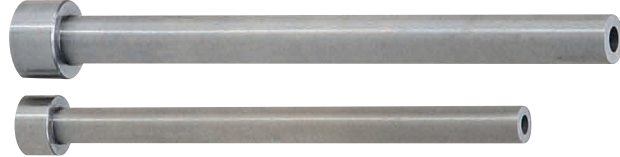


STRAIGHT EJECTOR SLEEVE

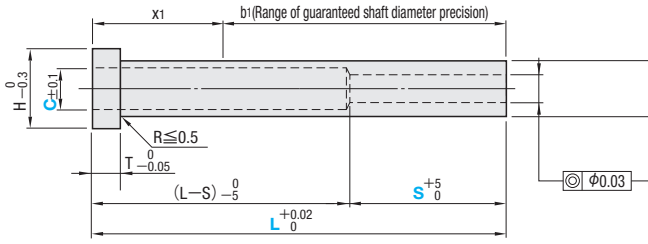
— SHAFT DIAMETER SELECTION TYPE • SHAFT DIAMETER DESIGNATION TYPE —

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

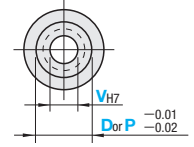
RoHS



Part Number		T D · P	T V	Applicable center pin shaft diameter tolerance
Shaft diameter selection type	Shaft diameter designation (0.01mm increments) type			
ESNVJ	ESJVB	-0.01 -0.02	H7	※Note that for sleeves with V dimension tolerance of H7, combination with center pins that have shaft diameter tolerance $\begin{matrix} 0 \\ -0.005 \end{matrix}$ is not recommended. The reason for this is the fitting sections S are longer. (Details P.1309)



C=designated dimension



VH7
Dor P -0.01
-0.02

SKD61 equivalent+Nitrided
Surface : 900HV
 Base material : 40±3HRC
b1 (Range of guaranteed shaft diameter precision) (Details [P.1305](#))
 $x1 \text{ max.} = 35$
 Range of guaranteed base material hardness (Details [P.1307](#))
 Range of guaranteed surface hardness for nitriding (Details [P.1308](#))

Ⓢ Nitriding may extend to the head as it is applied after dimension V and P machining.
 Ⓢ To insert a stepped center pin, the following condition must be met:
 the sleeve's recess diameter (C) ≥ the center pin's shaft diameter (D) +1.0 (Details [P.1310](#))

Order

Part Number	L	P	V	C	S
(Shaft diameter (D) selection type) ESNVJ8	— 200.05	—	— V4.5	— C5.0	— S32
(Shaft diameter (P) designation type) ESJVB8	— 200.05	— P7.55	— V5.0	— C5.5	— S40

Days to Ship

Quotation

Alterations

Part Number	L	P	V	C	S	(KC · WKC...etc.)
ESNVJ8	— 200.05	—	— V4.0	— C5.0	— S32	— KC 4.5
ESJVB8	— 200.05	— P7.55	— V5.0	— C5.5	— S40	— HC11.5

Alteration details [P.275](#)

Alterations	Code	Spec.	1Code
	KC	Single flat cutting (DorP)/2 ≤ KC < H/2	Quotation
	WKC	Two flats cutting (DorP)/2 ≤ WKC < H/2	
	KAC KBC	Varied width parallel flats cutting (DorP)/2 ≤ KAC < H/2 KBC = 0.1mm increments only KAC < KBC < H/2	
	RKC	Two flats (right angled) cutting (DorP)/2 ≤ RKC < H/2	
	DKC	Three flats cutting (DorP)/2 ≤ DKC < H/2	
	SKC	Four flats cutting (DorP)/2 ≤ SKC < H/2	
	KGC	Two flats (angled) cutting (DorP)/2 ≤ KGC < H/2 AG = 1° increments 0 < AG < 360	
	KTC	Three flats cutting at 120° (DorP)/2 ≤ KTC < H/2	
		(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	
		Ⓢ The tolerance is $\begin{matrix} 0 \\ -0.1 \end{matrix}$ even when (D or P)/2 is designated to fit to the shaft diameter.	
		(2) To designate arbitrary key flat dimensions Unit of designation 0.1mm	

Alterations	Code	Spec.	1Code
	TC	TC = 0.1mm increments T/2 ≤ TC < T, T - TC ≤ Lmax. - L Dimensions L and (L - S) remain unchanged.	Quotation
	HC	HC = 0.1mm increments (DorP) ≤ HC < H In relation to the head diameter tolerance, alteration may create a straight piece with little diameter difference between the head and shaft.	

Shaft diameter (D) selection type

H	T	Part Number		L 0.01mm increments	V 0.1mm increments	C 0.1mm increments	Cmax.	S 1mm increments								
		Type	D													
8	6	ESNVJ	4	40.00~200.00	1.5~2.5	C ≥ V + 0.5		3.0								
			4.5	40.00~250.00												
9			5	40.00~300.00	2.0~3.0					3.5						
			5.5								2.0~3.5					
10			6		2.5~4.0								4.0			
			6.5								2.5~4.5					
11			7		2.5~5.0										4.5	
			7.5								2.5~5.5					
12			8		2.5~6.5											
			9								2.5~7.5					
13	10	4.0~7.5			5.5											
	10					4.0~7.5										
14	8	ESJVB		8			40.00~200.00	1.5~1.9	C ≥ V + 0.5 and C ≤ P - 1.5	2.5						
				8.5		40.00~250.00										
9				5		40.00~300.00	2.0~2.9				3.0					
				5.5								2.0~3.4				
10				6			2.0~3.9							3.5		
				6.5								2.0~4.4				
11				7			2.0~4.9									4.0
				7.5								2.0~5.4				
12	8	2.5~5.9		4.5												
	8.5				2.5~6.4											
13	9	2.5~6.9					5.0									
	9.5				2.5~7.4											
14	10	2.5~7.9							5.5							
	10.5				2.5~8.4											
15	11	2.5~8.9									6.0					
	11.5				2.5~9.4											
16	12	2.5~9.9		6.5												
	12.5				2.5~10.4											
17	13	2.5~10.9					7.0									
	13.5				2.5~11.4											
18	14	2.5~11.9							7.5							
	14.5				2.5~12.4											
19	15	2.5~12.9									8.0					
	15.5				2.5~13.4											
20	16	2.5~13.9		8.5												
	16.5				2.5~14.4											
21	17	2.5~14.9					9.0									
	17.5				2.5~15.4											
22	18	2.5~15.9							9.5							
	18.5				2.5~16.4											
23	19	2.5~16.9									10.0					
	19.5				2.5~17.4											
24	20	2.5~17.9		10.5												
	20.5				2.5~18.4											
25	21	2.5~18.9					11.0									
	21.5				2.5~19.4											
26	22	2.5~19.9							11.5							
	22.5				2.5~20.4											
27	23	2.5~20.9									12.0					
	23.5				2.5~21.4											
28	24	2.5~21.9		12.5												
	24.5				2.5~22.4											
29	25	2.5~22.9					13.0									
	25.5				2.5~23.4											
30	26	2.5~23.9							13.5							
	26.5				2.5~24.4											
31	27	2.5~24.9									14.0					
	27.5				2.5~25.4											
32	28	2.5~25.9		14.5												
	28.5				2.5~26.4											
33	29	2.5~26.9					15.0									
	29.5				2.5~27.4											
34	30	2.5~27.9							15.5							
	30.5				2.5~28.4											
35	31	2.5~28.9									16.0					
	31.5				2.5~29.4											
36	32	2.5~29.9		16.5												
	32.5				2.5~30.4											
37	33	2.5~30.9					17.0									
	33.5				2.5~31.4											
38	34	2.5~31.9							17.5							
	34.5				2.5~32.4											
39	35	2.5~32.9									18.0					
	35.5				2.5~33.4											
40	36	2.5~33.9		18.5												
	36.5				2.5~34.4											
41	37	2.5~34.9					19.0									
	37.5				2.5~35.4											
42	38	2.5~35.9							19.5							
	38.5				2.5~36.4											
43	39	2.5~36.9									20.0					
	39.5				2.5~37.4											
44	40	2.5~37.9		20.5												
	40.5				2.5~38.4											
45	41	2.5~38.9					21.0									
	41.5				2.5~39.4											
46	42	2.5~39.9							21.5							
	42.5				2.5~40.4											
47	43	2.5~40.9									22.0					
	43.5				2.5~41.4											
48	44	2.5~41.9		22.5												
	44.5				2.5~42.4											
49	45	2.5~42.9					23.0									
	45.5				2.5~43.4											
50	46	2.5~43.9							23.5							
	46.5				2.5~44.4											
51	47	2.5~44.9									24.0					
	47.5				2.5~45.4											
52	48	2.5~45.9		24.5												
	48.5				2.5~46.4											
53	49	2.5~46.9					25.0									
	49.5				2.5~47.4											
54	50	2.5~47.9							25.5							
	50.5				2.5~48.4											
55	51	2.5~48.9									26.0					
	51.5				2.5~49.4											
56	52	2.5~49.9		26.5												
	52.5				2.5~50.4											
57	53	2.5~50.9					27.0									
	53.5				2.5~51.4											
58	54	2.5~51.9							27.5							
	54.5				2.5~52.4											
59	55	2.5~52.9									28.0					
	55.5				2.5~53.4											
60	56	2.5~53.9		28.5												
	56.5				2.5~54.4											
61	57	2.5~54.9					29.0									
	57.5				2.5~55.4											
62	58	2.5~55.9							29.5							
	58.5				2.5~56.4											
63	59	2.5~56.9									30.0					
	59.5				2.5~57.4											
64	60	2.5~57.9		30.5												
	60.5				2.5~58.4											
65	61	2.5~58.9					31.0									
	61.5				2.5~59.4											
66	62	2.5~59.9							31.5							
	62.5				2.5~60.4											
67	63	2.5~60.9									32.0					
	63.5				2.5~61.4											
68	64	2.5~61.9		32.5												
	64.5				2.5~62.4											
69	65	2.5~62.9					33.0									
	65.5				2.5~63.4											
70	66	2.5~63.9							33.5							
	66.5				2.5~64.4											
71	67	2.5~64.9									34.0					
	67.5				2.5~65.4											
72	68	2.5~65.9		34.5												
	68.5				2.5~66.4											
73	69	2.5~66.9					35.0									
	69.5				2.5~67.4											
74	70	2.5~67.9							35.5							
	70.5				2.5~68.4											
75	71	2.5~68.9									36.0					
	71.5				2.5~69.4											
76	72	2.5~69.9		36.5												
	72.5				2.5~70.4											
77	73	2.5~70.9					37.0									
	73.5				2.5~71.4											
78	74	2.5~71.9							37.5							
	74.5				2.5~72.4											
79	75	2.5~72.9									38.0					
	75.5				2.5~73.4											
80	76	2.5~73.9		38.5												
	76.5				2.5~74.4											
81	77	2.5~74.9					39.0									
	77.5				2.5~75.4											
82	78	2.5~75.9							39.5							
	78.5				2.5~76.4											
83	79	2.5~76.9									40.0					
	79.5				2.5~77.4											
84	80	2.5~77.9		40.5												
	80.5				2.5~78.4											
85	81	2.5~78.9					41.0									
	81.5				2.5~79.4											
86	82	2.5~79.9							41.5							
	82.5				2.5~80.4											
87	83	2.5~80.9									42.0					
	83.5				2.5~81.4											
88	84	2.5~81.9		42.5												
	84.5				2.5~82.4											
89	85	2.5~82.9					43.0									
	85.5				2.5~83.4											
90	86	2.5~83.9							43.5							
	86.5				2.5~84.4											
91	87	2.5~84.9									44.0					
	87.5				2.5~85.4											
92	88	2.5~85.9		44.5</												