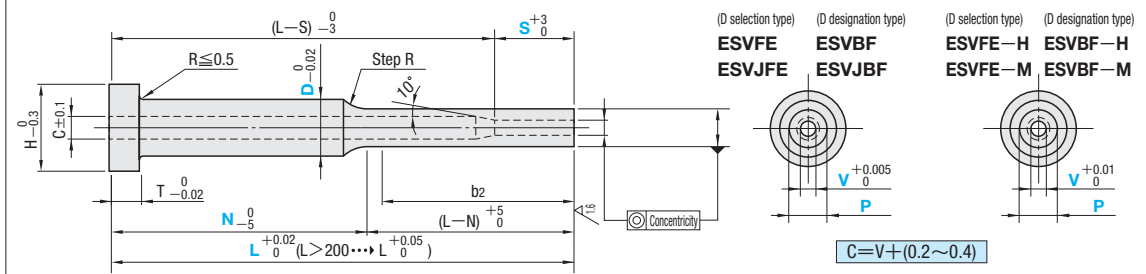
PRECISION STEPPED EJECTOR SLEEVES

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

RoHS



Part Number		Head	P	V	Concentricity	Applicable center pin shaft diameter tolerance
D selection type	D designation type	Thickness				
ESVFE	ESVBF	4mm (T4)	0 -0.005	+0.005 0	◎ φ 0.005	0 -0.005
ESVJFE	ESVJBF	6 · 8mm (JIS)				
ESVFE-H	ESVBF-H	4mm (T4)	-0.01 -0.02	+0.01 0	◎ φ 0.01	-0.01 -0.02
ESVFE-M	ESVBF-M					



Ⓢ Note that the Stepped Center Pin's shaft diameter (D) is too large to fit in the recess (C).

Ⓢ SKH51 equivalent
Ⓢ 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	S
H	T	H	T	Type	D	L	P	V	1mm increments	0.5mm increments	
7				ESVFE (V ^{+0.005})	4	40.00~225.00	3.20~3.90	0.80≤V≤(P-1.2)		ESVFE · ESVJFE 1.0≤S≤(V×3) and S≤25	
8					5						
9	10	6		ESVFE-H (V ^{+0.01})	6	40.00~250.00	3.20~5.90	L≤200 2.00≤V≤(P-1.2)	N≥L/2 (L-N≥10)	ESVFE-H · ESVFE-M 1.0≤S≤(V×5) and S≤25	
10	11				7						
11	13	8		ESVFE-M (V ^{+0.01})	8	40.00~250.00	3.20~7.90	L>200 2.00≤V≤(P-1.6)			
14	14				9						
15	15				10	40.00~250.00	4.85~9.90				
16	17			11							
17	17				12	40.00~250.00	5.35~10.90				
18	19			13							
					12	40.00~250.00	5.85~11.90				
					13						

D designation type

4mm head		JIS head		Part Number		D	0.01mm increments			N	S
H	T	H	T	Type	D	0.1mm increments	L	P	V	1mm increments	0.5mm increments
7				ESVBF (V ^{+0.005})		3.5~4.0	40.00~225.00		0.80≤V≤(P-1.2)		ESVBF · ESVJBF 1.0≤S≤(V×3) and S≤25
8					4	4.1~5.0					
9	10	6		ESVBF-H (V ^{+0.01})		5.1~6.0	40.00~225.00	3.20≤P≤(D-0.1)	L≤200 2.00≤V≤(P-1.2)	N≥L/2 (L-N≥10)	ESVBF-H · ESVBF-M 1.0≤S≤(V×5) and S≤25
10	11				5	6.1~7.0					
11	13	8		ESVBF-M (V ^{+0.01})		7.1~8.0	40.00~250.00	4.85≤P≤(D-0.1)	L>200 2.00≤V≤(P-1.6)		
14	14				6	8.1~9.0					
15	15				7	9.1~10.0	40.00~250.00	5.35≤P≤(D-0.1)			
16	17			8	10.1~11.0						
17	17				9	11.1~12.0	40.00~250.00	5.85≤P≤(D-0.1)			
18	19			10	12.1~13.0						
					11	11.1~12.0	40.00~250.00	6.35≤P≤(D-0.1)			
					12						
					13	12.1~13.0	40.00~250.00	6.35≤P≤(D-0.1)			
					14						

Order Part Number — L — P — V — N — S

Type D — L — P — V — N — S

(D selection type) ESVFE 5 — 140.00 — P4.90 — V3.70 — N80 — S11.0

(D designation type) ESVBF 9.6 — 120.05 — P8.55 — V6.10 — N70 — S12.5

Days to Ship **Quotation**

P Price **Quotation**

Alterations Part Number — D — L — P — V — N — S — (KC · WKC...etc.)

ESVBF — 9.6 — 120.05 — P8.55 — V6.10 — N70 — S12.5 — KC 4.8

Alteration details P.275

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	

Alterations	Code	Spec.	1Code
	TC	TC=0.1mm increments T/2≤TC<T, T-TC≤Lmax.-L Dimensions L, N, and (L-S) remain unchanged.	
	HC	HC=0.1mm increments D≤HC<H In relation to the diameter tolerance, alteration may create a straight piece with little diameter difference between the head and shaft.	
	HCC	HCC=0.1mm increments D+1≤HCC<H-0.3	
	CGX	CGX=0.1mm increments 0.2≤CGX≤1.5 and CGX≤(P-V)/2-0.1 Available when L-N≥50 Combination with RGX not available.	
	RGX	RGX=0.1mm increments 0.3≤RGX≤1.5 and RGX≤(P-V)/2-0.1 Available when L-N≥50 Combination with CGX not available.	

Quotation

Ejector Sleeves

High Speed Steel
SKH51 equivalent